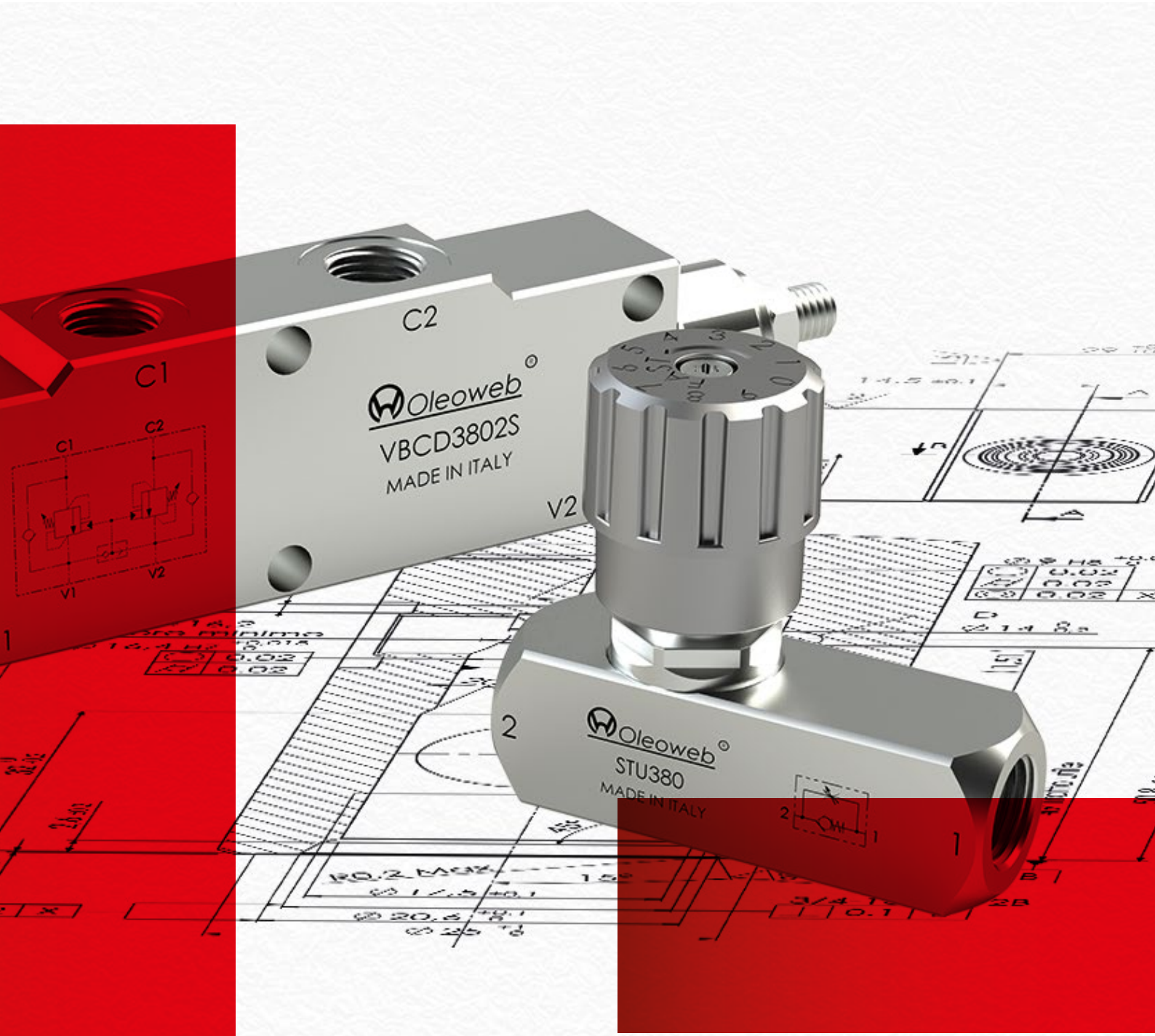
Oleoweb

HYDRAULIC VALVES AND COMPONENTS



VALVES & SOLUTIONS

MANUALE USO E MANUTENZIONE VALVOLE OLEODINAMICHE

Questo manuale è indirizzato a personale specializzato e competente che non può in ogni caso sostituire la professionalità e la competenza dell'installatore. La Casa Produttrice declina ogni responsabilità per danni alle persone ed agli oggetti dovuti ad una cattiva od impropria installazione delle valvole. La **Oleoweb Srl** è orientata ad una continua ricerca e sviluppo dei propri prodotti e pertanto si riserva il diritto si modificare in qualunque momento e senza alcun preavviso tutte le caratteristiche tecniche ritenute necessarie. Il presente manuale potrà subire variazioni ed integrazioni, ma non potrà in alcun caso ritenersi superato. Il presente manuale e la documentazione tecnica della **Oleoweb Srl** hanno lo scopo di fornire ulteriori informazioni tecniche ad utilizzatori competenti del settore (collaboratori competenti).

PERSONA COMPETENTE
È una persona che, per merito dell'addestramento tecnico e dell'esperienza, possiede una sufficiente conoscenza del settore. L'utilizzatore è responsabile della scelta del suo prodotto e dei suoi accessori. Risulta quindi importante che l'utilizzatore analizzi le problematiche della propria applicazione, esegundo analisi e prove adeguate. è inoltre il responsabile dell'applicazione, delle sicurezze e delle avvertenze richieste dalle direttive in vigore.

STAMPIGLIATURA
Le valvole **Oleoweb** sono identificabili per mezzo della stampigliatura posta sulla valvola:
- Logo aziendale
- Schema idraulico
- Codice
- Mese e anno di fabbricazione (in estensione al codice)

MESE DI FABBRICAZIONE	ANNO DI FABBRICAZIONE										
	2020	2021	2022	2023	2024	2025	2026	2028	2029	2030	2031
GENNAIO	20M	21M	22M	23M	24M	25M	26M	28M	29M	30M	31M
FEBBRAIO	20N	21N	22N	23N	24N	25N	26N	28N	29N	30N	31N
MARZO	20P	21P	22P	23P	24P	25P	26P	28P	29P	30P	31P
APRILE	20Q	21Q	22Q	23Q	24Q	25Q	26Q	28Q	29Q	30Q	31Q
MAGGIO	20R	21R	22R	23R	24R	25R	26R	28R	29R	30R	31R
GIUGNO	20S	21S	22S	23S	24S	25S	26S	28S	29S	30S	31S
LUGLIO	20T	21T	22T	23T	24T	25T	26T	28T	29T	30T	31T
AGOSTO	20U	21U	22U	23U	24U	25U	26U	28U	29U	30U	31U
SETTEMBRE	20V	21V	22V	23V	24V	25V	26V	28V	29V	30V	31V
OTTOBRE	20Z	21Z	22Z	23Z	24Z	25Z	26Z	28Z	29Z	30Z	31Z
NOVEMBRE	20X	21X	22X	23X	24X	25X	26X	28X	29X	30X	31X
DICEMBRE	20Y	21Y	22Y	23Y	24Y	25Y	26Y	28Y	29Y	30Y	31Y

USO PREVISTO DELLE VALVOLE
Le valvole **Oleoweb** sono destinate a costruttori di macchine ed attrezzature a comando oleodinamico.
Data la vastità applicativa delle valvole oleodinamiche e non essendo sempre nota la destinazione finale del prodotto, questo manuale è stato realizzato limitatamente in funzione delle generiche applicazioni conosciute.

LIMITI DI IMPIEGO
La **Oleoweb Srl** diffida ogni utilizzatore/clienti o costruttori nell'impiegare le valvole nelle seguenti applicazioni:
- Ambienti dove esista il pericolo di esplosione o incendio;
- Veicoli ed impianti aeronautici e spaziali;
- Sistemi ed impianti sterzanti su veicoli e su mezzi adibiti al trasporto di persone, cose ed animali;
- Sistemi frenanti, di blocco e di stallo in genere;
- Attrezzature ed impianti di applicazione in campo militare, nucleare, medicale ed ospedaliero;

TUTTAVIA LA DIREZIONE TECNICA DELLA OLEOWEB SRL SI RISERVA, DIETRO RICHIESTA DELL'UTILIZZATORE, DI VALUTARE CASO PER CASO LE APPLICAZIONI SOPRA CITATE E DI DARNE QUALORA LO RITENGA OPPORTUNO L'AUTORIZZAZIONE.

SPECIFICHE MECCANICHE
- Non manomettere alcun tipo di valvola, un semplice allentamento di una valvola potrebbe provocare la caduta libera di carichi o il cedimento di strutture.
- Tutte le operazioni d'installazione, montaggio, manutenzione e smontaggio delle valvole e dei componenti ad essa applicati devono essere eseguiti nel massimo rispetto delle norme di sicurezza. Durante queste operazioni, all'interno del circuito oleodinamico non deve mai essere presente pressione (pressione zero) e non deve esistere nessun tipo di carico sulla strutture dell'attrezzatura o della macchina a cui la valvola è applicata (carico zero).

SPECIFICHE ELETTRICHE
- Tutti i collegamenti e scollegamenti elettrici devono essere eseguiti da personale specializzato e competente.
- Prima di procedere a qualsiasi tipo di operazione o di intervento sulla valvola, devono essere scollegate dalla linea elettrica di alimentazione.

SPECIFICHE DI SICUREZZA
- Usare protezioni antinfortunistiche;
- Lavorare in condizioni di massima pulizia;
- Lavorare in condizioni di massima sicurezza;
- Usare strumenti, attrezzi e banchi di servizio adatti e puliti;
- Durante le operazioni di avviamento, normale lavoro, manutenzione, regolazione, sfiato dell'impianto, intervento e azionamento di valvole e vari elementi di controllo POSSONO VERIFICARSI DEGLI SCHIZZI IMPROVVISI E DELLE FUORIUSCITE DI FLUIDO IDRAULICO, IL QUALE PUÒ RAGGIUNGERE TEMPERATURE TALI DA CAUSARE USTIONI ALLA PELLE. Il fluido idraulico può essere pericoloso per la salute in quanto il contatto con la pelle e gli occhi può causare gravi danni. Attenersi scrupolosamente alle disposizioni di protezione e sicurezza imposte dal produttore del fluido idraulico riportate sulla scheda tecnica e tossicologica del prodotto. Il fluido idraulico può essere un prodotto inquinante. è perciò buona norma evitare perdite di fluido idraulico con prodotti oleoassorbenti. Rapide variazioni di temperatura possono pregiudicare sia le caratteristiche che la durata del prodotto, pertanto è indispensabile proteggerlo da queste situazioni.

MONTAGGIO
Un montaggio ed una corretta installazione sono fattori essenziali per il buon funzionamento nel tempo di un impianto oleodinamico. La polvere e la sporcizia sono i peggiori nemici dell'oleodinamica. Durante l'installazione preoccuparsi quindi della massima pulizia effettuando le principali operazioni di collegamento in un locale pulito e non polveroso. Le valvole devono essere montate in modo tale da permettere una facile accessibilità ai comandi, alle ispezioni, alla manutenzione ed alla riparazione, inoltre è altrettanto indispensabile che esse vengano montate in una zona protetta da urti accidentali e riparata da casuali contatti fisici, poichè la temperatura raggiunta durante il funzionamento può essere causa di ustioni.

MOVIMENTAZIONE
Le valvole oleodinamiche sono dei prodotti da maneggiare con cura ed attenzione. Per loro caratteristica presentano protuberanze soggette a rottura.

STOCCAGGIO
Le valvole oleodinamiche devono essere stoccate in un luogo protetto, possibilmente chiuso, al riparo da polvere, sporcizia, umidità ed intemperie, ad una temperatura non inferiore a -15° C e non superiore a +50° C. Inoltre, la protezione deve evitare la perdita di fluido idraulico rimasto nella valvola dopo il collaudo e non consentire l'accesso di corpi estranei, i quali si potrebbero dimostrare molto pericolosi per il buon funzionamento e per la durata della valvola.

SMALTIMENTO VALVOLE
Le valvole oleodinamiche sono costruite principalmente in lega di alluminio, in lega di acciaio e in materiale plastico; possono essere smaltite come normali materiali inviati al riciclaggio con l'unica avvertenza di effettuare lo svuotamento dal fluido idraulico in tutte le sue parti.

SMALTIMENTO FLUIDO IDRAULICO
I fluidi idraulici sono soggetti a speciali prescrizioni di smaltimento: rispettare le indicazioni e le istruzioni dei produttori e attenersi alle disposizioni legislative vigenti nel Paese di utilizzazione.

NON DISPERDERE NELL'AMBIENTE IL FLUIDO SOSTITUITO

MANUTENZIONE

Un impianto oleoidraulico ben installato e curato nella fase di montaggio e messa in esercizio assicura una lunga durata senza inconvenienti e non necessita di particolari cure manutentive. Il principio di base è la necessità di controllare spesso la qualità e lo stato del fluido che trasmette potenza e assicurarsi dell'assenza di impurità nel circuito cui è rapportata l'affidabilità di qualsiasi macchina oleoidraulica. Infatti, fra le cause principali di fuori servizio o di guasto, si può segnalare il bloccaggio di apparecchiature a seguito di grippaggi o di rotture dovuti ad usura e ad invecchiamento del fluido che trasmette potenza, con conseguente perdita delle sue proprietà chimico-fisiche.
è ormai accertato che la causa principale di tutti questi inconvenienti è dovuta alla presenza di particolari e microparticelle che circolano continuamente nel fluido e che costituiscono motivo di usura. Queste microparticelle, se lasciate circolare nel sistema, agiscono come una miscela abrasiva scalfendo le superfici con cui vengono a contatto e trascinando in ciclo ulteriore contaminante; i danni sono, ovviamente, tanto più gravi quanto più sono sofisticate le apparecchiature installate. Dalla messa in marcia dell'impianto, la manutenzione è fatta fondamentalmente di piccole operazioni che per essere veramente efficaci devono essere compiute con regolarità. è pertanto estremamente importante che tali operazioni di controllo e di verifica siano programmate e riportate su schede di macchine o di impianto.

PULIZIA ESTERNA
Permette una facile localizzazione di eventuali perdite e dunque l'immediato intervento.

CONTROLLO CONTINUO DELLA TEMPERATURA DELL'OLIO
L'alterazione del fluido a causa della temperatura è un motivo di inquinamento e di degradazione dell'impianto. La formazione dei prodotti di degradazione degli idrocarburi è particolarmente favorita dal calore: la velocità di ossidazione si può ritenere circa costante fino a 60°C, raddoppiando a partire da questo punto ad ogni incremento di 10°C. La presenza di morchie e di sedimenti nel fluido, causa di un aspetto torbido, segnala lo stato di degradazione dello stesso.

CAMBIO FLUIDO
Assicurare nel tempo le migliori condizioni di lavoro, con frequente controllo del fluido e sua periodica sostituzione. Mediamente dopo le prime 100 ore di lavoro, poi ogni 2000 ore o comunque una volta all'anno. Ad ogni cambio sostituire i filtri ed eseguire la pulizia del serbatoio. Prima di eseguire il cambio del fluido idraulico svuotare completamente l'impianto dallo stesso.

GARANZIA

CONDIZIONI GENERALI DI GARANZIA
I prodotti di nostra fabbricazione sono garantiti da eventuali avarie imputabili a difetti di fabbricazione o a materiali impiegati. La durata della garanzia sarà di 12 mesi dalla spedizione dal nostro stabilimento. Eventuali interventi di revisione in garanzia, dovranno essere effettuati dai servizi di Assistenza Tecnica da noi autorizzati, oppure presso il nostro stabilimento dove i prodotti dovranno essere inviati in porto franco con un imballo adeguato. Sarà considerata decaduta la garanzia in caso di incauto utilizzo, di manomissione, di modifica e/o di riparazione eseguita da personale non da noi autorizzato.

ASSISTENZA TECNICA FUORI GARANZIA
La **Oleoweb Srl** è a disposizione per le riparazioni dei prodotti anche decorso il termine di garanzia.
La **Oleoweb Srl** effettuerà la riparazione anche trascorsi diversi anni d'impiego (sempre che sia economicamente conveniente).
Il costo della riparazione dei nostri prodotti non più in garanzia viene normalmente calcolato a consuntivo. L'eventuale richiesta di un preventivo dovrà essere fatta espressamente al momento della consegna del prodotto da riparare. Nel caso che il preventivo non venga accettato, saranno comunque addebitate le spese da noi sostenute per la formulazione dello stesso.
Ogni prodotto reso per la revisione deve essere accompagnato da:
1. Regolare bolla completa di dati, come da disposizione di legge.
2. Lettera di indicazione del difetto riscontrato e dati di riferimento di un Tecnico Responsabile per eventuali chiarimenti.

OLIO · OIL

Utilizzare esclusivamente olio idraulico a base minerale ISO 6743/4 (DIN 51524).

Use only ISO 6743/4 (DIN 51524) hydraulic mineral oil.

VISCOSITÀ · VISCOSITY

La Viscosità deve essere secondo i parametri ISO 3448 (DIN51519). Il grado di viscosità viene indicato con le lettere ISO VG seguito da un numero che indica la viscosità cinematica media a 40° C in mm²/s o centiStokes (cSt).

The viscosity must be according to ISO 3448 (DIN51519) standards. The viscosity degree is stated by ISO VG letters followed by a number showing theaverage kinematic viscosity at 40° C in mm²/s or centistokes (cSt).

GRADI DI VISCOSITÀ ISO ISO VISCOSITY DEGREES	VISCOSITÀ CINEMATICA MEDIA AVERAGE KINEMATIC VISCOSITY mm²/s at 40° C	LIMITI VISCOSITÀ CINEMATICA KINEMATIC VISCOSITY LIMITS mm²/s at 40° C	
		Min.	Max.
ISO VG 15	15	13,5	16,5
ISO VG 22	22	19,8	24,2
ISO VG 32	32	28,8	35,2
ISO VG 46	**46**	**41,4**	**50,6**
ISO VG 68	68	61,2	74,8
ISO VG 100	100	90,0	110

TEMPERATURA · TEMPERATURE

Temperatura ambiente da -20°C a 50°C / Temperatura Olio da -20°C a 80°C.

Environment temperature from -20°C to 50°C / Oil Temperature from -20°C to 80°C.

FILTRAZIONE CONTAMINAZIONE · FILTRATION CONTAMINATION

Tutti i costruttori di prodotti oleodinamici riconoscono che l'eccessiva contaminazione dell'olio è la principale causa del malfunzionamento negli impianti oleodinamici. È indispensabile l'utilizzo di un filtro per proteggere la valvola. Oleoweb consiglia Filtrazione 15 µm - Classe di contaminazione ISO 4406: 1999 classe 19/17/14.

All manifacturers of hydraulic products recognize that excessive fluid contamination is the main cause of hydraulic installations bad working. It is necessary a filter use to protect the valve. Oleoweb advise filtration 15 µm - Contamination class ISO 4406: 1999 19/17/14.

MATERIALI · MATERIALS

Tutte le valvole sono prodotte in acciaio di alta qualità. I blocchi sono realizzati in acciaio o alluminio in relazione alla pressione di lavoro. Corpi e componenti in acciaio sono protetti superficialmente mediante zincatura trivalente CRIII. Su richiesta è disponibile il trattamento di zinco-nickel.

All products are made out high quality steel. The manifolds are produced in steel or aluminium in relation to the working pressure. Bodies and components are protected from corrosion with CRIII zinc plating. Under request zinc-nickel treatment is available.

GUARNIZIONI · SEALING

Le valvole Oleoweb montano guarnizioni in NBR. Per applicazioni con particolari temperature di lavoro sono disponibili su richiesta guarnizioni in viton o poliuretano.

Oleoweb Valves mount NBR seals as standard. For application exposed to particular temperatures, viton or polyurethane seals are available.

CONDIZIONI DI PROVA · TESTING CONDITIONS

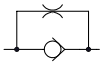
Tutte le curve di funzionamento riportate a catalogo sono state eseguite utilizzando olio minerale con grado di viscosità ISO VG46 alla temperatura di 40°C ed un grado di filtrazione assoluta di 15 µm.

All technical curves show in the present catalogue have been made using mineral oil with ISO VG46 viscosity degree at the temperature of 40°C and degree of absolute filtering of 15 µm.

I DATI PRESENTI NEL CATALOGO POSSONO ESSERE SOGGETTI A VARIAZIONI, PERTANTO OLEOWEB SI RISERVA IL DIRITTO DI APPORRE MODIFICHE IN QUALUNQUE MOMENTO E SENZA ALCUN PREAVVISO.

OLEOWEB RESERVES THE RIGHT TO MODIFY THE PRODUCTS AT ANY TIME AND WITHOUT NOTICE: THE TECHNICAL DATA OF THE CATALOGUE CAN CONSEQUENTLY CHANGE.

VALVOLE AD INSERTO - Insert valves

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	FILETTO Thread	PAGINA Page
	VUI	20	350	BSPP 1/4	2
		30		BSPP 3/8	
		50		BSPP 1/2	
		80		BSPP 3/4	
	VUC	20	350	BSPP 1/4	3
		30		BSPP 3/8	
	VUP	60		BSPP 1/2	4
		80		BSPP 3/4	
	VS	35	500	BSPP 3/8	14

VALVOLE A CARTUCCIA - Cartridge valves

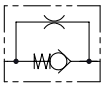
CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	CAVITÀ Cavity	PAGINA Page
	CUR6	25	350	SAE8/2	134
	CUR2015	25		C2015/2	137
	CUR10N	40		/	136
	CUR2215	40		C2215/2	138
	CUR2615	60		C2615/2	139
	CUR6M	25	350	SAE8/2	135

VALVOLE IN LINEA - In-line valves

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	DIMENSIONE Size	PAGINA Page
	VUR-BSPP	5	400	BSPP 1/8"	18
		15		BSPP 1/4"	
		30		BSPP 3/8"	
		50		BSPP 1/2"	
		90		BSPP 3/4"	
		150	350	BSPP 1"	
		200		BSPP 1-1/4"	
		300		BSPP 1-1/2"	
		430	250	BSPP 2"	
	VMF	15	400	BSPP 1/4"	22
		30		BSPP 3/8"	
		50		BSPP 1/2"	
		90		BSPP 3/4"	
		150	350	BSPP 1"	
	VUN	5	500	BSPP 1/4"	24
		15		BSPP 3/8"	
		30		BSPP 1/2"	
		50		BSPP 3/4"	
		90		BSPP 1"	
	VUR-SAE	15	400	7/16-20 UNF	20
		30		9/16-18 UNF	
		50		3/4-16 UNF	
		90		1-1/16-12 UN	
		150	350	1-5/16-12 UN	
		200		1-5/8-12 UN	
		300		1-7/8-12 UN	
		430		2-1/2-12 UN	

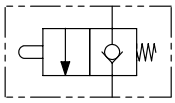
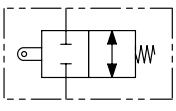
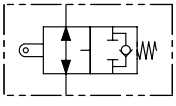
Aggiornamento - Update 20V-2020

VALVOLE UNIDIREZIONALI - Check valves

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	DIMENSIONE Size	PAGINA Page
	VUR-NPTF	5	400	1/8 NPTF	**21**
		15		1/4 NPTF	
		30		3/8 NPTF	
		50		1/2 NPTF	
		90		3/4 NPTF	
		150	350	1 NPTF	
		200		1-1/4 NPTF	
		300		1-1/2 NPTF	
		430		2 NPTF	
	VUR-H	5	400	BSPP 1/8"	**19**
		15		BSPP 1/4"	
		30		BSPP 3/8"	
		50		BSPP 1/2"	
		90		BSPP 3/4"	
		150	350	BSPP 1"	
		200		BSPP 1-1/4"	
		300		BSPP 1-1/2"	
		430	250	BSPP 2"	
	VMF-H	15	400	BSPP 1/4"	**23**
		30		BSPP 3/8"	
		50		BSPP 1/2"	
		90		BSPP 3/4"	
		150	350	BSPP 1"	
	VUN-H	5	500	BSPP 1/4"	**25**
		15		BSPP 3/8"	
		30		BSPP 1/2"	
		50		BSPP 3/4"	
		90		BSPP 1"	

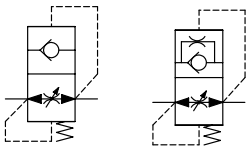
VALVOLE DI FINE CORSA
End stroke valves

VALVOLE IN LINEA - In-line valves

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	ATTACCHI Ports	PAGINA Page
	FCM	40	350	BSPP 1/4"	**54**
				BSPP 3/8"	
		60	300	BSPP 1/2"	
	FCT	60	250	BSPP 3/8"	**206**
		80		BSPP 1/2"	
		100		BSPP 3/4"	
		140	200	BSPP 1"	

VALVOLE DI SICUREZZA PER TUBAZIONI
Hose burst valves

VALVOLE AD INSERTO - Insert valves

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	CAVITÀ Cavity	PAGINA Page
	VUBA	25	350	BSPP 1/4"	6-7
		50		BSPP 3/8"	
		80		BSPP 1/2"	
		150		BSPP 3/4"	
		180		BSPP 1"	
	VUBA-DIN	50	315	BSPP 3/8" - M16x1,5	5
				BSPP 3/8" - M18x1,5	
				BSPP 3/8" - M22x1,5	
		80		BSPP 1/2" - M22x1,5	

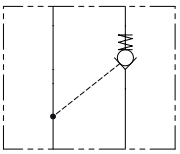
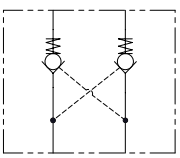
VALVOLE DI BLOCCO
PO check valves

VALVOLE A CARTUCCIA - Cartridges valves

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	CAVITÀ Cavity	PAGE Pagina
	VPR	15	350	SAE8/3	160
		30		SAE10/3	
	VPR22	50		C2215/3	161

VALVOLE DI BLOCCO - PO check valves

VALVOLE IN LINEA - In-line valves

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	ATTACCHI Ports	PAGINA Page
	VRP	35	350	BSPP 3/8"	60
		50		BSPP 1/2"	
	VRSE	15	320	BSPP 1/4"	55
		35		BSPP 3/8"	
		45	300	BSPP 1/2"	
		70		BSPP 3/4"	
	VRSD	10	320	BSPP 1/4" - pipe Ø8	57
		15		BSPP 1/4" - pipe Ø12	
		35		BSPP 3/8" - pipe Ø12	
		45		BSPP 1/2" - pipe Ø15	
	VRPE	25	350	BSPP 1/4"	59
		40		BSPP 3/8"	
		60		BSPP 1/2"	
		100	300	BSPP 3/4"	
		150		BSPP 1"	
	VRDE	15	320	BSPP 1/4"	56
		35		BSPP 3/8"	
		45	300	BSPP 1/2"	
		70		BSPP 3/4"	
	VRDD	10	320	BSPP 1/4" - pipe Ø8	58
		15		BSPP 1/4" - pipe Ø12	
		35		BSPP 3/8" - pipe Ø12	
		45		BSPP 1/2" - pipe Ø15	
	VRDL	35	350	BSPP 1/4"	61
				BSPP 3/8"	
		50		BSPP 1/2"	
	VRDF	35	350	BSPP 3/8" - Ø6	62
		50		BSPP 1/2" - Ø7	

Aggiornamento - Update
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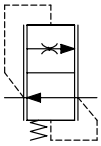
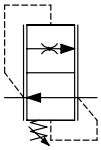
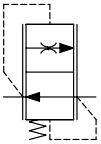
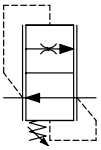
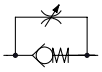
VALVOLE DI CONTROLLO PORTATA
Flow control valves

VALVOLE AD INSERTO - Insert Valves

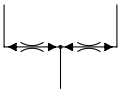
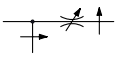
CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	FILETTO Thread	PAGE Pagina
	VCC	12	250	BSPP 1/4"	**8**
		18		BSPP3/8"	**9**
	VSC	47	250	BSPP 1/2"	**10**
	VSCR6	12		Ø12,7	**11**
	VRD	20	300	BSPP 1/4"	**12**
		35		BSPP 3/8"	
		65		BSPP 1/2"	
		150		BSPP 3/4"	

VALVOLE DI CONTROLLO PORTATA
Flow control valves

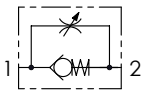
VALVOLE A CARTUCCIA - Cartridges Valves

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	CAVITÀ Cavity	PAGINA Page
	VSC6	12	250	SAE8/2	**140**
	VCF6	18	350	SAE8/2	**141**
	VRF6	40	350	SAE8/2	**143**
	VBF6	30	350	SAE8/2	**142**

VALVOLE DI CONTROLLO PORTATA
Flow control valves

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	CAVITÀ Cavity	PAGINA Page
	SV	15	350	SAE8/3	**162**
		30		SAE10/3	
	VDRF10	40	350	SAE10/4	**144**
	CP10	50	350	SAE10/3	**145**

VALVOLE IN LINEA - In-line valves

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	ATTACCHI Ports	PAGINA Page
	VURF	5	350	BSPP 1/8"	**26**
		15		BSPP 1/4"	
		30		BSPP 3/8"	
		45		BSPP 1/2"	
		85	300	BSPP 3/4"	
		150	250	BSPP 1"	
		200		BSPP 1-1/4"	
	STU-BSPP	10	400	BSPP 1/8"	**28**
		15		BSPP 1/4"	
		30		BSPP 3/8"	
		50		BSPP 1/2"	
		80		BSPP 3/4"	
		150		BSPP 1"	
		200	350	BSPP 1-1/4"	
		300		BSPP 1-1/2"	
	STUF-BSPP	10	400	BSPP 1/8"	**29**
		15		BSPP 1/4"	
		30		BSPP 3/8"	
		50		BSPP 1/2"	
		80		BSPP 3/4"	
		150		BSPP 1"	
		200	350	BSPP 1-1/4"	
		300		BSPP 1-1/2"	
	SVU-BSPP	10	400	BSPP 1/8"	**40**
		15		BSPP 1/4"	
		30		BSPP 3/8"	
		50		BSPP 1/2"	
	STU-NPTF	10	400	1/8 NPTF	**30**
		15		1/4 NPTF	
		30		3/8 NPTF	
		50		1/2 NPTF	
		80		3/4 NPTF	
		150		1 NPTF	
		200	350	1-1/4 NPTF	
		300		1-1/2 NPTF	
	STUF-NPTF	10	400	1/8 NPTF	**31**
		15		1/4 NPTF	
		30		3/8 NPTF	
		50		1/2 NPTF	
		80		3/4 NPTF	
		150		1 NPTF	
		200	350	1-1/4 NPTF	
		300		1-1/2 NPTF	
	SVU-NPTF	10	400	1/8 NPTF	**41**
		15		1/4 NPTF	
		30		3/8 NPTF	
		50		1/2 NPTF	
	STU-SAE	15	400	7/16-20 UNF	**32**
		30		9/16-18 UNF	
		50		3/4-16 UNF	
		80		1-1/16-12 UN	
		150		1-5/16-12 UN	
		200	350	1-5/8-12 UN	
		300		1-7/8-12 UN	
	STUF-SAE	15	400	7/16-20 UNF	**33**
		30		9/16-18 UNF	
		50		3/4-16 UNF	
		80		1-1/16-12 UN	
		150		1-5/16-12 UN	
		200	350	1-5/8-12 UN	
		300		1-7/8-12 UN	
	SVU-SAE	15	400	7/16-20 UNF	**42**
		30		9/16-18 UNF	
		50		3/4-16 UNF	
		80		1-1/16-12 UN	
		150		1-5/16-12 UN	
		200	350	1-5/8-12 UN	
		300		1-7/8-12 UN	

Aggiornamento - Update
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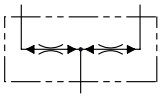
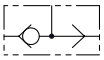
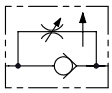
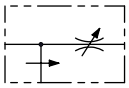
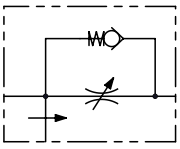
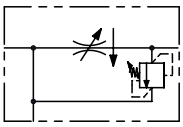
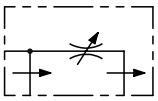
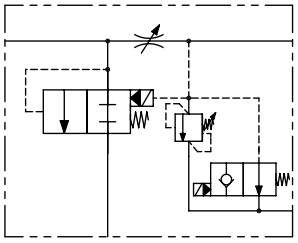
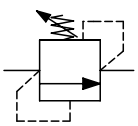
CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	ATTACCHI Ports	PAGINA Page
1 2	VBRF	5	350	BSPP 1/8"	27
		15		BSPP 1/4"	
		30		BSPP 3/8"	
		45		BSPP 1/2"	
		85	300	BSPP 3/4"	
		150	250	BSPP 1"	
		200		BSPP 1-1/4"	
	STB-BSPP	10	400	BSPP 1/8"	34
		15		BSPP 1/4"	
		30		BSPP 3/8"	
		50		BSPP 1/2"	
		80		BSPP 3/4"	
		150		BSPP 1"	
		200	350	BSPP 1-1/4"	
		300		BSPP 1-1/2"	
	STBF-BSPP	10	400	BSPP 1/8"	35
		15		BSPP 1/4"	
		30		BSPP 3/8"	
		50		BSPP 1/2"	
		80		BSPP 3/4"	
		150		BSPP 1"	
		200	350	BSPP 1-1/4"	
		300		BSPP 1-1/2"	
	SVB-BSPP	10	400	BSPP 1/8"	43
		15		BSPP 1/4"	
		30		BSPP 3/8"	
		50		BSPP 1/2"	
	STB-NPTF	10	400	1/8 NPTF	36
		15		1/4 NPTF	
		30		3/8 NPTF	
		50		1/2 NPTF	
		80		3/4 NPTF	
		150		1 NPTF	
		200	350	1-1/4 NPTF	
		300		1-1/2 NPTF	
	STBF-NPTF	10	400	1/8 NPTF	37
		15		1/4 NPTF	
		30		3/8 NPTF	
		50		1/2 NPTF	
		80		3/4 NPTF	
		150		1 NPTF	
		200	350	1-1/4 NPTF	
		300		1-1/2 NPTF	
	SVB-NPTF	10	400	1/8 NPTF	44
		15		1/4 NPTF	
		30		3/8 NPTF	
		50		1/2 NPTF	
	STB-SAE	15	400	7/16-20 UNF	38
		30		9/16-18 UNF	
		50		3/4-16 UNF	
		80		1-1/16-12 UN	
		150		1-5/16-12 UN	
		200	350	1-5/8-12 UN	
		300		1-7/8-12 UN	
	STBF-SAE	15	400	7/16-20 UNF	39
		30		9/16-18 UNF	
		50		3/4-16 UNF	
		80		1-1/16-12 UN	
		150		1-5/16-12 UN	
		200	350	1-5/8-12 UN	
		300		1-7/8-12 UN	
	SVB-SAE	15	400	7/16-20 UNF	45
		30		9/16-18 UNF	
		50		3/4-16 UNF	
		80		1-1/16-12 UN	
		150		1-5/16-12 UN	
		200	350	1-5/8-12 UN	
		300		1-7/8-12 UN	

VALVOLE DI CONTROLLO PORTATA - Flow control valves

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	ATTACCHI Ports	PAGINA Page
	DRF10	40	250	BSPP 3/8" - BSPP 3/8" BSPP 3/8" - BSPP 1/2" BSPP 1/2" - BSPP 3/8" BSPP 1/2" - BSPP 1/2"	**48**
	VUSF	20 40 60	350	BSPP 1/4" BSPP 3/8" BSPP 1/2"	**47**
	VRC	10 18 33	250	BSPP 1/4" BSPP 3/8" BSPP 1/2"	**46**
	VPT	50 90 150 240	250	BSPP 3/8" BSPP 1/2" BSPP 3/4" BSPP 1"	**49**
	VPT-AR	50 90	250	BSPP 3/8" BSPP 1/2"	**50**
	VPT-RV	50 90 150	250	BSPP 3/8" BSPP 1/2" BSPP 3/4"	**51**
	VPP	50 90 150	250	BSPP 3/8" BSPP 1/2" BSPP 3/4"	**52**
	VPP-RV	50 90	250	BSPP 3/8" BSPP 1/2"	**53**

VALVOLE DI MASSIMA Relief valves

VALVOLE A CARTUCCIA - Cartridges valves

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	CAVITÀ Cavity	PAGINA Page
	VMD1N	20	350	SAE8/2	**153**
	VMD10	20	350	SAE8/2	**154**
	VMD8	40	350	SAE10/2	**155**
	VMD30	30	320	C2015/30	**156**
	VMD40S	40	350	C2015/1415/2	**157**
	VMD90	80	350	C2415/2	**158**
	VMD120	120	350	C2815/2	**159**

Aggiornamento - Update
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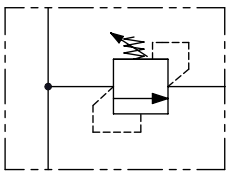
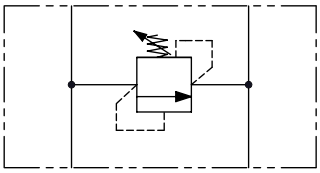
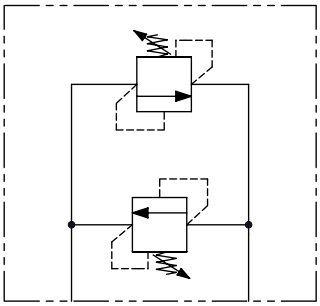
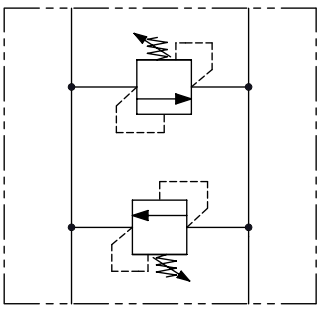
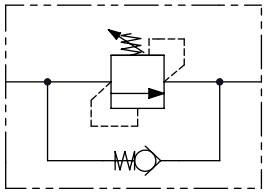
VALVOLE DI MASSIMA - Relief valves

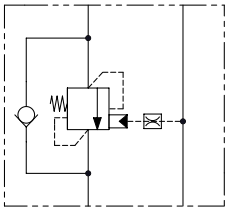
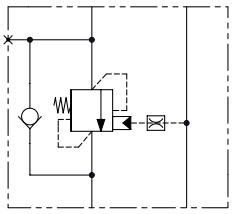
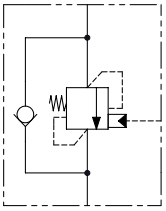
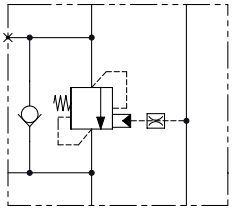
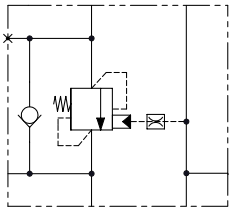
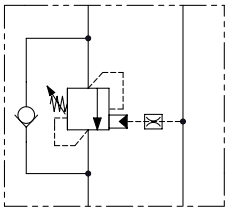
VALVOLE IN LINEA - In-line valves

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	ATTACCHI Ports	PAGINA Page
	VMDR1	20	350	BSPP 1/4" BSPP 3/8"	**70**
	VMDR10	20	350	BSPP 1/4" BSPP 3/8"	**71**
	VMDR40	40	350	BSPP 3/8" BSPP 1/2"	**72**
	VMDR90	80	350	BSPP 1/2" BSPP 3/4"	**73**
	VMDR120	120	350	BSPP 3/4" BSPP 1"	**74**
	SCF	40	350	BSPP 1/2" - Ø19	**67**
	DCA	20	350	BSPP 1/4" BSPP 3/8"	**63**
	VBDC	40	350	BSPP 3/8" BSPP 1/2"	**64**
	DCL	40	350	BSPP 1/2" - Ø21	**65**
	DCV	40	350	BSPP 1/2" - Ø21	**66**
	DCF	40	350	BSPP 1/2" - Ø19	**68**
	DCM	40	350	BSPP 1/2" - Ø19	**69**

VALVOLE DI SEQUENZA - Sequence valves

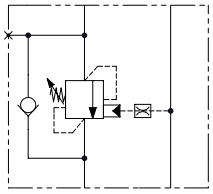
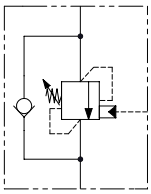
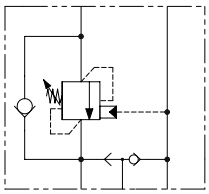
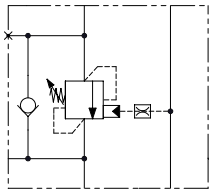
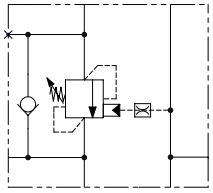
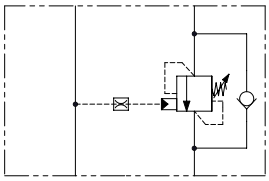
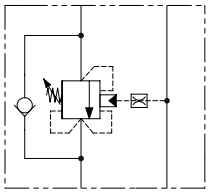
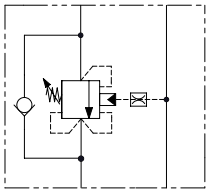
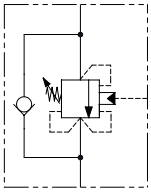
CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	ATTACCHI Ports	PAGINA Page
	VSL	20	350	BSPP 1/4"	**75**
		40		BSPP 3/8"	
				BSPP 1/2"	

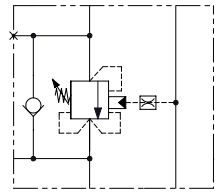
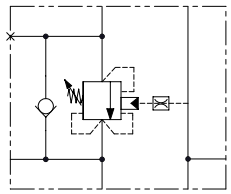
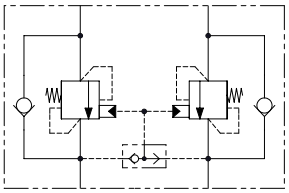
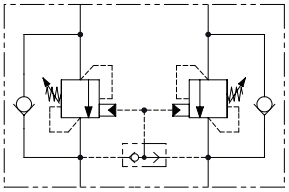
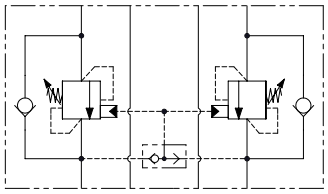
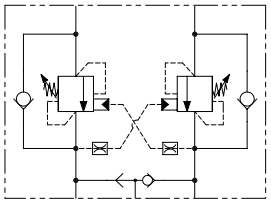
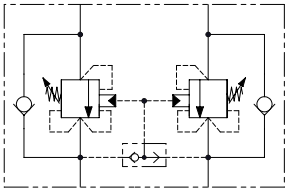
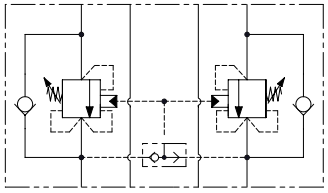
VALVOLE DI BILANCIAMENTO - Counterbalance valves

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	ATTACCHI Ports	PAGINA Page
	VBZB	40	350	BSPP 3/8" + BANJO BOLT	**82**
	VBZL	30	350	BSPP 1/4"	**85**
		40		BSPP 3/8"	
		60		BSPP 1/2"	
	VBZP	30	350	BSPP 1/4"	**89**
		40		BSPP 3/8"	
		60		BSPP 1/2"	
	VBZR	30	350	BSPP 1/4"	**93**
		40		BSPP 3/8"	
		60		BSPP 1/2"	
	VBZH	40	350	BSPP 3/8" - Ø9	**96**
		60		BSPP 1/2" - Ø9	
	VBZF	40	350	BSPP 3/8" - Ø9	**99**
		60		BSPP 1/2" - Ø9	
	VBCB	40	350	BSPP 3/8" + BANJO BOLT	**80**
	VBCL	30	350	BSPP 1/4"	**83**
		40		BSPP 3/8"	
		60		BSPP 1/2"	
		120		BSPP 3/4"	
	VBCL-SAE	30	350	7/16-20UNF	**84**
		40		9/16-18UNF	
		60		3/4-16UNF	

Aggiornamento - Update
20V-2020

VALVOLE DI BILANCIAMENTO SINGOLE - Single counterbalance valves

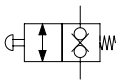
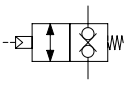
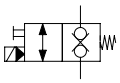
CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	ATTACCHI Ports	PAGINA Page
	VBLP	40	350	BSPP 3/8"	**88**
		60		BSPP 1/2"	
	VBCR	30	350	BSPP 1/4"	**91**
		40		BSPP 3/8"	
		60		BSPP 1/2"	
	VBFP	40	350	BSPP 3/8"	**94**
	VBLH	40	350	BSPP 3/8" - Ø9	**95**
	VBLF	40	350	BSPP 3/8" - Ø9	**98**
		60		BSPP 1/2" - Ø9	
	SCVB	60	350	OMP - OMR	**112**
	VCCB	40	350	BSPP 3/8"	**81**
	VCCL	30	350	BSPP 1/4"	**86**
		40		BSPP 3/8"	
		60		BSPP 1/2"	
	VCCL-SAE	30	350	7/16-20UNF	**87**
		40		9/16-18UNF	
		60		3/4-16UNF	
	VCLP	40	350	BSPP 3/8"	**90**
		60		BSPP 1/2"	
	VCCR	30	350	BSPP 1/4"	**92**
		40		BSPP 3/8"	
		60		BSPP 1/2"	

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	ATTACCHI Ports	PAGINA Page
	VCLH	40	350	BSPP 3/8" - Ø9	**97**
		60		BSPP 1/2" - Ø9	
	VCLF	40	350	BSPP 3/8" - Ø9	**100**
		60		BSPP 1/2" - Ø9	
	VBZD	30	350	BSPP 1/4"	**104**
		40		BSPP 3/8"	
		60		BSPP 1/2"	
	VBZG	30	350	BSPP 1/4" - Ø9	**108**
		40		BSPP 3/8" - Ø9	
		60		BSPP 1/2" - Ø9	
	VBCA	40	350	BSPP 3/8" + BANJO BOLT	**101**
	VBCD	30	350	BSPP 1/4"	**102**
		40		BSPP 3/8"	
		60		BSPP 1/2"	
		120		BSPP 3/4"	
	VBCD-SAE	30	350	7/16-20UNF	**103**
		40		9/16-18UNF	
		60		3/4-16UNF	
	VBCF	30	350	BSPP 1/4" - Ø9	**107**
		40		BSPP 3/8" - Ø9	
		60		BSPP 1/2" - Ø9	
	VBCS	40	350	CETOP 3	**110**
	DCVB	60	350	OMP - OMR	**113**
	VBCC	30	350	BSPP 1/4"	**105**
		40		BSPP 3/8"	
		60		BSPP 1/2"	
	VBCC-SAE	30	350	7/16-20UNF	**106**
		40		9/16-18UNF	
		60		3/4-16UNF	
	VBCM	30	350	BSPP 1/4" - Ø9	**109**
		40		BSPP 3/8" - Ø9	
		60		BSPP 1/2" - Ø9	
	VBCT	40	350	CETOP 3	**111**

Aggiornamento - Update
20V-2020

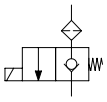
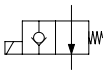
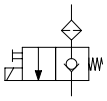
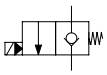
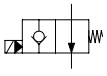
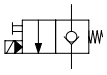
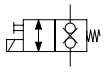
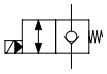
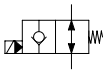
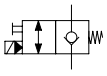
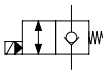
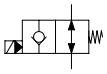
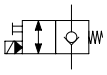
VALVOLE A COMANDO MANUALE o PNEUMATICO
Manula or pneumatic operated release valves

VALVOLE A CARTUCCIA - Cartridges calves

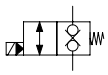
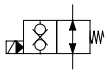
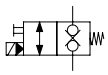
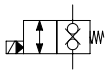
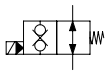
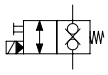
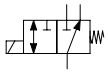
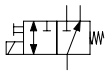
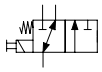
CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	CAVITÀ Cavity	PAGINA Page
	VEM6	30	320	SAE8/2	**151**
	VEM10	50		SAE10/2	
	VPN6	40	350	SAE8/2	**152**
	CM60	25	320	SAE8/2	**146**
	CM6M				

VALVOLE A COMANDO ELETTRICO - Electrical valves

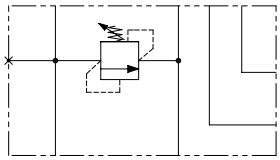
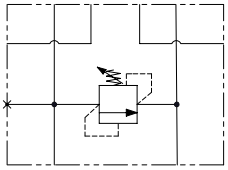
VALVOLE A CARTUCCIA - Cartridges calves

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	CAVITÀ Cavity	PAGINA Page
	EVC6	22	210	SAE8/2	**120**
	EVA6				
	EVE6				
	EVC7	40	350	SAE8/2	**122**
	EVA7				
	EVE7				
	EDE6	22	210	SAE8/2	**121**
	EVC8	40	350	SAE8/2	**123**
	EVA8				
	EVE8				
	EVC30	70	350	SAE10/2	**127**
	EVA30				
	EVE30				

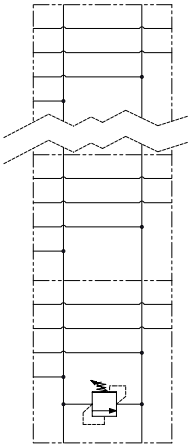
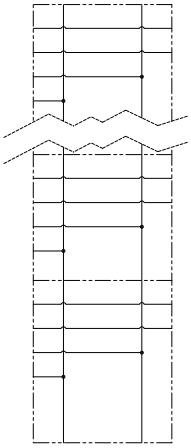
VALVOLE A COMANDO ELETTRICO - Electrical valves

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	CAVITÀ Cavity	PAGINA Page
	EDC9	40	350	SAE8/2	**124**
	EDA9				
	EDE9				
	EVC34	70	350	SAE10/2	**128**
	EVA34				
	EVE34				
	EVC10	12	210	SAE8/3	**125**
	EVE10				
	EVC11	12	210	SAE8/3	**126**
	EVE11				

BASI MULTIPLE - Cetop manifolds

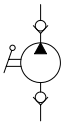
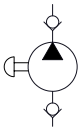
CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	CETOP	ATTACCHI CETOP CETOP ports		PAGINA Page
					P-T	A-B	
	BS3	40	21	CETOP 3	BSPP 3/8"	BSPP 3/8"	**166**
	BP3	40	210	CETOP 3	BSPP 3/8"	BSPP 3/8"	**167**
	BS5	80	210	CETOP 5	BSPP 1/2"	BSPP 1/2"	**168**

BASI MULTIPLE - Cetop manifolds

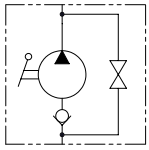
CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	CETOP	ATTACCHI CETOP CETOP ports		PAGINA Page
					P-T	A-B	
	BM-RV	40	210	CETOP 3	BSPP 1/2"	BSPP 3/8"	**169**
	BM	40	210	CETOP 3	BSPP 1/2"	BSPP 3/8"	**170**

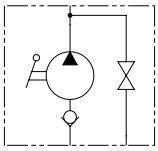
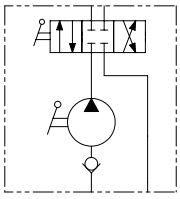
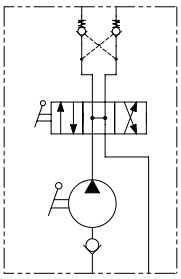
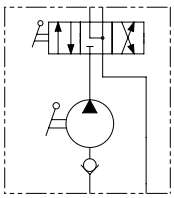
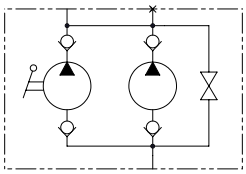
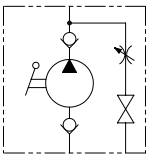
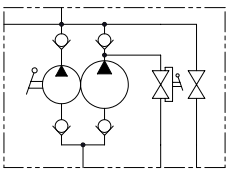
POMPE - Pumps

POMPE A CARTUCCIA - Cartridge pumps

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	CAVITÀ Cavity	PAGINA Page
	PME	1	300	SAE8/2	**147**
		2	200		
		3	120		
	PME10	10	200	SAE10/2	**148**
	PME5P	1	50	SAE8/2	**150**

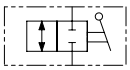
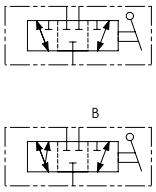
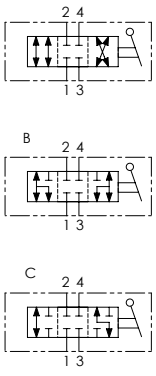
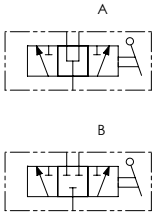
POMPE A MANO - Hand pumps

	PM	20	350	BSPP 1/2" - BSPP 3/8"	**180-181**
		50	280	BSPP 1/2" - BSPP 1/2"	**182-183**
		70	200	BSPP 1/2" - BSPP 1/2"	**184-185**
	PMS	6	500	Pipe - BSPP 3/8"	**186-187**
		12	380	Pipe - BSPP 3/8"	
		25	350	Pipe - BSPP 3/8"	
		45	280	Pipe - BSPP 3/8"	

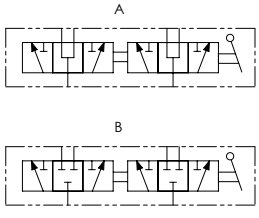
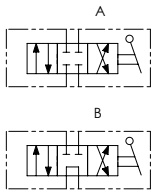
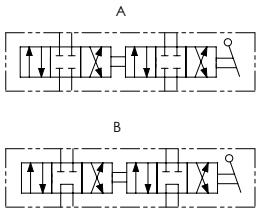
CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	CILINDRATA Displacement (cm^3)	PRESSIONE Pressure (bar)	ATTACCHI CETOP CETOP Ports IN - OUT	PAGINA Page
	PME2	20	240	Pipe - BSPP 1/4"	**196-197**
		30	185	Pipe - BSPP 1/4"	
		40	160	Pipe - BSPP 1/4"	
	PME1	8	380	Pipe - BSPP 1/4"	**194-195**
		15	350	Pipe - BSPP 1/4"	
	PMI	6	500	Pipe - BSPP 3/8"	**188-189**
		12	380	Pipe - BSPP 3/8"	
		25	350	Pipe - BSPP 3/8"	
		45	280	Pipe - BSPP 3/8"	
	PMT	6	500	Pipe - BSPP 1/4"	**190-191**
		12	380	Pipe - BSPP 1/4"	
		25	350	Pipe - BSPP 1/4"	
		45	280	Pipe - BSPP 1/4"	
	PMA	6	500	Pipe - BSPP 3/8"	**192-193**
		12	380	Pipe - BSPP 3/8"	
		25	350	Pipe - BSPP 3/8"	
		45	280	Pipe - BSPP 3/8"	
	PMD	5	500	BSPP 3/8" - BSPP 3/8"	**198**
		10	250	BSPP 3/8" - BSPP 3/8"	
		17	150	BSPP 3/8" - BSPP 3/8"	
	PME3	14	200	- - BSPP 1/4"	**199**
	PME580	5 - 80	20 - 500	Pipe - BSPP 3/8"	**200-201**

Aggiornamento - Update
20V-2020

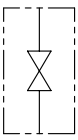
VALVOLE IN LINEA - In-line valves

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	ATTACCHI Ports	PAGINA Page
	RAS2-BSPP	15	500	BSPP 1/8"	**218**
		25		BSPP 1/4"	
		35		BSPP 3/8"	
		60		BSPP 1/2"	
		100	400	BSPP 3/4"	
		150	350	BSPP 1"	
				BSPP 1-1/4"	
				BSPP 1-1/2"	
	RAS2-NPTF	15	500	1/8 NPTF	**221**
		25		1/4 NPTF	
		35		3/8 NPTF	
		60		1/2 NPTF	
		100	400	3/4 NPTF	
		150	350	1 NPTF	
				1-1/4 NPTF	
				1-1/2 NPTF	
	RAS3-BSPP	15	400	BSPP 1/8"	**219**
		25		BSPP 1/4"	
		35		BSPP 3/8"	
		60	350	BSPP 1/2"	
		100		BSPP 3/4"	
		150		BSPP 1"	
				BSPP 1-1/4"	
				BSPP 1-1/2"	
	RAS3-NPTF	15	400	BSPP 1/8"	**222**
		25		BSPP 1/4"	
		35		BSPP 3/8"	
		60	350	BSPP 1/2"	
		100		BSPP 3/4"	
		150		BSPP 1"	
				BSPP 1-1/4"	
				BSPP 1-1/2"	
	RAS4-BSPP	25	500	BSPP 1/4"	**220**
		35	400	BSPP 3/8"	
		60	350	BSPP 1/2"	
		100		BSPP 3/4"	
		150		BSPP 1"	
				BSPP 1-1/4"	
				BSPP 1-1/2"	
	RAS4-NPTF	25	500	1/4 NPTF	**223**
		35	400	3/8 NPTF	
		60	350	1/2 NPTF	
		100		3/4 NPTF	
		150		1 NPTF	
				1-1/4 NPTF	
				1-1/2 NPTF	
	DDFA3-N	40	500	BSPP 1/4"	**207**
				BSPP 3/8"	
		60		BSPP 1/2"	
		100		BSPP 3/4"	
		180		BSPP 1"	
	DDF3-BSPP	60	350	BSPP 1/4"	**208**
				BSPP 3/8"	
		90		BSPP 1/2"	
		120		BSPP 3/4"	
		200	300	BSPP 1"	
	DDF3-SAE	60	350	3/4-16UNF	**209**
		90		7/8-14UNF	
		120		1-1/16-12UN	
		200	300	1-5/16-12UN	

DEVIATORI E VALVOLE A SFERA
Flow diverters and ball valves

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	ATTACCHI Ports	PAGINA Page
	DDF6-BSPP	60	350	BSPP 1/4"	210
				BSPP 3/8"	
		90		BSPP 1/2"	
		120		BSPP 3/4"	
		200	300	BSPP 1"	
	DDF6-SAE	60	350	3/4-16UNF	211
		90		7/8-14UNF	
		120		1-1/16-12UN	
		200	300	1-5/16-12UN	
	IDF4-BSPP	60	350	BSPP 1/4"	212
				BSPP 3/8"	
		90		BSPP 1/2"	
		120		BSPP 3/4"	
		200	300	BSPP 1"	
	IDF4-SAE	60	350	3/4-16UNF	213
		90		7/8-14UNF	
		120		1-1/16-12UN	
		200	300	1-5/16-12UN	
	IDF8-BSPP	60	350	BSPP 1/4"	214
				BSPP 3/8"	
		90		BSPP 1/2"	
		120		BSPP 3/4"	
		200	300	BSPP 1"	
	IDF8-SAE	60	350	3/4-16UNF	215
		90		7/8-14UNF	
		120		1-1/16-12UN	
		200	300	1-5/16-12UN	

COMPONENTI VARI - Hydraulic components

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	FILETTO Thread	PAGINA Page
	GGIL	25	400	BSPP 1/4"	224
		35		BSPP 3/8"	
		60	300	BSPP 1/2"	
		100		BSPP 3/4"	
		180		BSPP 1"	
	GG90	25	400	BSPP 1/4"	225
		35		BSPP 3/8"	
		60	300	BSPP 1/2"	
		100		BSPP 3/4"	
		180		BSPP 1"	
	SOV	-	400	BSPT 1/4" - BSPP 1/4"	226-227
				BSPP 1/4" - BSPP 1/4"	
				BSPT 1/4" - BSPP 1/4"	
				BSPT 1/4" - BSPP 1/4"	
				BSPP 1/4" - BSPP 1/4"	
				BSPT 1/4" - BSPP 1/4"	
	MNP-BSPP	-	630	BSPP 1/8"	228
				BSPP 1/4"	
				BSPP 3/8"	
				BSPP 1/2"	
	MNP-NPTF	-	630	1/8 NPTF	229
				1/4 NPTF	
				3/8 NPTF	
				1/2 NPTF	

SERBATOI - Reservoirs

CIRCUITO IDRAULICO Hydraulic circuit	CAPACITÀ (l) Capacity (l)	PAGINA Page
TNK	1	202
	2	
	3	
	5	
	7	
	10	
	13	
	15	
	20	
TNA	1	203
	2	
	3	
	5	

BLOCCHI - Manifodls

CODICE Model code	CAVITÀ Cavity	ATTACCHI Ports	PAGINA Page
62200032	SAE8/2	BSPP 1/4"	171
62200051		BSPP 3/8"	
62200357	SAE8/3	BSPP 1/4"	
62200358		BSPP 3/8"	
62200451	SAE10/2	BSPP 3/8"	172
62200452		BSPP 1/2"	
62200373	SAE10/3	BSPP 3/8"	
62200374		BSPP 1/2"	
62200023	SAE8/2 (PME 5/6/7)	BSPP 1/4"	

CAVITÀ - Cavities

CODICE Model code	CAVITÀ Cavity	PAGINA Page
SAE /2	3/4-16UNF	173
	7/8-14UNF	
	1-1/16-12UNF	
	1-5/16-12UNF	
SAE /3	3/4-16UNF	174
	7/8-14UNF	
	1-1/16-12UNF	
	1-5/16-12UNF	
SAE /4	3/4-16UNF	175
	7/8-14UNF	
	1-1/16-12UNF	
	1-5/16-12UNF	
C2015/2	M20x1,5	176
C2015/30	M20x1,5	
C2015/1415/2	M20x1,5 - M14x1,5	
C2215/2	M22x1,5	
C2215/3	M22x1,5	177
C2415/2	M24x1,5	
C2615/2	M26x1,5	
C2815/2	M28x1,5	

TAPPI - Plug

CODICE Model code	CAVITÀ Cavity	ATTACCHI Ports	PAGINA Page
PLUG BSPP	BSPP 1/4"	-	230
	BSPP 3/8"	-	
	BSPP 1/2"	-	
	BSPP 3/4"	-	
	BSPP 1"	-	
PLUG 3/4-16UNF	SAE8/2	-	231
	SAE8/2	BSPP 1/4"	
	SAE8/2	BSPP 1/4"	
	3/4-16UNF	BSPP 1/4"	
	3/4-16UNF	-	

BOBINE E CONNETTORI
Coils and Connectors

BOBINE - Coil

CODICE Model code	POTENZA Power (W)	TENSIONE Voltage (V)	Ø CANOTTO Bore size (mm)	PAGINA Page
EC	18	12 - VDC	Ø13	129
	18	24 - VDC		
	18	220 - 50/60Hz 220 RAC	Ø13	
	18			
EC36	22	12 - VDC	Ø13	
	22	24 - VDC	Ø13	
	22	220 - 50/60Hz 220 RAC	Ø13	

CONNETTORI - Connectors

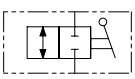
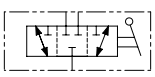
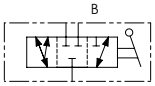
CODICE Model code	TIPO - Type	PAGINA Page
88100002	STANDARD - With rectifier	130
88100003		

ACCIAIO INOSSIDABILE
- Stainless Steel -

VALVOLE UNIDIREZIONALI IN INOX - Stainless steel check valves

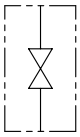
CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	ATTACCHI Ports	PAGINA Page
	XVUR-BSPP	15	400	BSPP 1/4"	**237**
		30		BSPP 3/8"	
		50		BSPP 1/2"	
		90		BSPP 3/4"	
		150	350	BSPP 1"	
		200		BSPP 1-1/4"	
		300		BSPP 1-1/2"	
	XVUR-SAE	30	400	9/16-18 UNF	**238**
		50		3/4-16 UNF	
	XVUR-NPTF	15	400	1/4 NPTF	**239**
		30		3/8 NPTF	
		50		1/2 NPTF	
		90		3/4 NPTF	
		150	350	1 NPTF	
		200		1-1/4 NPTF	
		300		1-1/2 NPTF	
		430		2 NPTF	
	YVUR-BSPP	15	400	BSPP 1/4"	**240**
		30		BSPP 3/8"	
		50		BSPP 1/2"	
		90		BSPP 3/4"	
		150	350	BSPP 1"	
		200		BSPP 1-1/4"	
		300		BSPP 1-1/2"	
	YVUR-SAE	30	400	9/16-18 UNF	**241**
		50		3/4-16 UNF	
	YVUR-NPTF	15	400	1/4 NPTF	**242**
		30		3/8 NPTF	
		50		1/2 NPTF	
		90		3/4 NPTF	
		150	350	1 NPTF	
		200		1-1/4 NPTF	
		300		1-1/2 NPTF	
		430		2 NPTF	

DEVIATORI E VALVOLE A SFERA IN INOX - Stainless steel flow diverters and ball valves

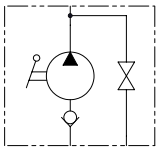
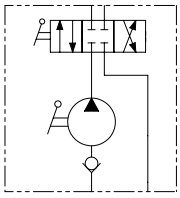
CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	ATTACCHI Ports	PAGINA Page
	XRAS2-BSPP	25	500	BSPP 1/4"	**243**
		35		BSPP 3/8"	
		60		BSPP 1/2"	
		100	400	BSPP 3/4"	
		150	350	BSPP 1"	
 	XRAS3-BSPP	25	400	BSPP 1/4"	**244**
		35		BSPP 3/8"	
		60	350	BSPP 1/2"	
		100		BSPP 3/4"	
		150		BSPP 1"	

Aggiornamento - Update
20V-2020

COMPONENTI VARI IN INOX - Stainless steel hydraulic components

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	PORTATA Flow (l/min)	PRESSIONE Pressure (bar)	ATTACCHI Ports	PAGINA Page
	XSOV	-	400	BSPT 1/4" - BSPP 1/4"	**245**
				BSPT 1/4" - BSPP 1/4"	
	XMNP-BSPP	-	630	BSPP 1/8"	**246**
				BSPP 1/4"	
				BSPP 3/8"	
				BSPP 1/2"	
	XMNP-NPTF	-	630	1/8 NPTF	**247**
				1/4 NPTF	
				3/8 NPTF	
				1/2 NPTF	

POMPE A MANO IN INOX - Stainless steel hand pumps

CIRCUITO IDRAULICO Hydraulic circuit	CODICE Model code	CILINDRATA Displacement (cm^3)	PRESSIONE Pressure (bar)	ATTACCHI CETOP CETOP Ports IN - OUT	PAGINA Page
	XPMS	12	380	Pipe -BSPP 3/8"	**248**
		25	350	Pipe -BSPP 3/8"	
	XPMI	12	380	Pipe -BSPP 3/8"	**249**
		25	350	Pipe -BSPP 3/8"	

SERBATOI IN INOX - Stainless steel reservoirs

CODICE Model code	CAPACITÀ - Capacity (l)	PAGINA Page
XTNK	1	**250**
	3	
	5	

notes

VALVOLE A INSERTO

INSERT VALVES

Valvole a inserto per il controllo della portata, di sicurezza anti rottura tubo e di regolazione della velocità di discesa degli attuatori.

Flow control valves, Hose burst valves, Descent Speed control valves pressure compensated.

Oleoweb
HYDRAULIC VALVES AND COMPONENTS

CODICE ORDINAZIONE / ORDERING CODE

01	02
VUI	

01	VALVOLE UNIDIREZIONALI A SFERA (CHECK VALVES - BALL TYPE)		**VUI**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

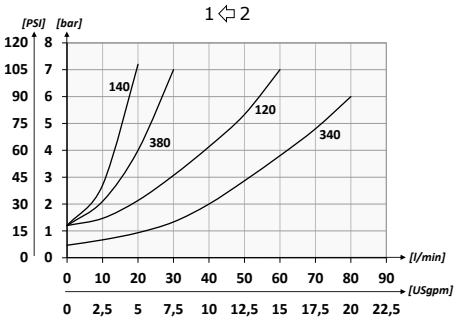
DATI TECNICI / TECHNICAL DATA

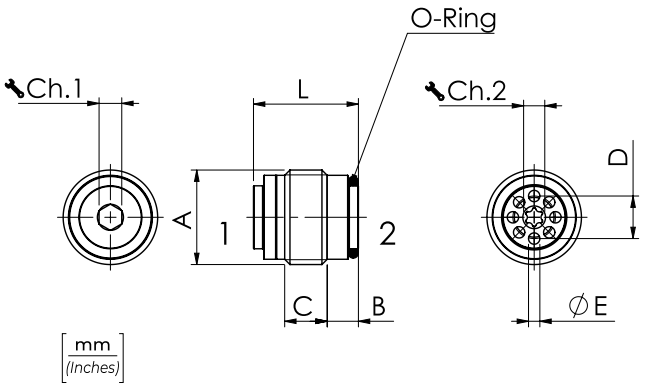
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Ambient temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

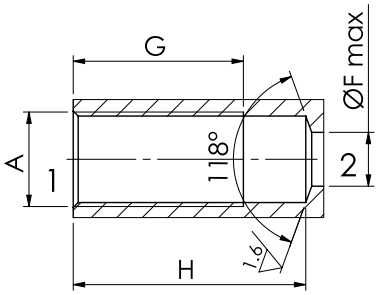
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min
Pressione d'apertura - Cracking pressure	**0,5 bar** - 7.25 PSI

PERFORMANCES





CAVITÀ (CAVITY)



È POSSIBILE INSTALLARE LA VALVOLA IN ENTRAMBI I VERSI

IT'S POSSIBLE TO INSTALL THE VALVE IN BOTH DIRECTIONS

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	CH. 1	CH. 2	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	O-RING	PESO APPROX APPROX WEIGHT kg-lbt
VUI140	**BSPP 1/4**	**20** (5.3)	**350** (5075)	**5,5** (0.22)	**6** (0.24)	**6** (0.24)	**1,3** (0.05)	**7** (0.28)	**28** (1.10)	**31** (1.22)	**17** (0.67)	**3**	**Torx T15**	**4** (35)	9 x 1	**0,01** (0.022)
VUI380	**BSPP 3/8**	**30** (7.9)			**7,5** (0.30)	**7,5** (0.30)	**2** (0.08)	**9** (0.35)	**31** (1.22)	**34** (1.34)	**18,5** (0.73)	**4**	**Torx T15**	**6** (53)	10,82 x 1,78	**0,018** (0.040)
VUI120	**BSPP 1/2**	**50** (13.2)		**7** (0.28)	**8,5** (0.34)	**10** (0.39)	**2,5** (0.10)	**12** (0.47)	**35** (1.38)	**38** (1.50)	**22,5** (0.88)	**6**	**5**	**10** (88)	14 x 1,78	**0,033** (0.073)
VUI340	**BSPP 3/4**	**80** (21.1)		**8** (0.31)	**12,5** (0.49)	**14** (0.55)	**3** (0.12)	**16** (0.63)	**41** (1.61)	**45** (1.77)	**28,5** (1.12)	**8**	**8**	**20** (177)	18,72 x 2,62	**0,07** (0.16)

CODICE ORDINAZIONE
ORDERING CODE

01	02
VUC	

01	VALVOLE UNIDIREZIONALI AD OTTURATORE (CHECK VALVES - POPPET TYPE)		**VUC**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

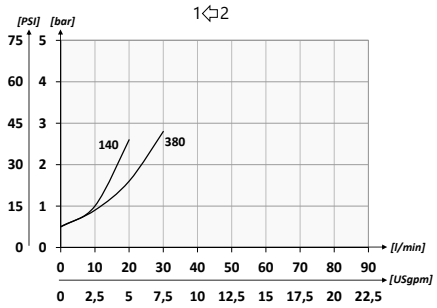
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Ambient temperature	**-20°C +50°C** -4°F + 122°F

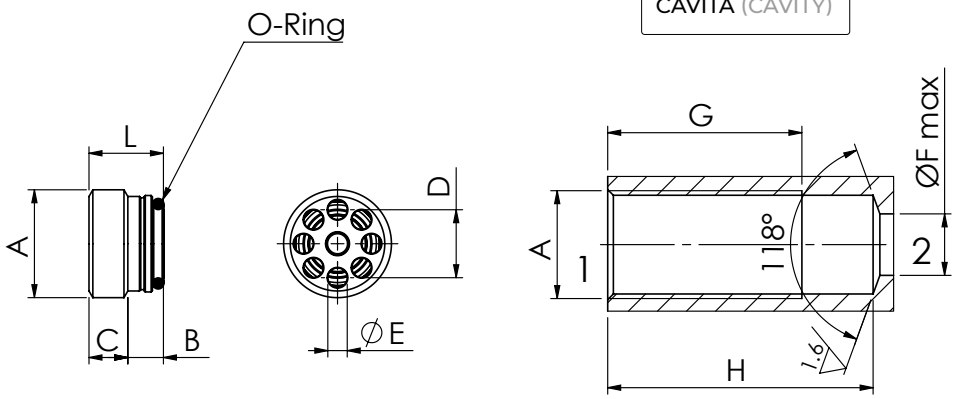
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min
Pressione d'apertura - Cracking pressure	**0,5 bar** - 7.25 PSI

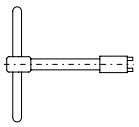
PERFORMANCES



mm (Inches)



CHIAVE
TOOL



DIMENSIONE
(DIMENSIONS)

TIPO CHIAVE TOOL'S TYPE	TIPO TYPE	PESO (kg) WEIGHT (lb)
61700005	**VUC140**	**0,12** (0.27)
61700031	**VUC380**	**0,13** (0.29)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

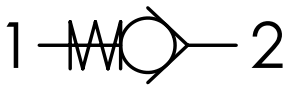
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	O-Ring	PESO APPROX APPROX WEIGHT kg-lbt
VUC140	**BSPP 1/4**	**20** (5.3)	**350** (5075)	**4** (0.16)	**5** (0.20)	**7** (0.28)	**2,2** (0.94)	**7** (0.28)	**22** (0.87)	**24** (0.94)	**9** (0.35)	**6** (53)	**9 x 1**	**0,01** (0.022)
VUC380	**BSPP 3/8**	**30** (7.9)		**5,5** (0.22)	**6** (0.24)	**10,5** (0.41)	**3** (0.12)	**9** (0.35)	**27** (1.06)	**29** (1.14)	**11,5** (0.45)	**6** (53)	**10,82 x 1,78**	

CODICE ORDINAZIONE
ORDERING CODE

01	02
VUP	

01	VALVOLE UNIDIREZIONALI A DISCO (CHECK VALVES - DISK TYPE)		**VUP**
02	DIMENSIONE (SIZE)	BSPP 1/2	**120**
		BSPP 3/4	**340**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



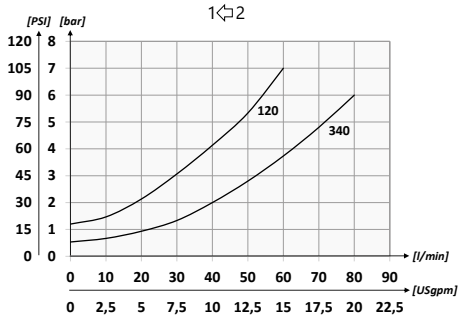
DATI TECNICI / TECHNICAL DATA

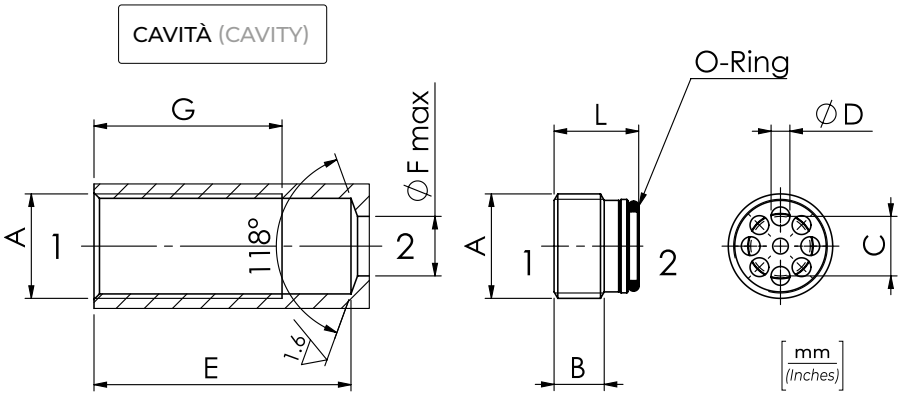
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Ambient temperature	**-20°C +50°C** -4°F + 122°F

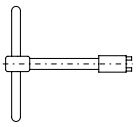
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min
Pressione d'apertura - Cracking pressure	**0,5 bar** - 7.25 PSI

PERFORMANCES







CHIAVE
TOOL

DIMENSIONE (DIMENSIONS)		
TIPO CHIAVE TOOL'S TYPE	**TIPO** TYPE	**PESO (kg)** WEIGHT (lb)
61700003	**VUP120**	**0,15** (0.33)
61700030	**VUP340**	**0,18** (0.40)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

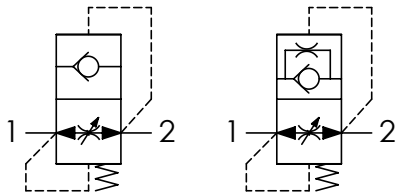
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	L	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	O-Ring	PESO APPROX APPROX WEIGHT kg-lbt
VUP120	**BSPP 1/2**	**60** (15.9)	**350** (5075)	**10** (0.39)	**12** (0.47)	**4** (0.16)	**32** (1.26)	**12** (0.47)	**29** (1.14)	**16,1** (0.63)	**10** (88)	**14 x 1,78**	**0,02** (0.044)
VUP340	**BSPP 3/4**	**80** (21.1)		**10,5** (0.41)	**16** (0.63)	**4,75** (0.19)	**37** (1.46)	**16** (0.63)	**33** (1.30)	**20,2** (0.80)	**20** (177)	**18,72 x 2,62**	**0,043** (1.12)

CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04	05
VUBA				

01	VALVOLE DI SICUREZZA PER TUBAZIONI DIN (DIN HOSE BURST VALVES)		**VUBA**
02	DIMENSIONE (SIZE)	BSPP 3/8	**380**
		BSPP 1/2	**120**
03	DIMENSIONE (SIZE)	**Tubo Ø 10** (For Ø 10 pipe)	**T10**
		Tubo Ø 12 (For Ø 12 pipe)	**T12**
		Tubo Ø 15 (For Ø 15 pipe, only for VUBA120)	**T15**
04	REGOLAZIONE (SETTING)	Esempio: regolazione 0,7 mm (Example: setting 0.7 mm) **F 0,7**	**F__**
		*Omettere se non richiesto (Omit if not required)	
05	FORO SUL PIATTELLO (ORIFICE ON FLAT POPPET)	Esempio: foro 1,5 mm (Example: hole 1,5 mm) **P 1,5**	**P_,_**
		Omettere se non richiesto (Omit if not required)	

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

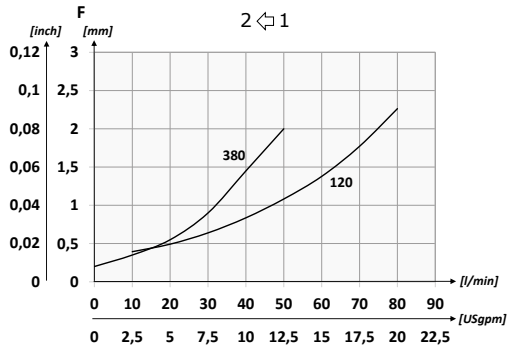


CON FORO
(WITH ORIFICE)

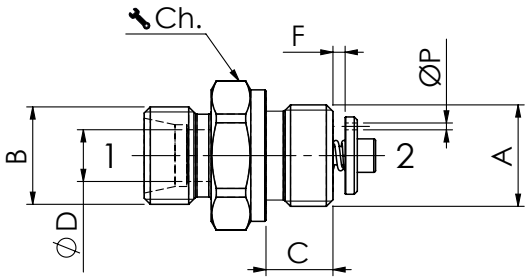
***Se omesso questo valore, le valvole vengono fornite senza alcuna taratura di fabbrica e i dadi non sono serrati. Per garantire il loro corretto funzionamento è necessario che venga eseguito il settaggio da parte dell'installatore finale.**

If omitted this value, the valves are supplied without factory setting and nuts are not thightered. For the correct operating it is needed a calibration of the valve made by final installer.

REGOLAZIONE "F" / SETTING "F"



[mm / (Inches)]



DATI TECNICI / TECHNICAL DATA

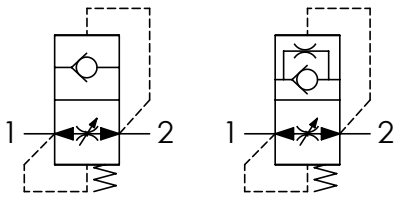
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Ambient temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	Ch.	COPPIA MAX DI SERRAGGIO RACCORDO (Nm) MAX FITTING TIGHTENING TORQUE (lbt in)	COPPIA MAX DI SERRAGGIO TUBO (Nm) MAX TIGHTENING TORQUE FOR HOSE (lbt in)	PESO APPROX APPROX WEIGHT kg-lbt
VUBA380T10	**BSPP 3/8**	**50** (13.2)	**315** (4568)	**M16 x 1,5**	**11** (0.43)	**10** (0.39)	**22**	**45** (33.2)	**20** (15)	**0,044** (0.097)
VUBA380T12				**M18 x 1,5**		**12** (0.47)	**22**		**40** (30)	
VUBA380T15				**M22 x 1,5**		**15** (0.59)	**24**		**70** (50)	**0,060** (0.13)
VUBA120T15	**BSPP 1/2**	**80** (21.1)			**13** (0.51)		**27**	**60** (44.3)		**0,077** (0.17)

VUBA VALVOLE DI SICUREZZA PER TUBAZIONI
HOSE BURST VALVES

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



CON FORO
(WITH ORIFICE)

CODICE ORDINAZIONE
ORDERING CODE

01	02	03	04
VUBA			

01	VALVOLE DI SICUREZZA PER TUBAZIONI (HOSE BURST VALVES)		**VUBA**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
03	REGOLAZIONE (SETTING)	Esempio: regolazione 0,7 mm (Example: setting 0.7 mm) **F 0,7**	**F__**
		Omettere se non richiesto (Omit if not required)	
04	FORO SUL PIATTELLO (ORIFICE ON FLAT POPPET)	Esempio: foro 1,5 mm (Example: hole 1,5 mm) **P 1,5**	**P_,_**
		*Omettere se non richiesto (Omit if not required)	

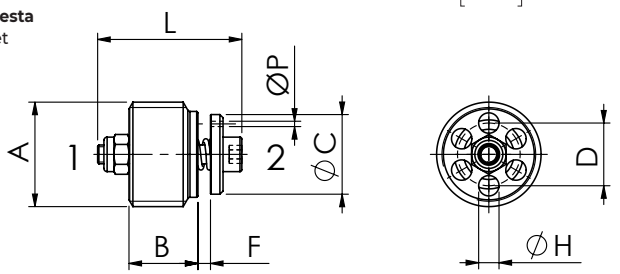
***Se omesso questo valore, le valvole vengono fornite senza alcuna taratura di fabbrica e i dadi non sono serrati. Per garantire il loro corretto funzionamento è necessario che venga eseguito il settaggio da parte dell'installatore finale.**

If omitted this value, the valves are supplied without factory setting and nuts are not thightered. For the correct operating it is needed a calibration of the valve made by final installer.

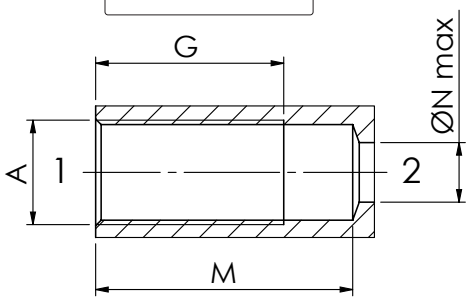
Regolazione F a richiesta
F setting on request

Foro su piattello a richiesta
Orifice on flat poppet on request

mm (Inches)

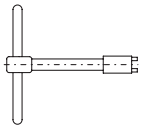


CAVITÀ (CAVITY)



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Ambient temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



CHIAVE
TOOL

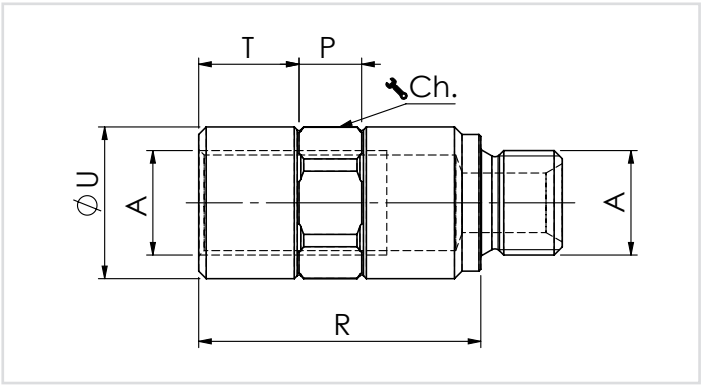
Dimensione/Dimensions

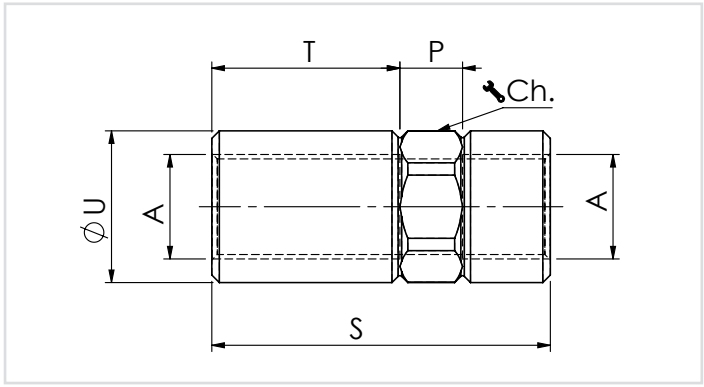
Tipo chiave Tool's Type	**Tipo** Type	**Peso/**Weight kg-lbt
61700001	**VUBA140**	**0,12** (0.27)
61700002	**VUBA380**	**0,13** (0.29)
61700003	**VUBA120**	**0,15** (0.33)
61700004	**VUBA340**	**0,18** (0.40)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	G	H	L	M	N	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	PESO APPROX APPROX WEIGHT kg-lbt
VUBA140	**BSPP 1/4**	**25** (6.6)		**8,2** (0.32)	**10,4** (0.41)	**8** (0.31)	**25** (0.98)	**2,5** (0.10)	**19** (0.75)	**35** (1.38)	**7** (0.28)	**2** (1.5)	**0,008** (0.017)
VUBA380	**BSPP 3/8**	**50** (13.2)		**11** (0.43)	**12,7** (0.50)	**10** (0.39)	**30** (1.18)	**3,25** (0.13)	**23** (0.90)	**41** (1.61)	**9,5** (0.37)	**3** (2.5)	**0,014** (0.030)
VUBA120	**BSPP 1/2**	**80** (21.1)	**350** (5075)	**13** (0.51)	**15** (0.59)	**11,5** (0.45)	**33** (1.30)	**4** (0.16)	**29** (1.14)	**46** (1.81)	**12** (0.47)	**4** (3)	**0,025** (0.055)
VUBA340	**BSPP 3/4**	**150** (39.6)		**18** (0.71)	**18** (0.71)	**14,5** (0.57)	**42** (1.65)	**5,2** (0.20)	**34** (1.34)	**55** (2.17)	**16** (0.63)	**10** (7.5)	**0,054** (0.12)
VUBA100	**BSPP 1**	**180** (47.5)		**20** (0.79)	**26** (1.02)	**19** (0.75)	**48** (1.89)	**7** (0.28)	**40** (1.57)	**63** (2.48)	**22** (0.87)	**12** (9)	**0,1** (0.22)

Aggiornamento - Update
20V-2020





COLONNETTE - HOUSINGS M/F

TIPO TYPE	A	R	P	T	U	Ch.	PESO APPROX APPROX WEIGHT kg-lbt
61100087	BSPP 1/4	39 (1.53)	10 (0.39)	13 (0.51)	20.5 (0.80)	19	0.07 (0.16)
61100088	BSPP 3/8	45 (1.77)	10 (0.39)	16 (0.63)	24.5 (0.96)	22	0.10 (0.22)
61100089	BSPP 1/2	52 (2.05)	10 (0.39)	19 (0.75)	29.5 (1.16)	27	0.17 (0.37)
61100090	BSPP 3/4	61 (2.40)	12 (0.47)	23 (0.90)	35.5 (1.32)	32	0.26 (0.57)
61100091	BSPP 1	67 (2.63)	15 (0.59)	25.5 (1)	44.5 (1.75)	41	0.4 (0.88)

COLONNETTE - HOUSINGS F/F

TIPO TYPE	A	S	P	T	U	Ch.	PESO APPROX APPROX WEIGHT kg-lbt
61100092	BSPP 1/4	48 (1.89)	10 (0.39)	13 (0.51)	20.5 (0.80)	19	0.09 (0.20)
61100093	BSPP 3/8	54 (2.13)	10 (0.39)	30 (1.18)	24,2 (0.95)	22	0.11 (0.24)
61100094	BSPP 1/2	73 (2.87)	10 (0.39)	46.5 (1.83)	29.2 (1.14)	27	0.20 (0.44)
61100095	BSPP 3/4	74 (2.91)	12 (0.47)	44 (1.73)	35.5 (1.32)	32	0.27 (0.59)

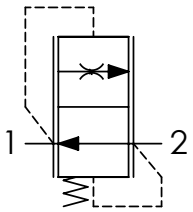
TARATURA SETTING mm	Portata (l/min) - Flow rate (Usgpm) Tolleranza ± 10% - Tolerance ± 10%				
	VUBA140	VUBA380	VUBA120	VUBA340	VUBA100
0	0	0	0	0	0
0,1	3,0 (0,8)	3,0 (0,8)	4,0 (1,1)	9,0 (2,4)	3,5 (0,9)
0,2	6,0 (1,6)	6,0 (1,6)	8,0 (2,1)	18,0 (4,8)	7,0 (1,8)
0,3	9,3 (2,5)	10,0 (2,6)	12,7 (3,3)	25,3 (6,7)	12,0 (3,2)
0,4	12,7 (3,3)	14,0 (3,7)	17,3 (4,6)	32,7 (8,6)	17,0 (4,5)
0,5	16,0 (4,2)	18,0 (4,8)	22,0 (5,8)	40,0 (10,6)	22,0 (5,8)
0,6	17,0 (4,5)	20,5 (5,4)	26,5 (7,0)	48,5 (12,8)	27,5 (7,3)
0,7	18,0 (4,8)	23,0 (6,1)	31,0 (8,2)	57,0 (15,0)	33,0 (8,7)
0,8	19,2 (5,1)	25,0 (6,6)	34,0 (9,0)	61,7 (16,3)	39,0 (10,3)
0,9	20,3 (5,4)	27,0 (7,1)	37,0 (9,8)	66,3 (17,5)	45,0 (11,9)
1	21,5 (5,7)	29,0 (7,7)	40,0 (10,6)	71,0 (18,7)	51,0 (13,5)
1,1	22,3 (5,9)	30,0 (7,9)	42,5 (11,2)	77,0 (20,3)	53,5 (14,1)
1,2	23,0 (6,1)	31,0 (8,2)	45,0 (11,9)	83,0 (21,9)	56,0 (14,8)
1,3	23,7 (6,2)	32,3 (8,5)	47,7 (12,6)	88,7 (23,4)	60,7 (16,0)
1,4	24,3 (6,4)	33,7 (8,9)	50,3 (13,3)	94,3 (24,9)	65,3 (17,2)
1,5	25,0 (6,6)	35,0 (9,2)	53,0 (14,0)	100,0 (26,4)	70,0 (18,5)
1,6	25,4 (6,7)	36,4 (9,6)	55,8 (14,7)	106,0 (28,0)	72,4 (19,1)
1,7	26,0 (6,9)	37,0 (9,8)	58,6 (15,5)	111,0 (29,3)	74,8 (19,7)
1,8	26,3 (7,0)	38,7 (10,2)	61,4 (16,2)	116,0 (30,6)	77,2 (20,4)
1,9	26,7 (7,0)	40,3 (10,6)	64,2 (16,9)	120,0 (31,7)	79,6 (21,0)
2	27,0 (7,1)	42,0 (11,1)	67,0 (17,7)	124,0 (32,7)	82,0 (21,6)

CODICE ORDINAZIONE / ORDERING CODE

01	02	03
VCC140		

01	VALVOLE CONTROLLO DISCESA FISSE COMPENSATE (FIXED FLOW CONTROL VALVES - PRESSURE COMPENSATED)		**VCC140**
02	VERSIONE (VERSION)	**L = 26,5** (1.02)	
		L = 23 (0.90)	**C**
03	PORTATA CONTROLLATA A 100 BAR ± 10% (CONTROLLED FLOW AT 100 BAR ± 10 %)	**1 l/min** (0.26 USgpm)	**1**
		2 l/min (0.53 USgpm)	**2**
		3 l/min (0.79 USgpm)	**3**
		4 l/min (1.06 USgpm)	**4**
		5 l/min (1.32 USgpm)	**5**
		6 l/min (1.58 USgpm)	**6**
		7 l/min (1.85 USgpm)	**7**
		8 l/min (2.11 USgpm)	**8**
		9 l/min (2.38 USgpm)	**9**
		10 l/min (2.64 USgpm)	**10**
		11 l/min (2.90 USgpm)	**11**
		12 l/min (3.17 USgpm)	**12**
		15 l/min (3.96 USgpm)	**15**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



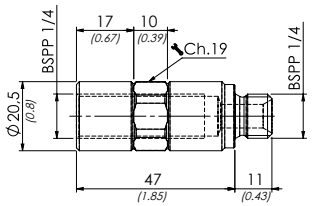
TIPO TYPE	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	PESO APPROX APPROX WEIGHT kg-lbt
VCC140	**15** (3.96)	**250** (3625)	**4** (3)	**0,014** (0.031)

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Ambient temperature	**-20°C +50°C**	-4°F + 122°F

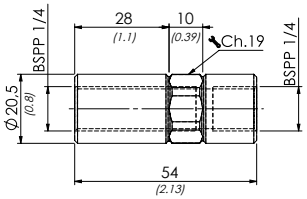
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

TIPO / TYPE
61100160

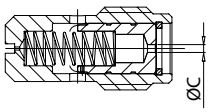


Peso Approx (Approx weight)
0,09 kg (0.20 lb)

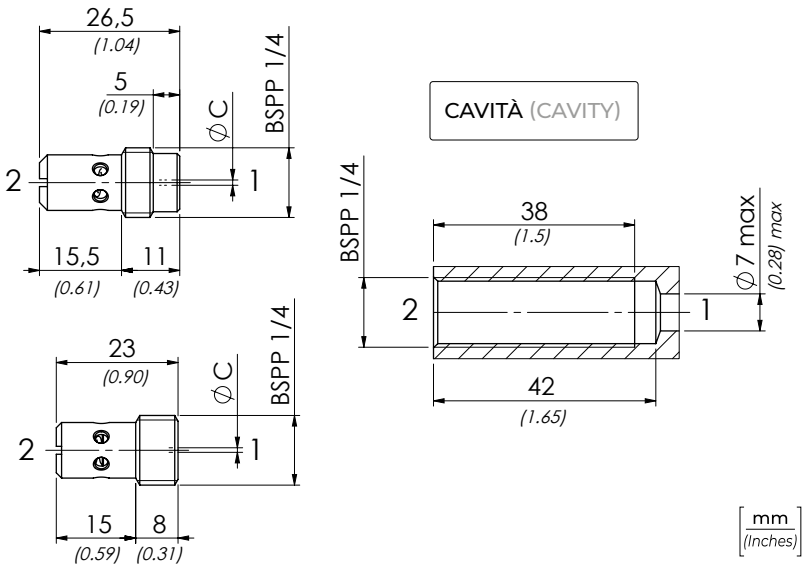
TIPO / TYPE
61100159



Peso Approx (Approx weight)
0,09 kg (0.20 lb)



TIPO (TYPE)	Ø C
VCC1401	**1** (0.04)
VCC1402	**1,2** (0.05)
VCC1403	**1,5** (0.06)
VCC1404	**1,7** (0.07)
VCC1405	**1,9** (0.07)
VCC1406	**2,1** (0.08)
VCC1407	**2,3** (0.09)
VCC1408	**2,4** (0.09)
VCC1409	**2,7** (0.11)
VCC14010	**2,8** (0.11)
VCC14011	**3,1** (0.12)
VCC14012	**3,3** (0.13)
VCC14015	**5** (0.20)



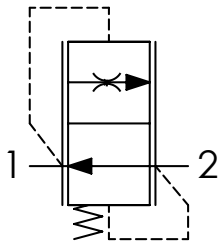
Aggiornamento - Update 20V-2020

CODICE ORDINAZIONE / ORDERING CODE

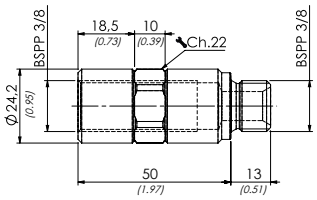
01	02
VCC380	

01				VCC380
	VALVOLE CONTROLLO DISCESA FISSE COMPENSATE (FIXED FLOW CONTROL VALVES - PRESSURE COMPENSATED)			
02	PORTATA CONTROLLATA A 100 BAR ± 10% (CONTROLLED FLOW AT 100 BAR ± 10 %)	**1 l/min**	(0.26 USgpm)	**1**
		2 l/min	(0.53 USgpm)	**2**
		3 l/min	(0.79 USgpm)	**3**
		4 l/min	(1.06 USgpm)	**4**
		5 l/min	(1.32 USgpm)	**5**
		6 l/min	(1.58 USgpm)	**6**
		7 l/min	(1.89 USgpm)	**7**
		8 l/min	(2.11 USgpm)	**8**
		9 l/min	(2.38 USgpm)	**9**
		10 l/min	(2.64 USgpm)	**10**
		11 l/min	(2.90 USgpm)	**11**
		12 l/min	(3.17 USgpm)	**12**
		16 l/min	(4.22 USgpm)	**16**
		18 l/min	(4.75 USgpm)	**18**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

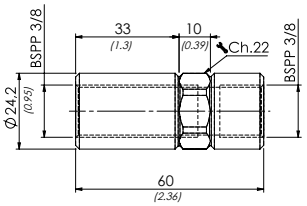


TIPO / TYPE
61100162



Peso Approx (Approx weight)
0,12 kg (0.26 lb)

TIPO / TYPE
61100161



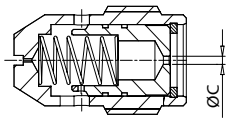
Peso Approx (Approx weight)
0,12 kg (0.26 lb)

DATI TECNICI / TECHNICAL DATA

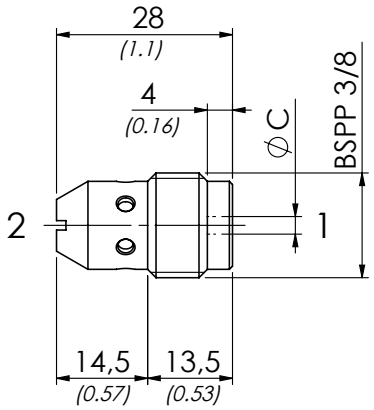
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Ambient temperature	**-20°C +50°C**	-4°F + 122°F

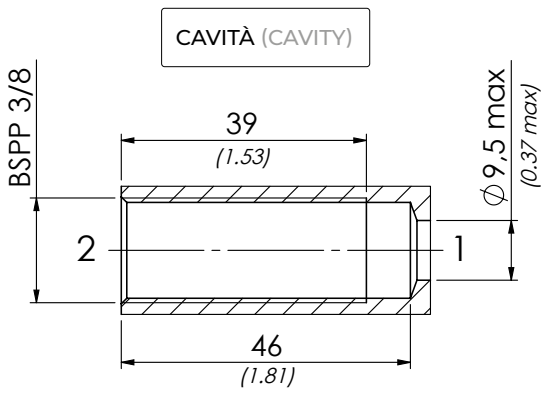
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

TIPO TYPE	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	PESO APPROX APPROX WEIGHT kg-lbt
VCC380	**18** (4.8)	**250** (3625)	**6** (4.5)	**0,024** (0.053)



TIPO (TYPE)	Ø C
VCC3801	**0,6** (0.02)
VCC3802	**1,4** (0.06)
VCC3803	**1,7** (0.07)
VCC3804	**2** (0.08)
VCC3805	**2,3** (0.09)
VCC3806	**2,6** (0.10)
VCC3807	**2,8** (0.11)
VCC3808	**3,1** (0.12)
VCC3809	**3,3** (0.13)
VCC38010	**3,5** (0.14)
VCC38011	**3,7** (0.15)
VCC38012	**4** (0.16)
VCC38016	**5** (0.12)
VCC38018	**5,5** (0.22)





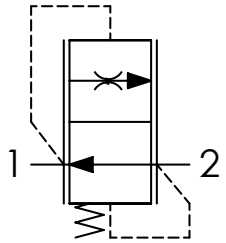
mm
(Inches)

CODICE ORDINAZIONE / ORDERING CODE

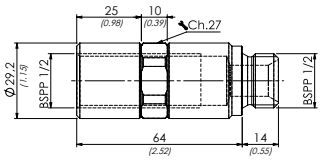
01	02
VSC120	

01	VALVOLE CONTROLLO DISCESA FISSE COMPENSATE (FIXED FLOW CONTROL VALVES - PRESSURE COMPENSATED)			VSC120
02	PORTATA CONTROLLATA A 100 BAR ± 10% (CONTROLLED FLOW AT 100 BAR ± 10 %)	9 l/min	(2.38 USgpm)	9
		12 l/min	(3.17 USgpm)	12
		15 l/min	(3.96 USgpm)	15
		17 l/min	(4.49 USgpm)	17
		21 l/min	(5.54 USgpm)	21
		25 l/min	(6.60 USgpm)	25
		27 l/min	(7.1 USgpm)	27
		32 l/min	(8.45 USgpm)	32
		35 l/min	(9.24 USgpm)	35
		40 l/min	(10.56 USgpm)	40
		47 l/min	(12.4 USgpm)	47

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

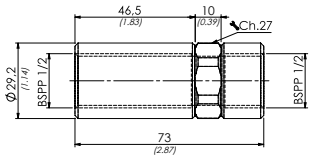


TIPO / TYPE
61100033



Peso Approx (Approx weight)
0,21 kg (0.46 lb)

TIPO / TYPE
61100094



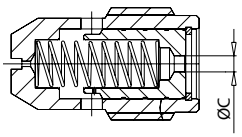
Peso Approx (Approx weight)
0,21 kg (0.46 lb)

DATI TECNICI / TECHNICAL DATA

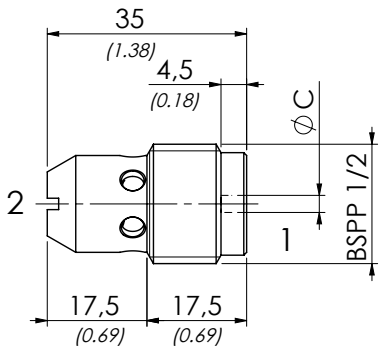
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Ambient temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

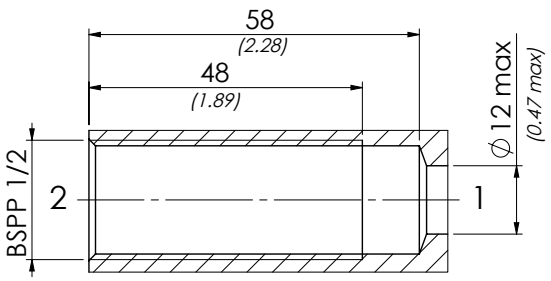
TIPO TYPE	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	PESO APPROX APPROX WEIGHT kg-lbt
VCC120	**47** (12.4)	**250** (3625)	**10** (7.5)	**0,050** (0.11)



TIPO (TYPE)	Ø C
VSC1209	**2** (0.08)
VSC12012	**2,5** (0.10)
VSC12015	**3** (0.12)
VSC12017	**3,2** (0.13)
VSC12021	**3,5** (0.14)
VSC12025	**4** (0.16)
VSC12027	**4,2** (0.17)
VSC12032	**4,5** (0.18)
VSC12035	**5** (0.20)
VSC12040	**5,5** (0.22)
VSC12047	**6** (0.24)

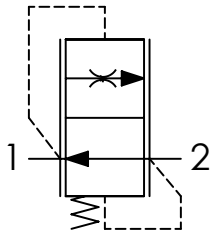


CAVITÀ (CAVITY)



mm
(Inches)

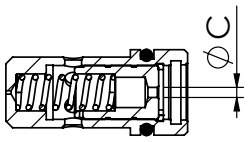
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Ambient temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

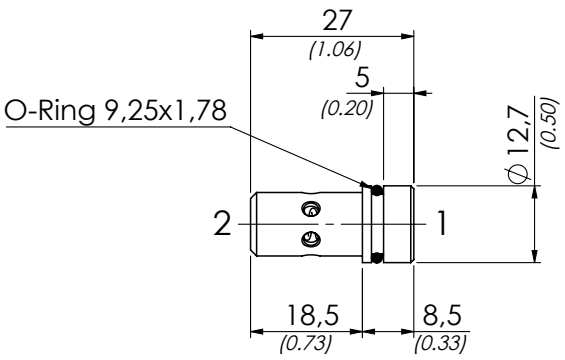


TIPO (TYPE)	Ø C
VSCR61	1 (0.04)
VSCR62	1,2 (0.05)
VSCR63	1,5 (0.06)
VSCR64	1,7 (0.07)
VSCR65	1,9 (0.07)
VSCR66	2,1 (0.08)
VSCR67	2,3 (0.09)
VSCR68	2,4 (0.09)
VSCR69	2,7 (0.11)
VSCR610	2,8 (0.11)
VSCR611	3,1 (0.12)
VSCR612	3,3 (0.13)

CODICE ORDINAZIONE / ORDERING CODE

01	02
VSCR6	

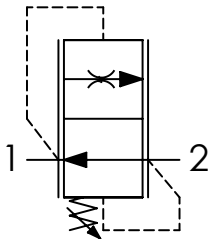
01	VALVOLE CONTROLLO DISCESA FISSE COMPENSATE (FIXED FLOW CONTROL VALVES - PRESSURE COMPENSATED)			VSCR6
02	PORTATA CONTROLLATA A 100 BAR ± 10% (CONTROLLED FLOW AT 100 BAR ± 10 %)	1 l/min	(0.26 USgpm)	1
		2 l/min	(0.53 USgpm)	2
		3 l/min	(0.79 USgpm)	3
		4 l/min	(1.06 USgpm)	4
		5 l/min	(1.32 USgpm)	5
		6 l/min	(1.58 USgpm)	6
		7 l/min	(1.85 USgpm)	7
		8 l/min	(2.11 USgpm)	8
		9 l/min	(2.38 USgpm)	9
		10 l/min	(2.64 USgpm)	10
		11 l/min	(2.90 USgpm)	11
		12 l/min	(3.17 USgpm)	12



[mm / (Inches)]

TIPO TYPE	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
VSCR6	12 (3.20)	250 (3625)	0,012 (0.026)

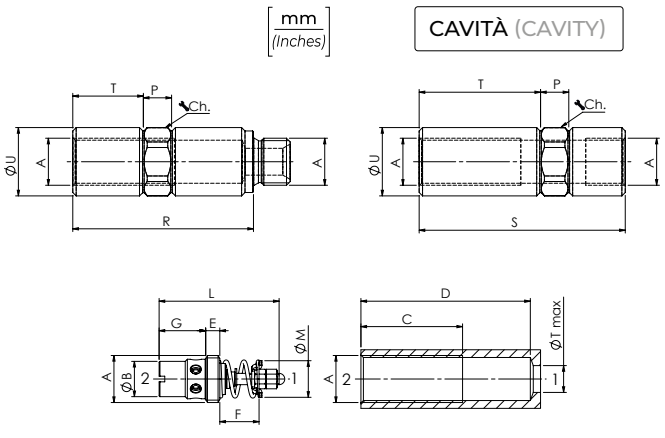
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Ambient temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



CODICE ORDINAZIONE / ORDERING CODE

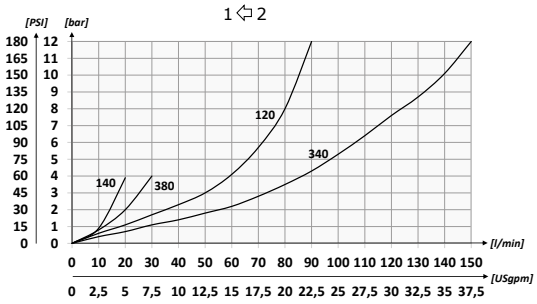
01	02	03	04
VRD			

01	VALVOLE CONTROLLO DISCESA REGOLABILI COMPENSATE (ADJUSTABLE FLOW CONTROL VALVES - PRESSURE COMPENSATED)							**VRD**
02	DIMENSIONE (SIZE)	BSPP 1/4						**140**
		BSPP 3/8						**380**
		BSPP 1/2						**120**
		BSPP 3/4						**340**
03	FLUSSO CONTROLLATO A 50 BAR (CONTROLLED FLOW AT 50 BAR)	**A**	**B**	**C**	**D**	**E**	**F**	
		l/min-USgpm						
		1,4/4,2 (0,37/1,11)	**2,4/7,8** (0,63/2,06)	**3,8/9** (1/2,38)	**6/13,4** (1,58/3,54)	**8,6/17,5** (2,27/4,62)	**12,2/24** (3,22/6,34)	**VRD140**
		1,7/3,7 (0,45/0,98)	**3/5,5** (0,79/1,45)	**5/10,5** (1,32/2,77)	**10/18** (2,64/4,75)	**16,5/25,4** (4,36/6,71)	**19,5/33** (5,15/8,71)	**VRD380**
		15,5/23,8 (4,09/6,28)	**19,7/32,5** (5,20/8,58)	**22,8/38,4** (6,02/10,14)	**32/51,4** (8,45/13,57)	**40,5/71,6** (10,69/18,9)	-	**VRD120**
		39,8/57,1 (10,51/15,07)	**45,2/68,2** (11,93/18)	**63,2/83,3** (16,68/21,99)	**67/107** (17,69/28,25)	**105/151** (27,72/39,86)	-	**VRD340**
04	REGOLAZIONE (SETTING)	ESEMPIO: REGOLAZIONE 15 MM (EXAMPLE: SETTING 15 MM) **F 15** **(TOLLERANZA IN PORTATA ± 10%)** (TOLERANCE OF SETTING FLOW RATE ± 10%)						**F__**
		*OMESSO SE NON RICHIESTO (OMITTED IF NOT REQUIRED)						

***Se omesso questo valore, le valvole vengono fornite senza alcuna taratura di fabbrica e i dadi non sono serrati. Per garantire il loro corretto funzionamento è necessario che venga eseguito il settaggio da parte dell'installatore finale.**

If omitted this value, the valves are supplied without factory setting and nuts are not thightered. For the correct operating it is needed a calibration of the valve made by final installer.

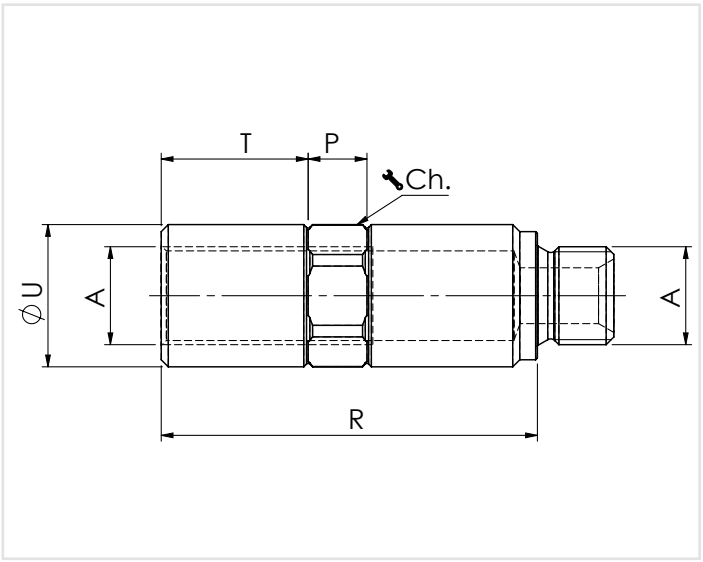
PERFORMANCES

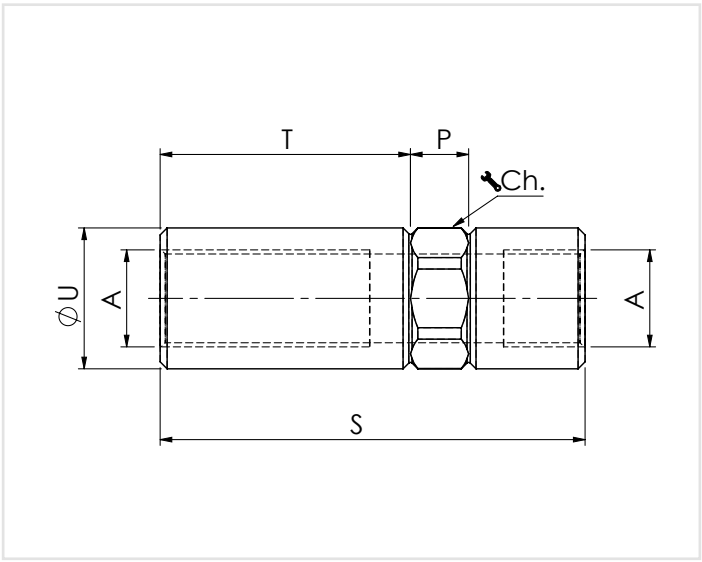


CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	T	G	L	M	R	S	PESO APPROX APPROX WEIGHT kg-lbt	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft
VRD140	**BSPP 1/4**	**20** (5.3)	**300** (4350)	**10** (0.39)	**33** (1.30)	**53** (2.09)	**6** (0.24)	**7** (0.28)	**13,5** (0.53)	**39** (1.54)	**10** (0.39)	**57** (2.24)	**66** (2.60)	**0,013** (0.029)	**6** (4.5)
VRD380	**BSPP 3/8**	**35** (9.2)		**12,5** (0.49)	**36** (1.42)	**60** (2.63)	**5** (0.20)	**9.5** (0.37)	**15,5** (0.61)	**45** (1.77)	**14** (0.55)	**64** (2.52)	**73** (2.87)	**0,024** (0.053)	**8** (6)
VRD120	**BSPP 1/2**	**65** (17.2)		**16** (0.63)	**39** (1.54)	**63** (2.48)	**7** (0.28)	**12** (0.47)	**16** (0.63)	**51** (2.01)	**18** (0.71)	**69** (2.72)	**81** (3.19)	**0,037** (0.082)	**12** (9)
VRD340	**BSPP 3/4**	**150** (39.6)		**20** (0.79)	**50** (1.97)	**81** (3.19)	**10** (0.39)	**16** (0.63)	**21** (0.83)	**62** (2.44)	**23** (0.91)	**87** (3.43)	**99** (3.90)	**0,079** (0.18)	**15** (11.25)

Aggiornamento - Update 20V-2020





COLONNETTE - HOUSING M/F

TIPO TYPE	A	R	P	T	U	Ch.	PESO APPROX APPROX WEIGHT kg-lbt
61100057	BSPP 1/4	57 (2.24)	10 (0.39)	22 (087)	20.5 (0.81)	19	0.11 (0.16)
61100058	BSPP 3/8	64 (2.52)	10 (0.39)	25 (0.98)	24.5 (0.96)	22	0.14 (0.20)
61100059	BSPP 1/2	69 (2.71)	10 (0.39)	28 (1.10)	29.5 (1.16)	27	0.24 (0.30)
61100060	BSPP 3/4	87 (3.42)	12 (0.47)	36 (1.42)	35.5 (1.40)	32	0.34 (0.48)

COLONNETTE - HOUSING F/F

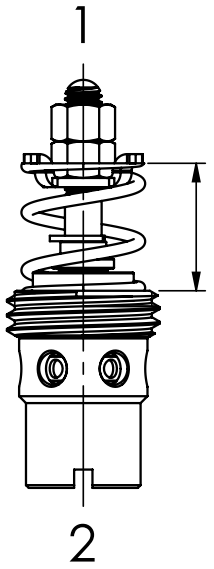
TIPO TYPE	A	S	P	T	U	Ch.	PESO APPROX APPROX WEIGHT kg-lbt
61100051	BSPP 1/4	66 (2.60)	10 (0.39)	38 (1.50)	20.5 (0.81)	19	0.11 (0.16)
61100052	BSPP 3/8	73 (2.87)	10 (0.39)	43 (1.69)	24.5 (0.96)	22	0.12 (0.20)
61100053	BSPP 1/2	81 (3.19)	10 (0.39)	50.5 (1.99)	29.5 (1.16)	27	0.20 (0.33)
61100054	BSPP 3/4	99 (3.90)	12 (0.47)	57 (2.24)	35.5 (1.40)	32	0.29 (0.50)

TARATURA SETTING mm	F__	VRD140 Portata (l/min) - Flow rate (Usgpm)					
		A	B	C	D	E	F
10		1,4 (0,37)	2,4 (0,63)	3,8 (1,00)	6 (1,58)	8,6 (2,27)	12,2 (3,22)
9		1,9 (0,50)	3,1 (0,82)	4,7 (1,24)	7,6 (2,01)	10,3 (2,72)	15,4 (4,07)
8		2,1 (0,55)	3,8 (1,00)	5,6 (1,48)	8,9 (2,35)	12 (3,17)	18,6 (4,91)
7		3,3 (0,87)	5,9 (1,56)	7,2 (1,90)	10,6 (2,80)	13,1 (3,46)	18,8 (4,96)
6		4,2 (1,11)	7,8 (2,06)	9 (2,38)	13,4 (3,54)	17,5 (4,62)	24 (6,34)

TARATURA SETTING mm	F__	VRD380 Portata (l/min) - Flow rate (Usgpm)					
		A	B	C	D	E	F
15		1,7 (0,45)	3 (0,79)	5 (1,32)	10 (2,64)	16,5 (4,36)	19,5 (5,15)
14		2,3 (0,61)	3,8 (1,00)	6,2 (1,64)	13 (3,43)	20 (5,28)	23,4 (6,18)
13		2,6 (0,69)	4,7 (1,24)	8,2 (2,16)	15,6 (4,12)	22 (5,81)	26,9 (7,10)
12		3 (0,79)	5,2 (1,37)	9,4 (2,48)	16,6 (4,38)	23,5 (6,20)	29,8 (7,87)
11		3,7 (0,98)	5,5 (1,45)	10,5 (2,77)	18 (4,75)	25,4 (6,71)	33 (8,71)

TARATURA SETTING mm	F__	VRD120 Portata (l/min) - Flow rate (Usgpm)				
		A	B	C	D	E
20		15,5 (4,09)	19,7 (5,20)	22,8 (6,02)	32 (8,45)	40,5 (10,69)
19		17 (4,49)	21,7 (5,73)	25,8 (6,81)	35,4 (9,35)	44,3 (11,70)
18		18 (4,75)	24,3 (6,42)	28 (7,39)	38,7 (10,22)	49,3 (13,02)
17		19,4 (5,12)	26,2 (6,92)	31,2 (8,24)	41,8 (11,04)	54,8 (14,47)
16		20,4 (5,39)	28,1 (7,42)	33,5 (8,84)	44 (11,62)	59,2 (15,63)
15		21,6 (5,70)	29,2 (7,71)	34,2 (9,03)	46,2 (12,20)	62,9 (16,61)
14		22,6 (5,97)	31 (8,18)	36,1 (9,53)	49,2 (12,99)	67,7 (17,87)
13		23,8 (6,28)	32,5 (8,58)	38,4 (10,14)	51,4 (13,57)	71,6 (18,90)

TARATURA SETTING mm	F__	VRD340 Portata (l/min) - Flow rate (Usgpm)				
		A	B	C	D	E
23		39,8 (10,51)	45,2 (11,93)	63,2 (16,68)	67 (17,69)	105 (27,72)
22		42,1 (11,11)	48 (12,67)	65,7 (17,34)	69,7 (18,40)	112,5 ((29,70)
21		45,1 (11,91)	51,8 (13,68)	68 (17,95)	76,6 (20,22)	119 (31,42)
20		47 (12,41)	54,9 (14,49)	70,7 (18,66)	81,9 (21,62)	126,2 (33,32)
19		50,2 (13,25)	58,1 (15,34)	73,4 (19,38)	90,1 (23,79)	133,7 (35,30)
18		51,8 (13,68)	62,3 (16,45)	77,1 (20,35)	95 (25,08)	140,2 (37,01)
17		54,5 (14,39)	64,8 (17,11)	80,2 (21,17)	101 (26,66)	145,4 (38,39)
16		57,1 (15,07)	68,2 (18,00)	83,3 (21,99)	107 (28,25)	151 (39,86)



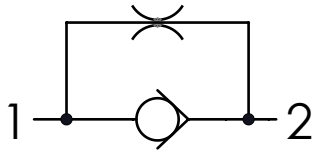
Taratura (mm)
Setting (mm)

CODICE ORDINAZIONE / ORDERING CODE

01	02	03
VS	**380**	

01	VALVOLE UNIDIREZIONALI CON TRAFILAMENTO (CHECK VALVES WITH LEAKAGE)		**VS**
02	DIMENSIONE (SIZE)	BSPP 3/8	**380**
03	TAGLI (GAPS)	2 tagli (2 gaps)	**2T**
		4 tagli (4 gaps)	**4T**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

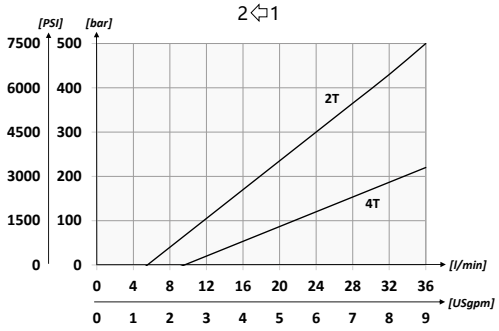


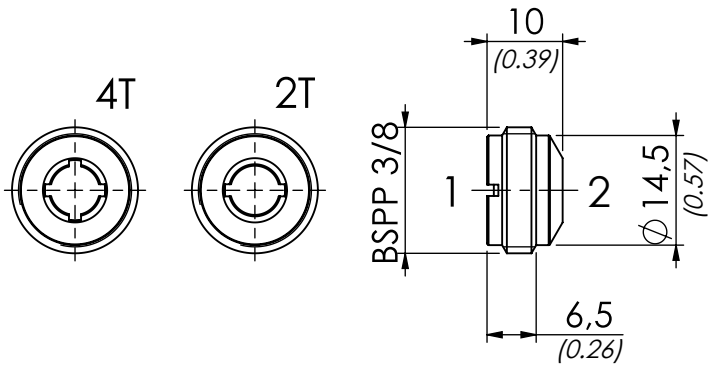
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

PERFORMANCES





[mm / (Inches)]

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	PESO APPROX APPROX WEIGHT kg-lbt
VS380	**35** (9.2)	**500** (7250)	**6** (4.5)	**0,01** (0.022)

Aggiornamento - Update 20V-2020

notes

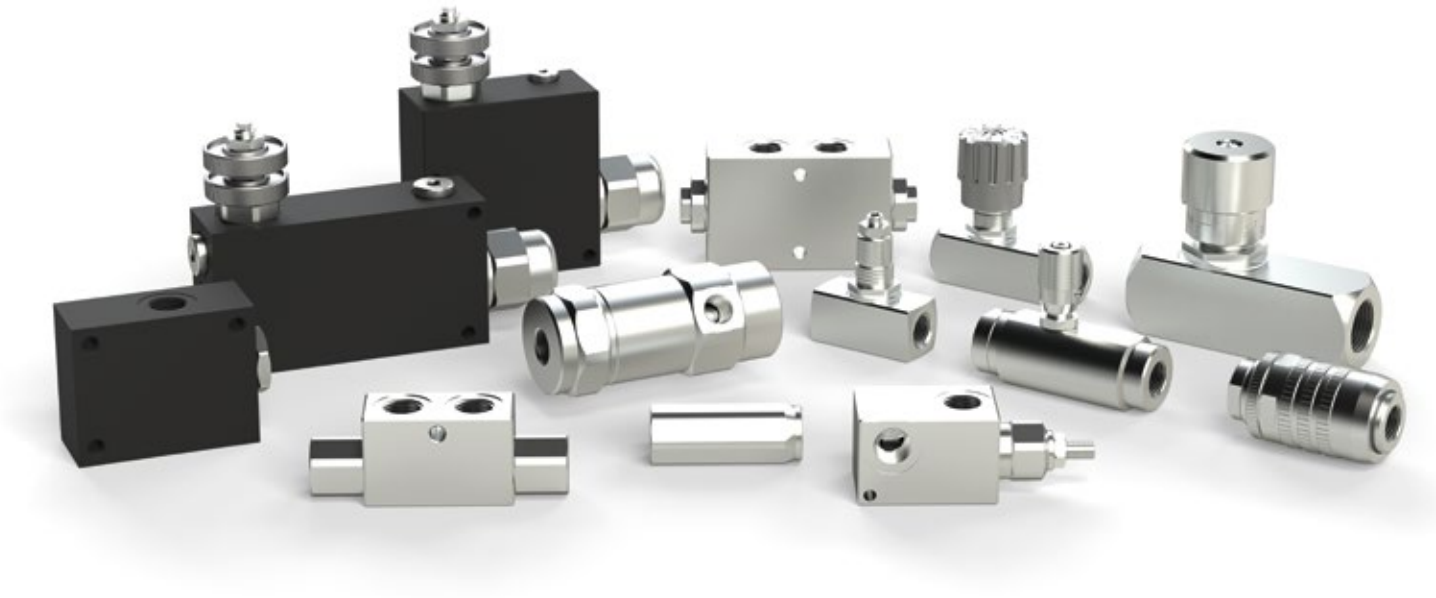
notes

VALVOLE IN LINEA

IN-LINE VALVES

Le famiglia delle valvole in linea comprende: valvole di regolazione della portata unidirezionali, bidirezionali, valvole per il controllo di portata compensate, valvole divisori/riunificatori di flusso, valvole finecorsa, valvole di blocco singole e doppie, valvole antiurto doppie, valvole limitatrici di pressione per montaggio in linea e valvole di sequenza.

Unidirectional flow control valves, bidirectional flow control valves, flow control valves pressure compensated, flow dividers, end-stroke valves, single or double acting pilot check valves, double cross direct acting relief valves, direct acting relief valves and sequence valves.



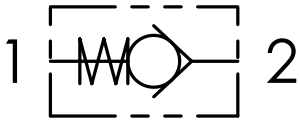
Oleoweb
HYDRAULIC VALVES AND COMPONENTS

CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
VUR			

01	VALVOLE UNIDIREZIONALI A COLONNETTA F/F (F/F CHECK HOUSING VALVES)		**VUR**
02	DIMENSIONE (SIZE)	BSPP 1/8	**180**
		BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
		BSPP 1-1/4	**114**
		BSPP 1-1/2	**112**
		BSPP 2	**200**
03	TENUTA (SEALING)	Tenuta a sfera solo per **VUR180/140/380/120 e molla 1 bar** (Ball sealing only for VUR180/140/380/120 and spring 1 bar)	**SF**
		Tenuta a cono (Poppet sealing)	**SP**
04	MOLLA (SPRING)	**1 bar** Standard (14.5 PSI)	**1**
		3 bar (43.5 PSI)	**3**
		4,5 bar (65.25 PSI)	**4,5**
		6 bar (87 PSI)	**6**
		10 bar (145 PSI) — **Solo versione 120** (Only 120 version)	**10**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

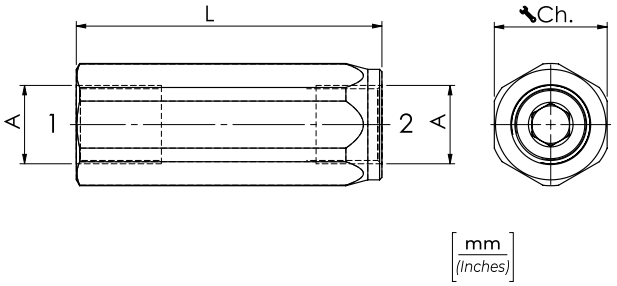


DATI TECNICI / TECHNICAL DATA

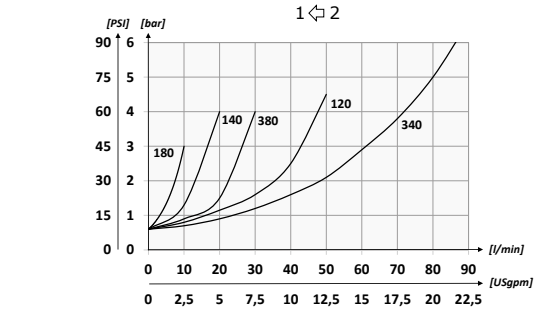
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

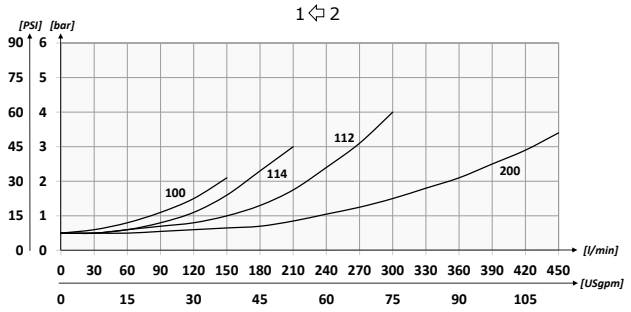
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



PERFORMANCES

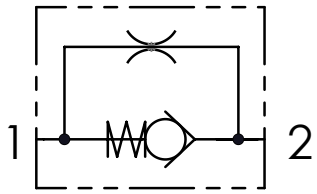




CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	L	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
VUR180	**BSPP 1/8**	**5** (1.3)	**400** (5800)	**47** (1.85)	**14**	**0,05** (0.11)
VUR140	**BSPP 1/4**	**15** (4.0)		**55** (2.17)	**19**	**0,10** (0.22)
VUR380	**BSPP 3/8**	**30** (7.9)		**65** (2.56)	**24**	**0,18** (0.40)
VUR120	**BSPP 1/2**	**50** (13.2)		**75** (2.95)	**27**	**0,23** (0.50)
VUR340	**BSPP 3/4**	**90** (23.8)		**86,5** (3.41)	**35**	**0,45** (1)
VUR100	**BSPP 1**	**150** (39.6)	**350** (5075)	**110** (4.33)	**41**	**0,73** (1.6)
VUR114	**BSPP 1-1/4**	**200** (52.8)		**123** (4.84)	**54**	**1,5** (3.3)
VUR112	**BSPP 1-1/2**	**300** (79.2)		**138** (5.43)	**59**	**1,85** (4.07)
VUR200	**BSPP 2**	**430** (113.5)	**250** (3625)	**145** (5.71)	**69**	**2,7** (6)

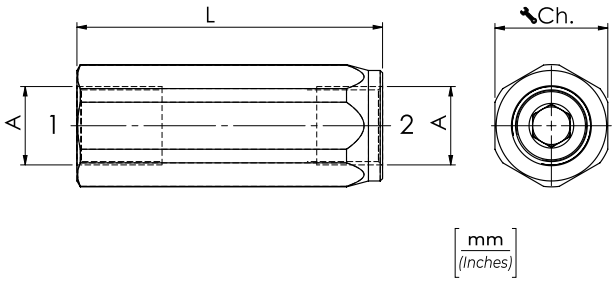
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

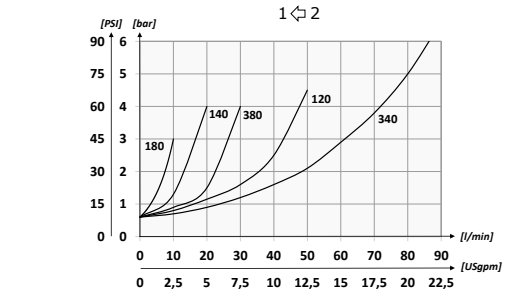


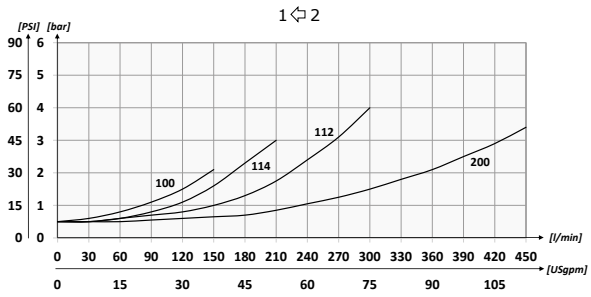
CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04	05
VUR		SP		

01	VALVOLE UNIDIREZIONALI F/F A COLONNETTA CON FORO DI STROZZATURA (F/F CHECK HOUSING VALVES WITH RESTRICTION HOLE)		**VUR**
02	DIMENSIONE (SIZE)	BSPP 1/8	**180**
		BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
		BSPP 1-1/4	**114**
		BSPP 1-1/2	**112**
		BSPP 2	**200**
03	TENUTA (SEALING)	**Tenuta a cono** (Poppet sealing)	**SP**
04	MOLLA (SPRING)	**1 bar** Standard (14.5 PSI)	**1**
		3 bar (43.5 PSI)	**3**
		4,5 bar (65.25 PSI)	**4,5**
		6 bar (87 PSI)	**6**
		10 bar (145 PSI) — **Solo versione 120** (Only 120 version)	**10**
05	FORO DI STROZZATURA (RESTRICTION HOLE)	Indicare il diametro del foro. Esempio: VUR380SP1 con foro Ø 1,5 mm **Cod. VUR380SP1-1,5** State the hole diameter. Example: VUR380SP1-1,5 with Ø 0,06 in hole **Cod. VUR380SP1-1,5**	

PERFORMANCES

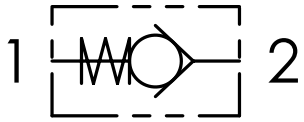




CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	L	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
VUR180-H	**BSPP 1/8**	**5** (1.3)		**47** (1.85)	**14**	**0,05** (0.11)
VUR140-H	**BSPP 1/4**	**15** (4.0)		**55** (2.17)	**19**	**0,10** (0.22)
VUR380-H	**BSPP 3/8**	**30** (7.9)	**400** (5800)	**65** (2.56)	**24**	**0,18** (0.40)
VUR120-H	**BSPP 1/2**	**50** (13.2)		**75** (2.95)	**27**	**0,23** (0.50)
VUR340-H	**BSPP 3/4**	**90** (23.8)		**86,5** (3.41)	**35**	**0,45** (1)
VUR100-H	**BSPP 1**	**150** (39.6)		**110** (4.33)	**41**	**0,73** (1.6)
VUR114-H	**BSPP 1-1/4**	**200** (52.8)	**350** (5075)	**123** (4.84)	**55**	**1,5** (3.3)
VUR112-H	**BSPP 1-1/2**	**300** (79.2)		**138** (5.43)	**60**	**1,85** (4.07)
VUR200-H	**BSPP 2**	**430** (113.5)	**250** (3625)	**145** (5.71)	**70**	**2,7** (6)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

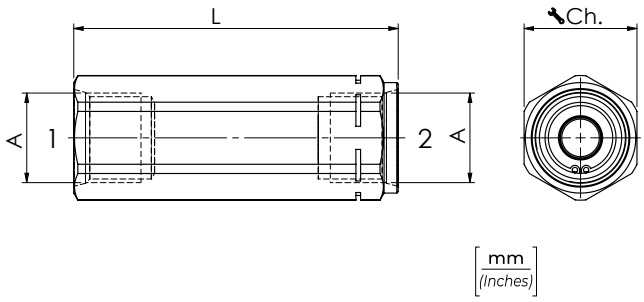


DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min

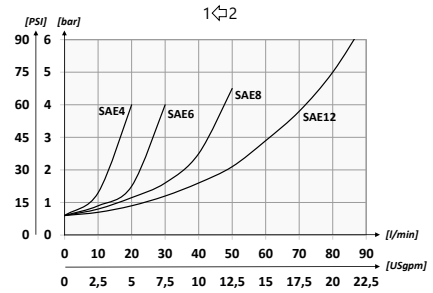


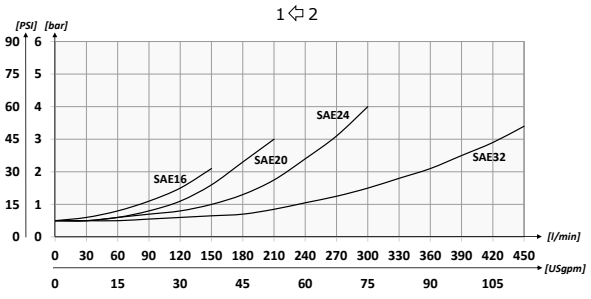
CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
VUR		**SP**	

01	VALVOLE UNIDIREZIONALI A COLONNETTA F/F (F/F CHECK HOUSING VALVES)		**VUR**
02	DIMENSIONE (SIZE)	7/16-20UNF	**4**
		9/16-18UNF	**6**
		3/4-16UNF	**8**
		1-1/16-12UN	**12**
		1-5/16-12UN	**16**
		1-5/8-12UN	**20**
		1-7/8-12UN	**24**
		2-1/2-12UN	**32**
03	TENUTA (SEALING)	Tenuta a cono (Poppet sealing)	**SP**
04	MOLLA (SPRING)	**0,5 bar** Standard (7.25 PSI)	**0,5**
		3 bar (43.5 PSI)	**3**
		4,5 bar (65.25 PSI)	**4,5**
		6 bar (87 PSI)	**6**

PERFORMANCES

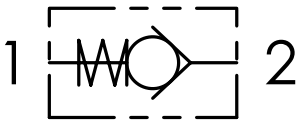




CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	L	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
VUR4	**7/16-20UNF**	**15** (4)	**400** (5800)	**55** (2.17)	**19**	**0,11** (0.24)
VUR6	**9/16-18UNF**	**30** (7.9)		**58** (2.28)	**19**	**0,09** (0.20)
VUR8	**3/4-16UNF**	**50** (13.2)		**69** (2.71)	**24**	**0,18** (0.40)
VUR12	**1-1/16-12UN**	**90** (23.8)		**88,5** (3.48)	**35**	**0,45** (1)
VUR16	**1-5/16-12UN**	**150** (39.6)	**350** (5075)	**110** (4.33)	**41**	**0,73** (1.6)
VUR20	**1-5/8-12UN**	**200** (52.8)		**120** (4.72)	**54**	**1,5** (3.43)
VUR24	**1-7/8-12UN**	**300** (79.2)		**138** (5.43)	**59**	**2,5** (5.5)
VUR32	**2-1/2-12UN**	**430** (113.5)			**69**	**2,9** (6.4)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
VUR		SP	

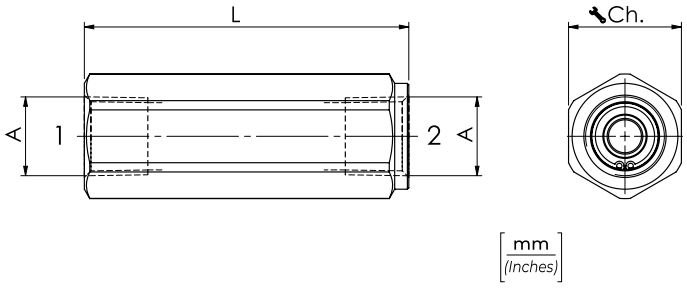
01	VALVOLE UNIDIREZIONALI A COLONNETTA F/F (F/F CHECK HOUSING VALVES)		**VUR**
02	DIMENSIONE (SIZE)	1/8 NPTF	**180N**
		1/4 NPTF	**140N**
		3/8 NPTF	**380N**
		1/2 NPTF	**120N**
		3/4 NPTF	**340N**
		1 NPTF	**100N**
		1-1/4 NPTF	**114N**
		1-1/2 NPTF	**112N**
		2 NPTF	**200N**
03	TENUTA (SEALING)	Tenuta a cono (Poppet sealing)	**SP**
04	MOLLA (SPRING)	**0,5 bar** Standard (7.25 PSI)	**0,5**
		3 bar (43.5 PSI)	**3**
		4,5 bar (65.25 PSI)	**4,5**
		6 bar (87 PSI)	**6**
		10 bar (145 PSI) — **Solo versione 120N** (Only 120N version)	**10**

DATI TECNICI / TECHNICAL DATA

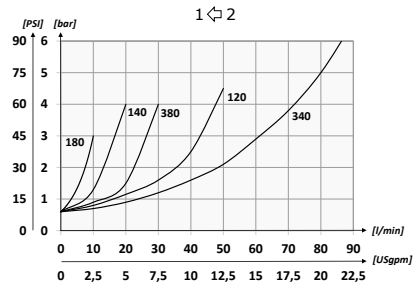
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

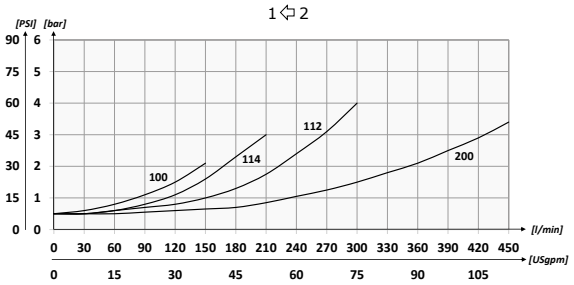
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



PERFORMANCES

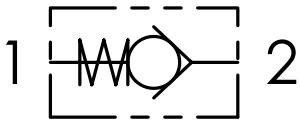




CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	L	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
VUR180N	**1/8 NPTF**	**5** (1,3)	**400** (5800)	**47** (1.85)	**14**	**0,05** (0.11)
VUR140N	**1/4 NPTF**	**15** (4)		**58** (2.28)	**19**	**0,10** (0.22)
VUR380N	**3/8 NPTF**	**30** (7.9)		**69** (2.72)	**24**	**0,18** (0.40)
VUR120N	**1/2 NPTF**	**50** (13.2)		**75** (2.95)	**27**	**0,23** (0.50)
VUR340N	**3/4 NPTF**	**90** (23.8)		**88,5** (3.48)	**35**	**0,45** (1)
VUR100N	**1 NPTF**	**150** (39.6)	**350** (5075)	**110** (4.33)	**41**	**0,75** (1.7)
VUR114N	**1-1/4 NPTF**	**200** (52.8)		**120** (4.72)	**54**	**1,5** (3.3)
VUR112N	**1-1/2 NPTF**	**300** (79.2)		**138** (5.43)	**59**	**2,6** (5.7)
VUR200N	**2 NPTF**	**430** (113.5)			**69**	**3** (6.60)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



CODICE ORDINAZIONE
ORDERING CODE

01	02	03	04
VMF			

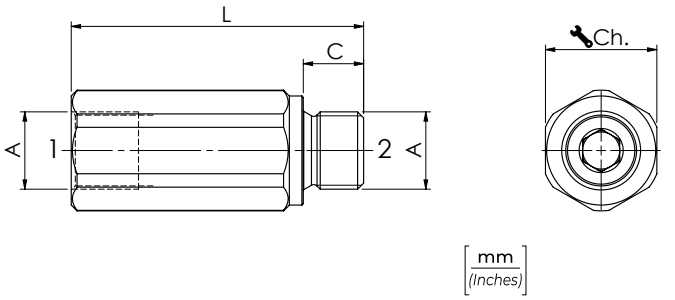
01	VALVOLE UNIDIREZIONALI A COLONNETTA M/F (M/F CHECK HOUSING VALVES)		**VMF**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
03	TENUTA (SEALING)	Tenuta a sfera solo per **VMF140/380/120 e molla 1 bar** (Ball sealing only for VMF140/380/120 and spring 1 bar)	**SF**
		Tenuta a cono (Poppet sealing)	**SP**
04	MOLLA (SPRING)	**1 bar** Standard (14.5 PSI)	**1**
		3 bar (43.5 PSI)	**3**
		4,5 bar (65 PSI)	**4,5**
		6 bar (87 PSI)	**6**
		10 bar (145 PSI) — **Solo versione 120** (Only 120 version)	**10**

DATI TECNICI / TECHNICAL DATA

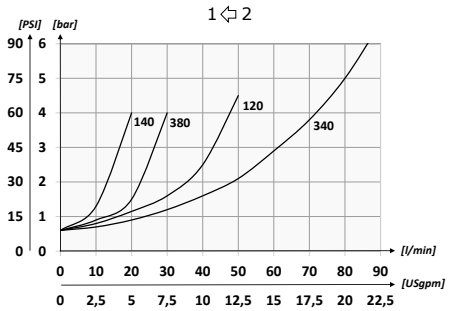
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

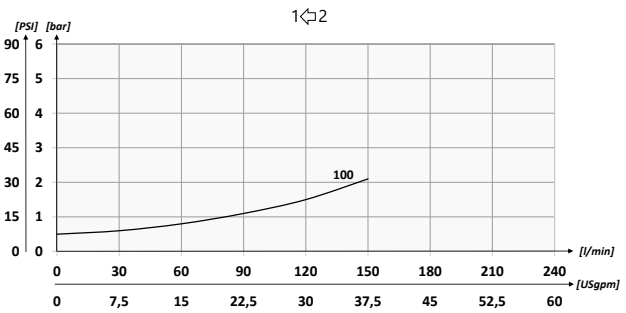
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

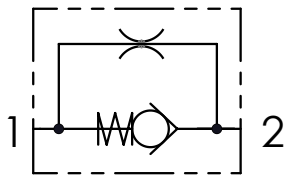
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	L	C	Ch.	PESO APPROX APPROX WEIGHT kg-lbt
VMF140	**BSPP 1/4**	**15** (4)	**400** (5800)	**50** (1.96)	**11** (0.43)	**19** (0.75)	**0,08** (0.18)
VMF380	**BSPP 3/8**	**30** (8)		**63** (2.48)	**13** (0.51)	**24** (0.94)	**0,16** (0.35)
VMF120	**BSPP 1/2**	**50** (13)		**70** (2.75)	**14** (0.55)	**27** (1.06)	**0,20** (0.44)
VMF340	**BSPP 3/4**	**90** (23)		**82** (3.23)	**17** (0.67)	**35** (1.38)	**0,39** (0.86)
VMF100	**BSPP 1**	**150** (40)	**350** (5075)	**100,5** (3.95)	**19** (0.75)	**41** (1.61)	**0,63** (1.38)

CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04	05
VMF		**SP**		

01	VALVOLE UNIDIREZIONALI A COLONNETTA M/F (M/F CHECK HOUSING VALVES)		**VMF**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
03	TENUTA (SEALING)	Tenuta a cono (Poppet sealing)	**SP**
04	MOLLA (SPRING)	**1 bar** Standard (14.5 PSI)	**1**
		3 bar (43.5 PSI)	**3**
		4,5 bar (65 PSI)	**4,5**
		6 bar (87 PSI)	**6**
		10 bar (145 PSI) — **Solo versione 120** (Only 120 version)	**10**
05	FORO DISTROZZATURA (RESTRICTION HOLE)	Indicare il diametro del foro. Esempio: VMF380SP1 con foro Ø 1,5 mm **Cod. VMF380SP1-1,5** State the hole diameter Example: VMF380SP1-1,5 with Ø 0,06 in hole **Cod. VMF380SP1-1,5**	

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

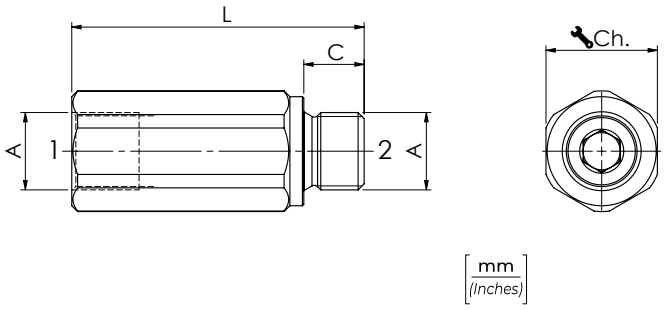


DATI TECNICI / TECHNICAL DATA

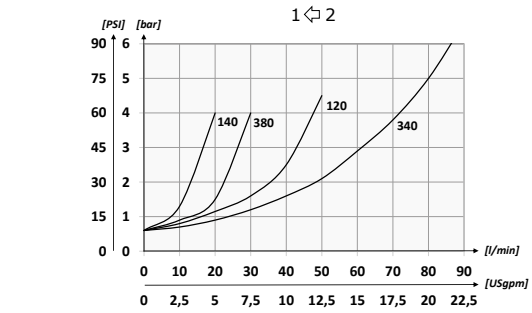
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

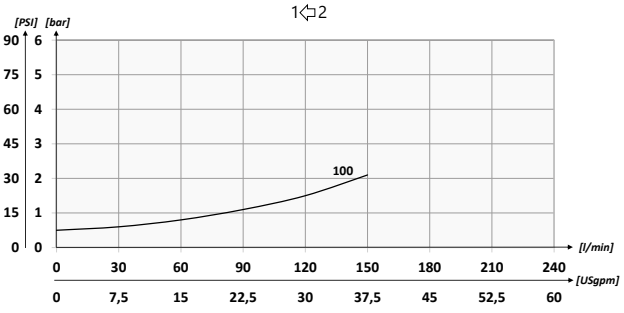
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

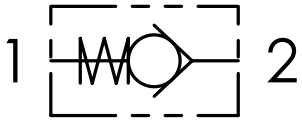
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	L	C	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
VMF140-H	**BSPP 1/4**	**15** (4)	**400** (5800)	**50** (1.96)	**11** (0.43)	**19** (0.75)	**0,08** (0.18)
VMF380-H	**BSPP 3/8**	**30** (8)		**63** (2.48)	**13** (0.51)	**24** (0.94)	**0,16** (0.35)
VMF120-H	**BSPP 1/2**	**50** (13)		**70** (2.75)	**14** (0.55)	**27** (1.06)	**0,20** (0.44)
VMF340-H	**BSPP 3/4**	**90** (23)		**82** (3.23)	**17** (0.67)	**35** (1.38)	**0,39** (0.86)
VMF100-H	**BSPP 1**	**150** (40)	**350** (5075)	**100,5** (3.95)	**19** (0.75)	**41** (1.61)	**0,63** (1.38)

CODICE ORDINAZIONE / ORDERING CODE

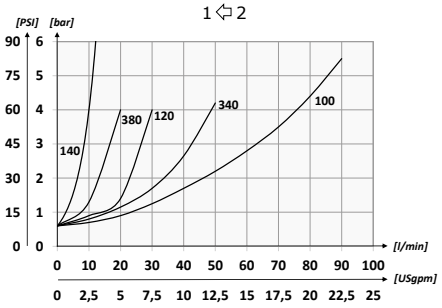
01	02	03	04
VUN			

01	VALVOLE UNIDIREZIONALI M/M (M/M CHECK VALVES)		**VUN**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
03	TENUTA (SEALING)	Tenuta a sfera solo per **VUN140/380/120 e molla 1 bar** (Ball sealing only for VUN140/380/120 and spring 1 bar)	**SF**
		Tenuta a cono (Poppet sealing)	**SP**
04	MOLLA (SPRING)	**1 bar** Standard (14.5 PSI)	**1**
		3 bar (43.5 PSI)	**3**
		4,5 bar (65.25 PSI)	**4,5**
		6 bar (87 PSI)	**6**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

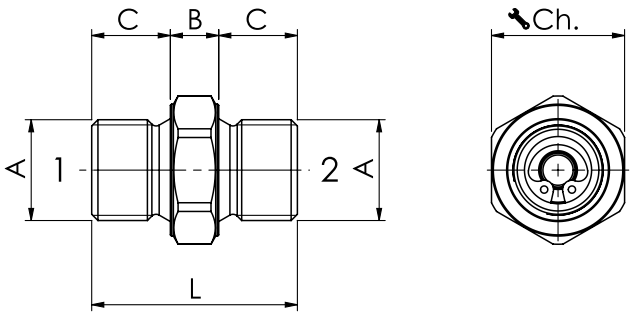


PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

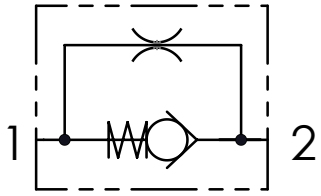
CODICE CODE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	L	B	C	Ch.	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	COPPIA MAX DI SERRAGGIO TUBO (Nm) MAX TIGHTENING TORQUE FOR HOSE (lbt in)	PESO APPROX APPROX WEIGHT kg - (lbt)
VUN140	**BSPP 1/4**	**5** (1.3)	**500** (7250)	**29** (0.28)	**7** (1.27)	**11** (0.43)	**19**	**30** (22.2)	**20** (14.75)	**0,03** (0.066)
VUN380	**BSPP 3/8**	**15** (4)		**34** (1.34)	**8** (0.31)	**13** (0.51)	**22**	**45** (33.2)	**35** (25.8)	**0,05** (0.01)
VUN120	**BSPP 1/2**	**30** (7.9)		**44** (1.73)	**16** (0.63)	**14** (0.55)	**27**	**60** (44.3)	**50** (36.8)	**0,11** (0.24)
VUN340	**BSPP 3/4**	**50** (13.2)		**50** (1.97)	**16** (0.63)	**17** (0.67)	**32**	**100** (73.75)	**90** (66.3)	**0,18** (0.40)
VUN100	**BSPP 1**	**90** (23.8)		**57** (2.24)	**19** (0.75)	**19** (0.75)	**41**	**140** (103.3)	**120** (88.5)	**0,32** (0.71)

CODICE ORDINAZIONE / ORDERING CODE

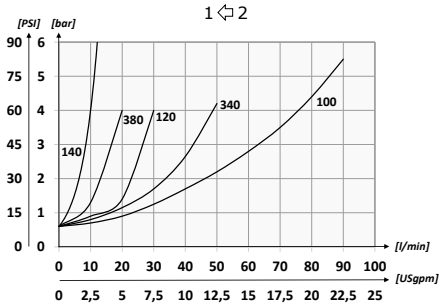
01	02	03	04	05
VUN		SP		

01	VALVOLE UNIDIREZIONALI M/M CON FORO DI STROZZATURA (M/M CHECK VALVES WITH RESTRICTION HOLE)		**VUN**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
03	TENUTA (SEALING)	Tenuta a cono (Poppet sealing)	**SP**
04	MOLLA (SPRING)	**1 bar** Standard (14.5 PSI)	**1**
		3 bar (43.5 PSI)	**3**
		4,5 bar (65.25 PSI)	**4,5**
		6 bar (87 PSI)	**6**
05	FORO DI STROZZATURA (RESTRICTION HOLE)	Indicare il diametro del foro. Esempio: VUN380SP1 con foro Ø 1,5 mm **Cod. VUN380SP1-1,5** State the hole diameter Example: VUN380SP1-1,5 with Ø 0,06 in hole **Cod. VUN380SP1-1,5**	

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

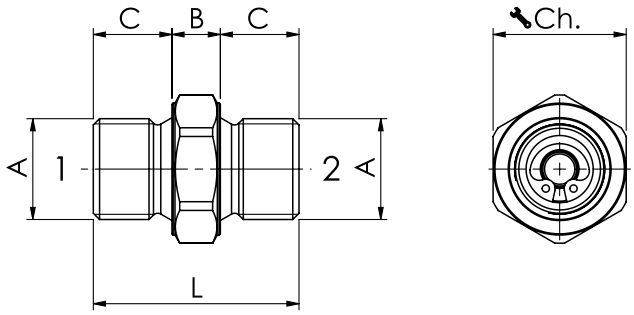


PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



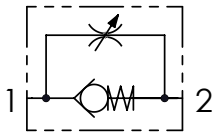
mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

CODICE CODE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	L	B	C	Ch.	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	COPPIA MAX DI SERRAGGIO TUBO (Nm) MAX TIGHTENING TORQUE FOR HOSE (lbt in)	PESO APPROX (kg) APPROX WEIGHT (lbt)
VUN140-H	**BSPP 1/4**	**5** (1.3)	**500** (7250)	**29** (0.28)	**7** (1.27)	**11** (0.43)	**19**	**30** (22.2)	**20** (14.75)	**0,03** (0.066)
VUN380-H	**BSPP 3/8**	**15** (4)		**34** (1.34)	**8** (0.31)	**13** (0.51)	**22**	**45** (33.2)	**35** (25.8)	**0,05** (0.01)
VUN120-H	**BSPP 1/2**	**30** (7.9)		**44** (1.73)	**16** (0.63)	**14** (0.55)	**27**	**60** (44.3)	**50** (36.8)	**0,11** (0.24)
VUN340-H	**BSPP 3/4**	**50** (13.2)		**50** (1.97)	**16** (0.63)	**17** (0.67)	**32**	**100** (73.75)	**90** (66.3)	**0,18** (0.40)
VUN100-H	**BSPP 1**	**90** (23.8)		**57** (2.24)	**19** (0.75)	**19** (0.75)	**41**	**140** (103.3)	**120** (88.5)	**0,32** (0.71)

TENUTA A SFERA SOLO PER VURF 140/380/120
BALL SEALING ONLY FOR VURF 140/380/120

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



CODICE ORDINAZIONE / ORDERING CODE

01	02
VURF	

01	VALVOLE DI CONTROLLO FLUSSO UNIDIREZIONALI (UNIDIRECTIONAL FLOW CONTROL VALVES)		**VURF**
02	DIMENSIONE (SIZE)	BSPP 1/8	**180**
		BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
		BSPP 1-1/4	**114**

DATI TECNICI / TECHNICAL DATA

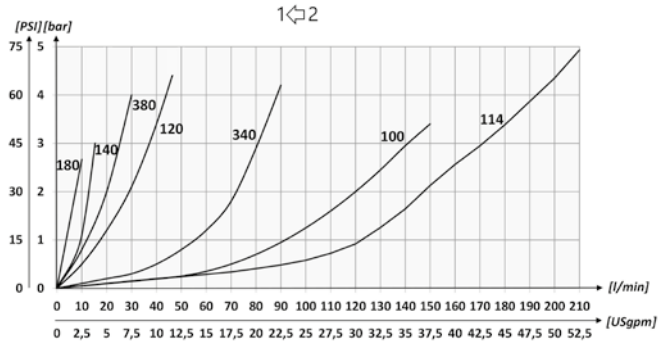
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

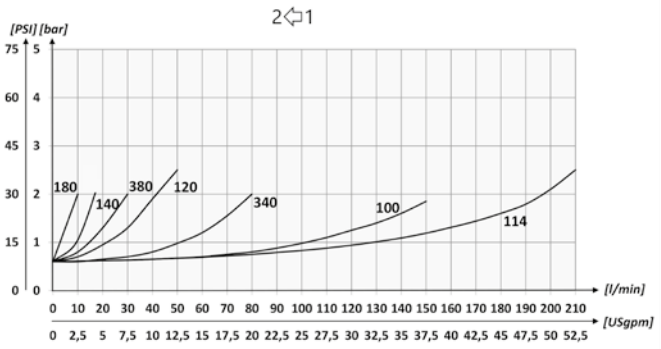
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

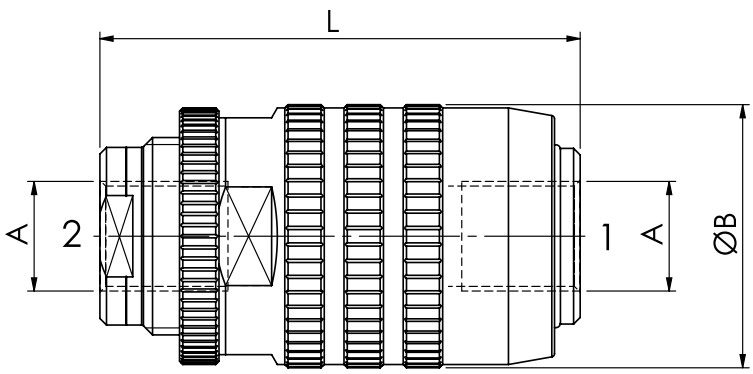
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	L	PESO APPROX APPROX WEIGHT kg-lbt
VURF180	**BSPP 1/8**	**5** (1,3)	**350** (5075)	**25** (0.98)	**48** (1.89)	**0,12** (0.26)
VURF140	**BSPP 1/4**	**15** (4)		**34** (1.34)	**62** (2.44)	**0,28** (0.6)
VURF380	**BSPP 3/8**	**30** (7.9)		**39** (1.54)	**73** (2.87)	**0,46** (1.01)
VURF120	**BSPP 1/2**	**45** (11.9)		**44** (1.73)	**83** (3.27)	**0,66** (1.45)
VURF340	**BSPP 3/4**	**85** (22.4)	**300** (4350)	**54** (2.13)	**102** (4.02)	**1,10** (2.42)
VURF100	**BSPP 1**	**150** (39.6)	**250** (3625)	**65** (2.56)	**124,5** (4.90)	**1,9** (4.20)
VURF114	**BSPP 1-1/4**	**200** (52.8)		**75** (2.95)	**144** (5.67)	**2,95** (6.32)

PERFORMANCES







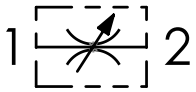
[mm (Inches)]

CODICE ORDINAZIONE / ORDERING CODE

01	02
VBRF	

01	VALVOLE DI CONTROLLO FLUSSO BIDIREZIONALI (BIDIRECTIONAL FLOW CONTROL VALVES)		**VBRF**
02	DIMENSIONE (SIZE)	BSPP 1/8	**180**
		BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
		BSPP 1-1/4	**114**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

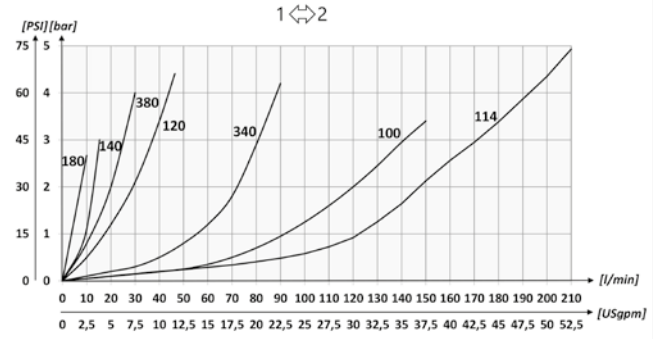


DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)			
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)			
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**			
Temperatura dell'olio - Oil temperature	**-20°C**	**+80°C**	-4°F	+ 176°F
Temperatura ambiente - Environment temperature	**-20°C**	**+50°C**	-4°F	+ 122°F

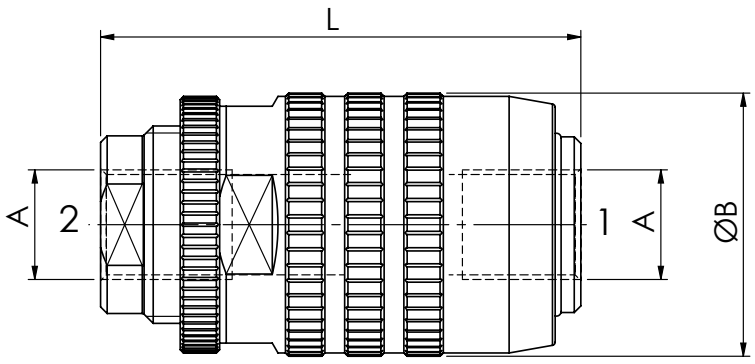
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

PERFORMANCES



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	L	PESO APPROX APPROX WEIGHT kg-lbt
VBRF180	**BSPP 1/8**	**5** (1,3)	**350** (5075)	**25** (0.98)	**48** (1.89)	**0,12** (0.26)
VBRF140	**BSPP 1/4**	**15** (4)		**34** (1.34)	**62** (2.44)	**0,28** (0.6)
VBRF380	**BSPP 3/8**	**30** (7.9)		**39** (1.54)	**73** (2.87)	**0,45** (1)
VBRF120	**BSPP 1/2**	**45** (11.9)		**44** (1.73)	**83** (3.27)	**0,63** (1.4)
VBRF340	**BSPP 3/4**	**85** (22.4)	**300** (4350)	**54** (2.13)	**102** (4.02)	**1,06** (2.33)
VBRF100	**BSPP 1**	**150** (39.6)	**250** (3625)	**65** (2.56)	**124,5** (4.90)	**1,8** (4)
VBRF114	**BSPP 1-1/4**	**200** (52.8)		**75** (2.95)	**144** (5.67)	**2,78** (5.96)



mm (Inches)

POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

BSPP	STU140 - STU380 - STU120

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

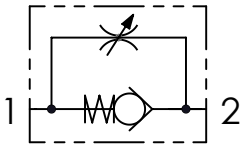
BSPP	STU180 - STU340 - STU100 - STU114 - STU112

CODICE ORDINAZIONE
ORDERING CODE

01	02
STU	

01	VALVOLE DI CONTROLLO FLUSSO UNIDIREZIONALI (UNIDIRECTIONAL FLOW CONTROL VALVES)		**STU**
02	DIMENSIONE (SIZE) Tenuta a sfera solo per STU180/140/380/120 Ball sealing only for STU180/140/380/120	BSPP 1/8	**180**
		BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
		BSPP 1-1/4	**114**
		BSPP 1-1/2	**112**

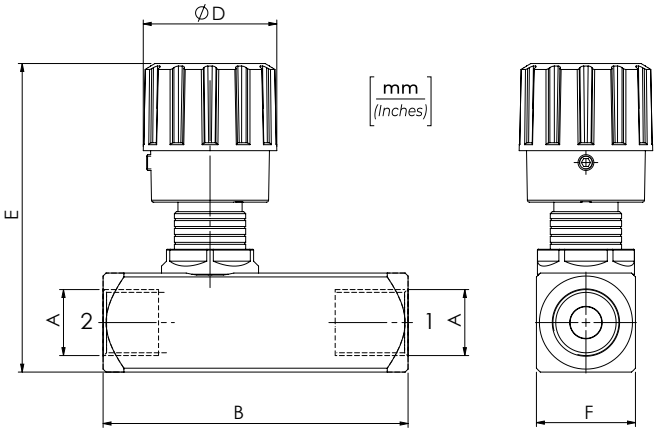
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



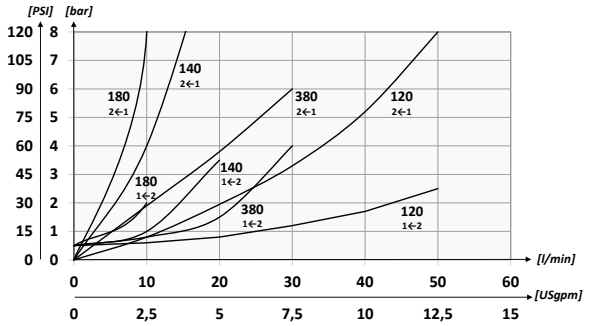
DATI TECNICI / TECHNICAL DATA

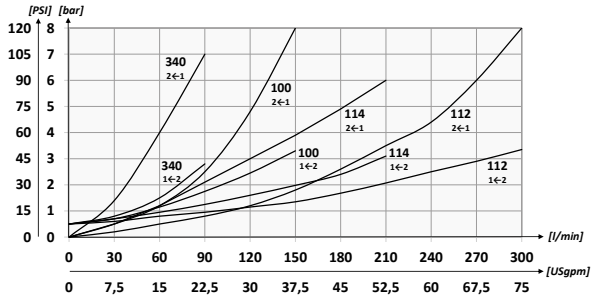
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	D	E	F	PESO APPROX APPROX WEIGHT kg-lbt
STU180	**BSPP 1/8**	**10** (2.6)	**400** (5800)	**58** (2.28)	**20** (0.79)	**53** (2.09)	**20** (0.79)	**0,19** (0.42)
STU140	**BSPP 1/4**	**15** (4)		**66** (2.60)	**30** (1.18)	**71,5** (2.81)	**25** (0.98)	**0,34** (0.75)
STU380	**BSPP 3/8**	**30** (7.9)		**77** (3.03)				**0,36** (0.80)
STU120	**BSPP 1/2**	**50** (13.2)		**91** (3.58)	**33** (1.30)	**72** (2.83)	**30** (1.18)	**0,60** (1.3)
STU340	**BSPP 3/4**	**80** (21.1)		**112,5** (4.43)	**42** (1.65)	**94** (3.70)	**40** (1.57)	**1,33** (3)
STU100	**BSPP 1**	**150** (39.6)		**141** (5.55)		**99** (3.90)	**45** (1.77)	**1,83** (4.03)
STU114	**BSPP 1-1/4**	**200** (52.8)	**350** (5075)	**155** (6.10)	**53** (2.09)	**121,5** (4.78)	**55** (2.17)	**3,1** (6.8)
STU112	**BSPP 1-1/2**	**300** (79.2)		**168** (6.61)		**131,5** (5.18)	**65** (2.56)	**4,5** (10)

POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

BSPP	STUF140 - STUF380 - STUF120

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

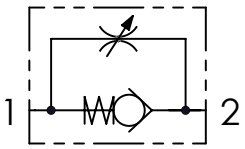
BSPP	STUF180 - STUF340 - STUF100 - STUF114 - STUF112

CODICE ORDINAZIONE / ORDERING CODE

01	02
STUF	

01	VALVOLE DI CONTROLLO FLUSSO UNIDIREZIONALI (UNIDIRECTIONAL FLOW CONTROL VALVES)		STUF
02	DIMENSIONE (SIZE) Tenuta a sfera solo per STU180/140/380/120 Ball sealing only for STU180/140/380/120	BSPP 1/8	180
		BSPP 1/4	140
		BSPP 3/8	380
		BSPP 1/2	120
		BSPP 3/4	340
		BSPP 1	100
		BSPP 1-1/4	114
		BSPP 1-1/2	112

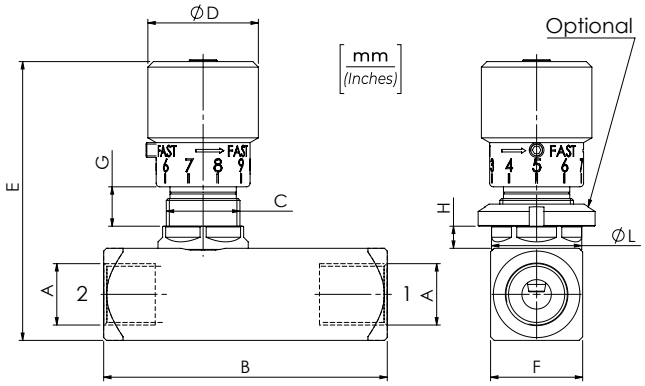
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



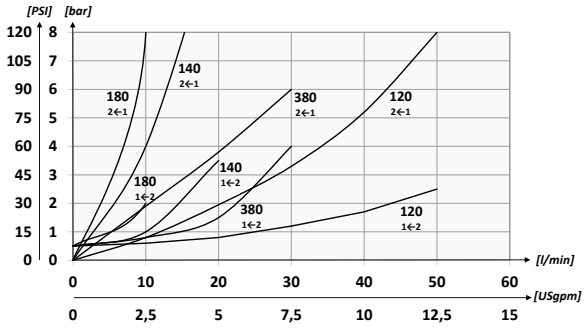
DATI TECNICI / TECHNICAL DATA

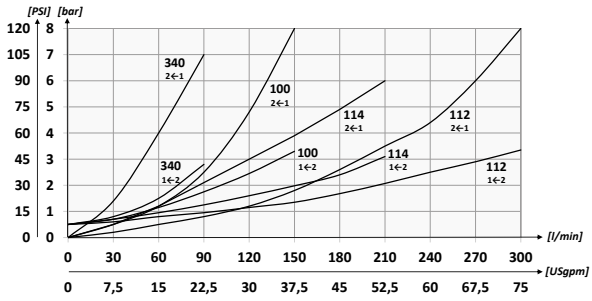
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	OPTIONAL TYPE	PESO APPROX APPROX WEIGHT kg-lbt
STUF180	BSPP 1/8	10 (2.6)	400 (5800)	58 (2.28)	M15x1	20 (0.79)	60,5 (2.38)	20 (0.79)	8 (0.31)	5,5 (0.21)	19,5 (0.76)	84100031	0,20 (0.44)
STUF140	BSPP 1/4	15 (4)		66 (2.60)	M20x1	33 (1.30)	75 (2.95)	25 (0.98)	7,5 (0.29)	6 (0.23)	24,5 (0.96)	84100022	0,38 (0.84)
STUF380	BSPP 3/8	30 (7.9)		77 (3.03)									0,40 (0.88)
STUF120	BSPP 1/2	50 (13.2)		91 (3.58)	M25x1,5		81 (3.19)	30 (1.18)	9 (0.35)	7 (0.27)	29,5 (1.16)	84100023	0,63 (1.40)
STUF340	BSPP 3/4	80 (21.1)		112,5 (4.43)	M35x1,5	42 (1.65)	110 (4.33)	40 (1.57)	15,5 (0.61)	8 (0.31)	39,5 (1.55)	84100024	1,45 (3.2)
STUF100	BSPP 1	150 (39.6)		141 (5.55)			115 (4.53)	45 (1.77)					2 (4.4)
STUF114	BSPP 1-1/4	200 (52.8)	350 (5075)	155 (6.10)	M45x1,5	53 (2.09)	137 (5.39)	55 (2.17)	13,5 (0.53)	10 (0.39)	50 (1.96)	84100030	3,3 (7.25)
STUF112	BSPP 1-1/2	300 (79.2)		168 (6.61)			147 (5.79)	65 (2.56)					4,7 (10.3)

POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

NPTF	STU140N - STU380N - STU120N

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

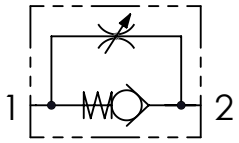
NPTF	STU180N - STU340N - STU100N - STU114N - STU112N

CODICE ORDINAZIONE
ORDERING CODE

01	02
STU	

01	VALVOLE DI CONTROLLO FLUSSO UNIDIREZIONALI (UNIDIRECTIONAL FLOW CONTROL VALVES)		**STU**
02	DIMENSIONE (SIZE)	NPTF 1/8	**180N**
		NPTF 1/4	**140N**
		NPTF 3/8	**380N**
		NPTF 1/2	**120N**
		NPTF 3/4	**340N**
		NPTF 1	**100N**
		NPTF 1-1/4	**114N**
		NPTF 1-1/2	**112N**

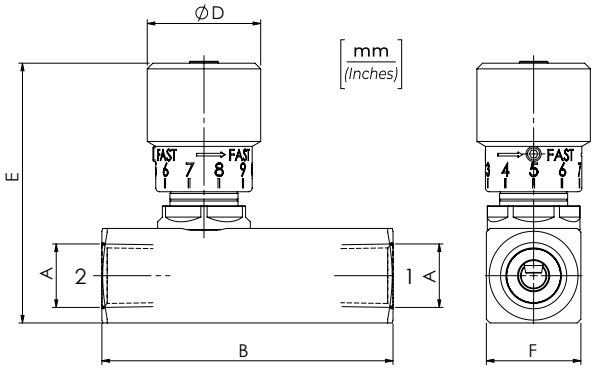
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



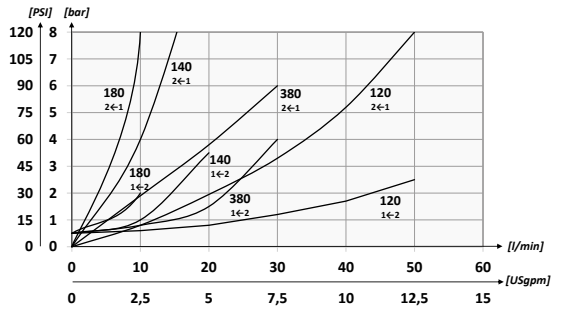
DATI TECNICI / TECHNICAL DATA

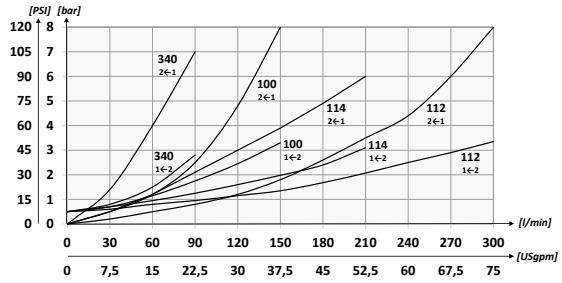
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	D	E	F	PESO APPROX (kg) APPROX WEIGHT (lbt)
STU180N	**NPTF 1/8**	**10** (2.6)	**400** (5800)	**58** (2.28)	**20** (0.79)	**53** (2.08)	**20** (0.79)	**0,19** (0.42)
STU140N	**NPTF 1/4**	**15** (4)		**66** (2.60)	**33** (1.30)	**68** (2.68)	**25** (0.98)	**0,37** (0.75)
STU380N	**NPTF 3/8**	**30** (7.9)		**77** (3.03)				**0,40** (0.9)
STU120N	**NPTF 1/2**	**50** (13.2)		**91** (3.58)		**72** (2.83)	**30** (1.18)	**0,60** (1.3)
STU340N	**NPTF 3/4**	**80** (21.1)		**112,5** (4.43)	**42** (1.65)	**94** (3.70)	**40** (1.57)	**1,40** (3.09)
STU100N	**NPTF 1**	**150** (39.6)		**141** (5.55)		**99** (3.90)	**45** (1.77)	**1,9** (4.2)
STU114N	**NPTF 1-1/4**	**200** (52.8)	**350** (5075)	**155** (6.10)	**53** (2.09)	**121,5** (4.78)	**55** (2.17)	**3,06** (6.73)
STU112N	**NPTF 1-1/2**	**300** (79.2)		**168** (6.61)		**131,5** (5.17)	**65** (2.56)	**4,5** (10)

POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

NPTF	STUF140N - STUF380N - STUF120N

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

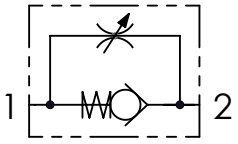
NPTF	STUF180N - STUF340N - STUF100N - STUF114N - STUF112N

CODICE ORDINAZIONE / ORDERING CODE

01	02
STUF	

01	VALVOLE DI CONTROLLO FLUSSO UNIDIREZIONALI (UNIDIRECTIONAL FLOW CONTROL VALVES)		**STUF**
02	DIMENSIONE (SIZE)	NPTF 1/8	**180N**
		NPTF 1/4	**140N**
		NPTF 3/8	**380N**
		NPTF 1/2	**120N**
		NPTF 3/4	**340N**
		NPTF 1	**100N**
		NPTF 1-1/4	**114N**
		NPTF 1-1/2	**112N**

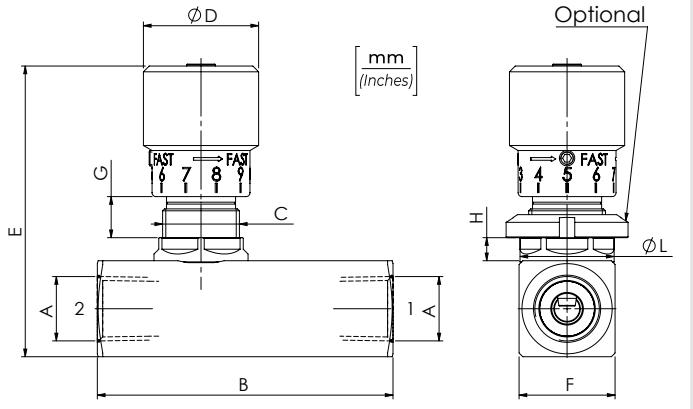
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



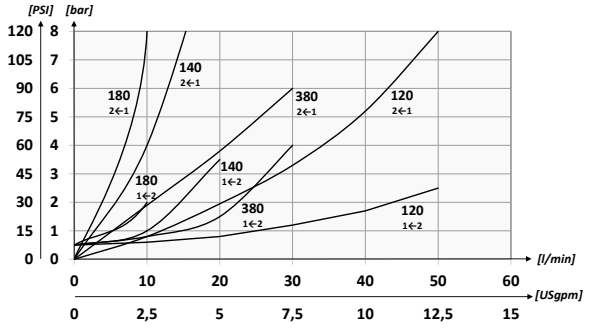
DATI TECNICI / TECHNICAL DATA

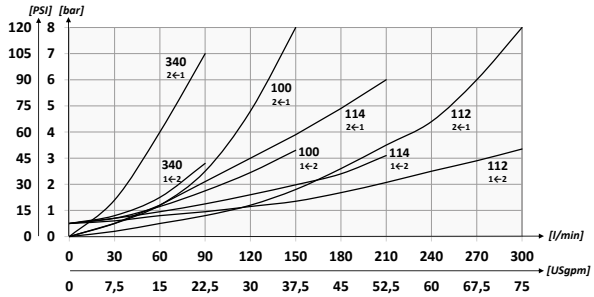
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)			
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)			
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**			
Temperatura dell'olio - Oil temperature	**-20°C**	**+80°C**	-4°F	+ 176°F
Temperatura ambiente - Environment temperature	**-20°C**	**+50°C**	-4°F	+ 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	OPTIONAL TYPE	PESO APPROX APPROX WEIGHT kg-lbt
STUF180N	**NPTF 1/8**	**10** (2.6)	**400** (5800)	**58** (2.28)	**M15x1**	**20** (0.79)	**60,5** (2.38)	**20** (0.79)	**8** (0.31)	**5,5** (0.22)	**19,5** (0.77)	**84100031**	**0,20** (0.44)
STUF140N	**NPTF 1/4**	**15** (4)		**66** (2.60)	**M20x1**	**33** (1.30)	**75** (2.95)	**25** (0.98)	**7,5** (0.30)	**6** (0.24)	**24,5** (0.96)	**84100022**	**0,40** (0.88)
STUF380N	**NPTF 3/8**	**30** (7.9)		**77** (3.03)									**0,42** (0.92)
STUF120N	**NPTF 1/2**	**50** (13.2)		**91** (3.58)	**M25x1,5**		**81** (3.19)	**30** (1.18)	**9** (0.35)	**7** (0.28)	**29,5** (1.16)	**84100023**	**0,63** (1.40)
STUF340N	**NPTF 3/4**	**80** (21.1)		**112,5** (4.43)	**M35x1,5**	**42** (1.65)	**110** (4.33)	**40** (1.57)	**15,5** (0.61)	**8** (0.31)	**39,5** (1.56)	**84100024**	**1,5** (3.3)
STUF100N	**NPTF 1**	**150** (39.6)		**141** (5.55)			**115** (4.53)	**45** (1.77)					**2** (4.4)
STUF114N	**NPTF 1-1/4**	**200** (52.8)	**350** (5075)	**155** (6.10)	**M45x1,5**	**53** (2.09)	**137** (5.39)	**55** (2.17)	**13,5** (0.53)	**10** (0.39)	**50** (1.97)	**84100030**	**3,2** (7.05)
STUF112N	**NPTF 1-1/2**	**300** (79.2)		**168** (6.61)			**147** (5.79)	**65** (2.56)					**4,7** (10.3)

POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

SAE	STUF4 - STUF6 - STUF8

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

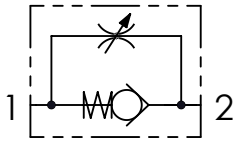
SAE	STU4S - STUF12 STUF16 - STUF20 - STUF24

CODICE ORDINAZIONE
ORDERING CODE

01	02
STU	

01	VALVOLE DI CONTROLLO FLUSSO UNIDIREZIONALI (UNIDIRECTIONAL FLOW CONTROL VALVES)		**STU**
02	DIMENSIONE (SIZE)	7/16-20UNF Small	**4S**
		7/16-20UNF	**4**
		9/16-18UNF	**6**
		3/4-16UNF	**8**
		1-1/16-12UN	**12**
		1-5/16-12UN	**16**
		1-5/8-12UN	**20**
		1-7/8-12UN	**24**

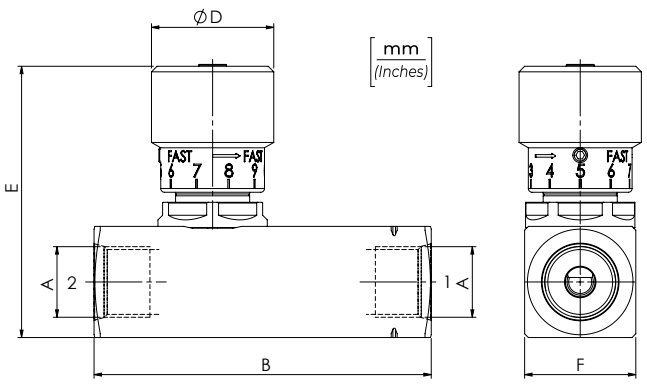
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



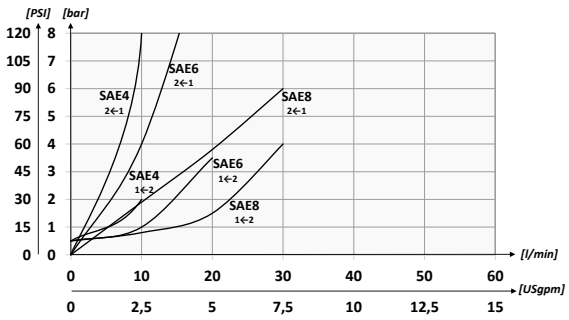
DATI TECNICI / TECHNICAL DATA

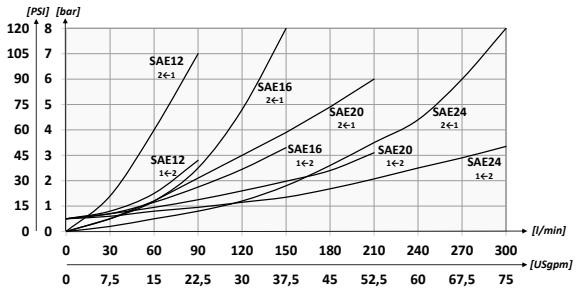
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	D	E	F	PESO APPROX (kg) APPROX WEIGHT (lbt)
STU4S	**7/16-20UNF**	**10** (2.6)	**400** (5800)	**66** (2.60)	**33** (1.30)	**68** (2.68)	**20** (0.79)	**0,21** (0.46)
STU4							**25** (0.98)	**0,39** (0.85)
STU6	**9/16-18UNF**	**15** (4)		**70,5** (2.78)				**0,40** (0.9)
STU8	**3/4-16UNF**	**30** (7.9)		**91** (3.58)		**72** (2.83)	**30** (1.18)	**0,60** (1.3)
STU12	**1-1/16-12UN**	**80** (21.1)		**112,5** (4.43)	**42** (1.65)	**94** (3.70)	**40** (1.57)	**1,28** (2.80)
STU16	**1-5/16-12UN**	**150** (39.6)		**141** (5.55)		**99** (3.90)	**45** (1.77)	**1,87** (4.11)
STU20	**1-5/8-12UN**	**200** (52.8)	**350** (5075)	**155** (6.10)	**53** (2.09)	**121,5** (4.78)	**55** (2.17)	**3,06** (6.73)
STU24	**1-7/8-12UN**	**300** (79.2)		**168** (6.61)		**131,5** (5.18)	**65** (2.56)	**4,5** (10)

POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

SAE	STUF4 - STUF6 - STUF8

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

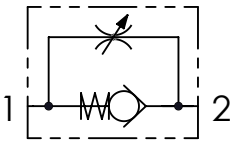
SAE	STUF4S - STUF12 STUF16 - STUF20 - STUF24

CODICE ORDINAZIONE
ORDERING CODE

01	02
STUF	

01	VALVOLE DI CONTROLLO FLUSSO UNIDIREZIONALI (UNIDIRECTIONAL FLOW CONTROL VALVES)		**STUF**
02	DIMENSIONE (SIZE)	7/16-20UNF Small	**4S**
		7/16-20UNF	**4**
		9/16-18UNF	**6**
		3/4-16UNF	**8**
		1-1/16-12UN	**12**
		1-5/16-12UN	**16**
		1-5/8-12UN	**20**
		1-7/8-12UN	**24**

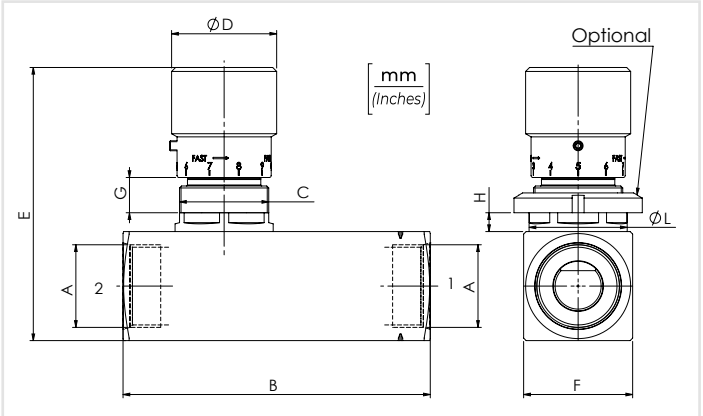
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



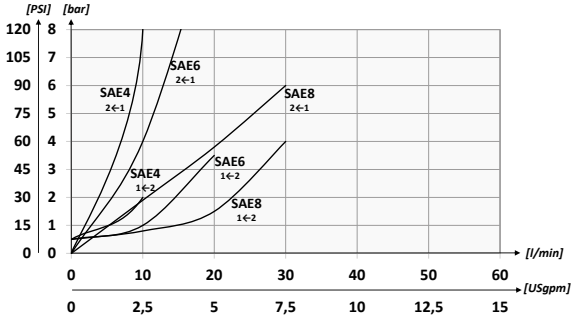
DATI TECNICI / TECHNICAL DATA

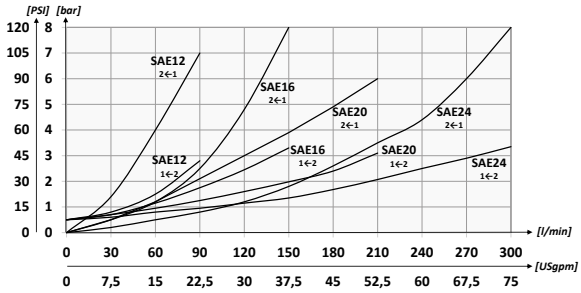
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	OPTIONAL TYPE	PESO APPROX APPROX WEIGHT kg-lbt
STUF4S	7/16-20UNF	10 (2.6)	400 (5800)	66 (2.60)	M20x1	33 (1.30)	75 (2.95)	20 (0.79)	7,5 (0.30)	6 (0.24)	24,5 (0.96)	84100022	0,22 (0.48)
STUF4								25 (0.98)					0,41 (0.90)
STUF6	9/16-18UNF	15 (4)		70,5 (2.78)									0,42 (0.92)
STUF8	3/4-16UNF	30 (7.9)		91 (3.58)	M25x1,5		81 (3.19)	30 (1.18)	9 (0.35)	7 (0.28)	29,5 (1.16)	84100023	0,63 (1.40)
STUF12	1-1/16-12UN	80 (21.1)		112,5 (4.43)	M35x1,5	42 (1.65)	110 (4.33)	40 (1.57)	15,5 (0.61)	8 (0.31)	39,5 (1.56)	84100024	1,40 (3.10)
STUF16	1-5/16-12UN	150 (39.6)		141 (5.55)			115 (4.53)	45 (1.77)					2 (4.4)
STUF20	1-5/8-12UN	200 (52.8)	350 (5075)	155 (6.10)	M45x1,5	53 (2.09)	137 (5.39)	55 (2.17)	13,5 (0.53)	10 (0.39)	50 (1.97)	84100030	3,3 (7.25)
STUF24	1-7/8-12UN	300 (79.2)		168 (6.61)			147 (5.79)	65 (2.56)					4,7 (10.3)

CODICE ORDINAZIONE
ORDERING CODE

01	02
STB	

01	VALVOLE DI CONTROLLO FLUSSO BIDIREZIONALI (BIDIRECTIONAL FLOW CONTROL VALVES)		**STB**
02	DIMENSIONE (SIZE)	BSPP 1/8	**180**
		BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
		BSPP 1-1/4	**114**
		BSPP 1-1/2	**112**

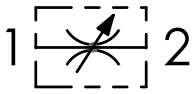
POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

BSPP	STB140 - STB380 - STB120

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

BSPP	STB180 - STB340 - STB100 - STB114 - STB112

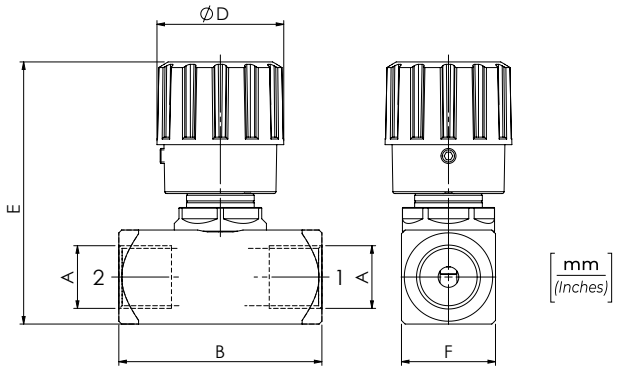
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



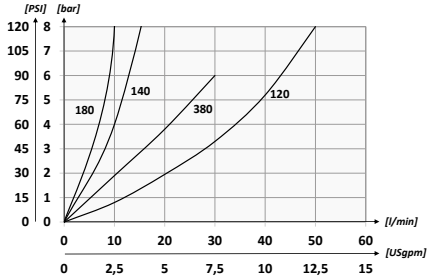
DATI TECNICI / TECHNICAL DATA

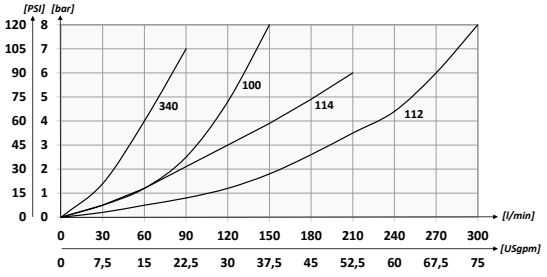
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	D	E	F	PESO APPROX (kg) APPROX WEIGHT (lbt)
STB180	**BSPP 1/8**	**10** (2.6)	**400** (5800)	**44** (1.73)	**20** (0.79)	**53** (2.09)	**20** (0.79)	**0,15** (0.33)
STB140	**BSPP 1/4**	**15** (4)		**54** (2.13)	**33** (1.30)	**71,5** (2.81)	**25** (0.98)	**0,29** (0.70)
STB380	**BSPP 3/8**	**30** (7.9)						**0,26** (0.57)
STB120	**BSPP 1/2**	**50** (13.2)		**64** (2.52)		**72** (2.83)	**30** (1.18)	**0,45** (1)
STB340	**BSPP 3/4**	**80** (21.1)		**81** (3.19)	**42** (1.65)	**94** (3.70)	**40** (1.57)	**1,02** (2.25)
STB100	**BSPP 1**	**150** (39.6)		**102** (4.01)		**99** (3.90)	**45** (1.77)	**1,38** (3.04)
STB114	**BSPP 1-1/4**	**200** (52.8)	**350** (5075)		**53** (2.09)	**121,5** (4.78)	**55** (2.17)	**2,2** (4.8)
STB112	**BSPP 1-1/2**	**300** (79.2)				**131,5** (5.18)	**65** (2.56)	**3** (6.6)

POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

BSPP	STBF140 - STBF380 - STBF120

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

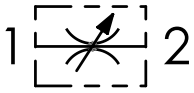
BSPP	STBF180 - STBF340 - STBF100 - STBF114 - STBF112

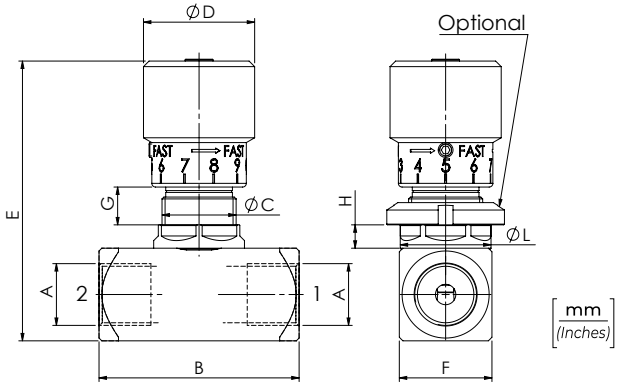
CODICE ORDINAZIONE / ORDERING CODE

01	02
STBF	

01	VALVOLE DI CONTROLLO FLUSSO BIDIREZIONALI (BIDIRECTIONAL FLOW CONTROL VALVES)		STBF
02	DIMENSIONE (SIZE)	BSPP 1/8	180
		BSPP 1/4	140
		BSPP 3/8	380
		BSPP 1/2	120
		BSPP 3/4	340
		BSPP 1	100
		BSPP 1-1/4	114
		BSPP 1-1/2	112

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



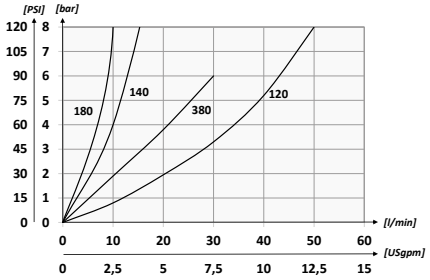


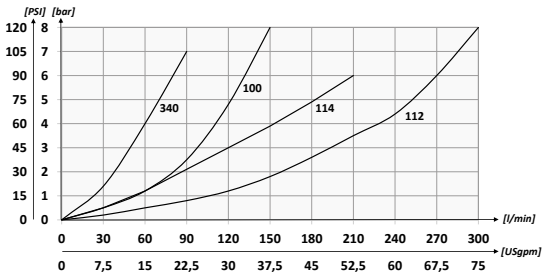
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	D	E	F	G	H	L	OPTIONAL TYPE	PESO APPROX (kg) APPROX WEIGHT (lbt)
STBF180	BSPP 1/8	10 (2.6)	400 (5800)	44 (1.73)	M15x1	20 (0.79)	60,5 (2.38)	20 (0.79)	8 (0.31)	5,5 (0.22)	19,5 (0.77)	84100031	0,16 (0.36)
STBF140	BSPP 1/4	15 (4)		54 (2.13)	M20x1	33 (1.30)	75 (2.95)	25 (0.98)	7,5 (0.30)	6 (0.24)	24,5 (0.96)	84100022	0,31 (0.68)
STBF380	BSPP 3/8	30 (7.9)											0,28 (0.62)
STBF120	BSPP 1/2	50 (13.2)		64 (2.52)	M25x1,5		81 (3.19)	30 (1.18)	9 (0.35)	7 (0.28)	29,5 (1.16)	84100023	0,48 (1.06)
STBF340	BSPP 3/4	80 (21.1)		81 (3.19)	M35x1,5	42 (1.65)	110 (4.33)	40 (1.57)	15,5 (0.61)	8 (0.31)	39,5 (1.56)	84100024	1,13 (2.50)
STBF100	BSPP 1	150 (39.6)					115 (4.53)	45 (1.77)					1,50 (3.3)
STBF114	BSPP 1-1/4	200 (52.8)	350 (5075)	102 (4.01)	M45x1,5	53 (2.09)	137 (5.39)	55 (2.17)	13,5 (0.53)	10 (0.39)	50 (1.97)	84100030	2,37 (5.21)
STBF112	BSPP 1-1/2	300 (79.2)					147 (5.79)	65 (2.56)					3,17 (7)

POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

NPTF	STB140N - STB380N - STB120N

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

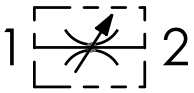
NPTF	STB180N - STB340N - STB100N - STB114N - STB112N

CODICE ORDINAZIONE
ORDERING CODE

01	02
STB	

01	VALVOLE DI CONTROLLO FLUSSO BIDIREZIONALI (BIDIRECTIONAL FLOW CONTROL VALVES)		**STB**
02	DIMENSIONE (SIZE)	NPTF 1/8	**180N**
		NPTF 1/4	**140N**
		NPTF 3/8	**380N**
		NPTF 1/2	**120N**
		NPTF 3/4	**340N**
		NPTF 1	**100N**
		NPTF 1-1/4	**114N**
		NPTF 1-1/2	**112N**

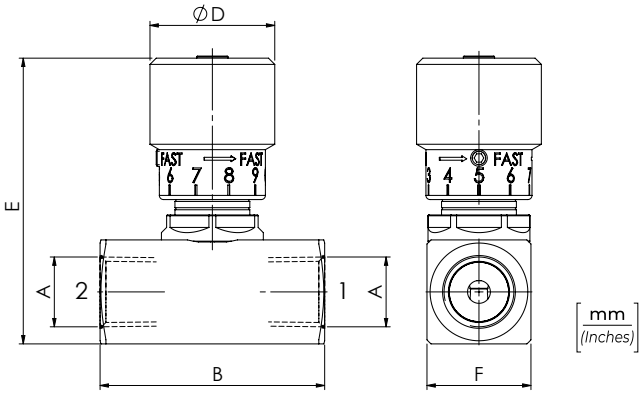
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



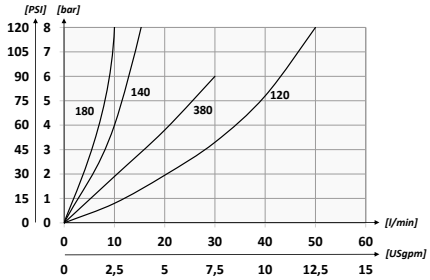
DATI TECNICI / TECHNICAL DATA

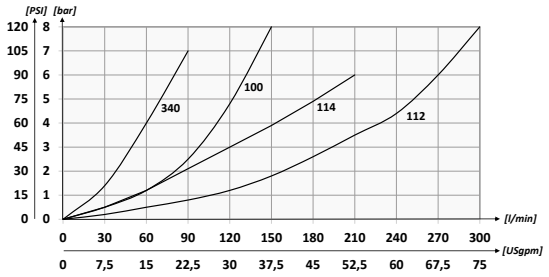
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	D	E	F	PESO APPROX (kg) APPROX WEIGHT (lbt)
STB180N	**NPTF 1/8**	**10** (2.6)	**400** (5800)	**44** (1.73)	**20** (0.79)	**53** (2.09)	**20** (0.79)	**0,15** (0.33)
STB140N	**NPTF 1/4**	**15** (4)		**54** (2.13)	**33** (1.30)	**68** (2.68)	**25** (0.98)	**0,32** (0.71)
STB380N	**NPTF 3/8**	**30** (7.9)						**0,30** (0.66)
STB120N	**NPTF 1/2**	**50** (13.2)		**64** (2.52)		**72** (2.83)	**30** (1.18)	**0,47** (1.03)
STB340N	**NPTF 3/4**	**80** (21.1)		**81** (3.19)	**42** (1.65)	**94** (3.70)	**40** (1.57)	**1,05** (2.31)
STB100N	**NPTF 1**	**150** (39.6)		**102** (4.02)		**99** (3.90)	**45** (1.77)	**1,49** (3.95)
STB114N	**NPTF 1-1/4**	**200** (52.8)	**350** (5075)		**53** (2.09)	**121,5** (4.78)	**55** (2.16)	**2,27** (5.21)
STB112N	**NPTF 1-1/2**	**300** (79.2)				**131,5** (5.18)	**65** (2.56)	**3** (6.6)

CODICE ORDINAZIONE / ORDERING CODE

01	02
STBF	

01	VALVOLE DI CONTROLLO FLUSSO BIDIREZIONALI (BIDIRECTIONAL FLOW CONTROL VALVES)		**STBF**
02	DIMENSIONE (SIZE)	NPTF 1/8	**180N**
		NPTF 1/4	**140N**
		NPTF 3/8	**380N**
		NPTF 1/2	**120N**
		NPTF 3/4	**340N**
		NPTF 1	**100N**
		NPTF 1-1/4	**114N**
		NPTF 1-1/2	**112N**

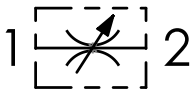
POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

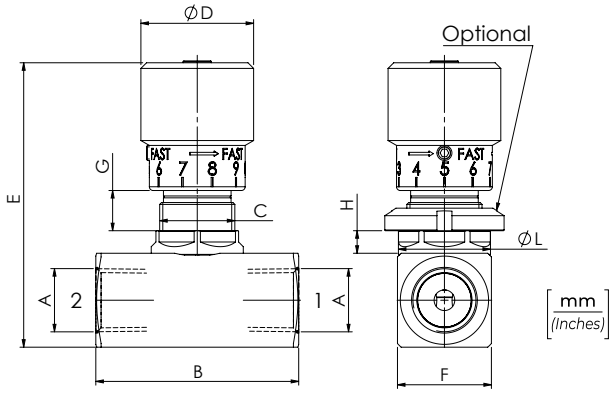
NPTF	STBF140N - STBF380N - STBF120N

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

NPTF	STBF180N - STBF340N - STBF100N - STBF114N - STBF112N

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



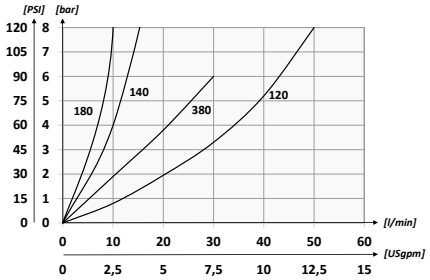


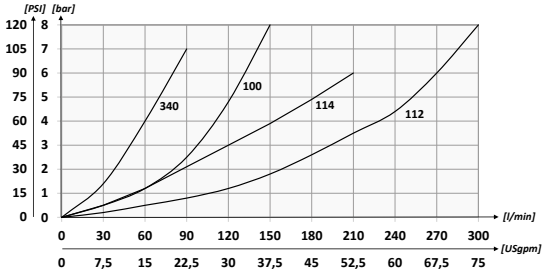
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	D	E	F	G	H	L	OPTIONAL TYPE	PESO APPROX (kg) APPROX WEIGHT (lbt)
STBF180N	**NPTF 1/8**	**10** (2.6)	**400** (5800)	**44** (1.73)	**M15x1**	**20** (0.79)	**60,5** (2.38)	**20** (0.79)	**8** (0.31)	**5,5** (0.22)	**19,5** (0.77)	**84100031**	**0,16** (0.36)
STBF140N	**NPTF 1/4**	**15** (4)		**54** (2.13)	**M20x1**	**33** (1.30)	**75** (2.95)	**25** (0.98)	**7,5** (0.30)	**6** (0.24)	**24,5** (0.96)	**84100022**	**0,34** (0.75)
STBF380N	**NPTF 3/8**	**30** (7.9)											**0,32** (0.71)
STBF120N	**NPTF 1/2**	**50** (13.2)		**64** (2.52)	**M25x1,5**		**81** (3.19)	**30** (1.18)	**9** (0.35)	**7** (0.28)	**29,5** (1.16)	**84100023**	**0,50** (1.1)
STBF340N	**NPTF 3/4**	**80** (21.1)		**81** (3.19)	**M35x1,5**	**42** (1.65)	**110** (4.33)	**40** (1.57)	**15,5** (0.61)	**8** (0.31)	**39,5** (1.55)	**84100024**	**1,15** (2.53)
STBF100N	**NPTF 1**	**150** (39.6)					**115** (4.53)	**45** (1.77)					**1,49** (3.30)
STBF114N	**NPTF 1-1/4**	**200** (52.8)	**350** (5075)	**102** (4.01)	**M45x1,5**	**53** (2.09)	**137** (5.39)	**55** (2.17)	**13,5** (0.53)	**10** (0.39)	**50** (1.96)	**84100030**	**2,54** (5.6)
STBF112N	**NPTF 1-1/2**	**300** (79.2)					**147** (5.78)	**65** (2.56)					**3,17** (7)

POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

SAE	STB4 - STB6 - STB8

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

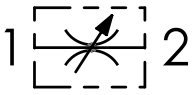
SAE	STB4S - STB12 - STB16 STB20 - STB24

CODICE ORDINAZIONE
ORDERING CODE

01	02
STB	

01	VALVOLE DI CONTROLLO FLUSSO BIDIREZIONALI (BIDIRECTIONAL FLOW CONTROL VALVES)		**STB**
02	DIMENSIONE (SIZE)	7/16-20UNF Small	**4S**
		7/16-20UNF	**4**
		9/16-18UNF	**6**
		3/4-16UNF	**8**
		1-1/16-12UN	**12**
		1-5/16-12UN	**16**
		1-5/8-12UN	**20**
		1-7/8-12UN	**24**

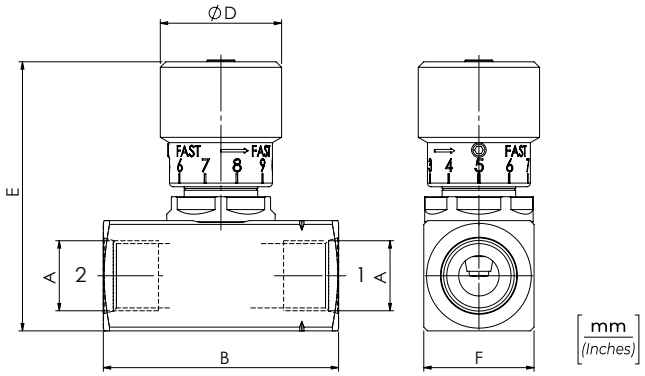
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



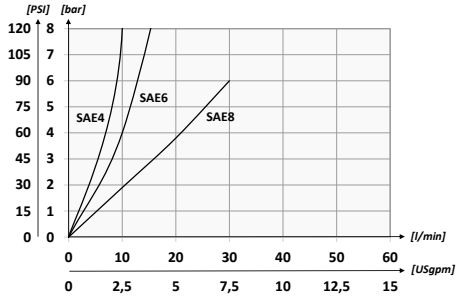
DATI TECNICI / TECHNICAL DATA

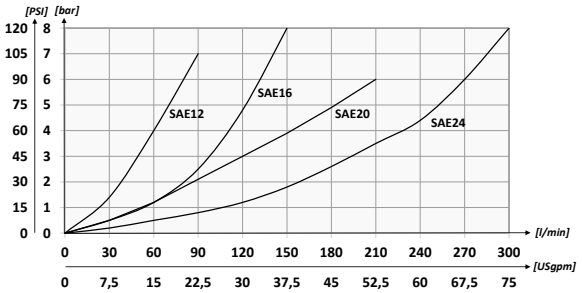
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	D	E	F	PESO APPROX (kg) APPROX WEIGHT (lbt)
STB4S	**7/16-20UNF**	**10** (2.6)	**400** (5800)	**54** (2.13)	**33** (1.30)	**68** (2.68)	**20** (0.79)	**0,21** (0.46)
STB4							**25** (0.98)	**0,32** (0.71)
STB6	**9/16-18UNF**	**15** (4)						**0,30** (0.66)
STB8	**3/4-16UNF**	**30** (7.9)		**64** (2.52)		**72** (2.83)	**30** (1.18)	**0,45** (0.99)
STB12	**1-1/16-12UN**	**80** (21.1)		**81** (3.19)	**42** (1.65)	**94** (3.70)	**40** (1.57)	**1** (2.2)
STB16	**1-5/16-12UN**	**150** (39.6)		**102** (4.02)		**99** (3.90)	**45** (1.77)	**1,35** (3)
STB20	**1-5/8-12UN**	**200** (52.8)	**350** (5075)		**53** (2.09)	**121,5** (4.78)	**55** (2.17)	**2,37** (5.21)
STB24	**1-7/8-12UN**	**300** (79.2)				**131,5** (5.17)	**65** (2.56)	**3** (6.6)

CODICE ORDINAZIONE
ORDERING CODE

01	02
STBF	

01	VALVOLE DI CONTROLLO FLUSSO BIDIREZIONALI (BIDIRECTIONAL FLOW CONTROL VALVES)		**STBF**
02	DIMENSIONE (SIZE)	7/16-20UNF Small	**4S**
		7/16-20UNF	**4**
		9/16-18UNF	**6**
		3/4-16UNF	**8**
		1-1/16-12UN	**12**
		1-5/16-12UN	**16**
		1-5/8-12UN	**20**
		1-7/8-12UN	**24**

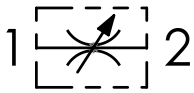
POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

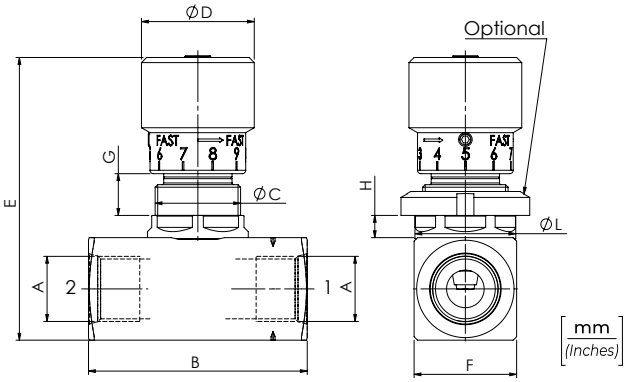
SAE	STBF4 - STBF6 - STBF8

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

SAE	STBF4S STBF12 - STBF16 STBF20 - STBF24

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



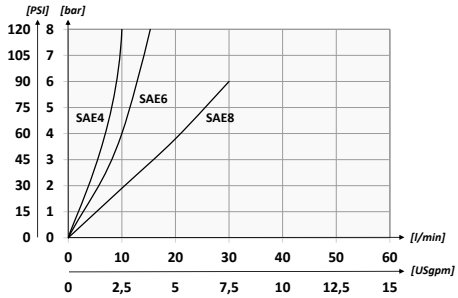


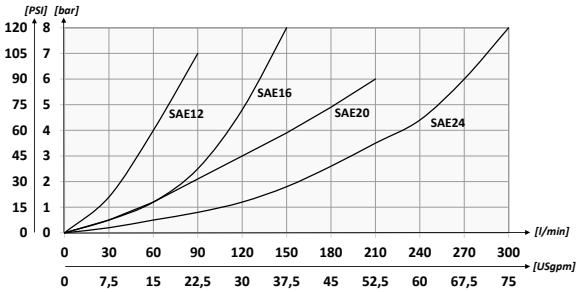
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

PERFORMANCES

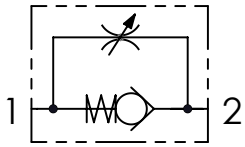




CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PRESSIONE MAX MAX PRESSURE bar-PSI	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	OPTIONAL TYPE	PESO APPROX (kg) APPROX WEIGHT (lbt)
STBF4S	**7/16-20UNF**	**10** (2.6)	**400** (5800)	**54** (2.13)	**M20x1**	**33** (1.30)	**75** (2.95)	**20** (0.79)	**7,5** (0.29)	**6** (0.24)	**24,5** (0.96)	**84100022**	**0,22** (0.48)
STBF4								**25** (0.98)					**0,34** (0.75)
STBF6	**9/16-18UNF**	**15** (4)											**0,32** (0.71)
STBF8	**3/4-16UNF**	**30** (7.9)		**64** (2.52)	**M25x1,5**		**81** (3.19)	**30** (1.18)	**9** (0.35)	**7** (0.28)	**29,5** (1.16)	**84100023**	**0,48** (1.05)
STBF12	**1-1/16-12UN**	**80** (21.1)		**81** (3.19)	**M35x1,5**	**42** (1.65)	**110** (4.33)	**40** (1.57)	**15,5** (0.61)	**8** (0.31)	**39,5** (1.55)	**84100024**	**1,1** (2.42)
STBF16	**1-5/16-12UN**	**150** (39.6)					**115** (4.53)	**45** (1.77)					**1,45** (3.2)
STBF20	**1-5/8-12UN**	**200** (52.8)	**350** (5075)	**102** (4.02)	**M45x1,5**	**53** (2.09)	**137** (5.39)	**55** (2.17)	**13,5** (0.53)	**10** (0.39)	**50** (1.96)	**84100030**	**2,45** (5.39)
STBF24	**1-7/8-12UN**	**300** (79.2)					**147** (5.78)	**65** (2.56)					**3,17** (7)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

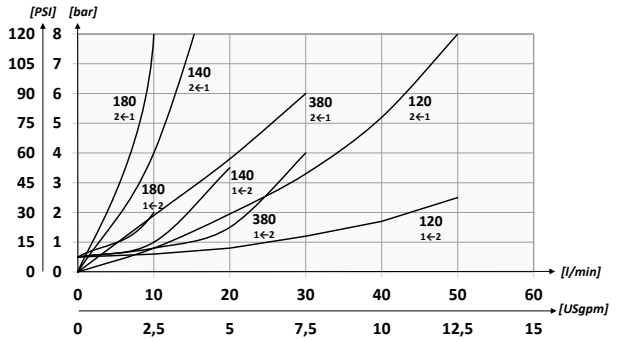


CODICE ORDINAZIONE / ORDERING CODE

01	02
SVU	

01	VALVOLE DI CONTROLLO FLUSSO UNIDIREZIONALI CON REGOLAZIONE ESAGONO AD INCASSATO (UNIDIRECTIONAL FLOW CONTROL VALVES WITH HEXAGON SOCKET SCREW ADJUSTMENT)		**SVU**
02	DIMENSION (SIZE)	BSPP 1/8	**180**
		BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**

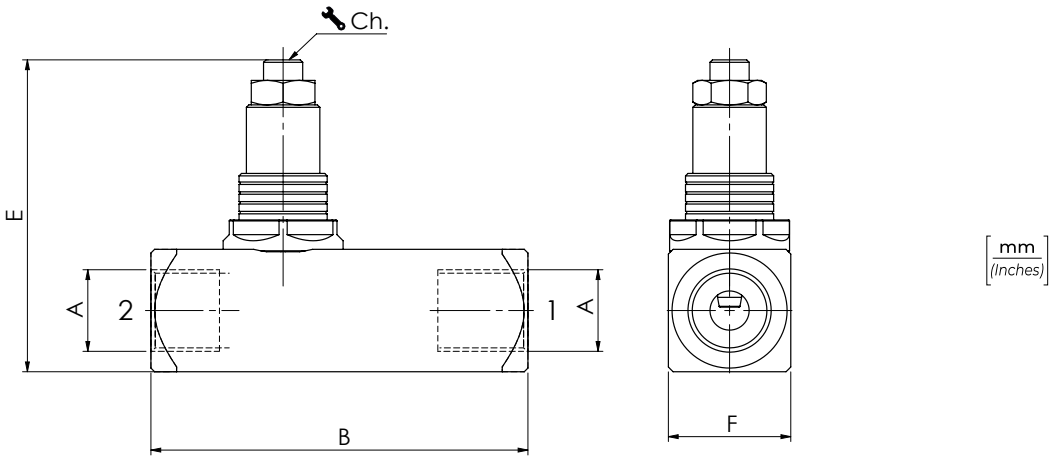
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

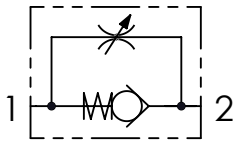
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	E	F	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
SVU180	**BSPP 1/8**	**10** (2.6)	**400** (5800)	**58** (2.28)	**53** (2.09)	**20** (0.79)	**3**	**0,19** (0.42)
SVU140	**BSPP 1/4**	**15** (4)		**66** (2.60)	**71,5** (2.81)	**25** (0.98)	**4**	**0,34** (0.75)
SVU380	**BSPP 3/8**	**30** (7.9)		**77** (3.03)				**0,36** (0.80)
SVU120	**BSPP 1/2**	**50** (13.2)		**91** (3.58)	**72** (2.83)	**30** (1.18)	**5**	**0,60** (1.3)

CODICE ORDINAZIONE / ORDERING CODE

01	02
SVU	

01	VALVOLE DI CONTROLLO FLUSSO UNIDIREZIONALI CON REGOLAZIONE ESAGONO AD INCASSATO (UNIDIRECTIONAL FLOW CONTROL VALVES WITH HEXAGON SOCKET SCREW ADJUSTMENT)		**SVU**
02	DIMENSIONE (SIZE)	NPTF 1/8	**180N**
		NPTF 1/4	**140N**
		NPTF 3/8	**380N**
		NPTF 1/2	**120N**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

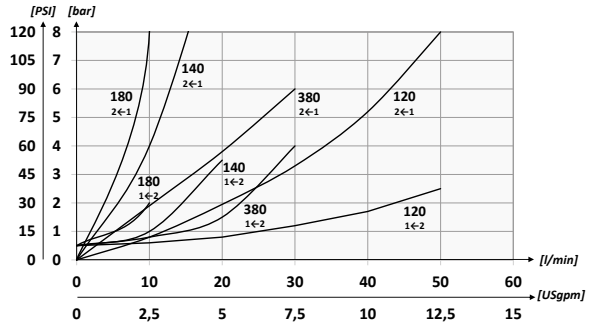


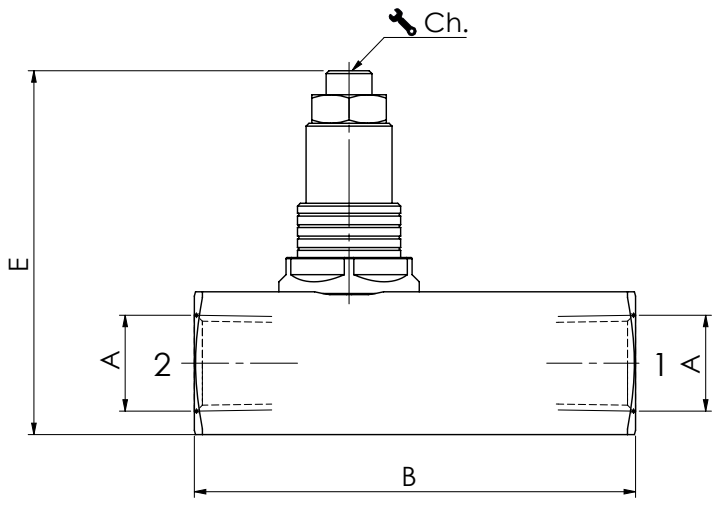
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

PERFORMANCES





mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

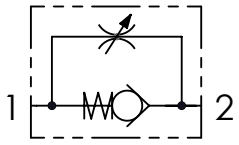
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	E	F	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
SVU180N	**NPTF 1/8**	**10** (2.6)	**400** (5800)	**58** (2.28)	**53** (2.08)	**20** (0.79)	**3**	**0,19** (0.42)
SVU140N	**NPTF 1/4**	**15** (4)		**66** (2.60)	**68** (2.68)	**25** (0.98)	**4**	**0,37** (0.75)
SVU380N	**NPTF 3/8**	**30** (7.9)		**77** (3.03)				**0,40** (0.9)
SVU120N	**NPTF 1/2**	**50** (13.2)		**91** (3.58)	**72** (2.83)	**30** (1.18)	**5**	**0,60** (1.3)

CODICE ORDINAZIONE / ORDERING CODE

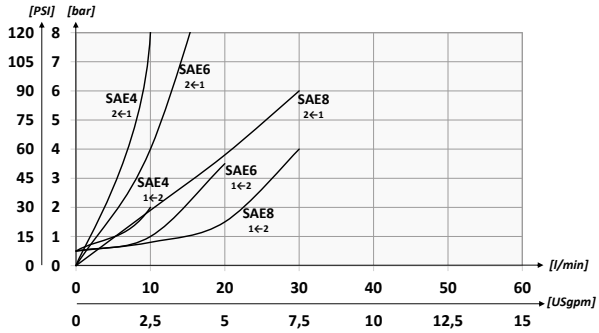
01	02
SVU	

01	VALVOLE DI CONTROLLO FLUSSO UNIDIREZIONALI CON REGOLAZIONE AD ESAGONO INCASSATO (UNIDIRECTIONAL FLOW CONTROL VALVES WITH HEXAGON SOCKET SCREW ADJUSTMENT)		**SVU**
02	DIMENSIONE (SIZE)	7/16-20UNF	**4**
		9/16-18UNF	**6**
		3/4-16UNF	**8**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



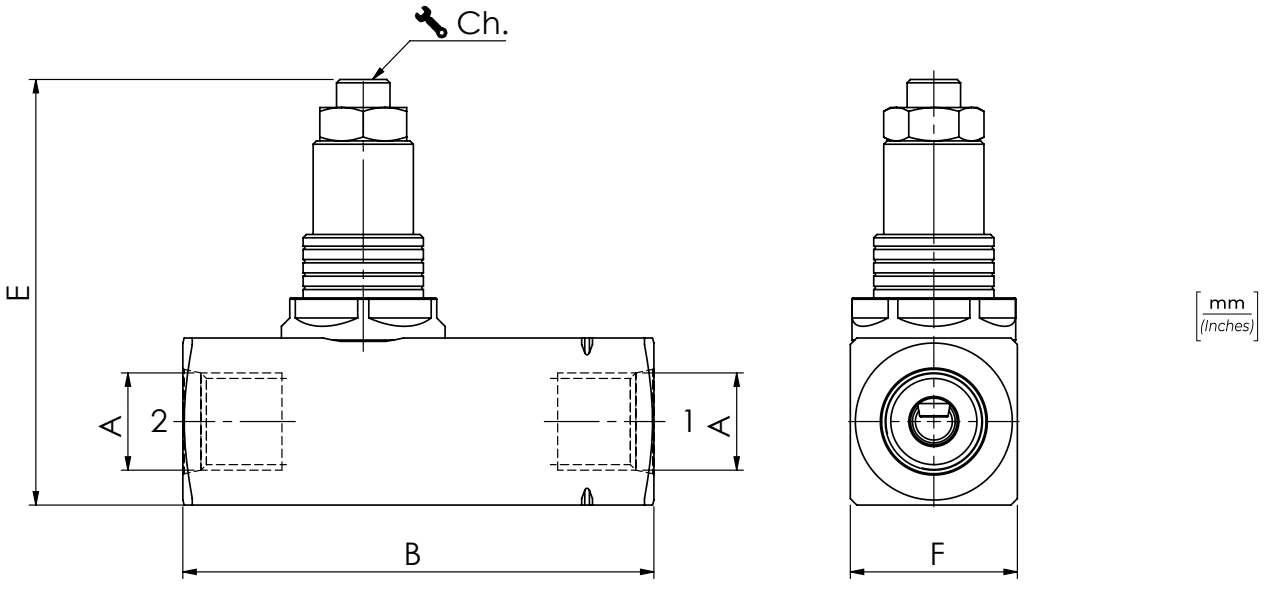
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

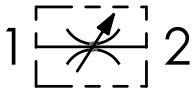
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	E	F	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
SVU4	**7/16-20UNF**	**10** (2.6)	**400** (5800)	**66** (2.60)	**68** (2.68)	**25** (0.98)	**4**	**0,39** (0.85)
SVU6	**9/16-18UNF**	**15** (4)		**70,5** (2.78)				**0,40** (0.9)
SVU8	**3/4-16UNF**	**30** (7.9)		**91** (3.58)	**72** (2.83)	**30** (1.18)	**5**	**0,60** (1.3)

CODICE ORDINAZIONE / ORDERING CODE

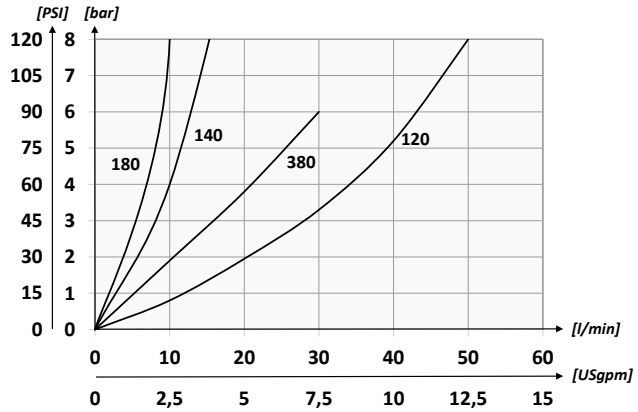
01	02
SVB	

01	VALVOLE DI CONTROLLO FLUSSO BIDIREZIONALI CON REGOLAZIONE AD ESAGONO INCASSATO (BIDIRECTIONAL FLOW CONTROL VALVES WITH HEXAGON SOCKET SCREW ADJUSTMENT)		**SVB**
02	DIMENSIONE (SIZE)	BSPP 1/8	**180**
		BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



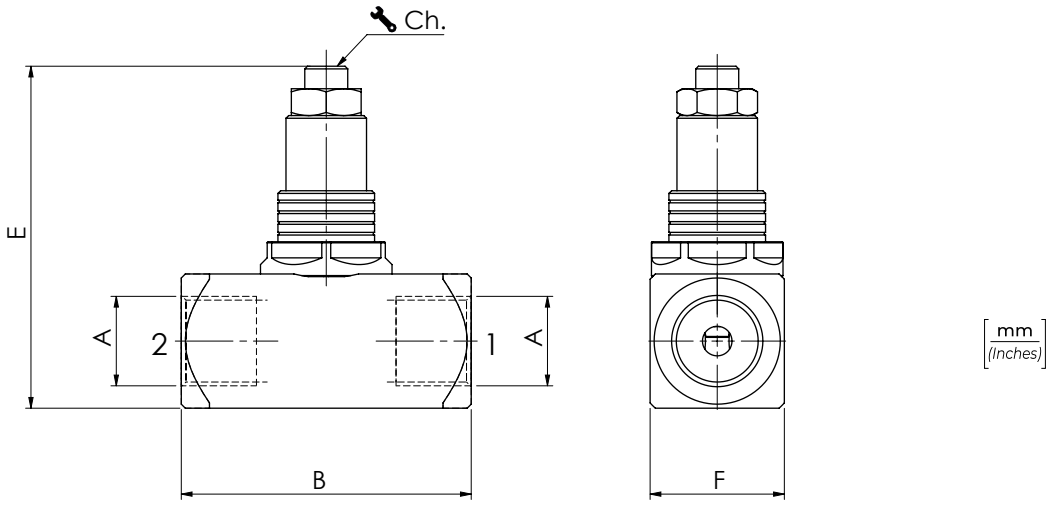
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

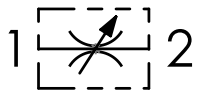
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	E	F	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
SVB180	**BSPP 1/8**	**10** (2.6)	**400** (5800)	**44** (1.73)	**53** (2.09)	**20** (0.79)	**3**	**0,15** (0.33)
SVB140	**BSPP 1/4**	**15** (4)		**54** (2.13)	**71,5** (2.81)	**25** (0.98)	**4**	**0,29** (0.70)
SVB380	**BSPP 3/8**	**30** (7.9)						**0,26** (0.57)
SVB120	**BSPP 1/2**	**50** (13.2)		**64** (2.52)	**72** (2.83)	**30** (1.18)	**5**	**0,45** (1)

CODICE ORDINAZIONE / ORDERING CODE

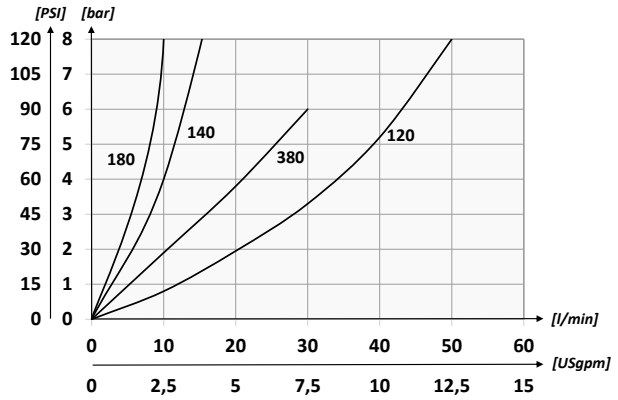
01	02
SVB	

01	VALVOLE DI CONTROLLO FLUSSO BIDIREZIONALI CON REGOLAZIONE ESAGONO AD INCASSATO (BIRECTIONAL FLOW CONTROL VALVES WITH HEXAGON SOCKET SCREW ADJUSTMENT)		**SVB**
02	DIMENSIONE (SIZE)	NPTF 1/8	**180N**
		NPTF 1/4	**140N**
		NPTF 3/8	**380N**
		NPTF 1/2	**120N**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



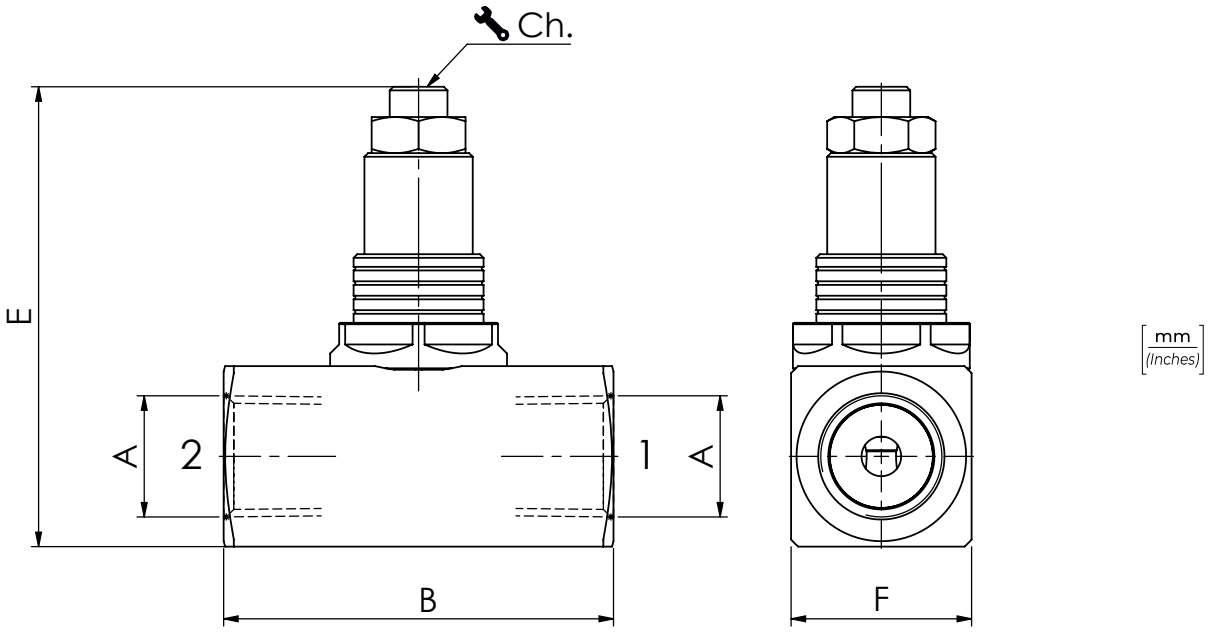
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

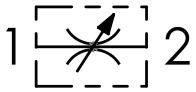
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	E	F	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
SVB180N	**NPTF 1/8**	**10** (2.6)	**400** (5800)	**44** (1.73)	**53** (2.09)	**20** (0.79)	**3**	**0,15** (0.33)
SVB140N	**NPTF 1/4**	**15** (4)		**54** (2.13)	**68** (2.68)	**25** (0.98)	**4**	**0,32** (0.71)
SVB380N	**NPTF 3/8**	**30** (7.9)						**0,30** (0.66)
SVB120N	**NPTF 1/2**	**50** (13.2)		**64** (2.52)	**72** (2.83)	**30** (1.18)	**5**	**0,47** (1.03)

CODICE ORDINAZIONE / ORDERING CODE

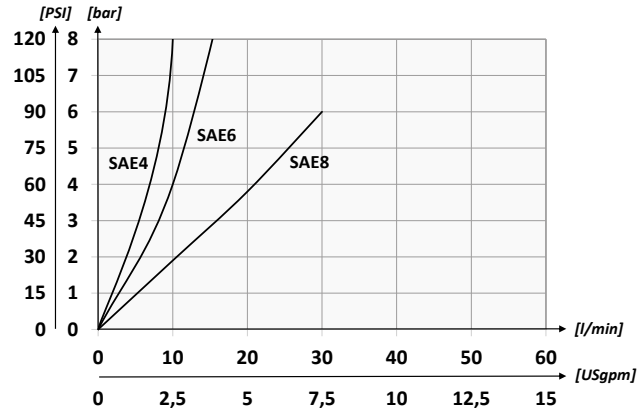
01	02
SVB	

01	VALVOLE DI CONTROLLO FLUSSO BIDIREZIONALI CON REGOLAZIONE AD ESAGONO INCASSATO (BIDIRECTIONAL FLOW CONTROL VALVES WITH HEXAGON SOCKET SCREW ADJUSTMENT)		**SVB**
02	DIMENSIONE (SIZE)	7/16-20UNF	**4**
		9/16-18UNF	**6**
		3/4-16UNF	**8**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



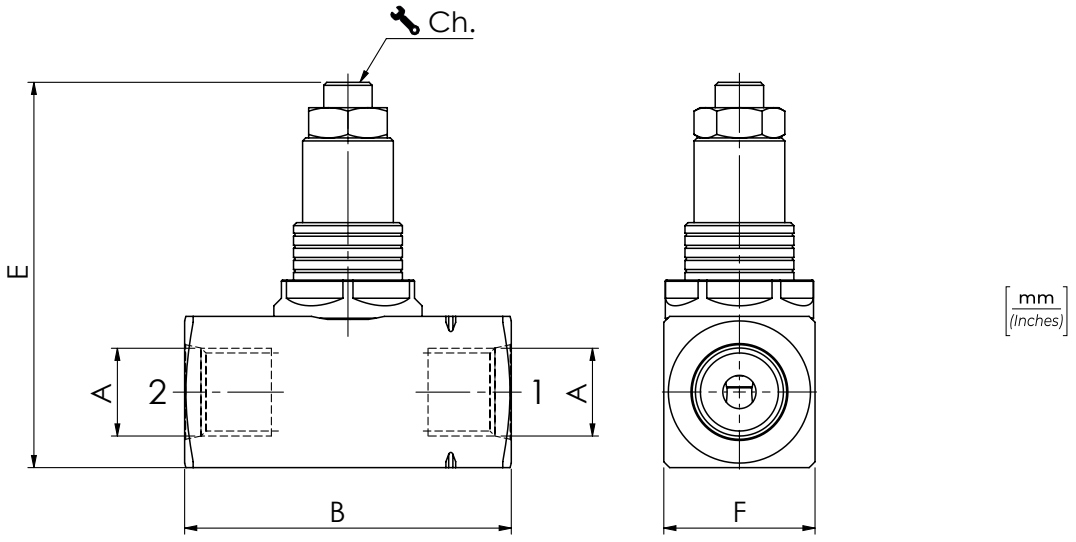
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

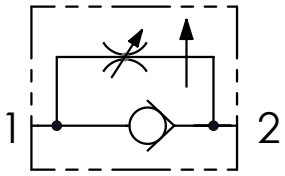
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	E	F	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
SVB4	**7/16-20UNF**	**10** (2.6)	**400** (5800)	**54** (2.13)	**68** (2.68)	**25** (0.98)	**4**	**0,32** (0.71)
SVB6	**9/16-18UNF**	**15** (4)						**0,30** (0.66)
SVB8	**3/4-16UNF**	**30** (7.9)		**64** (2.52)	**72** (2.83)	**30** (1.18)	**5**	**0,45** (0.99)

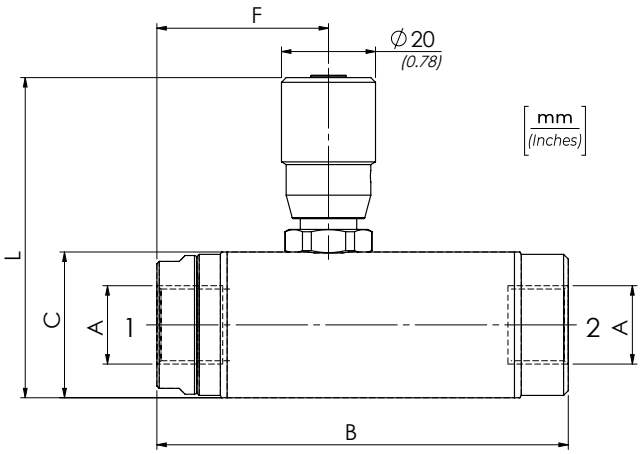
CODICE ORDINAZIONE / ORDERING CODE

01	02
VRC	

01	VALVOLE DI CONTROLLO FLUSSO 2 VIE COMPENSATE (2 WAYS FLOW CONTROL VALVES - PRESSURE COMPENSATED)		**VRC**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



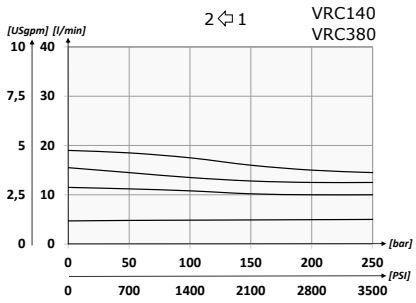


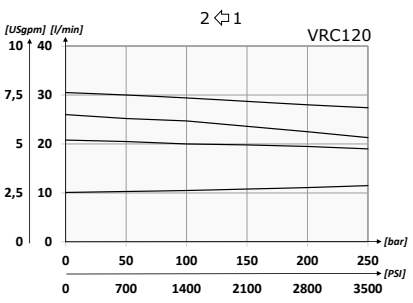
DATI TECNICI / TECHNICAL DATA

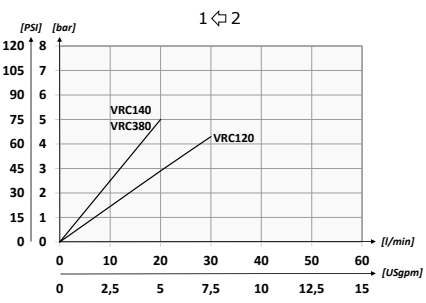
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

PERFORMANCES







CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

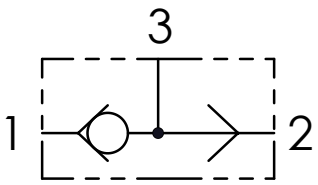
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	F	L	PESO APPROX (kg) APPROX WEIGHT (lbt)
VRC140	**BSPP 1/4**	**10** (2.6)	**250** (3625)	**87,5** (3.44)	**31** (1.22)	**36,5** (1,44)	**68** (2.68)	**0,51** (1.12)
VRC380	**BSPP 3/8**	**18** (4.8)						**0,50** (1.10)
VRC120	**BSPP 1/2**	**33** (8.7)		**107,5** (4.31)	**36** (1.42)	**46** (1.81)	**73** (2.87)	**0,76** (1.67)

CODICE ORDINAZIONE / ORDERING CODE

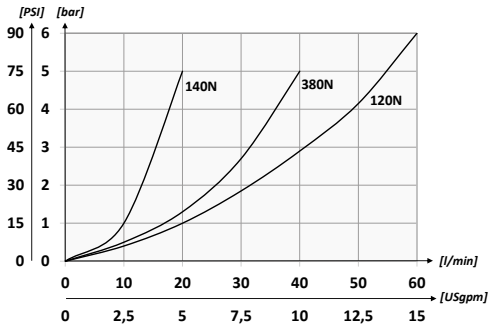
01	02
VUSF	

01	VALVOLE SELETTRICI (LOAD SHUTTLE VALVES)		**VUSF**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140N**
		BSPP 3/8	**380N**
		BSPP 1/2	**120N**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



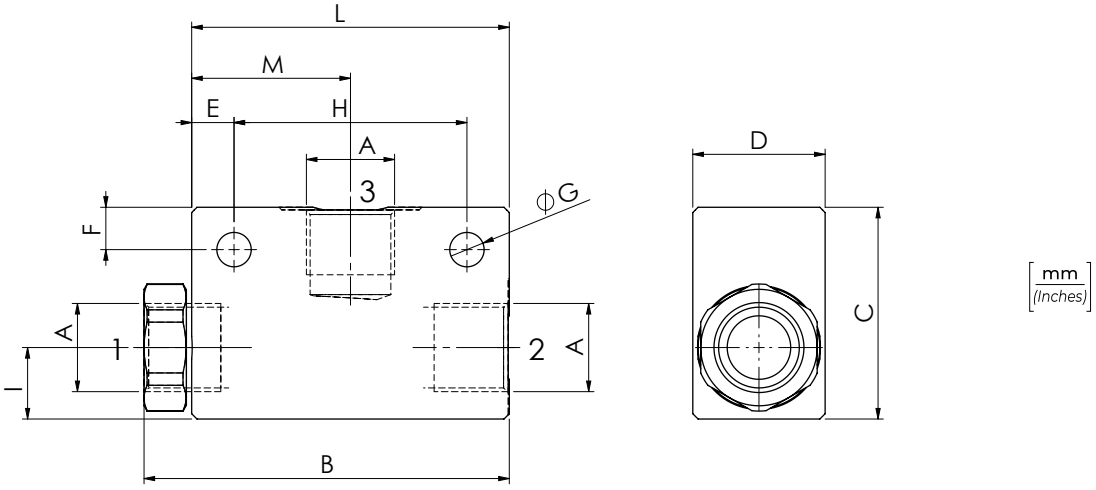
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

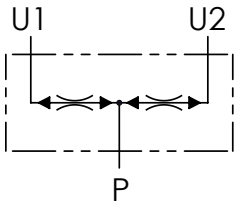
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	M	PESO APPROX APPROX WEIGHT kg-lbt
VUSF140N	**BSPP 1/4**	**20** (5.3)	**350** (5075)	**57,3** (2.26)	**35** (1.38)	**25** (0.98)	**9** (0.35)	**8** (0.31)	**6,5** (0.26)	**34** (1.34)	**12** (0.47)	**52** (2.05)	**24,5** (0.96)	**0,29** (0.65)
VUSF380N	**BSPP 3/8**	**40** (10.6)		**69** (2.72)	**40** (1.57)		**8** (0.31)			**44** (1.73)	**13,5** (0.53)	**60** (2.36)	**30** (1.18)	**0,37** (0.81)
VUSF120N	**BSPP 1/2**	**60** (15.8)		**73,8** (2.90)	**50** (1.97)	**35** (1.38)	**10** (0.39)	**10** (0.39)	**8,5** (0.33)	**45** (1.79)	**18** (0.71)	**65** (2.56)		**0,71** (1.56)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
DRF10			

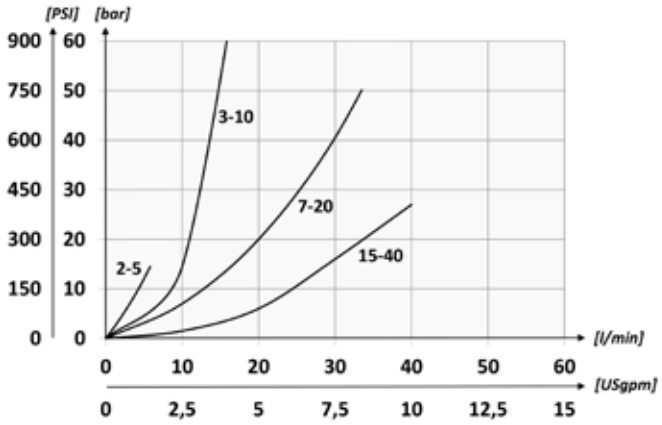
01	VALVOLA DIVISORE/RIUNIFICATORE DI FLUSSO (FLOW DIVIDER/COMBINER VALVES)		**DRF10**
02	CAMPO DI PORTATA IN INGRESSO (L/MIN) INLET FLOW RANGE (USGPM)	**2-5** (0.5-1.3)	**1**
		3-10 (0.8-2.6)	**2**
		7-20 (1.8-5.2)	**3**
		15-40 (3.9-10.4)	**4**
03	CONNESSIONE P (PORT P)	BSPP 3/8	**380**
		BSPP 1/2	**120**
04	CONNESSIONE U1/U2 (PORT U1/U2)	BSPP 3/8	**380**
		BSPP 1/2	**120**

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

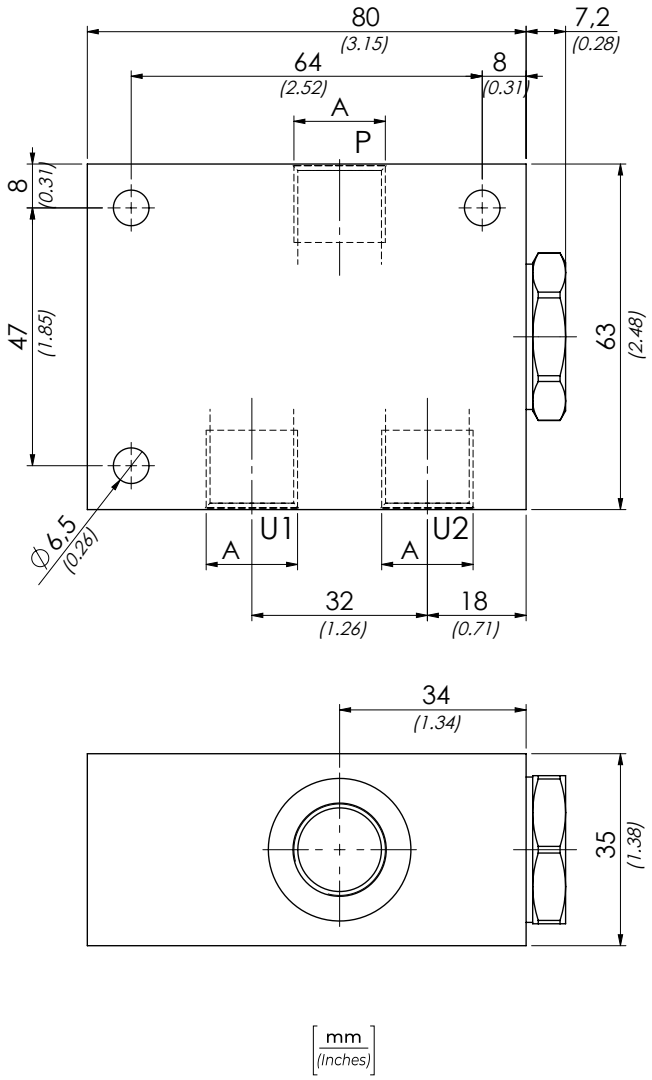
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

PERFORMANCES



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
DRF10	**40** (10.6)	**250** (3625)	**0,52** (1.14)



CODICE ORDINAZIONE / ORDERING CODE

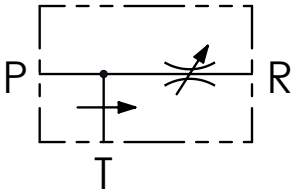
01	02	03
VPT		V

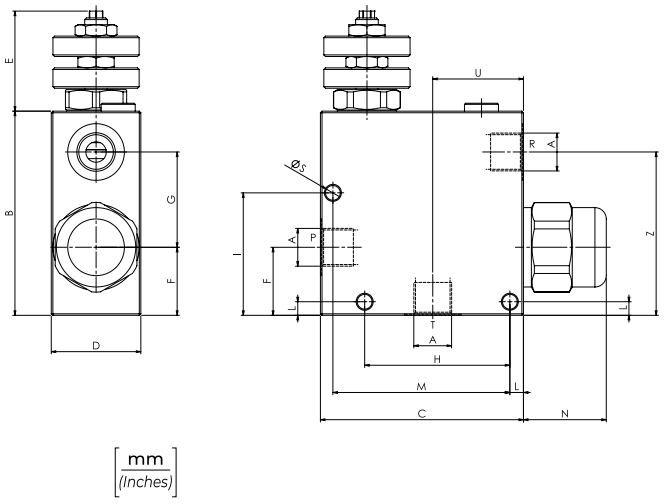
01	REGOLATORI DI FLUSSO 3 VIE - COMPENSATI, CON ECCEDENZA IN SCARICO (3 WAYS FLOW CONTROL VALVES - PRESSURE COMPENSATED, EXCEEDING FLOW TO TANK)		**VPT**
02	DIMENSIONE (SIZE)	BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
03	REGOLAZIONE (SETTING)	Volantino (Hand wheel)	**V**

PORTATA MASSIMA L/MIN - MAX FLOW USGPM

50 L/MIN CON 30 L/MIN IN R (13,3 USGPM WITH 8 USGPM IN R)	**380**
80 L/MIN CON 50 L/MIN IN R (21,3 USGPM WITH 13,3 USGPM IN R)	**120**
150 L/MIN CON 80 L/MIN IN R (40 USGPM WITH 21,3 USGPM IN R)	**340**
240 L/MIN CON 150 L/MIN IN R (64 USGPM WITH 40 USGPM IN R)	**100**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



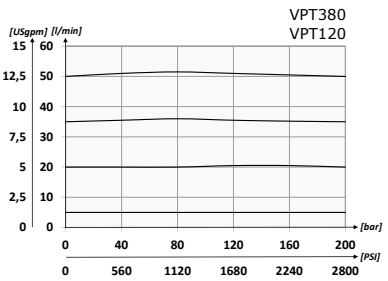


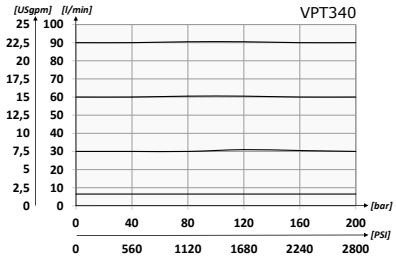
DATI TECNICI / TECHNICAL DATA

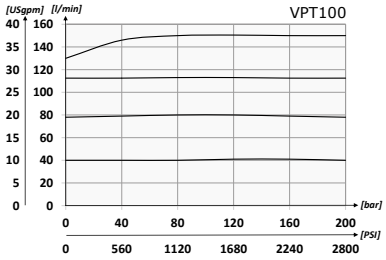
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

PERFORMANCES







CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

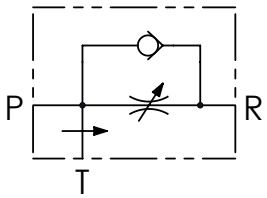
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	M	N	S	U	Z	PESO APPROX (kg) APPROX WEIGHT (lbt)
VPT380	**BSPP 3/8**	**50** (13.2)	**250** (3625)	**90** (3.54)	**89,5** (35.24)	**39,5** (15.55)	**47,5** (1.87)	**30** (1.18)	**42** (1.65)	**64** (2.52)	**54** (2.13)	**6** (0.24)	**78** (3.07)	**36,5** (1.44)	**6,5** (0.26)	**40** (1.57)	/	**1,39** (3.06)
VPT120	**BSPP 1/2**	**90** (23.8)																**1,37** (3.02)
VPT340	**BSPP 3/4**	**150** (39.6)		**110** (4.33)	**110** (4.33)	**50** (1.97)	**49,5** (1.95)	**35** (1.38)	**50** (1.97)	**88** (3.46)	**63,5** (2.50)	**8,5** (0.33)	**100** (3.70)	**34,7** (1.37)	**8,5** (0.33)	**44** (1.73)	/	**1,94** (4.28)
VPT100	**BSPP 1**	**240** (63.4)					**52,5** (2.07)	**47** (1.85)	/		/	**10** (0.39)	/	**36,5** (1.44)		**44** (1.73)	**87** (3.45)	**2,05** (4.52)

CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
VPT		V	AR

01	REGOLATORI DI FLUSSO 3 VIE - COMPENSATI, CON ECCEDENZA N SCARICO E VALVOLA DI RITEGNO PER FLUSSO INVERSO 3 WAYS FLOW CONTROL VALVES - PRESSURE COMPENSATED, EXCEEDING FLOW TO TANK AND CHECK VALVE FOR FREE REVERSE FLOW		**VPT**
02	DIMENSIONE (SIZE)	BSPP 3/8	**380**
		BSPP 1/2	**120**
03	REGOLAZIONE (SETTING)	Volantino (Hand wheel)	**V**
04	Con valvola di ritegno per flusso inverso (check valve for free reverse flow)		**AR**

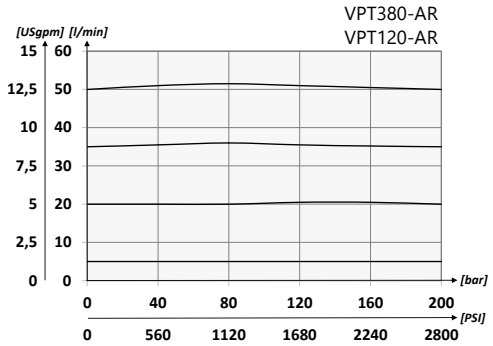
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PORTATA MASSIMA L/MIN - MAX FLOW USGPM

50 L/MIN CON 30 L/MIN IN R (13,3 USGPM WITH 8 USGPM IN R)	**380**
80 L/MIN CON 50 L/MIN IN R (21,3 USGPM WITH 13,3 USGPM IN R)	**120**

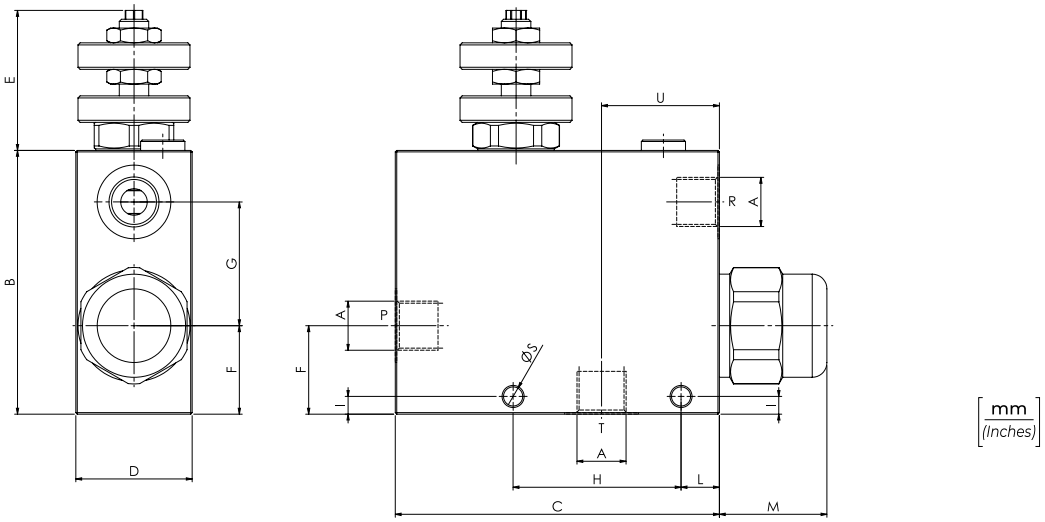
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

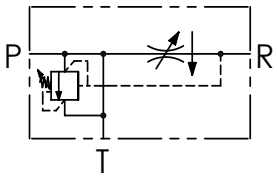
CODICE CODE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	M	S	U	PESO APPROX APPROX WEIGHT kg-lbt
VPT380-AR	**BSPP 3/8**	**50** (13.2)	**250** (3625)	**89,5** (3.52)	**110** (4.33)	**39,5** (15.55)	**47,5** (1.87)	**30** (1.18)	**42** (1.65)	**57** (2.24)	**6** (0.24)	**13** (0.50)	**36,5** (1.44)	**6,5** (0.26)	**40** (1.57)	**1,60** (3.52)
VPT120-AR	**BSPP 1/2**	**90** (23.8)														**1,61** (3.54)

CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
VPT		V	RV

01	REGOLATORI DI FLUSSO 3 VIE - COMPENSATI, CON ECCEDENZA IN SCARICO (3 WAYS FLOW CONTROL VALVES - PRESSURE COMPENSATED, EXCEEDING FLOW TO TANK AND RELIEF VALVE)		VPT
02	DIMENSIONE (SIZE)	BSPP 3/8	380
		BSPP 1/2	120
		BSPP 3/4	340
03	REGOLAZIONE (SETTING)	Volantino (Hand wheel)	V
04	Valvola di massima - Relief valve (10/250 bar - 145/3625 PSI)		RV

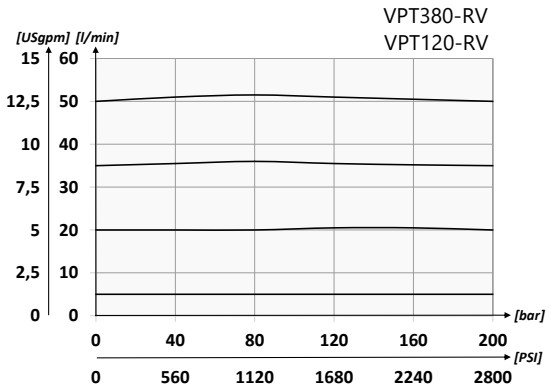
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

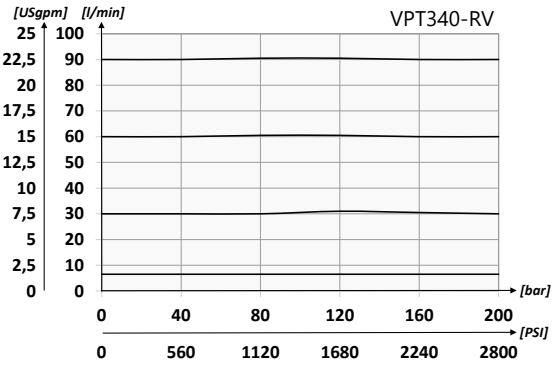


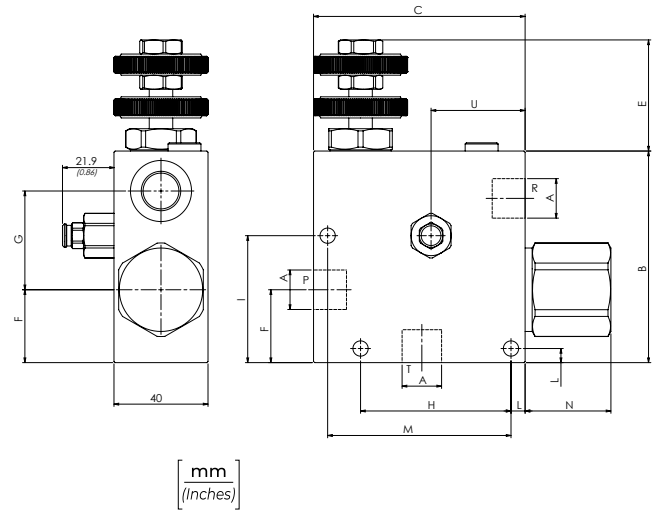
PORTATA MASSIMA L/MIN - MAX FLOW USGPM

50 L/MIN CON 30 L/MIN IN R (13,3 USGPM WITH 8 USGPM IN R)	380
80 L/MIN CON 50 L/MIN IN R (21,3 USGPM WITH 13,3 USGPM IN R)	120
150 L/MIN CON 80 L/MIN IN R (40 USGPM WITH 21,3 USGPM IN R)	340

PERFORMANCES







DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

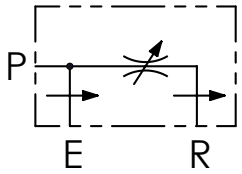
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	M	N	S	U	PESO APPROX (kg) APPROX WEIGHT (lbt)
VPT380-RV	BSPP 3/8	50 (13.2)	250 (3625)	90 (3.54)	90 (3.54)	40 (1.57)	47,5 (1.87)	31 (1.22)	42 (1.65)	64 (2.52)	54 (2.13)	6 (0.24)	78 (3.07)	36,5 (1.44)	6,5 (0.26)	40 (1.57)	1,15 (2.54)
VPT120-RV	BSPP 1/2	90 (23.8)															
VPT340-RV	BSPP 3/4	150 (39.6)		110 (4.33)	110 (4.33)	50 (1.97)	49,5 (1.95)	35 (1.38)	50 (1.97)	88 (3.46)	63,5 (2.50)	8 (0.31)	94 (3.70)	34,7 (1.37)	8,5 (0.33)	44 (1.73)	1,94 (4.28)

CODICE ORDINAZIONE / ORDERING CODE

01	02	03
VPP		V

01	REGOLATORI DI FLUSSO 3 VIE - COMPENSATI, CON ECCEDENZA IN PRESSIONE (3 WAYS FLOW CONTROL VALVES - PRESSURE COMPENSATED, EXCEEDING FLOW TO PRESSURE)		**VPP**
02	DIMENSIONE (SIZE)	BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
03	REGOLAZIONE (SETTING)	Volantino (Hand wheel)	**V**

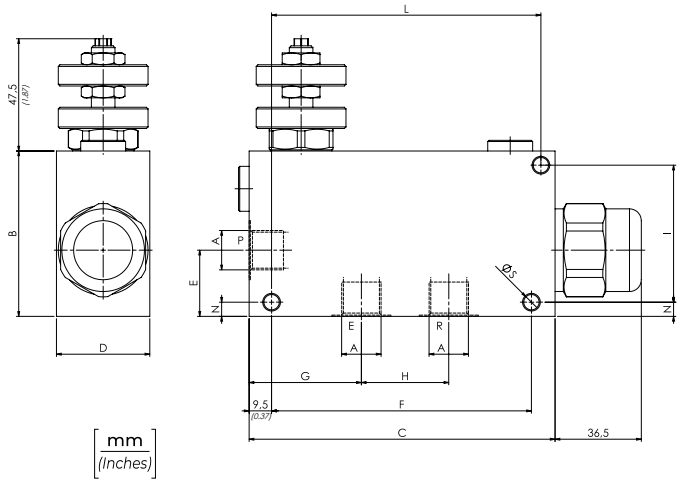
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

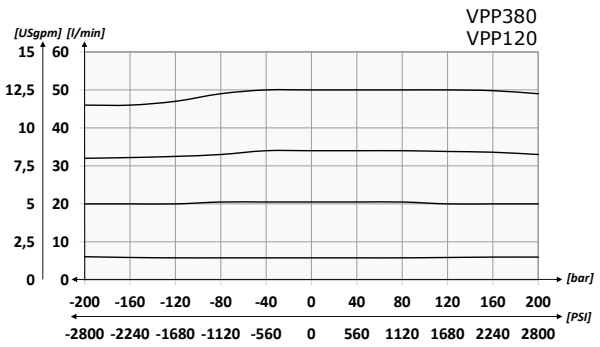
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

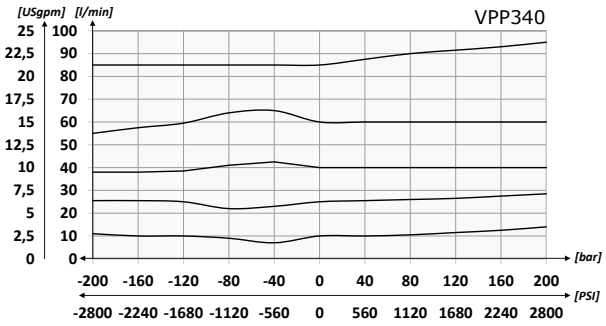


PORTATA MASSIMA L/MIN - MAX FLOW USGPM

50 L/MIN CON 30 L/MIN IN R (13,3 USGPM WITH 8 USGPM IN R)	**380**
90 L/MIN CON 50 L/MIN IN R (24 USGPM WITH 13,3 USGPM IN R)	**120**
150 L/MIN CON 80 L/MIN IN R (40 USGPM WITH 21,3 USGPM IN R)	**340**

PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	N	S	PESO APPROX (kg) APPROX WEIGHT (lbt)
VPP380	**BSPP 3/8**	**50** (13.2)	**250** (3625)	**70** (2.76)	**129,5** (50.98)	**39,5** (15.55)	**28** (1.10)	**110** (4.33)	**47** (18.70)	**37** (1.46)	**58** (2.28)	**114** (4.49)	**6** (0.24)	**6,5** (0.26)	**1,54** (3.39)
VPP120	**BSPP 1/2**	**90** (23.8)													**1,52** (3.35)
VPP340	**BSPP 3/4**	**150** (39.6)		**90** (3.54)	**155** (6.10)	**50** (1.97)	**35** (1.38)	/	**57** (2.24)	**44** (1.73)	**74** (2.91)	**135** (5.31)	**8** (0.31)	**8,5** (0.33)	**2,48** (5.46)

Aggiornamento - Update 20V-2020

CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04	05	06	07
VPP		V	RV			

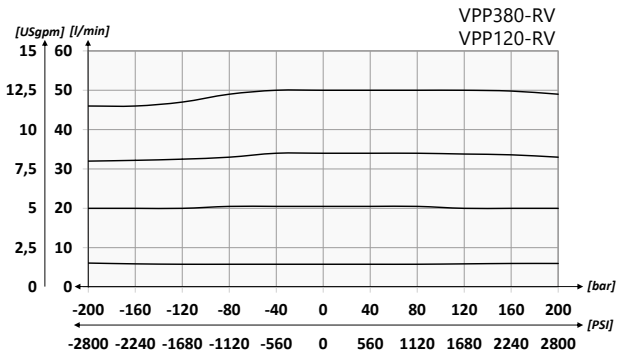
01	REGOLATORI DI FLUSSO 3 VIE - COMPENSATI, CON ECCEDENZA IN PRESSIONE, VALVOLA DI MASSIMA E VALVOLA ELETTRICA DI MESSA A SCARICO 3 WAYS FLOW CONTROL VALVES - PRESSURE COMPENSATED, EXCEEDING FLOW TO PRESSURE, RELIEF VALVE AND ELECTRICAL UNLOADER VALVE		**VPP**
02	DIMENSIONE (SIZE)	BSPP 3/8	**380**
		BSPP 1/2	**120**
03	REGOLAZIONE (SETTING)	Volantino (Hand wheel)	**V**
04	Valvola di massima (Relief valve)		**RV**
05	VALVOLA DI MASSIMA (RELIEF VALVE) **V MAX**	Tappo (Plug)	**0**
		VMD1NC1 Molla (Spring) **10/40 bar** (145/580PSI)	**1**
		VMD1NC2 Molla (Spring) **20/110 bar** (290/1595 PSI)	**2**
		VMD1NC3 Molla (Spring) **30/210 bar** (435/3045 PSI)	**3**
		VMD1NC4 Molla (Spring) **40/350 bar** (580/5075 PSI)	**4**
06	VALVOLA ELETTRICA (ELECTRICAL VALVE) **EV**	Tappo (Plug)	**0**
		EVC7 (Normally closed)	**C**
		EVA7 (Normally open)	**A**
		EVE7 (Normally closed + Emergency)	**E**
07	BOBINA (COIL) **EV**	Senza bobina (Without coil)	
		12 V (DC)	**12**
		24 V (DC)	**24**
		220 V (RAC)	**220**

DATI TECNICI / TECHNICAL DATA

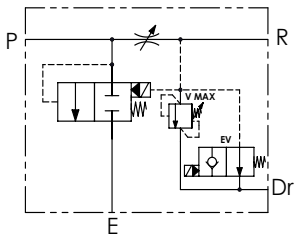
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

PERFORMANCES

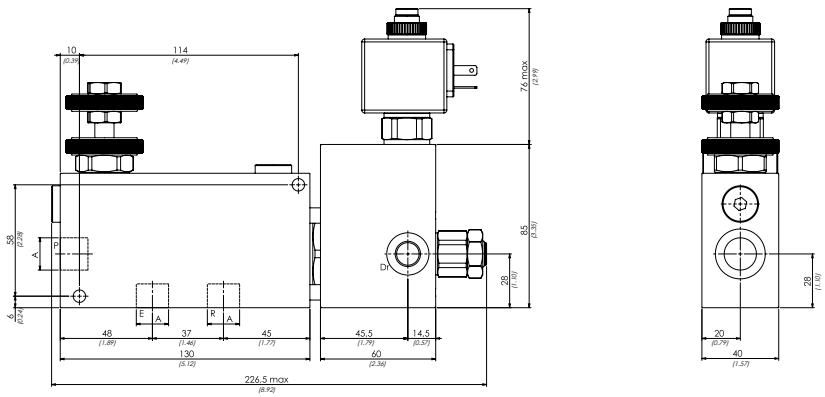


SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PORTATA MASSIMA L/MIN - MAX FLOW USGPM

50 L/MIN CON 30 L/MIN IN R (13,3 USGPM WITH 8 USGPM IN R)	**380**
90 L/MIN CON 50 L/MIN IN R (24 USGPM WITH 13,3 USGPM IN R)	**120**



mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

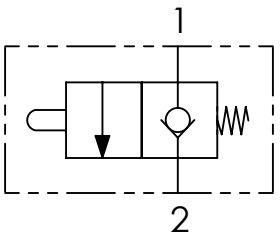
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX SENZA VALVOLE (kg) APPROX WEIGHT WITHOUT VALVES (lb)
VPP380-RV	**BSPP 3/8**	**50** (13.2)	**250** (3625)	**2,25** (4.97)
VPP120-RV	**BSPP 1/2**	**90** (23.8)		

CODICE ORDINAZIONE
ORDERING CODE

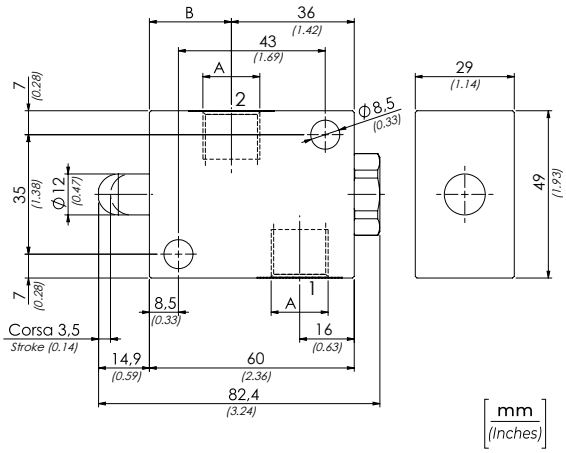
01	02
FCM	

01	VALVOLE DI FINE CORSA NORMALMENTE CHIUSE (NORMALLY CLOSED END - STROKE VALVES)		**FCM**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140N**
		BSPP 3/8	**380N**
		BSPP 1/2	**120N**

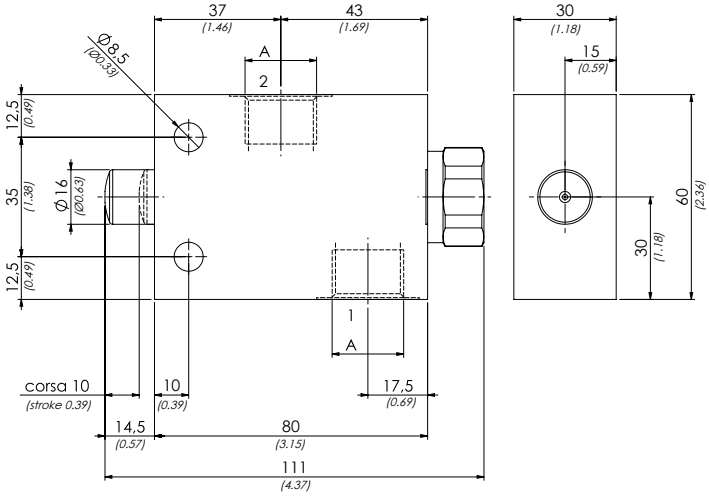
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



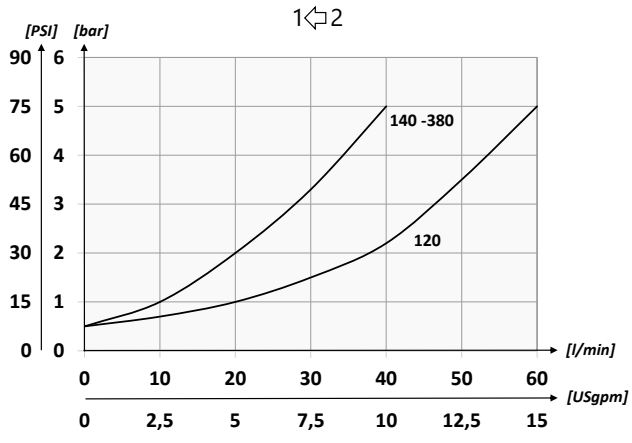
FCM140N - FCM380N



FCM120N



PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

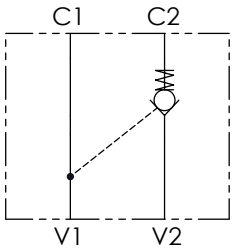
TIPO TYPE	A	B	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
FCM140N	**BSPP 1/4**	**26,5** (1.04)	**40** (10.6)	**350** (5075)	**0,53** (1.16)
FCM380N	**BSPP 3/8**	**24** (0.94)			**0,50** (1.10)
FCM120N	**BSPP 1/2**	**/**	**60** (15.8)	**300** (4350)	**1,01** (2.22)

CODICE ORDINAZIONE / ORDERING CODE

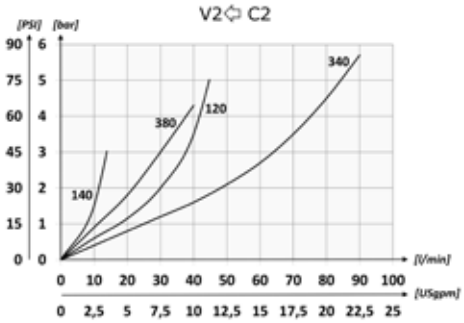
01	02
VRSE	

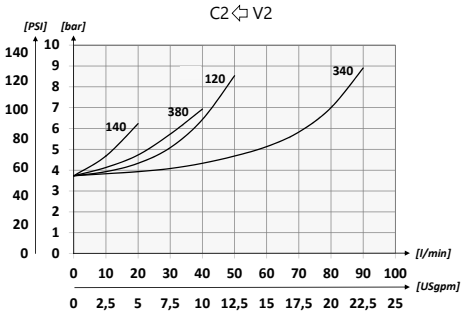
01	VALVOLE DI BLOCCO A SEMPLICE EFFETTO (SINGLE ACTING PILOT CHECK VALVES)		**VRSE**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



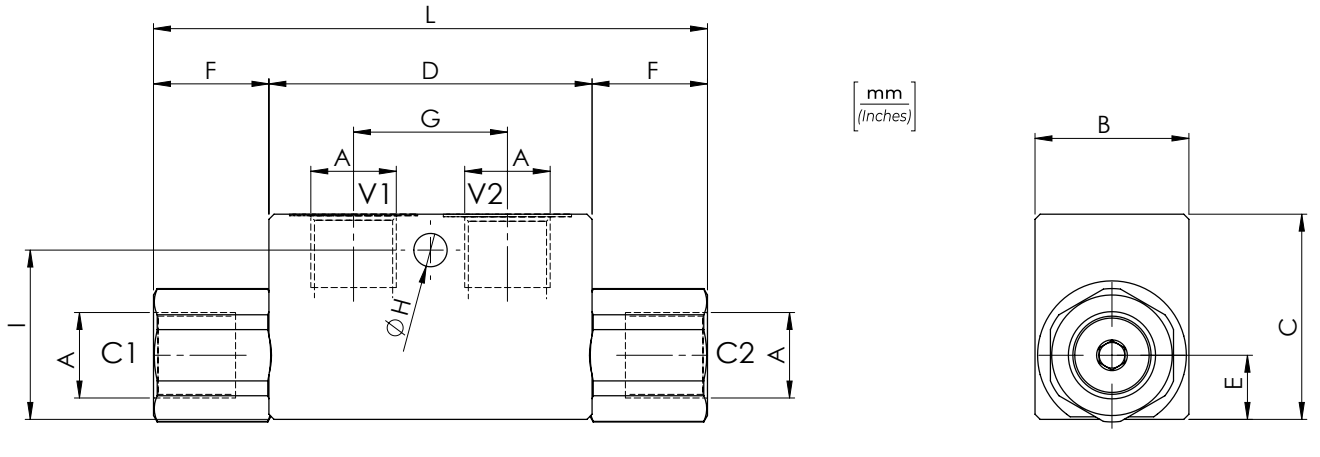
PERFORMANCES





DATI TECNICI / TECHNICAL DATA

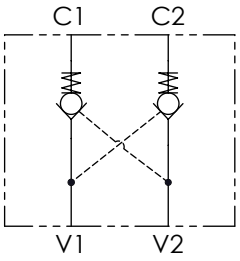
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	PESO APPROX APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRSE140	**BSPP 1/4**	**15** (4)	**350** (5075)	**30** (1.18)	**40** (1.57)	**63** (2.48)	**12,5** (0.49)	**22,5** (0.89)	**30** (1.18)	**6,5** (0.26)	**33** (1.30)	**108** (4.25)	**0,64** (1.41)	**1:4**
VRSE380	**BSPP 3/8**	**35** (9.2)											**0,59** (1.30)	
VRSE120	**BSPP 1/2**	**45** (11.9)		**35** (1.38)	**50** (1.97)	**82** (3.23)	**16,5** (0.65)	**31,5** (1.24)	**36** (1.42)		**35** (1.38)	**145** (5.71)	**1,08** (2.38)	
VRSE340	**BSPP 3/4**	**70** (18.5)		**40** (1.57)	**60** (2.36)	**100** (3.94)	**22,5** (0.89)	**46** (1.81)	**50** (1.97)	**8,5** (0.33)	**50** (1.97)	**192** (7.56)	**2** (4.41)	**1:2.9**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

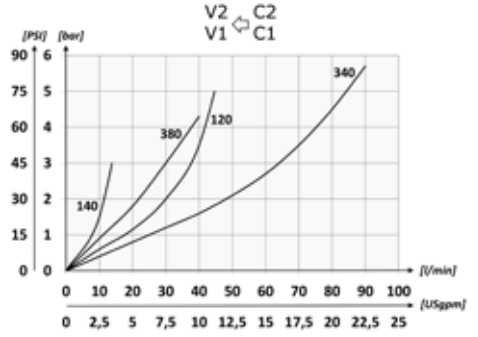


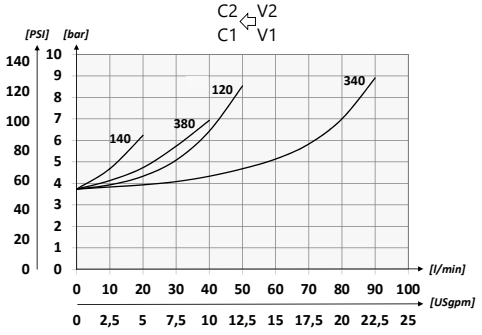
CODICE ORDINAZIONE
ORDERING CODE

01	02
VRDE	

01	VALVOLE DI BLOCCO A DOPPIO EFFETTO (DOUBLE ACTING PILOT CHECK VALVES)		**VRDE**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**

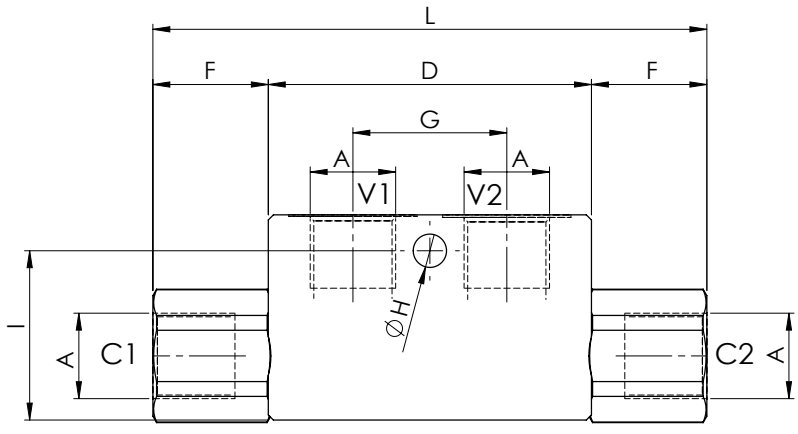
PERFORMANCES



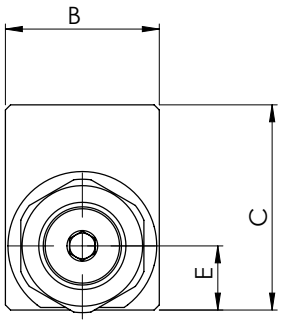


DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



[mm / (Inches)]



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

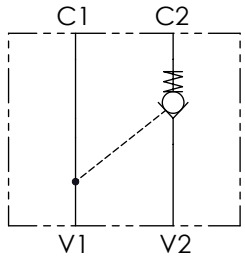
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	PESO APPROX APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRDE140	**BSPP 1/4**	**15** (4)	**350** (5075)	**30** (1.18)	**40** (1.57)	**63** (2.48)	**12,5** (0.49)	**22,5** (0.89)	**30** (1.18)	**6,5** (0.26)	**33** (1.30)	**108** (4.25)	**0,64** (1.41)	**1:4**
VRDE380	**BSPP 3/8**	**35** (9.2)											**0,60** (1.32)	
VRDE120	**BSPP 1/2**	**45** (11.9)		**35** (1.38)	**50** (1.97)	**82** (3.23)	**16,5** (0.65)	**31,5** (1.24)	**36** (1.42)		**35** (1.38)	**145** (5.71)	**1,10** (2.42)	
VRDE340	**BSPP 3/4**	**70** (18.5)		**40** (1.57)	**60** (2.36)	**100** (3.94)	**22,5** (0.89)	**46** (1.81)	**50** (1.97)	**8,5** (0.33)	**50** (1.97)	**192** (7.56)	**2** (4.40)	**1:2.9**

CODICE ORDINAZIONE / ORDERING CODE

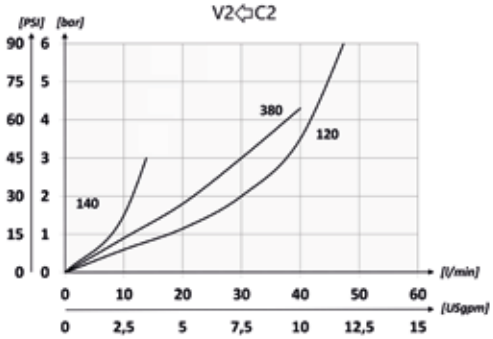
01	02	03
VRSD		

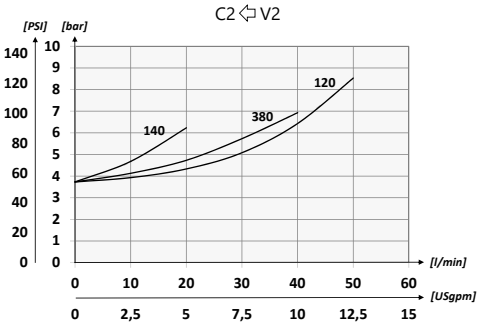
01	VALVOLE DI BLOCCO A SEMPLICE EFFETTO DIN2353 (DIN2353 SINGLE ACTING PILOT CHECK VALVES)		**VRSD**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
03	DIMENSIONE TUBO (SIZE PIPE)	Per **tubo Ø 8** - For Ø 8 pipe only for **BSPP 1/4**	**T8**
		Per **tubo Ø 12** - For Ø 12 pipe standard only for **BSPP 1/4 and 3/8**	
		Per **tubo Ø 15** - For Ø 15 pipe standard only for **BSPP 1/2**	

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



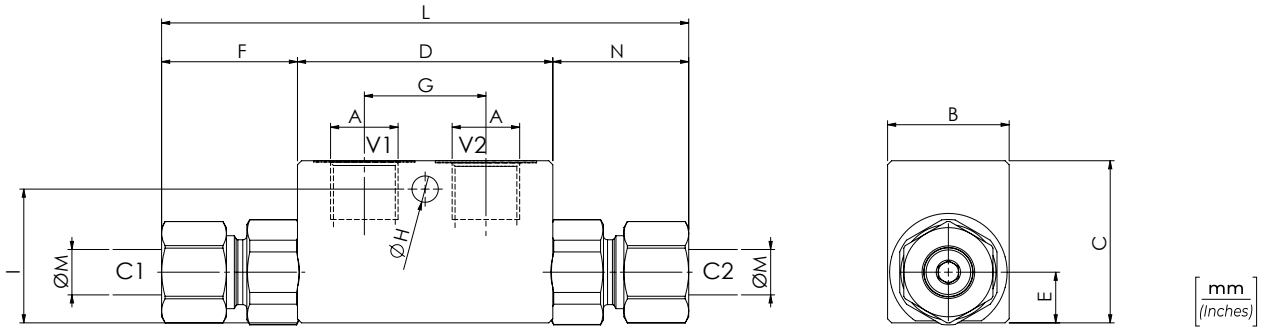
PERFORMANCES





DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

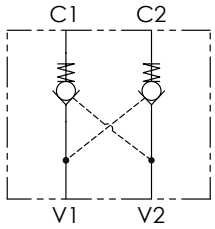
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	M	PESO APPROX APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRSD140T8	**BSPP 1/4**	**10** (2.6)	**350** (5075)	**30** (1.18)	**40** (1.57)	**63** (2.48)	**12,5** (0.49)	**28** (1.10)	**30** (1.18)	**6,5** (0.26)	**33** (1.30)	**119** (4.69)	**8** (0.31)	**0,62** (1.36)	**1:9**
VRSD140		**15** (4)						**32** (1.26)				**127** (5)	**12** (0.47)	**0,63** (1.37)	**1:4**
VRSD380	**BSPP 3/8**	**35** (9.2)												**0,60** (1.32)	
VRSD120	**BSPP 1/2**	**45** (11.9)		**35** (1.38)	**50** (1.97)	**82** (3.23)	**16,5** (0.65)	**33,5** (1.32)	**36** (1.42)		**35** (1.38)	**149** (5.87)	**15** (0.59)	**1,10** (2.42)	

CODICE ORDINAZIONE / ORDERING CODE

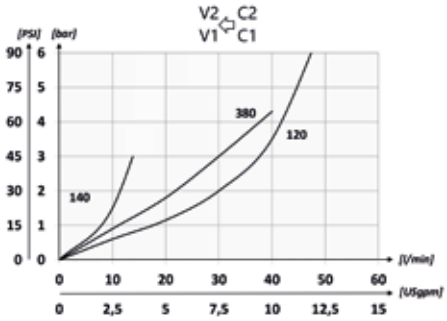
01	02	03
VRDD		

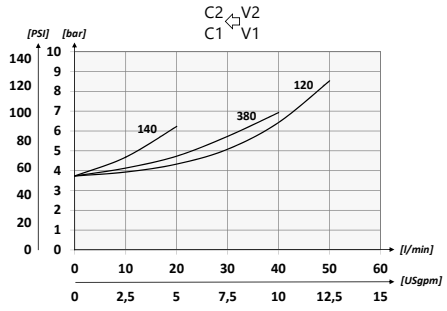
01	VALVOLE DI BLOCCO A DOPPIO EFFETTO DIN2353 (DIN2353 DOUBLE ACTING PILOT CHECK VALVES)		**VRDD**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
03	DIMENSIONE TUBO (SIZE PIPE)	Per **tubo Ø 8** - For Ø 8 pipe only for **BSPP 1/4**	**T8**
		Per **tubo Ø 12** - For Ø 12 pipe standard only for **BSPP 1/4 and 3/8**	
		Per **tubo Ø 15** - For Ø 15 pipe standard only for **BSPP 1/2**	

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES



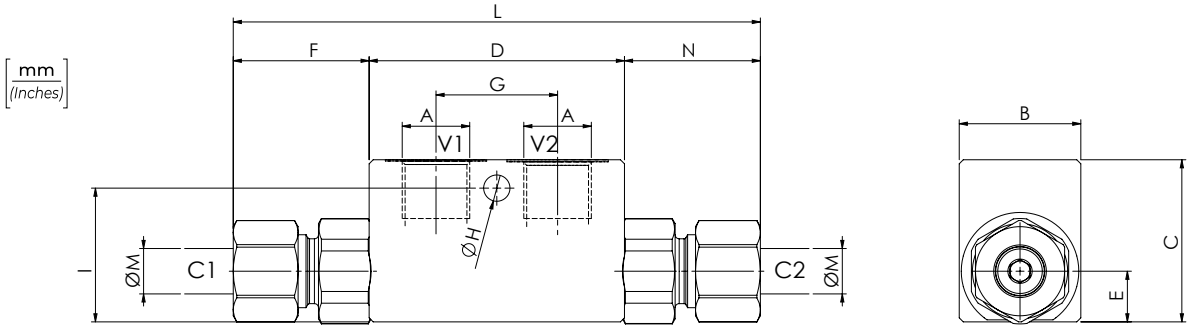


DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

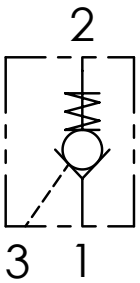
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	M	PESO APPROX APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRDD140T8	**BSPP 1/4**	**10** (2.6)	**350** (5075)	**30** (1.18)	**40** (1.57)	**63** (2.48)	**12,5** (0.49)	**28** (1.10)	**30** (1.18)	**6,5** (0.26)	**35** (1.38)	**113** (4.45)	**8** (0.31)	**0,60** (1.32)	**1:9**
VRDD140		**15** (4)						**32** (1.26)				**127** (5)	**12** (0.47)	**0,64** (1.40)	**1:4**
VRDD380	**BSPP 3/8**	**35** (9.2)												**0,63** (1.38)	
VRDD120	**BSPP 1/2**	**45** (11.9)		**35** (1.38)	**50** (1.97)	**82** (3.23)	**16,5** (0.65)	**33,5** (1.32)	**36** (1.42)			**149** (5.87)	**15** (0.59)	**1,17** (2.57)	

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

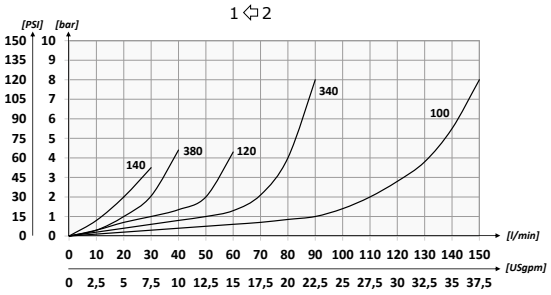


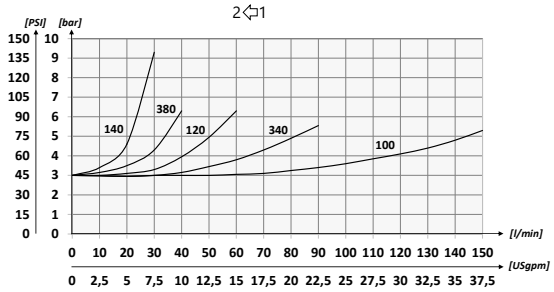
CODICE ORDINAZIONE
ORDERING CODE

01	02
VRPE	

01	VALVOLE DI BLOCCO PILOTATE A SEMPLICE EFFETTO (SINGLE ACTING PILOT CHECK VALVES)		VRPE
02	DIMENSIONE (SIZE)	BSPP 1/4	140
		BSPP 3/8	380
		BSPP 1/2	120
		BSPP 3/4	340
		BSPP 1	100

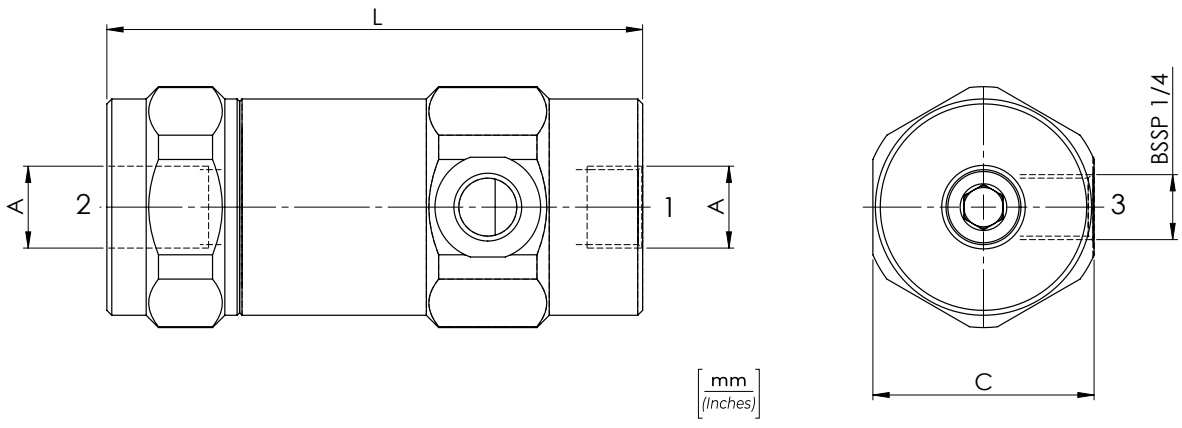
PERFORMANCES





DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

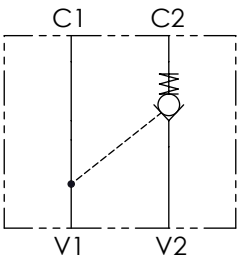
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	L	C	PESO APPROX (kg) APPROX WEIGHT (lbt)	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRPE140	BSPP 1/4	25 (6.6)	350 (5075)	96 (3.78)	40 (1.57)	0,84 (1.85)	1:5.3
VRPE380	BSPP 3/8	40 (10.6)		109 (4.29)	45 (1.77)	1,14 (2.51)	1:4.4
VRPE120	BSPP 1/2	60 (15.9)		122 (4.80)		1,24 (2.73)	1:4.2
VRPE340	BSPP 3/4	100 (26.4)	300 (4350)	132 (5.20)	55 (2.17)	1,87 (4.12)	1:4
VRPE100	BSPP 1	150 (39.6)		166 (6.54)	65 (2.56)	3,22 (7.10)	1:4.1

CODICE ORDINAZIONE / ORDERING CODE

01	02
VRP	

01	VALVOLE DI BLOCCO PILOTATE A SEMPLICE EFFETTO (SINGLE ACTING PILOT CHECK VALVES)		VRP
02	DIMENSIONE (SIZE)	BSPP 3/8	380
		BSPP 1/2	120

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



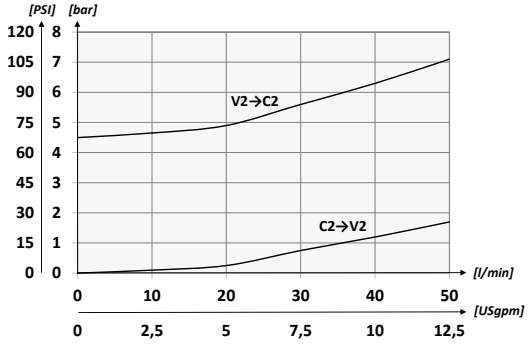
DATI TECNICI / TECHNICAL DATA

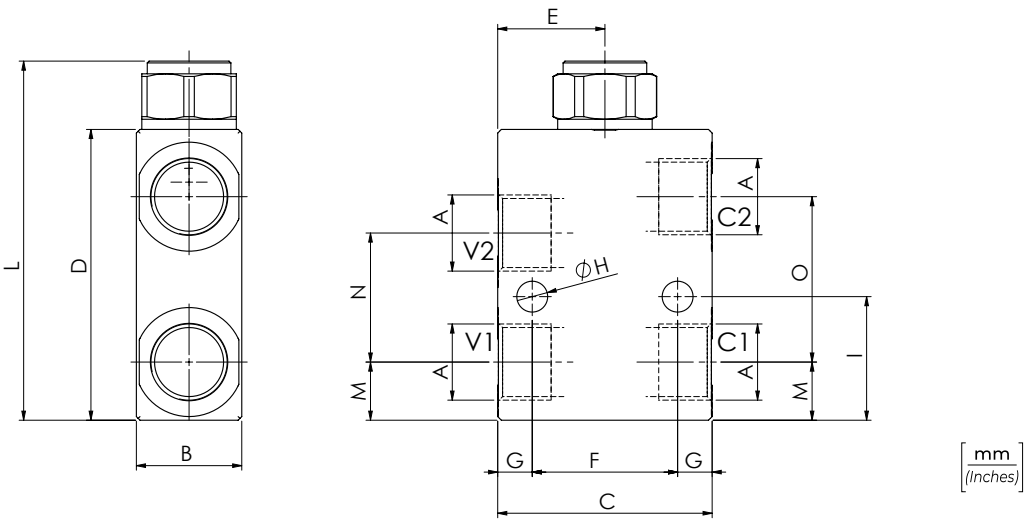
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min

PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	M	N	O	PESO APPROX APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRP380	BSPP 3/8	35 (9.2)	350 (5075)	29 (1.14)	59 (2.32)	80 (3.5)	29,5 (1.16)	40 (1.57)	9,5 (0.37)	8,5 (0.33)	31,75 (1.25)	99 (3.70)	15 (0.59)	33,50 (1.32)	50 (1.97)	0,9 (2)	1:4
VRP120	BSPP 1/2	50 (13.2)									34 (1.34)		16 (0.63)	35,50 (1.40)	45,5 (1.79)		

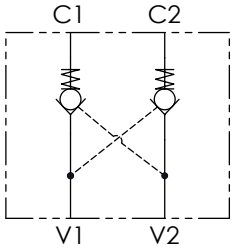
Aggiornamento - Update
20V-2020

CODICE ORDINAZIONE / ORDERING CODE

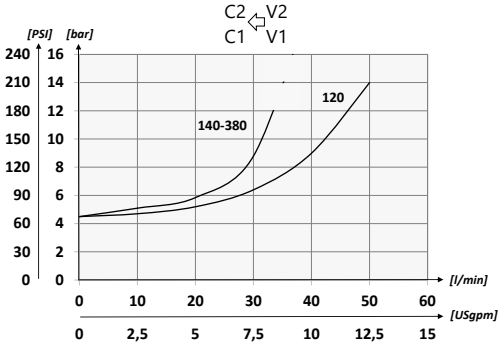
01	02
VRDL	

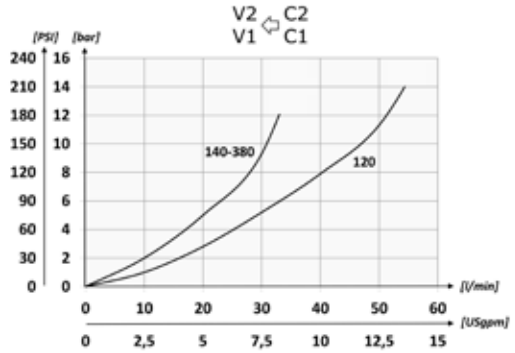
01	VALVOLE DI BLOCCO PILOTATE A DOPPIO EFFETTO (DOUBLE ACTING PILOT CHECK VALVES)		**VRDL**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140N**
		BSPP 3/8	**380N**
		BSPP 1/2	**120N**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



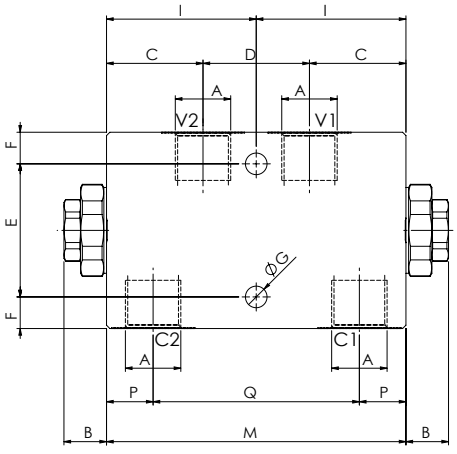
PERFORMANCES

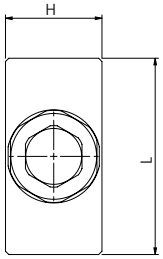




DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



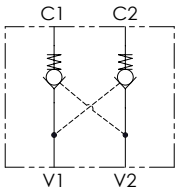


[mm / (Inches)]

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	M	P	Q	PESO APPROX APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRDL140N	**BSPP 1/4**	**35** (9.2)	**350** (5075)	**13** (0.51)	**29** (1.14)	**32** (1.26)	**40** (1.57)	**9,5** (0.37)	**6,5** (0.26)	**29** (1.14)	**45** (1.77)	**59** (2.32)	**90** (3.54)	**14** (0.55)	**62** (2.44)	**1,18** (2.60)	**1:7**
VRDL380N	**BSPP 3/8**															**1,10** (2.42)	
VRDL120N	**BSPP 1/2**	**50** (13.2)		**14,8** (0.58)	**38** (1.50)	**34** (1.34)		**14,5** (0.57)	**8,5** (0.33)	**34** (1.34)	**55** (2.17)	**69** (2.72)	**110** (4.33)	**20,5** (0.81)	**69** (2.72)	**1,77** (3.90)	

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

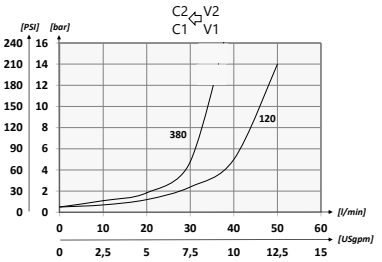


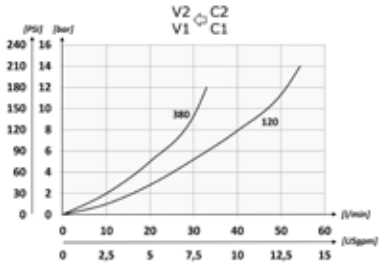
CODICE ORDINAZIONE
ORDERING CODE

01	02	03	04	05
VRDF				

01	VALVOLE DI BLOCCO FLANGIATA A DOPPIO EFFETTO (DOUBLE ACTING PILOT CHECK VALVES - FLANGED VERSION)		**VRDF**
02	DIMENSIONE (SIZE)	BSPP 3/8	**380**
		BSPP 1/2	**120**
03	MOLLA (SPRING)	**1 bar** (14.5 PSI)	**1**
		6 bar (87 PSI) Standard	**6**
04	O-RING SUL PISTONE DI PILOTAGGIO (O-RING ON PILOT PISTON)	Senza o-ring (without o-ring)	**0**
		con o-ring (with o-ring)	**1**
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)	1:3,2 solo per dimensione 120 (only for size 120)	**32**
		1:7	**70**

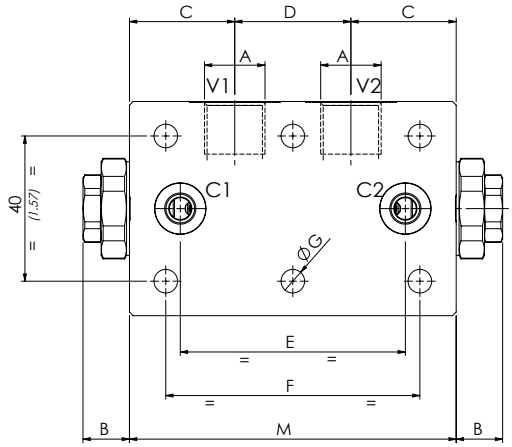
PERFORMANCES

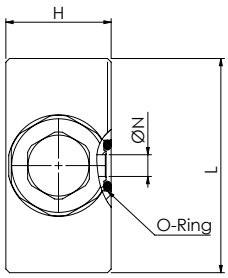




DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min





mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	M	N	O-RING	PESO APPROX APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRDF380	**BSPP 3/8**	**35** (9.2)	**350** (5075)	**12,8** (0.50)	**29** (1.94)	**32** (1.26)	**62** (2.44)	**70** (2.76)	**6.5** (0.26)	**34** (1.34)	**59** (2.32)	**90** (3.54)	**Ø 6** (0,24)	**9,19x2,62**	**1,11** (2.44)	**1:7**
VRDF120	**BSPP 1/2**	**50** (13.2)		**14.8** (0.58)	**38** (1.50)	**34** (1.34)	**65** (2.56)	**80** (3.15)	**8.5** (0.33)		**69** (2.72)	**110** (4.33)	**Ø 7** (0,28)	**15,08x2,62**	**1,85** (4)	**1:3,2** / **1:7**

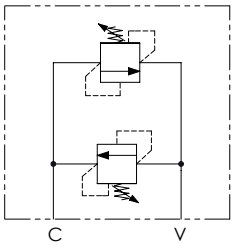
Aggiornamento - Update 20V-2020

CODICE ORDINAZIONE / ORDERING CODE

01	02	03
DCA		

01	VALVOLE ANTIURTO DOPPIE INCROCIATE (DOUBLE CROSS LINE DIRECT ACTING RELIEF VALVES)		DCA
02	DIMENSIONE (SIZE)	BSPP 1/4	140
		BSPP 3/8	380
03	MOLLA (SPRING) **10/40 bar** (145/580PSI)	**20 bar/al giro** (290 PSI/turn)	1
	Molla (SPRING) **20/110 bar** (290/1595 PSI)	**40 bar/al giro** (580 PSI/turn)	2
	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	**70 bar/al giro** (1015 PSI/turn)	3
	Molla (SPRING) **40/350 bar** (580/5075 PSI)	**130 bar/al giro** (1885 PSI/turn)	4

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

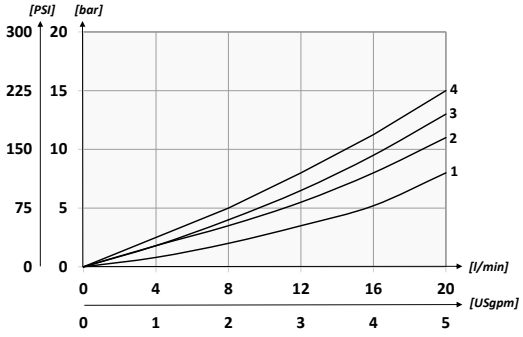
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

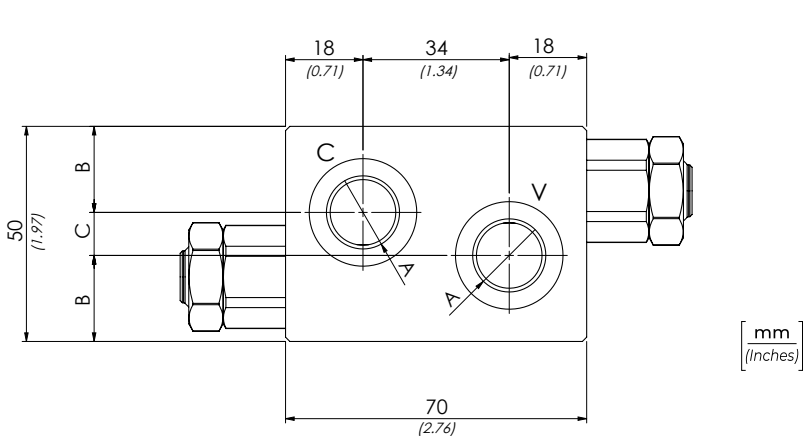
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	PESO APPROX APPROX WEIGHT kg-lbt	VALVOLA TIPO TYPE OF VALVE
DCA140	**BSPP 1/4**	**20** (5.3)	**350** (5075)	**22** (0.87)	**6** (0.24)	**0,8** (1.8)	**VMD1N**
DCA380	**BSPP 3/8**			**20** (0.79)	**10** (0.39)		

PERFORMANCES



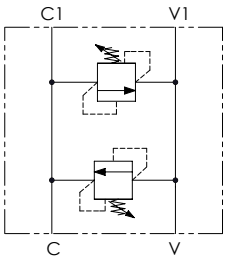


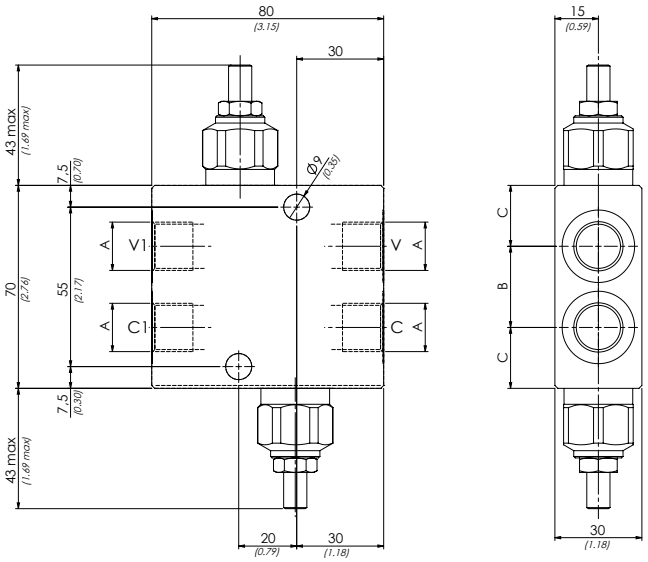
CODICE ORDINAZIONE / ORDERING CODE

01	02	03
VBDC		

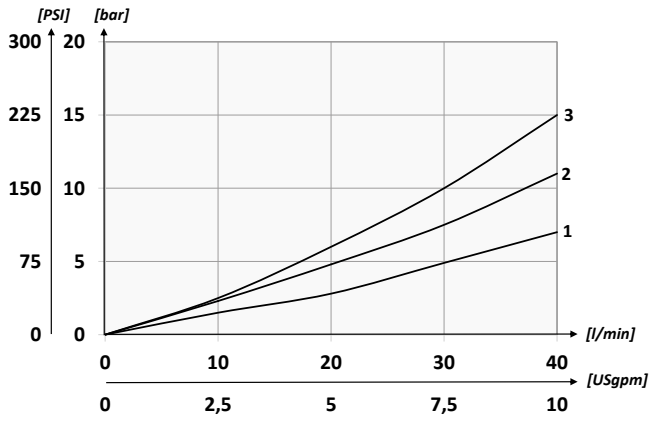
01	VALVOLE ANTIURTO DOPPIE INCROCIATE (DOUBLE CROSS LINE DIRECT ACTING RELIEF VALVES)		**VBDC**
02	DIMENSIONE (SIZE)	BSPP 3/8	**380**
		BSPP 1/2	**120**
03	MOLLA (SPRING) **10/90 bar** (145/1305 PSI)	**12 bar/al giro** (174 PSI/turn)	**1**
	MOLLA (SPRING) **20/210 bar** (290/3045 PSI)	**33 bar/al giro** (479 PSI/turn)	**2**
	MOLLA (SPRING) **70/350 bar** (1015/5075 PSI)	**70 bar/al giro** (1015 PSI/turn)	**3**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





PERFORMANCES



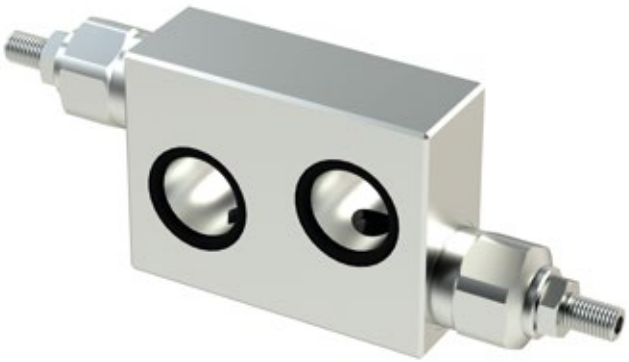
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	PESO APPROX APPROX WEIGHT kg-lbt	VALVOLA TIPO TYPE OF VALVE
VBDC380	**BSPP 3/8**	**40** (10.6)	**350** (5075)	**28** (1.10)	**21** (0.83)	**1,18** (2.60)	**VMD40S**
VBDC120	**BSPP 1/2**			**33** (1.30)	**18,5** (0.73)	**1,12** (2.47)	

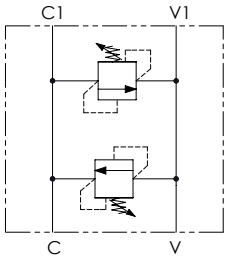


CODICE ORDINAZIONE
ORDERING CODE

01	02	03
DCL	120	

01	VALVOLE ANTIURTO DOPPIE INCROCIATE (DOUBLE CROSS LINE DIRECT ACTING RELIEF VALVES)		**DCL**
02	DIMENSIONE (SIZE)	Ø 21 (BSPP 1/2)	**120**
03	MOLLA (SPRING) **10/90 bar** (145/1305 PSI)	**12 bar/al giro** (174 PSI/turn)	**1**
	MOLLA (SPRING) **20/210 bar** (290/3045 PSI)	**33 bar/al giro** (479 PSI/turn)	**2**
	MOLLA (SPRING) **70/350 bar** (1015/5075 PSI)	**70 bar/al giro** (1015 PSI/turn)	**3**

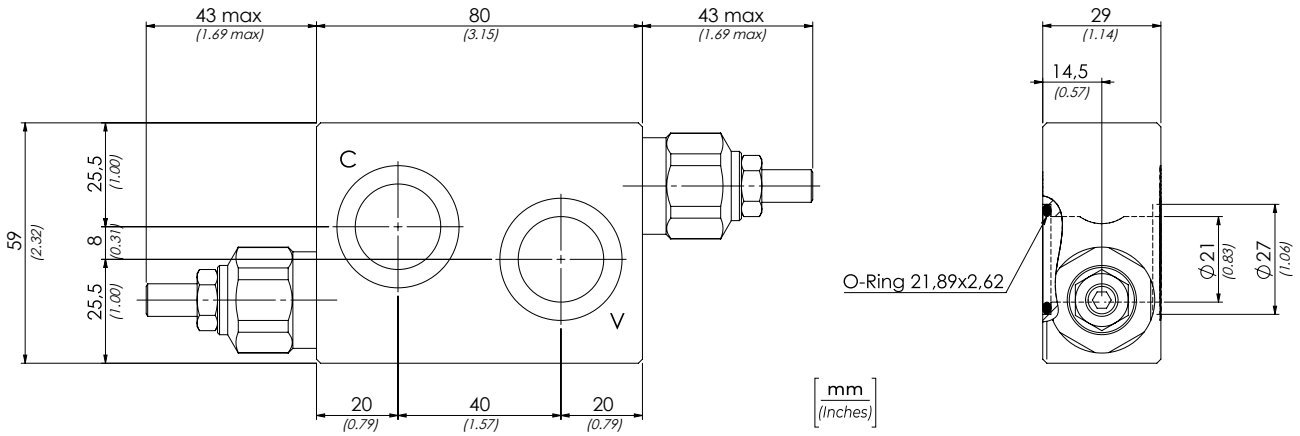
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

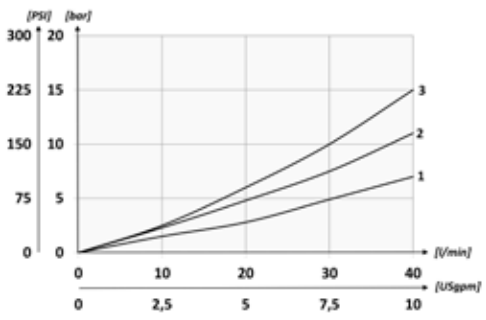
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

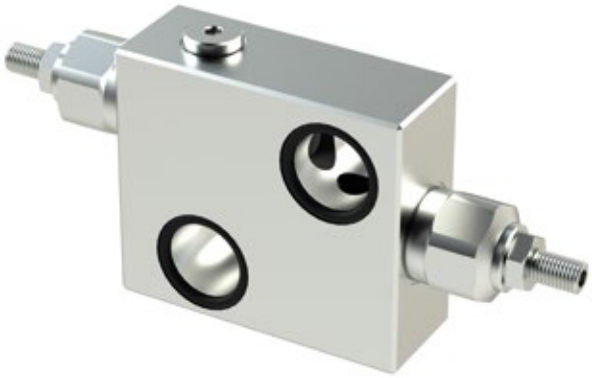


CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt	VALVOLA TIPO TYPE OF VALVE
DCL120	**Ø 21 (BSPP 1/2)**	**40** (10.6)	**350** (5075)	**0,96** (2.11)	**VMD40S**

PERFORMANCES



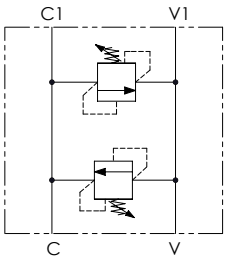


CODICE ORDINAZIONE / ORDERING CODE

01	02	03
DCV	120	

01	VALVOLE ANTIURTO DOPPIE INCROCIATE (DOUBLE CROSS LINE DIRECT ACTING RELIEF VALVES)		**DCV**
02	DIMENSIONE (SIZE)	Ø 21 (BSPP 1/2)	**120**
03	MOLLA (SPRING) **10/90 bar** (145/1305 PSI)	**12 bar/al giro** (174 PSI/turn)	**1**
	MOLLA (SPRING) **20/210 bar** (290/3045 PSI)	**33 bar/al giro** (479 PSI/turn)	**2**
	MOLLA (SPRING) **70/350 bar** (1015/5075 PSI)	**70 bar/al giro** (1015 PSI/turn)	**3**

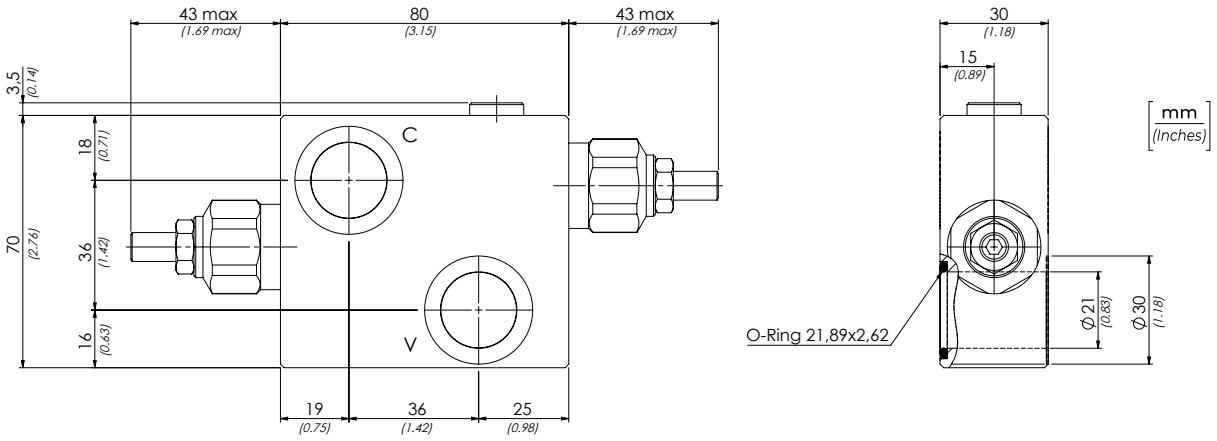
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

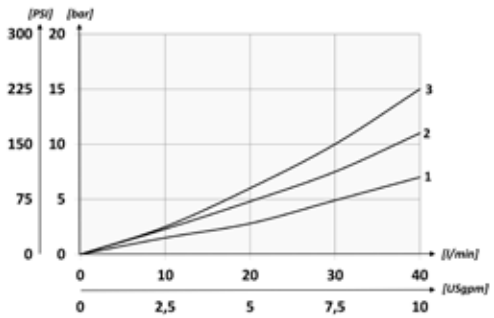
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PORTATA MAX MAX FLOW l/min-USgpm	PESO APPROX APPROX WEIGHT kg-lbt	VALVOLA TIPO TYPE OF VALVE
DCV120	**Ø 21 (BSPP 1/2)**	**40** (10.6)	**350** (5075)	**1,2** (2.7)	**VMD40S**

PERFORMANCES

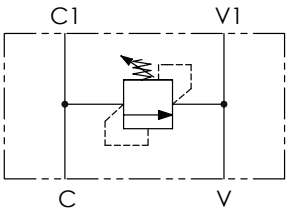


CODICE ORDINAZIONE / ORDERING CODE

01	02	03
SCF	120	

01	VALVOLE ANTIURTO SINGOLA (SINGLE LINE DIRECT ACTING RELIEF VALVES)		**SCF**
02	DIMENSIONE (SIZE)	BSPP 1/2	**120**
03	MOLLA (SPRING) **10/90 bar** (145/1305 PSI)	**12 bar/al giro** (174 PSI/turn)	**1**
	MOLLA (SPRING) **20/210 bar** (290/3045 PSI)	**33 bar/al giro** (479 PSI/turn)	**2**
	MOLLA (SPRING) **70/350 bar** (1015/5075 PSI)	**70 bar/al giro** (1015 PSI/turn)	**3**

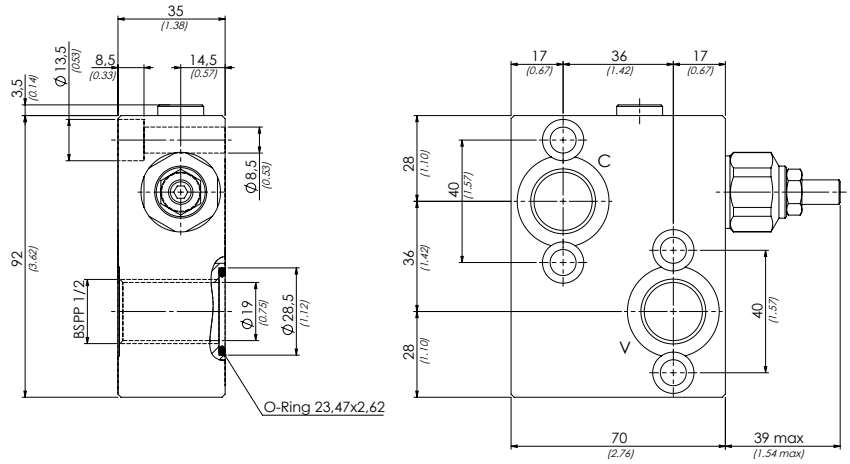
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

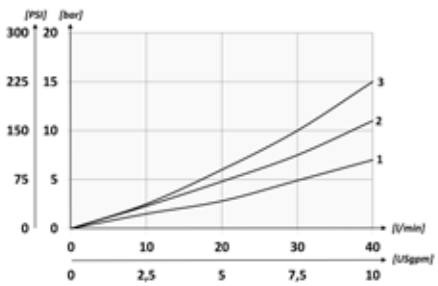
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt	VALVOLA TIPO TYPE OF VALVE
SCF120	**BSPP 1/2**	**40** (10.6)	**350** (5075)	**1,65** (3.63)	**VMD40S**

PERFORMANCES

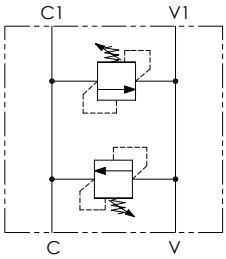


CODICE ORDINAZIONE / ORDERING CODE

01	02	03
DCF		

01	VALVOLE ANTIURTO DOPPIE INCROCIATE (DOUBLE CROSS LINE DIRECT ACTING RELIEF VALVES)		**DCF**
02	DIMENSIONE (SIZE)	BSPP 1/2	**120**
03	MOLLA (SPRING) **10/40 bar** (145/580 PSI)	**12 bar/al giro** (174 PSI/turn)	**1**
	MOLLA (SPRING) **20/210 bar** (290/3045 PSI)	**33 bar/al giro** (479 PSI/turn)	**2**
	MOLLA (SPRING) **70/350 bar** (1015/5075 PSI)	**70 bar/al giro** (1015 PSI/turn)	**3**

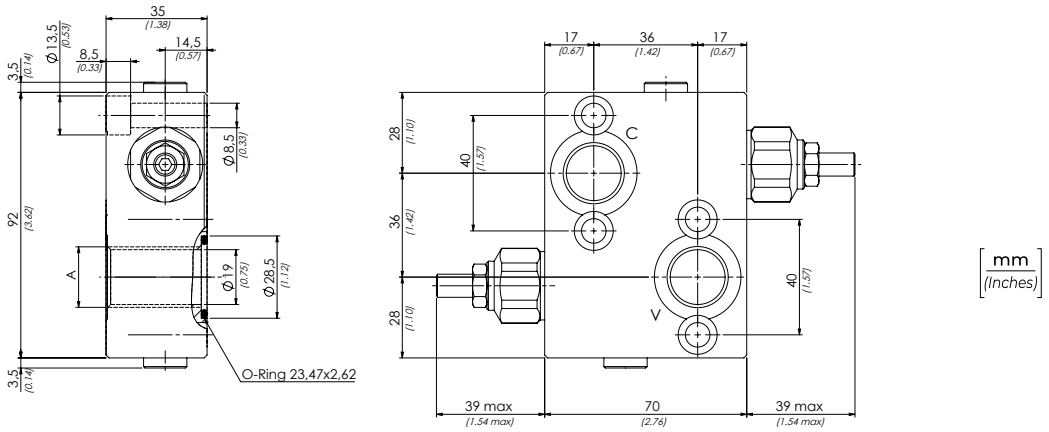
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

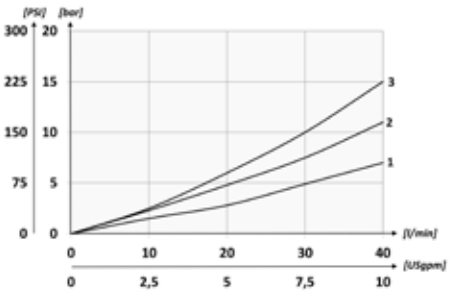
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt	VALVOLA TIPO TYPE OF VALVE
DCF120	**BSPP 1/2**	**40** (10.6)	**350** (5075)	**1,5** (3.3)	**VMD40S**

PERFORMANCES

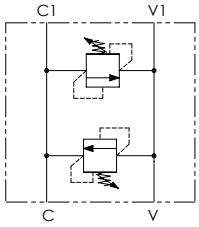


CODICE ORDINAZIONE / ORDERING CODE

01	02	03
DCM		

01	VALVOLE ANTIURTO DOPPIE INCROCIATE (DOUBLE CROSS LINE DIRECT ACTING RELIEF VALVES)		**DCM**
02	DIMENSIONE (SIZE)	BSPP 1/2	**120**
03	MOLLA (SPRING) **10/40 bar** (145/580 PSI)	**12 bar/al giro** (174 PSI/turn)	**1**
	MOLLA (SPRING) **20/210 bar** (290/3045 PSI)	**33 bar/al giro** (479 PSI/turn)	**2**
	MOLLA (SPRING) **70/350 bar** (1015/5075 PSI)	**70 bar/al giro** (1015 PSI/turn)	**3**

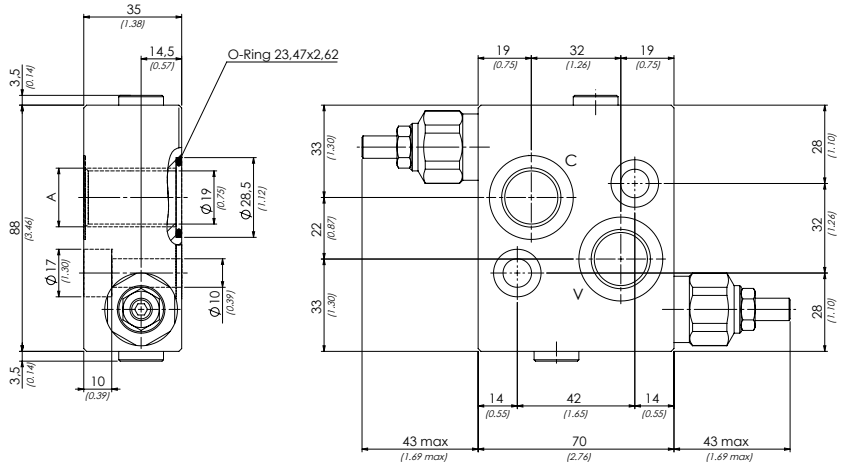
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

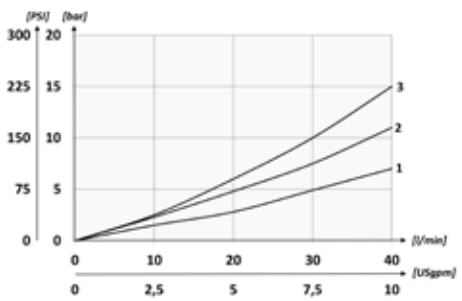


mm
(Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-U-Sgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt	VALVOLA TIPO TYPE OF VALVE
DCM120	**BSPP 1/2**	**40** (10.6)	**350** (5075)	**1,45** (3.20)	**VMD40S**

PERFORMANCES

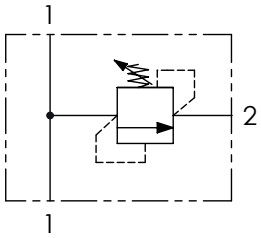


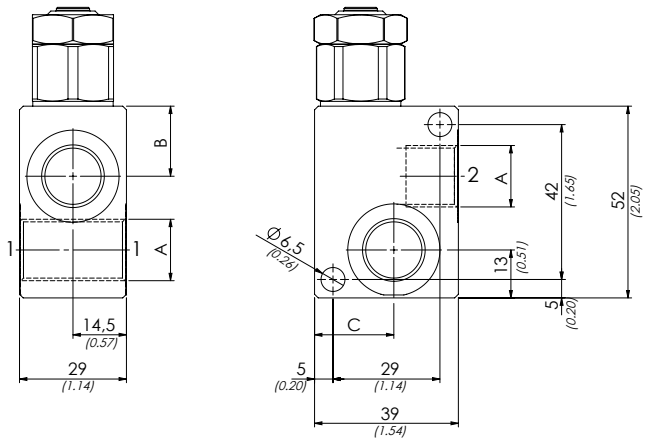
CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
VMDR1		C	

01	VALVOLE DI MASSIMA PRESSIONE DIRETTA IN LINEA (DIRECT ACTING PRESSURE RELIEF VALVES)		**VMDR1**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
03	REGOLAZIONE (SETTING)	Chiave (Screw)	**C**
04	MOLLA (SPRING) **10/40 bar** (145/580PSI)	**20 bar/al giro** (290 PSI/turn)	**1**
	MOLLA (SPRING) **20/110 bar** (290/1595 PSI)	**40 bar/al giro** (580 PSI/turn)	**2**
	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	**70 bar/al giro** (1015 PSI/turn)	**3**
	MOLLA (SPRING) **40/350 bar** (580/5075 PSI)	**130 bar/al giro** (1885 PSI/turn)	**4**

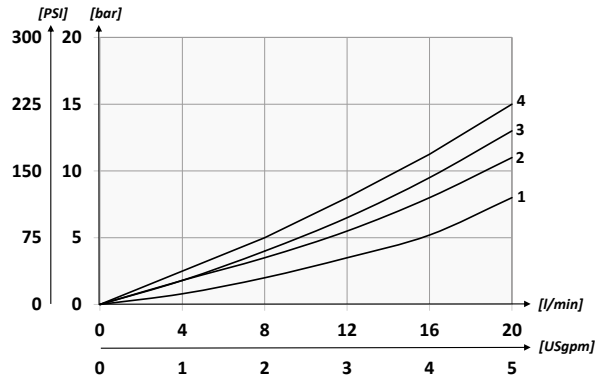
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





mm
(Inches)

PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

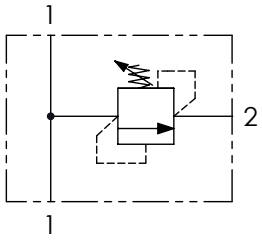
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	PESO APPROX (kg) APPROX WEIGHT (lbt)
VMDR1140	**BSPP 1/4**	**20** (5.3)	**350** (5075)	**17** (0.67)	**20** (0.79)	**0,47** (1.03)
VMDR1380	**BSPP 3/8**			**19** (0.75)	**18** (0.71)	**0,43** (0.95)

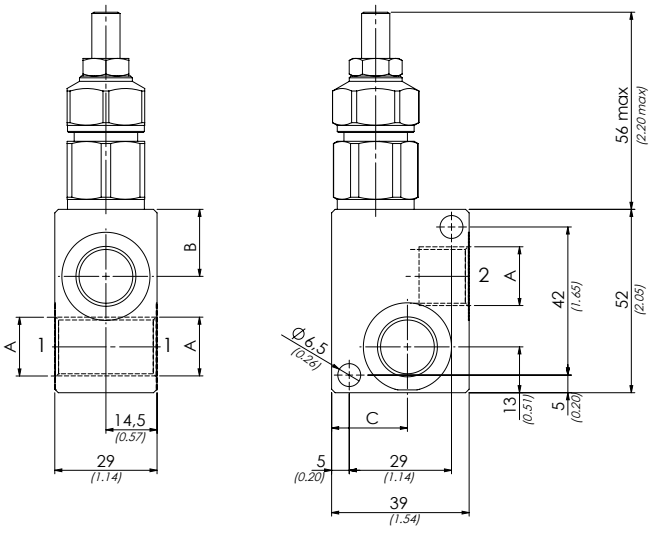
CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
VMDR10			

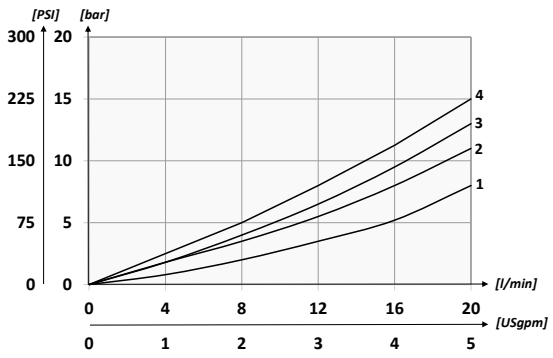
01	VALVOLE DI MASSIMA PRESSIONE DIRETTA IN LINEA (DIRECT ACTING PRESSURE RELIEF VALVES)		**VMDR10**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
03	REGOLAZIONE (SETTING)	Chiave (Screw)	**C**
		Volantino (Handknob) Tipo (Type) **81300109**	**V**
04	MOLLA (SPRING) **10/40 bar** (145/580 PSI)	**12 bar/al giro** (174 PSI/turn)	**1**
	MOLLA (SPRING) **20/110 bar** (290/1595 PSI)	**37 bar/al giro** (537 PSI/turn)	**2**
	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	**67 bar/al giro** (972 PSI/turn)	**3**
	MOLLA (SPRING) **40/350 bar** (580/5075 PSI)	**131 bar/al giro** (1900 PSI/turn)	**4**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

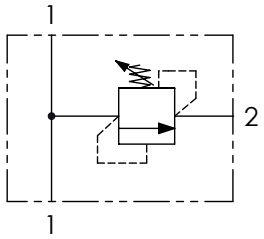
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	PESO APPROX (kg) APPROX WEIGHT (lbt)
VMDR10140	**BSPP 1/4**	**20** (5.3)	**350** (5075)	**17** (0.67	**20** (0.79)	**0,51** (1.12)
VMDR10380	**BSPP 3/8**			**19** (0.75)	**18** (0.71)	**0,47** (1.03)

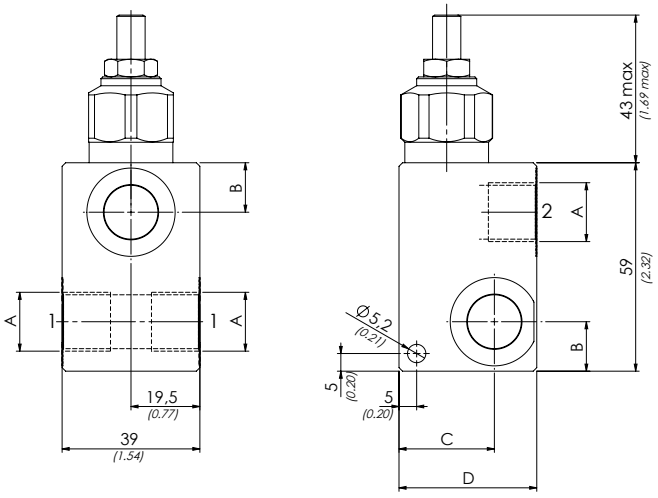
CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
VMDR40			

01	VALVOLE DI MASSIMA PRESSIONE DIRETTA IN LINEA (DIRECT ACTING PRESSURE RELIEF VALVES)		**VMDR40**
02	DIMENSIONE (SIZE)	BSPP 3/8	**380**
		BSPP 1/2	**120**
03	REGOLAZIONE (SETTING)	Chiave (Screw)	**C**
		Volantino (Handknob) Tipo (Type) **81300109**	**V**
04	MOLLA (SPRING) **10/90 bar** (145/1305 PSI)	**12 bar/al giro** (174 PSI/turn)	**1**
	MOLLA (SPRING) **20/210 bar** (290/3045 PSI)	**33 bar/al giro** (479 PSI/turn)	**2**
	MOLLA (SPRING) **70/350 bar** (1015/5075 PSI)	**70 bar/al giro** (1015 PSI/turn)	**3**

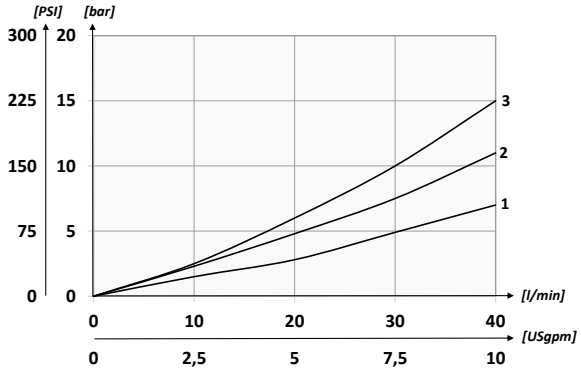
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





mm
(Inches)

PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	**A**	**PORTATA MAX** (l/min) MAX FLOW (USgpm)	**PRESSIONE MAX** (bar) MAX PRESSURE (PSI)	**B**	**C**	**D**	**PESO APPROX** (kg) APPROX WEIGHT (lbt)
VMDR40380	**BSPP 3/8**	**40** (10.6)	**350** (5075)	**14** (0.55)	**27** (1.06)	**39** (1.54)	**0,64** (1.39)
VMDR40120	**BSPP 1/2**			**15** (0.59)	**29,5** (1.16)	**45** (1.77)	**0,69** (1.50)

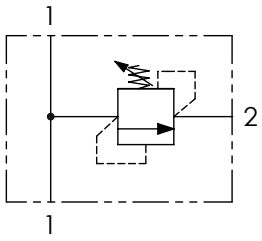
Aggiornamento - Update 20V-2020

CODICE ORDINAZIONE / ORDERING CODE

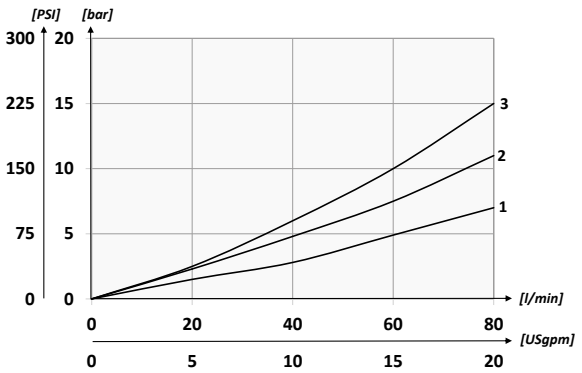
01	02	03	04
VMDR90			

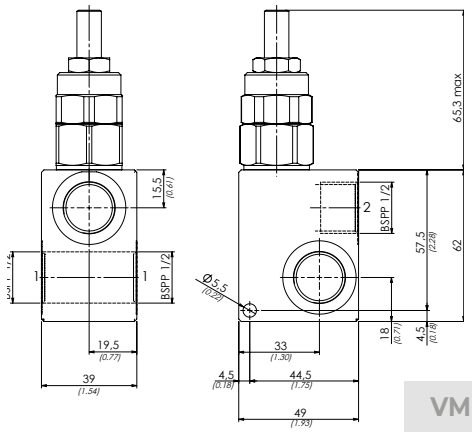
01	VALVOLE DI MASSIMA PRESSIONE DIRETTA IN LINEA (DIRECT ACTING PRESSURE RELIEF VALVES)		**VMDR90**
02	DIMENSIONE (SIZE)	BSPP 1/2	**120**
		BSPP 3/4	**340**
03	REGOLAZIONE (SETTING)	Chiave (Screw)	**C**
		Volantino (Handknob) Tipo (Type) **81300023**	**V**
04	MOLLA (SPRING) **10/100 bar** (145/1450 PSI)	**26 bar/al giro** (377 PSI/turn)	**1**
	MOLLA (SPRING) **20/250 bar** (290/3625 PSI)	**41 bar/al giro** (595 PSI/turn)	**2**
	MOLLA (SPRING) **50/350 bar** (725/5075 PSI)	**91 bar/al giro** (1320 PSI/turn)	**3**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



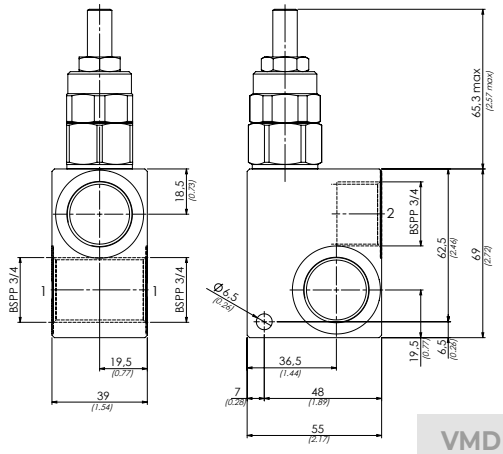
PERFORMANCES





VMDR90120

mm
(Inches)



VMDR90340

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

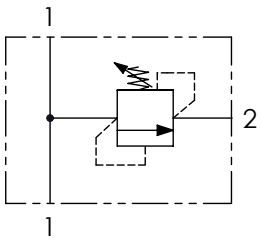
TIPO TYPE	**PORTATA MAX** (l/min) MAX FLOW (USgpm)	**PRESSIONE MAX** (bar) MAX PRESSURE (PSI)	**PESO APPROX** (kg) APPROX WEIGHT (lbt)
VMDR90120	**80** (21.1)	**350** (5075)	**0,65** (1.43)
VMDR90340			**1** (2.2)

CODICE ORDINAZIONE / ORDERING CODE

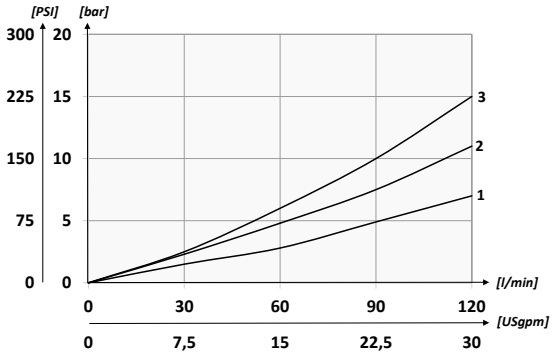
01	02	03	04
VMDR120			

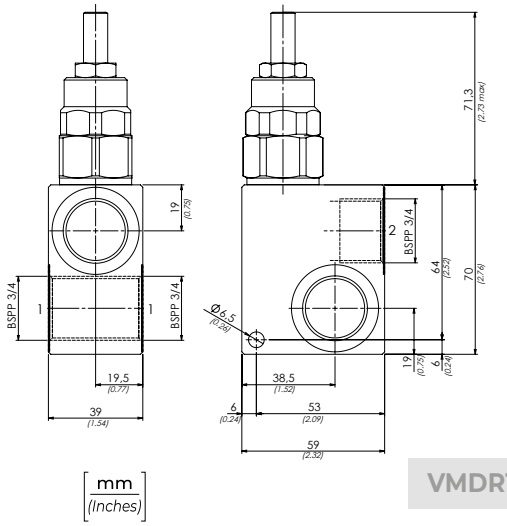
01	VALVOLE DI MASSIMA PRESSIONE DIRETTA IN LINEA (DIRECT ACTING PRESSURE RELIEF VALVES)		**VMDR120**
02	DIMENSIONE (SIZE)	BSPP 3/4	**340**
		BSPP 1	**100**
03	REGOLAZIONE (SETTING)	Chiave (Screw)	**C**
		Volantino (Handknob) Tipo (Type) **81300023**	**V**
04	MOLLA (SPRING) **10/100 bar** (145/1450 PSI)	**21 bar/al giro** (305 PSI/turn)	**1**
	MOLLA (SPRING) **20/250 bar** (290/3625 PSI)	**48 bar/al giro** (696 PSI/turn)	**2**
	MOLLA (SPRING) **40/350 bar** (580/5075 PSI)	**55 bar/al giro** (798 PSI/turn)	**3**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

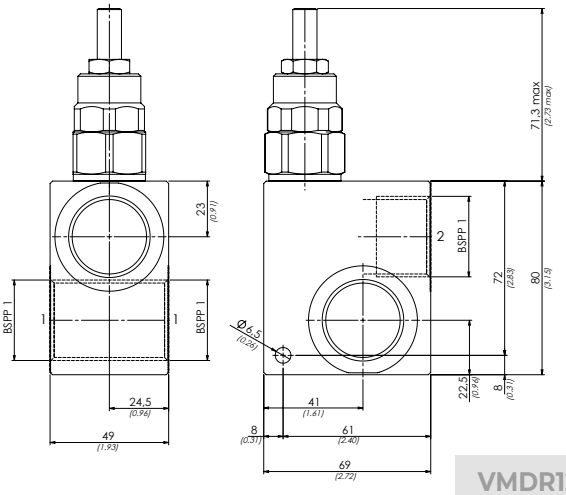


PERFORMANCES





VMDR120340



VMDR120100

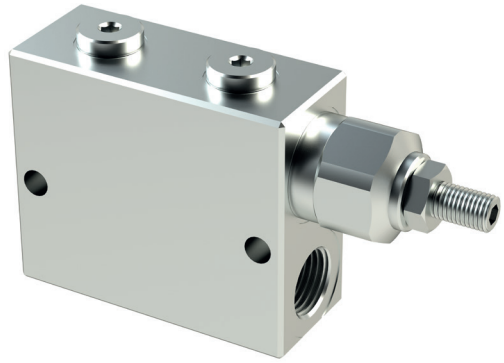
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	**PORTATA MAX** (l/min) MAX FLOW (USgpm)	**PRESSIONE MAX** (bar) MAX PRESSURE (PSI)	**PESO APPROX** (kg) APPROX WEIGHT (lbt)
VMDR120340	**120** (31.7)	**350** (5075)	**1,1** (2.42)
VMDR120100			**1,7** (3.74)

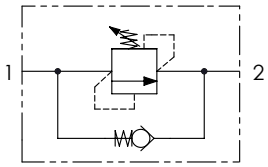


CODICE ORDINAZIONE / ORDERING CODE

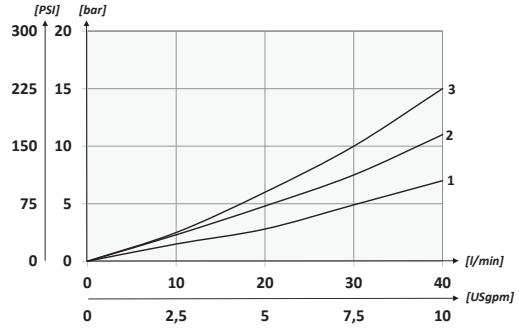
01	02	03
VSL		

01	VALVOLE DI SEQUENZA DIRETTE (IN-LINE DIRECT SEQUENCE VALVES)			**VSL**
02	DIMENSIONE (SIZE)	BSPP 1/4		**140**
		BSPP 3/8		**380**
		BSPP 1/2		**120**
03	MOLLA (SPRING) **10/90 bar** (145/1305 PSI) max	**12 bar/al giro** (174 PSI/turn)	BSPP 1/4 BSPP 3/8 BSPP 1/2	**1**
	MOLLA (SPRING) **20/210 bar** (290/3045 PSI) max	**30 bar/al giro** (435 PSI/turn)	BSPP 1/4 BSPP 3/8 BSPP 1/2	**2**
	MOLLA (SPRING) **70/350 bar** (1015/5075 PSI) max	**65 bar/al giro** (943 PSI/turn)	BSPP 1/4 BSPP 3/8 BSPP 1/2	**3**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



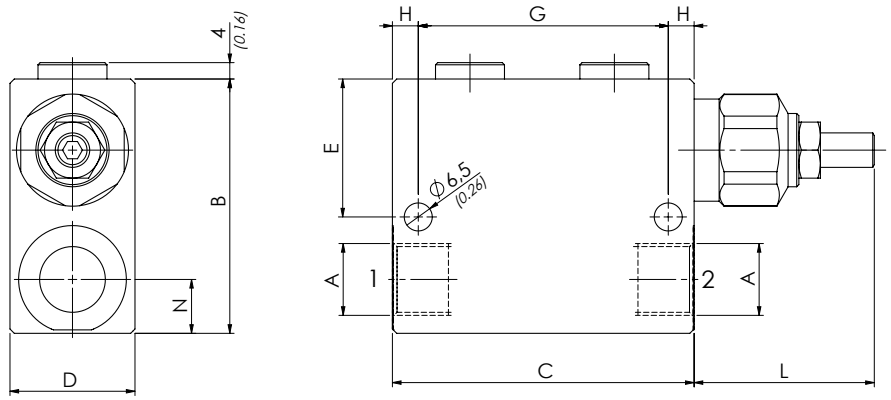
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	G	L	N	H	P	PESO APPROX APPROX WEIGHT kg-lbt
VSL140	**BSPP 1/4**	**20** (5.3)	**350** (5075)	**60** (2.36)	**60** (0.98)	**25** (0.98)	**35.5** (1.40)	**49** (1.93)	**53** (2.09)	**12** (0.47)	**20** (0.79)	**5.5** (0.22)	**0,72** (1.58)
VSL380	**BSPP 3/8**	**40** (10.6)			**70** (2.76)	**30** (1.18)	**32.5** (1.28)	**58** (2.28)	**43** (1.69)	**13** (0.51)	**17** (0.67)	**6.5** (0.26)	**0,89** (1.96)
VSL120	**BSPP 1/2**			**70** (2.76)			**35** (1.38)			**17** (0.67)			**1** (2.21)

notes

notes

notes

VALVOLE DI BILANCIAMENTO

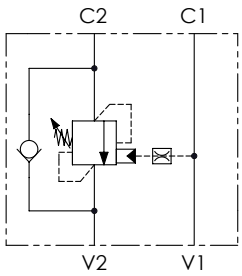
COUNTERBALANCE VALVES

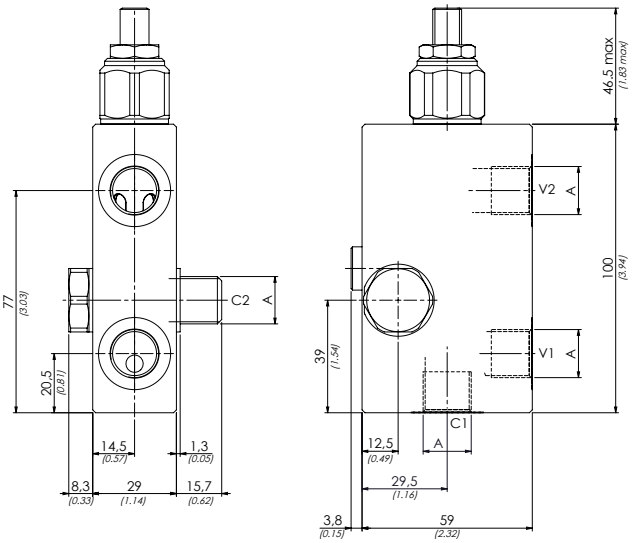
La gamma di valvole di bilanciamento OLEOWEB comprende soluzioni per installazioni in linea o flangiata o con bullone banjo su cilindro a motore, con bocche filettate BSPP-GAS o SAE UNF, e per installazioni su sistemi a centro aperto (non compensate) e a centro chiuso (semi-compensate).

The range of Oleoweb's Overcenter valves includes solutions for in-line installations, flanged or with banjo bolt, with BSPP-GAS or UNF-SAE threaded parts, and for installation on open center (not compensated) or closed center (semi-compensated) systems.

Oleoweb
HYDRAULIC VALVES AND COMPONENTS

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





mm
(Inches)

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

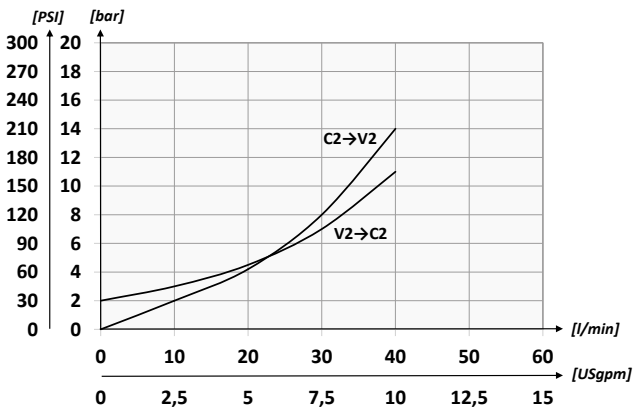
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04	05
VBCB	380			

01	VALVOLE DI BILANCIAMENTO SINGOLE A BULLONE PER CENTRO APERTO (BOLT-FITTING SINGLE COUNTERBALANCE VALVES FOR OPEN CENTER)				**VBCB**
02	DIMENSIONE (SIZE)	BSPP 3/8			**380**
03	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	**1**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA (SPRING) **60/350 bar** (870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	**2**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
04	MATERIALE (MATERIAL)	Acciaio + zincatura (Steel + zinc-plating)			**S**
		Acciaio + zinco-nichel (Steel + zinc-nickel)			**K**
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)	1:4.25 Standard			**/**
		1:8.75			**8**

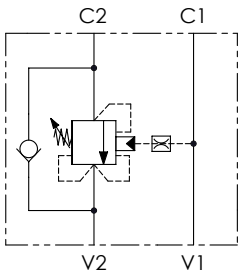
PERFORMANCES

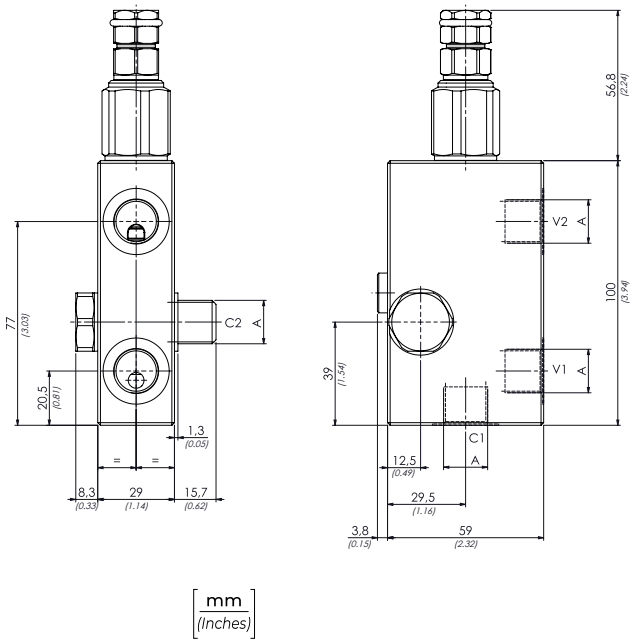


CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
VBCB380	**BSPP 3/8**	**40** (10.6)	**350** (5075)	**1,24** (2.73)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



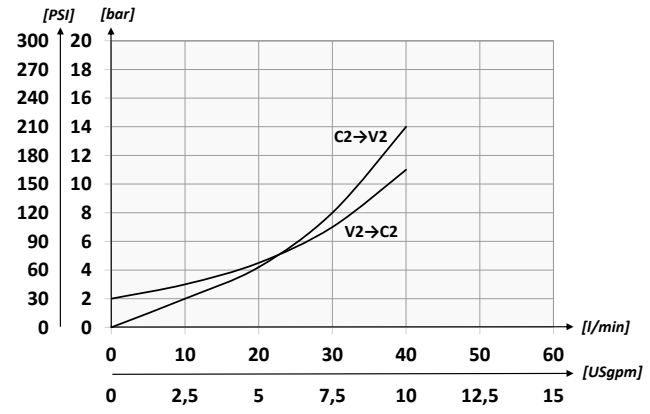


CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04	05
VCCB	380		S	

01	VALVOLE DI BILANCIAMENTO SINGOLE A BULLONE PER CENTRO CHOUSO (BOLT-FITTING SINGLE COUNTERBALANCE VALVES FOR CLOSED CENTER)				VBCB
02	DIMENSIONE (SIZE)	BSPP 3/8			380
03	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	1
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA (SPRING) **60/350 bar** (870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	2
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
04	MATERIALE (MATERIAL)	Acciaio + zincatura (Steel + zinc-plating)			S
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)	1:4.25 Standard			/
		1:8.75			8

PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

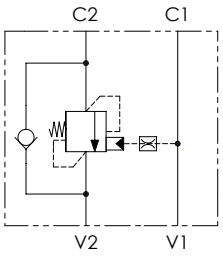
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
VCCB380	BSPP 3/8	**40** (10.6)	**350** (5075)	**1,24** (2.73)

CODICE ORDINAZIONE / ORDERING CODE

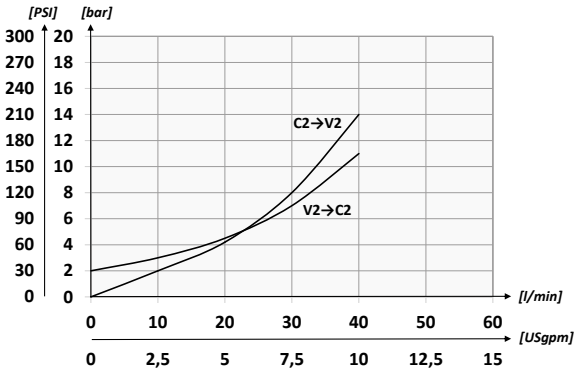
01	02	03	04
VBZB	380	2	

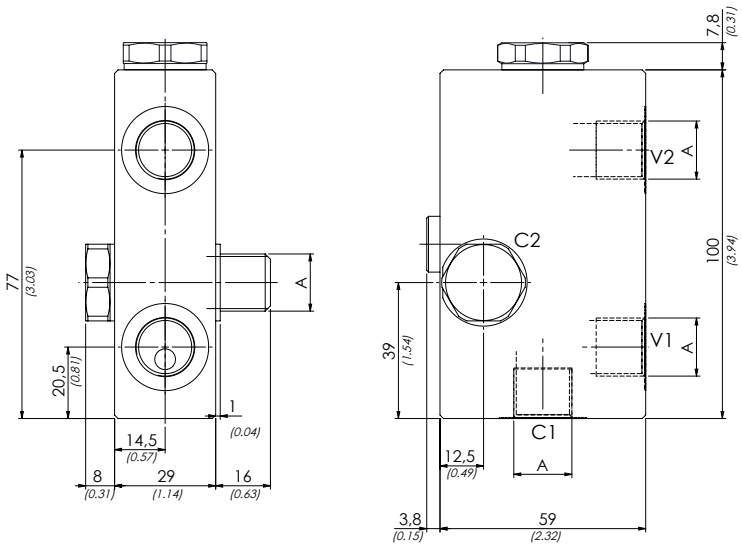
01	VALVOLE DI BILANCIAMENTO A BULLONE SINGOLE PER CENTRO APERTO A TARATURA FISSA (BOLT-FITTING SINGLE COUNTERBALANCE VALVES FIXED SETTING FOR OPEN CENTER)		**VBZB**
02	DIMENSIONE (SIZE)	BSPP 3/8	**380**
03	TARATURA (SETTING)	**Q=5 l/min 350 bar** (5075 PSI)	**2**
04	MATERIALE (MATERIAL)	Acciaio + zincatura (Steel + zinc-plating)	**S**
		Acciaio + zinco-nichel (Steel + zinc-nickel)	**K**
RAPPORTO DI PILOTAGGIO (PILOT RATIO) 1:4.25			

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES





mm (Inches)

DATI TECNICI / TECHNICAL DATA

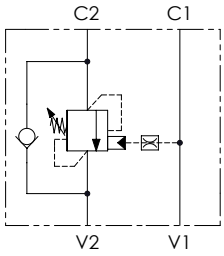
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
VBZB380	**BSPP 3/8**	**40** (10.6)	**350** (5075)	**1,24** (2,73)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

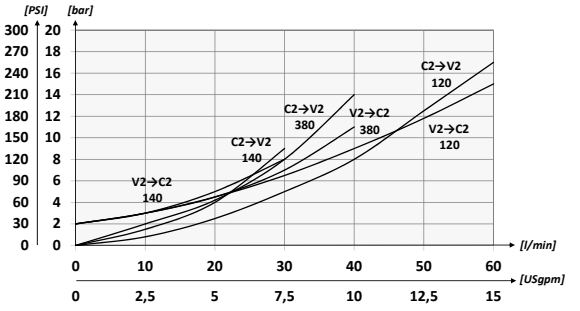


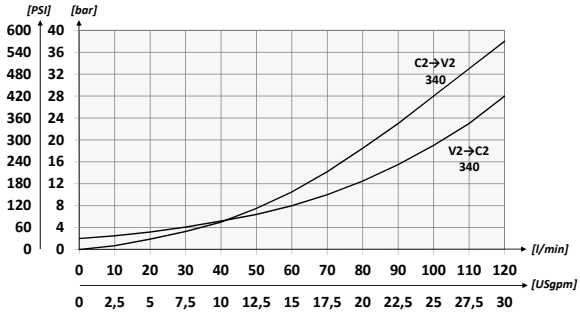
CODICE ORDINAZIONE
ORDERING CODE

01	02	03	04	05
VBCL				

01	VALVOLE DI BILANCIAMENTO SINGOLE PER CENTRO APERTO (SINGLE COUNTERBALANCE VALVES FOR OPEN CENTER)					**VBCL**
02	DIMENSIONE (SIZE)	BSPP 1/4				**140**
		BSPP 3/8				**380**
		BSPP 1/2				**120**
		BSPP 3/4				**340**
03	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	Rp 1:4.25	140 380 120	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	**1**
		Rp 1:8.75		**160 bar/al giro** (2320 PSI/turn)		
	MOLLA (SPRING) **60/350 bar** (870/5075 PSI)	Rp 1:4.25	140 380 120	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	**2**
		Rp 1:8.75		**160 bar/al giro** (2320 PSI/turn)		
	MOLLA (SPRING) **60/350 bar** (870/5075 PSI)	Rp 1:6.2	340	**143 bar/al giro** (2074 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	
		Rp 1:10.6		**242bar/al giro** (3509 PSI/turn)		
04	MATERIALE (MATERIAL)	Acciaio + zincatura (Steel body + zinc-plating)				**S**
		Acciaio + zinco-nichel (Steel body + zinc-nickel)				**K**
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)	140 380 120	1:4.25 Standard			**/**
			1:8.75			**8**
		340	1:6.2			**/**
			1:10,6			**11**

PERFORMANCES

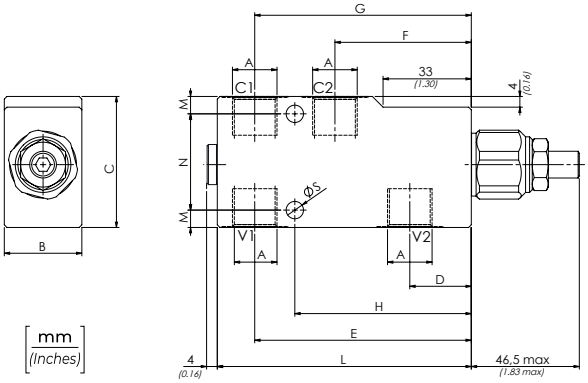




DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

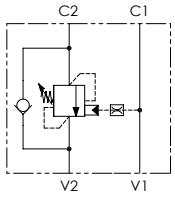
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



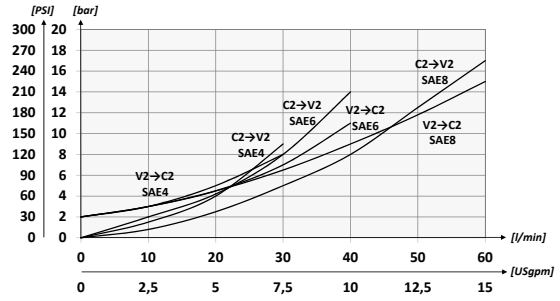
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	M	N	S	PESO APPROX (kg) APPROX WEIGHT (lbt)
VBCL140	**BSPP 1/4**	**30** (7.9)	**350** (5075)	**29** (1.14)	**49** (1.93)	**23** (0.91)	**81** (3.19)	**51** (2,01)	**81** (3.19)	**66** (2.60)	**95** (3.74)	**6,5** (0.26)	**36** (1.42)	**6,5** (0.26)	**0,98** (2.16)
VBCL380	**BSPP 3/8**	**40** (10.6)													**0,92** (2.02)
VBCL120	**BSPP 1/2**	**60** (15.9)			**59** (2.32)	**21** (0.83)	**84** (3.30)		**84** (3.31)	**67,5** (2.66)	**100** (3.94)	**9,5** (0.37)	**40** (1.57)		**1,09** (2.40)
VBCL340	**BSPP 3/4**	**120** (31.7)		**39** (1.54)	**69** (2.72)	**20** (0.79)	**120** (4.72)	**72** (2.83)	**120** (4.72)	**96** (3.78)	**140** (5.51)		**50** (1.97)	**10,5** (0.41)	**2,54** (5.59)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES



CODICE ORDINAZIONE / ORDERING CODE

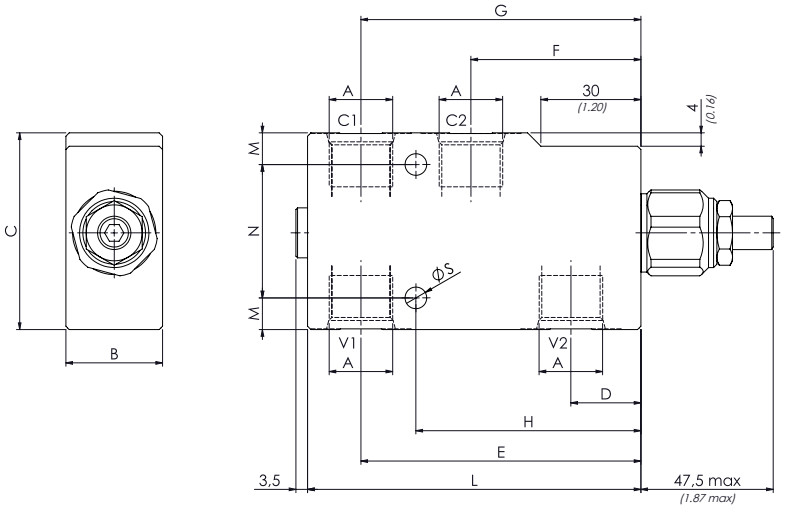
01	02	03	04	05
VBCL				

01	VALVOLE DI BILANCIAMENTO SINGOLE PER CENTRO APERTO SINGLE COUNTERBALANCE VALVES FOR OPEN CENTER				**VBCL**
02	DIMENSIONE (SIZE)		7/16-20UNF		**4**
			9/16-18UNF		**6**
			3/4-16UNF		**8**
03	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	**1**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA (SPRING) **60/350 bar** (870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	**2**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
04	MATERIALE (MATERIAL)	Acciaio + zincatura (Steel + zinc-plating)			**S**
		Acciaio + zinco-nichel (Steel + zinc-nickel)			**K**
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)			1:4.25 Standard	**/**
				1:8.75	**8**

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

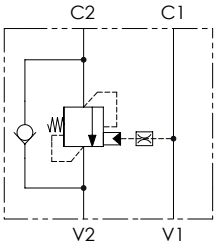


mm
(Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	M	N	S	PESO APPROX APPROXWEIGHT kg-lbt
VBCL4	7/16-20UNF	**30** (7.9)	**350** (5075)	**29** (1.14)	**49** (1.93)	**23** (0.91)	**81** (3.19)	**51** (2,01)	**81** (3.19)	**66** (2.60)	**95** (3.74)	**6,5** (0.26)	**36** (1.42)	**6,5** (0.26)	**1** (2.20)
VBCL6	9/16-18UNF	**40** (10.6)													**0,97** (2.14)
VBCL8	3/4-16UNF	**60** (15.9)			**59** (2.32)	**21** (0.83)	**84** (3.31)		**84** (3.31)	**67,5** (2.66)	**100** (3.94)	**9,5** (0.37)	**40** (1.57)		**1,16** (2.56)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

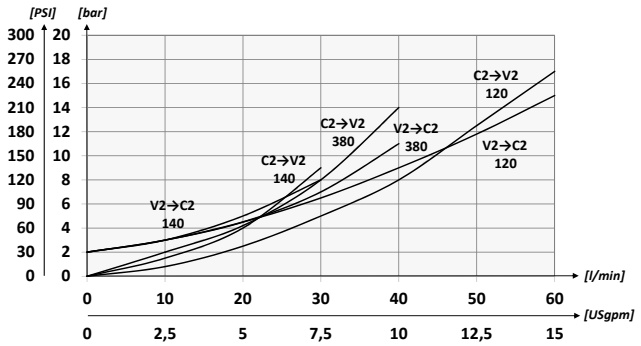


CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
VBZL		2	

01	VALVOLE DI BILANCIAMENTO SINGOLE PER CENTRO APERTO A TARATURA FISSA (SINGLE COUNTERBALANCE VALVES FIXED SETTING FOR OPEN CENTER)		VBZL
02	DIMENSIONE (SIZE)	BSPP 1/4	140
		BSPP 3/8	380
		BSPP 1/2	120
05	Taratura (Setting) **Q=5 l/min 350 bar** (5075 PSI)		2
04	MATERIALE (MATERIAL)	Acciaio + zincatura (Steel + zinc-plating)	S
		Acciaio + zinco-nichel (Steel + zinc-nickel)	K
	Rapporto di pilotaggio (Pilot ratio) 1:4.25		

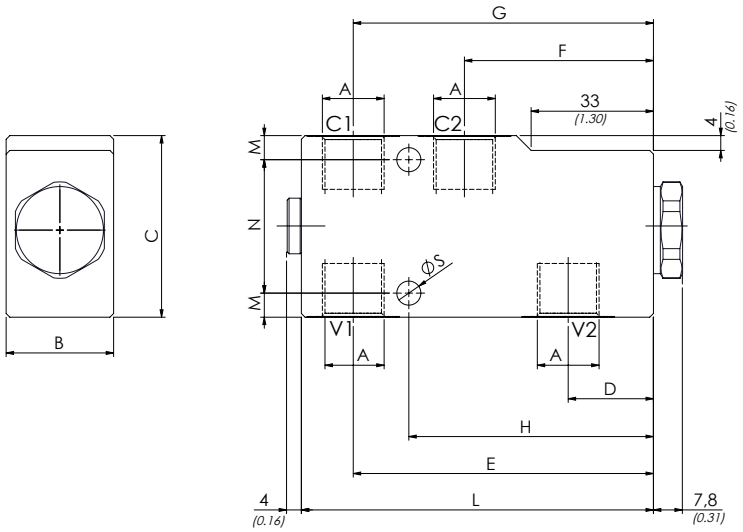
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



mm
(Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

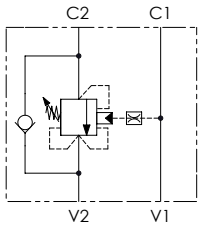
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	M	N	S	PESO APPROX (kg) APPROX WEIGHT (lbt)
VBZL140	**BSPP 1/4**	**30** (7.9)	**350** (5075)	**29** (1.14)	**49** (1.93)	**23** (0.91)	**81** (3.19)	**51** (2,01)	**81** (3.19)	**66** (2.60)	**95** (3.74)	**6,5** (0.26)	**36** (1.42)	**6,5** (0.26)	**0,91** (2.00)
VBZL380	**BSPP 3/8**	**40** (10.6)													**0,85** (1.87)
VBZL120	**BSPP 1/2**	**60** (15.9)			**59** (2.32)	**21** (0.83)	**84** (3.30)		**84** (3.31)	**67,5** (2.66)	**100** (3.94)	**9,5** (0.37)	**40** (1.57)		**1,02** (2.24)

CODICE ORDINAZIONE / ORDERING CODE

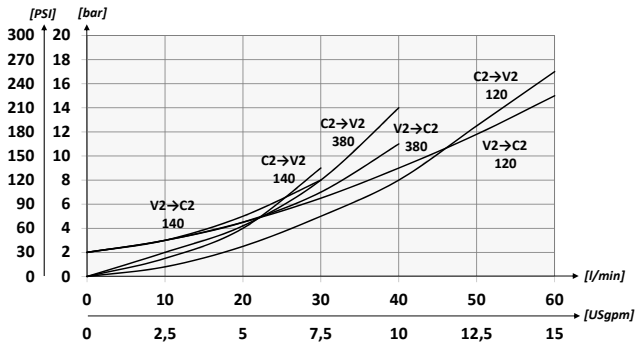
01	02	03	04	05
VCCL			S	

01	VALVOLE DI BILANCIAMENTO SINGOLE PER CENTRO CHIUSO (SINGLE COUNTERBALANCE VALVES FOR CLOSED CENTER)				VCCL
02	DIMENSIONE (SIZE)		BSPP 1/4		140
			BSPP 3/8		380
			BSPP 1/2		120
03	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	1
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA (SPRING) **60/350 bar** (870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	2
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
04	MATERIALE (MATERIAL)		Acciaio + zincatura (Steel + zinc-plating)		S
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)		1:4.25 Standard		/
			1:8.75		8

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



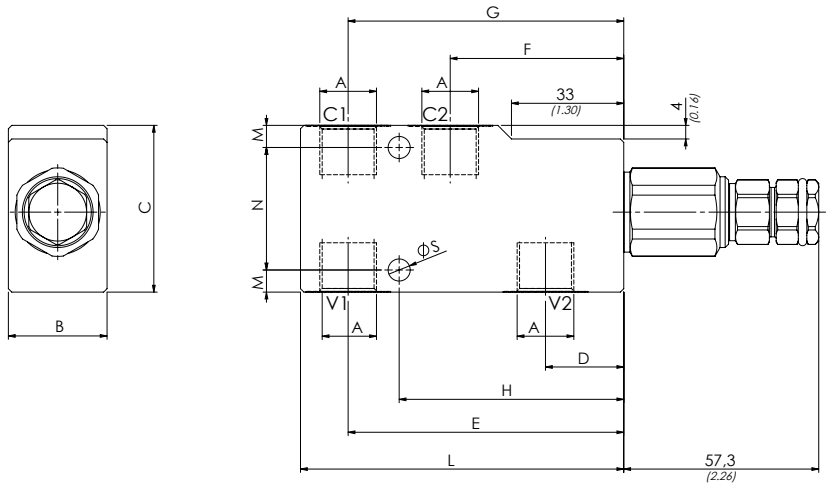
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

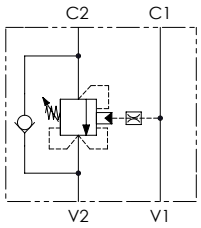


mm (Inches)

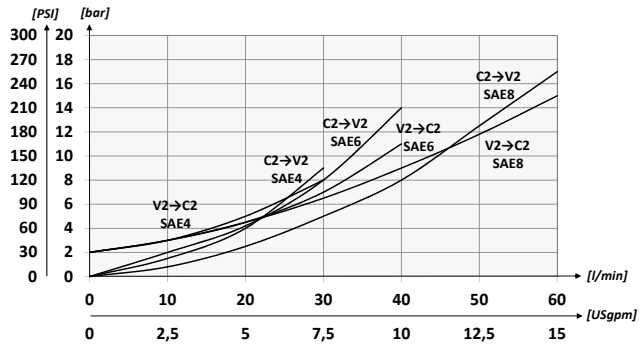
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	M	N	S	PESO APPROX APPROX WEIGHT kg-lbt
VCCL140	BSPP 1/4	**30** (7.9)	**350** (5075)	**29** (1.14)	**49** (1.93)	**23** (0.91)	**81** (3.19)	**51** (2,01)	**81** (3.19)	**66** (2.60)	**95** (3.74)	**6,5** (0.26)	**36** (1.42)	**6,5** (0.26)	**1,02** (2.24)
VCCL380	BSPP 3/8	**40** (10.6)													**0,98** (2.16)
VCCL120	BSPP 1/2	**60** (15.9)			**59** (2.32)	**21** (0.83)	**84** (3.30)		**84** (3.31)	**67,5** (2.66)	**100** (3.94)	**9,5** (0.37)	**40** (1.57)		**1,15** (2.53)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES



CODICE ORDINAZIONE / ORDERING CODE

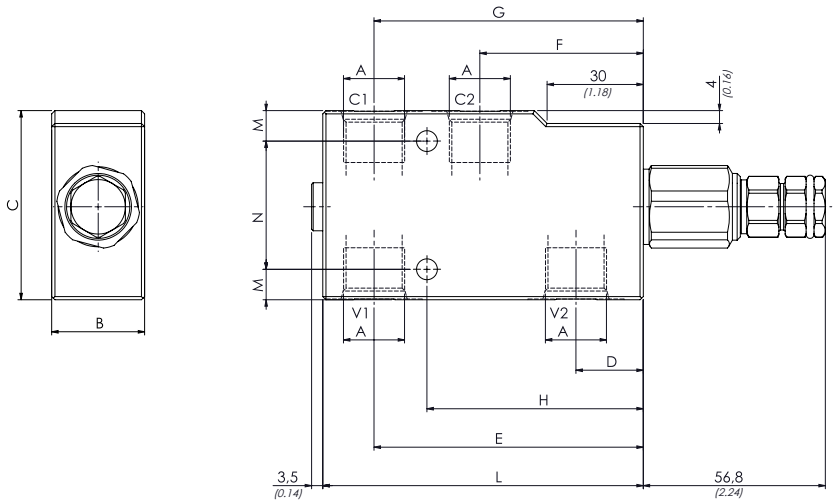
01	02	03	04	05
VCCL			S	

01	VALVOLE DI BILANCIAMENTO SINGOLE PER CENTRO CHIUSO (SINGLE COUNTERBALANCE VALVES FOR CLOSED CENTER)				**VCCL**
02	DIMENSIONE (SIZE)		7/16-20UNF		**4**
			9/16-18UNF		**6**
			3/4-16UNF		**8**
03	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	**1**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA (SPRING) **60/350 bar** (870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	**2**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
04	MATERIALE (MATERIAL)		Acciaio + zincatura (Steel + zinc-plating)		**S**
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)		1:4.25 Standard		**/**
			1:8.75		**8**

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

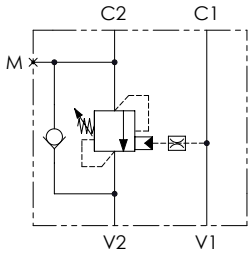


mm
(Inches)

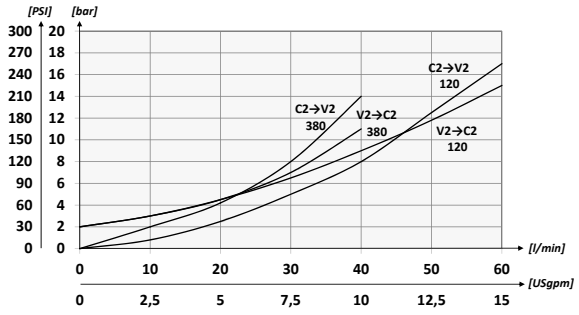
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	M	N	S	PESO APPROX APPROX WEIGHT kg-lbt
VCCL4	**7/16-20UNF**	**30** (7.9)	**350** (5075)	**29** (1.14)	**49** (1.93)	**23** (0.91)	**81** (3.19)	**51** (2,01)	**81** (3.19)	**66** (2.60)	**95** (3.74)	**6,5** (0.26)	**36** (1.42)	**6,5** (0.26)	**1,02** (2.24)
VCCL6	**9/16-18UNF**	**40** (10.6)													**0,98** (2.16)
VCCL8	**3/4-16UNF**	**60** (15.9)			**59** (2.32)	**21** (0.83)	**84** (3.30)		**84** (3.31)	**67,5** (2.66)	**100** (3.94)	**9,5** (0.37)	**40** (1.57)		**1,15** (2.53)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES



CODICE ORDINAZIONE / ORDERING CODE

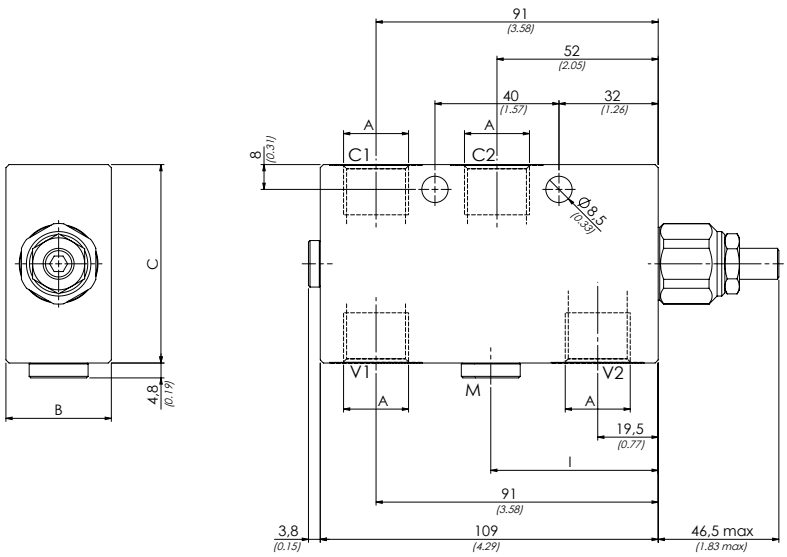
01	02	03	04	05
VBLP				

01	VALVOLE DI BILANCIAMENTO SINGOLE PER CENTRO APERTO (SINGLE COUNTERBALANCE VALVES FOR OPEN CENTER)				VBLP
02	DIMENSIONE (SIZE)		BSPP 3/8		380
			BSPP 1/2		120
03	MOLLA 30/210 BAR (SPRING 435/3045 PSI)	Rp 1:4.25	78 bar/al giro (1131 PSI/turn)	Taratura standard (Std. setting) Q=5 l/min 200 bar (2900 PSI)	1
		Rp 1:8.75	160 bar/al giro (2320 PSI/turn)		
	MOLLA 60/350 BAR (SPRING 870/5075 PSI)	Rp 1:4.25	135 bar/al giro (1958 PSI/turn)	Taratura standard (Std. setting) Q=5 l/min 350 bar (5075 PSI)	2
		Rp 1:8.75	160 bar/al giro (2320 PSI/turn)		
04	MATERIALE (MATERIAL)		Acciaio + zincatura (Steel + zinc-plating)		S
			Acciaio + zinco-nichel (Steel + zinc-nickel)		K
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)		1:4.25 Standard		/
			1:8.75		8

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

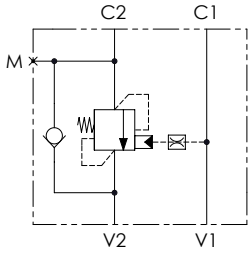
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	I	M	PESO APPROX (kg) APPROX WEIGHT (lbt)
VBLP380	BSPP 3/8	40 (10.6)	350 (5075)	29 (1.14)	54 (2.13)	/	/	1,21 (2.63)
VBLP120	BSPP 1/2	60 (15.9)		34 (1.34)	64 (2.52)	54 (2.13)	BSPP 1/4	1,59 (3.46)

CODICE ORDINAZIONE / ORDERING CODE

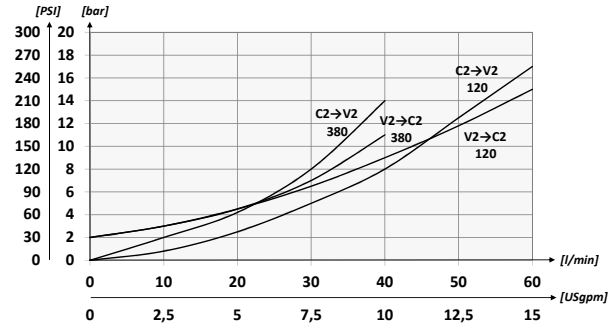
01	02	03	04
VBZP		**2**	

01	VALVOLE DI BILANCIAMENTO SINGOLE PER CENTRO APERTO A TARATURA FISSA (SINGLE COUNTERBALANCE VALVES FIXED SETTING FOR OPEN CENTER)		**VBZP**
02	DIMENSIONE (SIZE)	BSPP 3/8	**380**
		BSPP 1/2	**120**
03	Taratura (Setting) **Q=5 l/min 350 bar** (5075 PSI)		**2**
04	MATERIALE (MATERIAL)	Acciaio + zincatura (Steel + zinc-plating)	**S**
		Acciaio + zinco-nichel (Steel + zinc-nickel)	**K**
Rapporto di pilotaggio (Pilot ratio) 1:4.25			

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



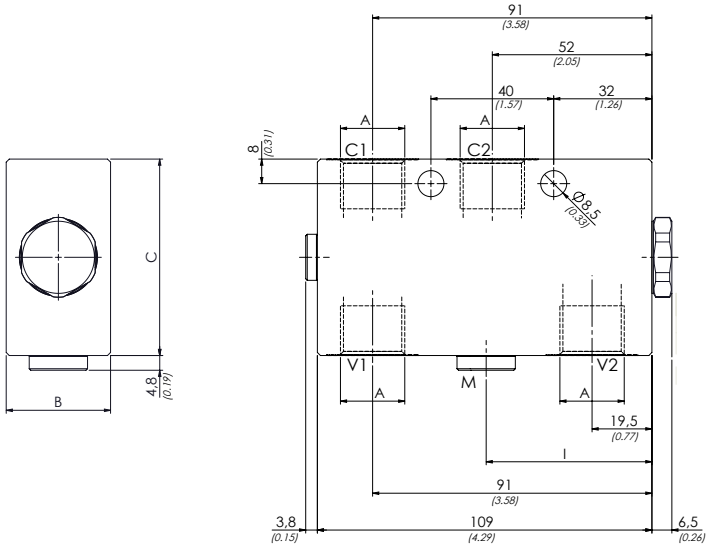
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

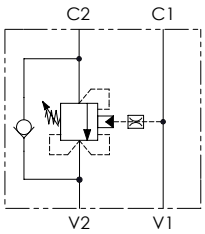


[mm / (Inches)]

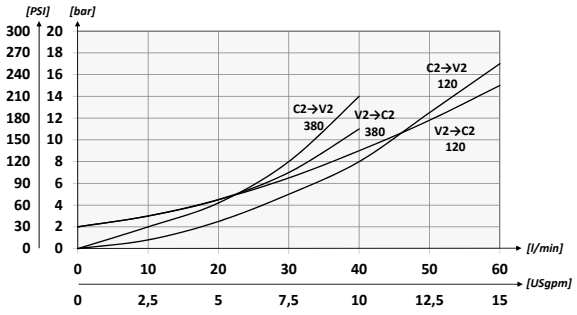
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	I	M	PESO APPROX (kg) APPROX WEIGHT (lbt)
VBZP380	**BSPP 3/8**	**40** (10.6)	**350** (5075)	**29** (1.14)	**54** (2.13)	/	/	**1,14** (2.50)
VBZP120	**BSPP 1/2**	**60** (15.9)		**34** (1.34)	**64** (2.52)	**54** (2.13)	**BSPP 1/4**	**1,52** (3.34)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES



CODICE ORDINAZIONE / ORDERING CODE

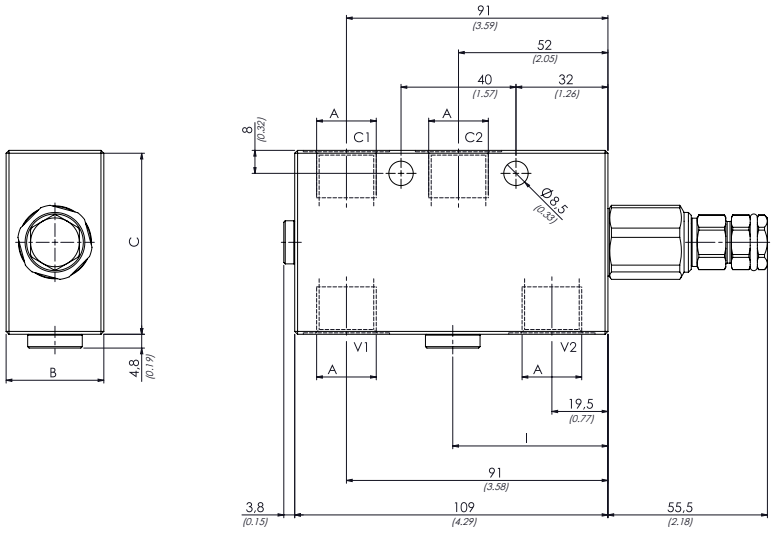
01	02	03	04	05
VCLP			S	

01	VALVOLE DI BILANCIAMENTO SINGOLE PER CENTRO CHIUSO (SINGLE COUNTERBALANCE VALVES FOR CLSOED CENTER)				**VCLP**
02	DIMENSIONE (SIZE)		BSPP 3/8		**380**
			BSPP 1/2		**120**
03	**MOLLA 30/210 BAR** (SPRING 435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	**1**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA 60/350 BAR (SPRING 870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	**2**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
04	MATERIALE (MATERIAL)		Acciaio + zincatura (Steel + zinc-plating)		**S**
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)		1:4.25 Standard		**/**
			1:8.75		**8**

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

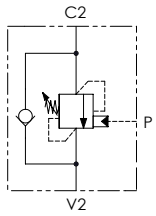


[mm / (Inches)]

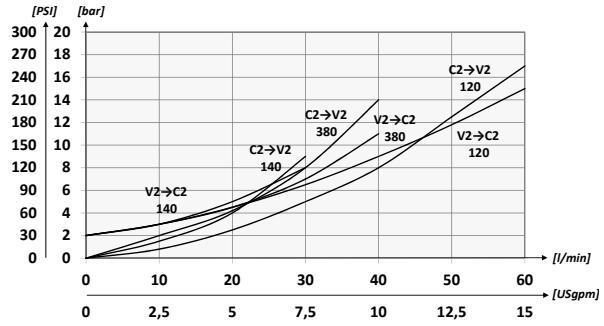
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	I	M	PESO APPROX (kg) APPROX WEIGHT (lbt)
VCLP380	**BSPP 3/8**	**40** (10.6)	**350** (5075)	**29** (1.14)	**54** (2.13)	/	/	**1,21** (2.63)
VCLP120	**BSPP 1/2**	**60** (15.9)		**34** (1.34)	**64** (2.52)	**54** (2.13)	**BSPP 1/4**	**1,59** (3.46)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES



CODICE ORDINAZIONE / ORDERING CODE

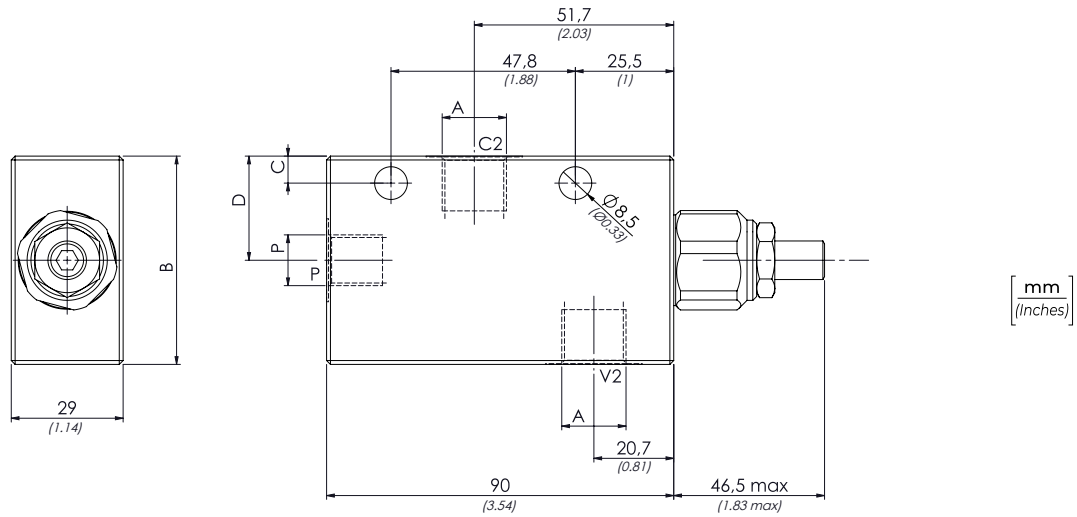
01	02	03	04	05
VBCR				

01	VALVOLE DI BILANCIAMENTO SINGOLE PER CENTRO APERTO - PILOTAGGIO ESTERNO SINGLE COUNTERBALANCE VALVES FOR OPEN CENTER - EXTERNAL PILOT				**VBCR**
02	DIMENSIONE (SIZE)		BSPP 1/4		**140**
			BSPP 3/8		**380**
			BSPP 1/2		**120**
03	**MOLLA 30/210 BAR** (SPRING 435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	**1**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA 60/350 BAR (SPRING 870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	**2**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
04	MATERIALE (MATERIAL)		Acciaio + zincatura (Steel body + zinc-plating)		**S**
			Acciaio + zinco-nichel (Steel body + zinc-nickel)		**K**
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)		1:4.25 Standard		**/**
			1:8.75		**8**

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)			
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)			
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**			
Temperatura dell'olio - Oil temperature	**-20°C**	**+80°C**	-4°F	+ 176°F
Temperatura ambiente - Environment temperature	**-20°C**	**+50°C**	-4°F	+ 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

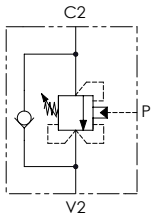
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	D	A	P	PESO APPROX (kg) APPROX WEIGHT (lbt)
VBCR140	BSPP 1/4	30 (7.9)	350 (5075)	54 (2.13)	7 (0.28)	27 (1.06)	BSPP 1/4	BSPP 1/4	1,06 (2.33)
VBCR380	BSPP 3/8	40 (10.6)					BSPP 3/8		1,21 (2.63)
VBCR120	BSPP 1/2	60 (15.9)		64 (2.52)	11 (0.43)	32 (1.26)	BSPP 1/2		1,59 (3.46)

CODICE ORDINAZIONE / ORDERING CODE

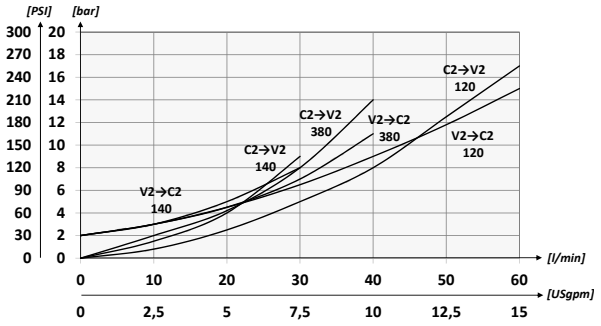
01	02	03	04	05
VCCR			S	

01	VALVOLE DI BILANCIAMENTO SINGOLE PER CENTRO CHIUSO - PILOTAGGIO ESTERNO SINGLE COUNTERBALANCE VALVES FOR CLOSED CENTER - EXTERNAL PILOT				**VCCR**
02	DIMENSIONE (SIZE)		BSPP 1/4		**140**
			BSPP 3/8		**380**
			BSPP 1/2		**120**
03	**MOLLA 30/210 BAR** (SPRING 435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	**1**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA 60/350 BAR (SPRING 870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	**2**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
04	MATERIALE (MATERIAL)		Acciaio + zincatura (Steel body + zinc-plating)		**S**
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)		1:4.25 Standard		**/**
			1:8.75		**8**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



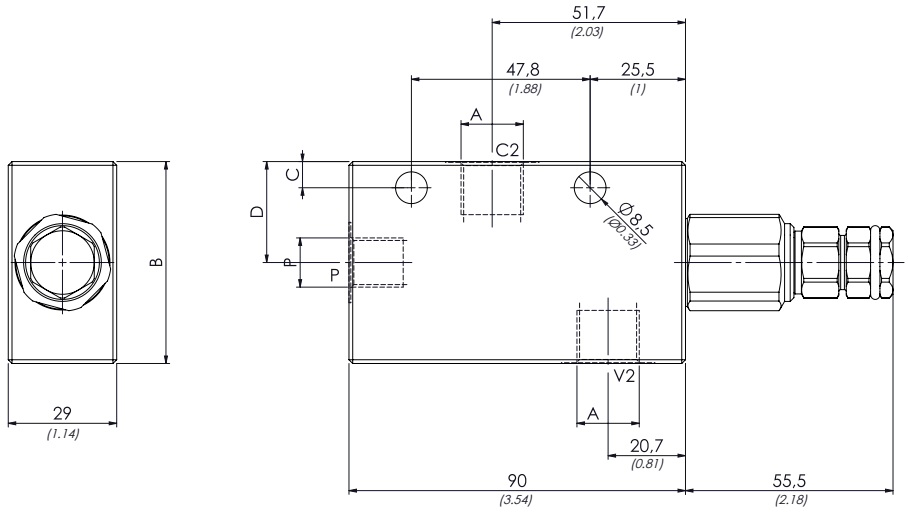
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



mm
(Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	D	A	P	PESO APPROX (kg) APPROX WEIGHT (lbt)
VCCR140	BSPP 1/4	30 (7.9)	350 (5075)	54 (2.13)	7 (0.28)	27 (1.06)	BSPP 1/4	BSPP 1/4	1,06 (2.33)
VCCR380	BSPP 3/8	40 (10.6)					BSPP 3/8		1,21 (2.63)
VCCR120	BSPP 1/2	60 (15.9)		64 (2.52)	11 (0.43)	32 (1.26)	BSPP 1/2		1,59 (3.46)

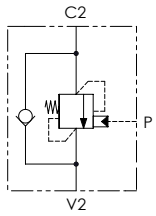
Aggiornamento - Update 20V-2020

CODICE ORDINAZIONE / ORDERING CODE

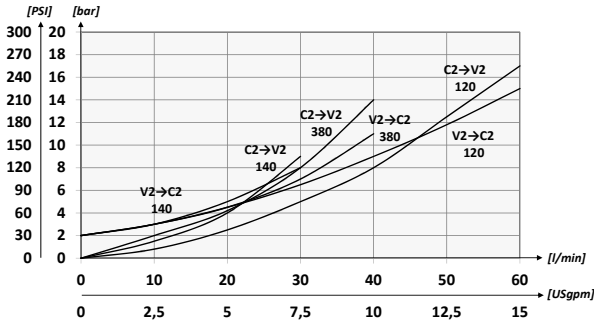
01	02	03	04
VBZR		**2**	

01	VALVOLE DI BILANCIAMENTO SINGOLE PER CENTRO APERTO - PILOTAGGIO ESTERNO A TARTURA FISSA SINGLE COUNTERBALANCE VALVES FIXED SETTING FOR OPEN CENTER - EXTERNAL PILOT		**VBZR**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
03	Taratura (Setting) **Q=5 l/min 350 bar** (5075 PSI)		**2**
04	MATERIALE (MATERIAL)	Acciaio + zincatura (Steel body + zinc-plating)	**S**
		Acciaio + zinco-nichel (Steel body + zinc-nickel)	**K**
	Rapporto di pilotaggio (Pilot ratio) 1:4.25		

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



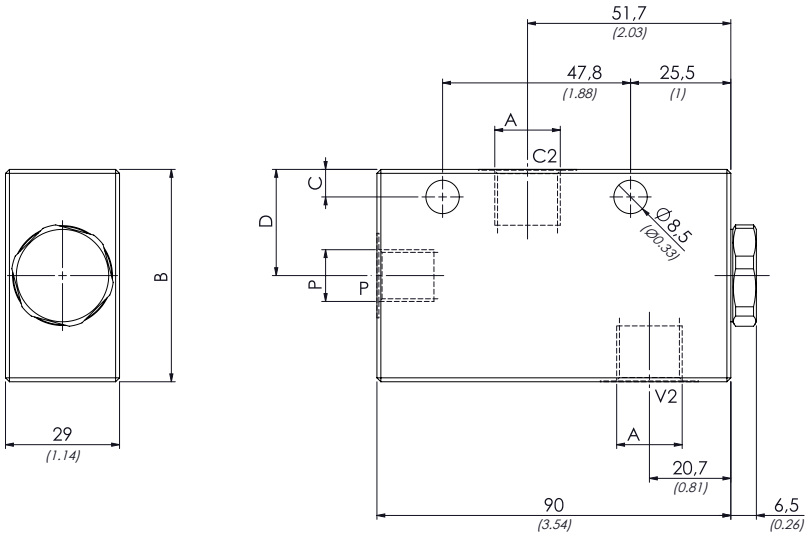
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

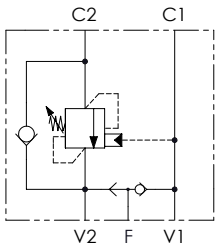


mm (Inches)

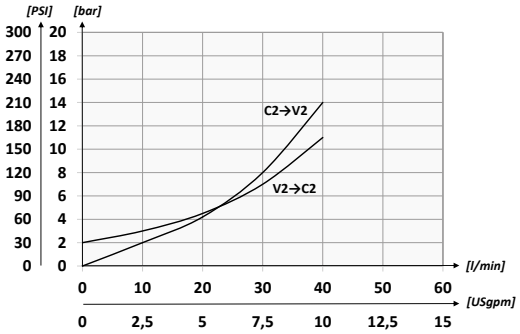
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	D	A	P	PESO APPROX (kg) APPROX WEIGHT (lbt)
VBZR140	**BSPP 1/4**	**30** (7.9)	**350** (5075)	**54** (2.13)	**7** (0.28)	**27** (1.06)	**BSPP 1/4**	**BSPP 1/4**	**1,06** (2.33)
VBZR380	**BSPP 3/8**	**40** (10.6)					**BSPP 3/8**		**1,21** (2.63)
VBZR120	**BSPP 1/2**	**60** (15.9)		**64** (2.52)	**11** (0.43)	**32** (1.26)	**BSPP 1/2**		**1,59** (3.46)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES



CODICE ORDINAZIONE / ORDERING CODE

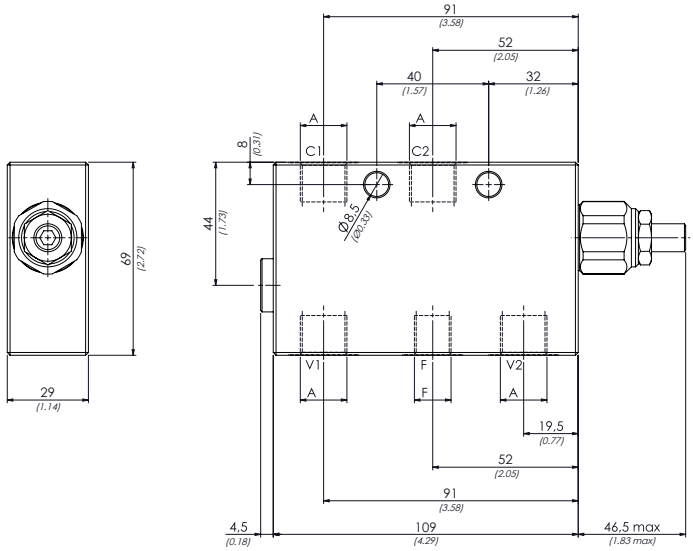
01	02	03	04	05
VBFP	380			

01	VALVOLE DI BILANCIAMENTO SINGOLE PER CENTRO APERTO CON SBLOCCA FRENO (SINGLE COUNTERBALANCE VALVES FOR OPEN CENTER WITH BRAKE UN-LOCKING)				**VBFP**
02	DIMENSIONE (SIZE)			BSPP 3/8	**380**
03	**MOLLA 30/210 BAR** (SPRING 435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	**1**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA 60/350 BAR (SPRING 870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	**2**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
04	MATERIALE (MATERIAL)		Acciaio + zincatura (Steel + zinc-plating)		**S**
			Acciaio + zinco-nichel (Steel + zinc-nickel)		**K**
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)			1:4.25 Standard	**/**

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

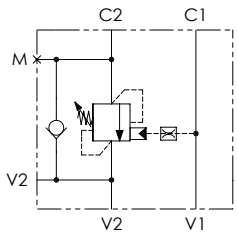


mm (Inches)

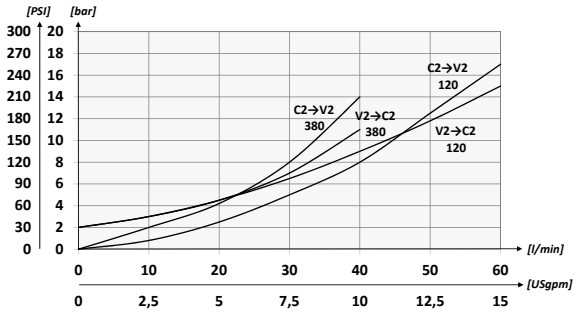
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	A	F	PESO APPROX (kg) APPROX WEIGHT (lbt)
VBFP380	**BSPP 3/8**	**40** (10.6)	**350** (5075)	**BSPP 3/8**	**BSPP 1/4**	**1,51** (3.33)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES



CODICE ORDINAZIONE / ORDERING CODE

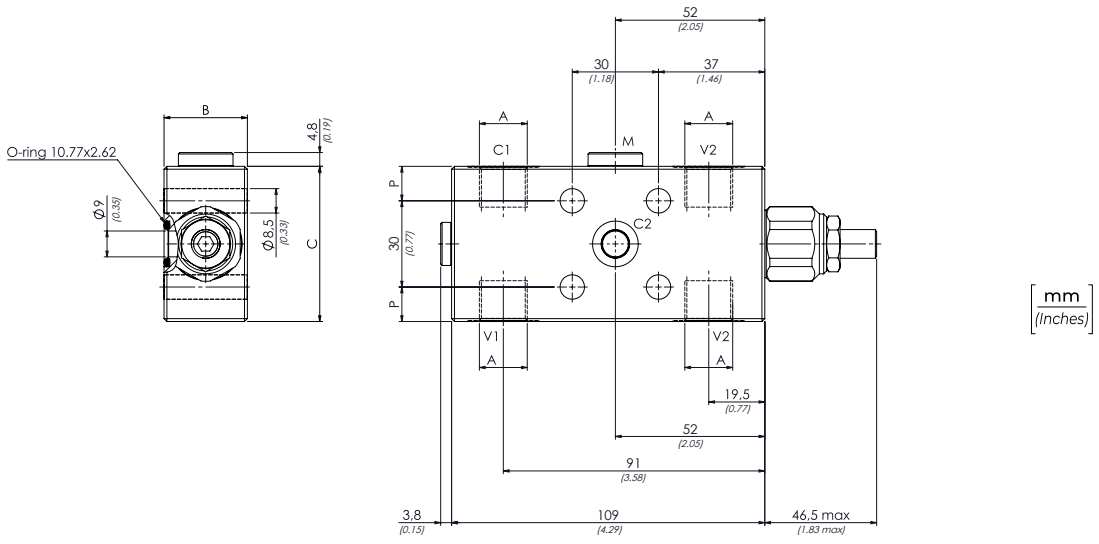
01	02	03	04	05
VBLH				

01	VALVOLE DI BILANCIAMENTO SINGOLE PER CENTRO APERTO - FLANGIATE SINGOLE (SINGLE COUNTERBALANCE VALVES FOR OPEN CENTER - SINGLE FLANGED VERSION)				**VBLH**
02	DIMENSIONE (SIZE)		BSPP 3/8		**380**
			BSPP 1/2		**120**
03	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	**1**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA (SPRING) **60/350 bar** (870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	**2**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
04	MATERIALE (MATERIAL)	Acciaio + zincatura (Steel + zinc-plating)			**S**
		Acciaio + zinco-nichel (Steel + zinc-nickel)			**K**
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)			1:4.25 Standard	**/**
				1:8.75	**8**

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

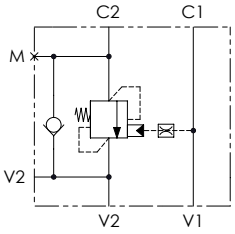
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	M	P	PESO APPROX (kg) APPROX WEIGHT (lbt)
VBLH380	**BSPP 3/8**	**40** (10.6)	**350** (5075)	**29** (1.14)	**54** (2.13)	**BSPP 1/4**	**12** (0.47)	**1,18** (2.60)
VBLH120	**BSPP 1/2**	**60** (15.9)		**34** (1.34)	**64** (2.52)		**17** (0.67)	**1,57** (3.49)

CODICE ORDINAZIONE / ORDERING CODE

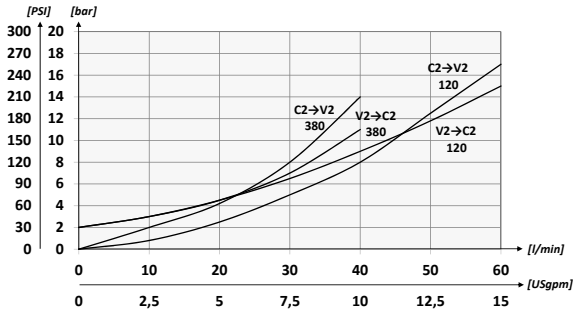
01	02	03	04
VBZH		2	

01	VALVOLE DI BILANCIAMENTO SINGOLE PER CENTRO APERTO - FLANGIATE SINGOLE A TARATURA FISSA (SINGLE COUNTERBALANCE VALVES FIXED SETTING FOR OPEN CENTER - SINGLE FLANGED VERSION)		**VBZH**
02	DIMENSIONE (SIZE)	BSPP 3/8	**380**
		BSPP 1/2	**120**
03	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)		**2**
04	MATERIALE (MATERIAL)	Acciaio + zincatura (Steel + zinc-plating)	**S**
		Acciaio + zinco-nichel (Steel + zinc-nickel)	**K**
	Rapporto di pilotaggio (Pilot ratio) 1:4.25		

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



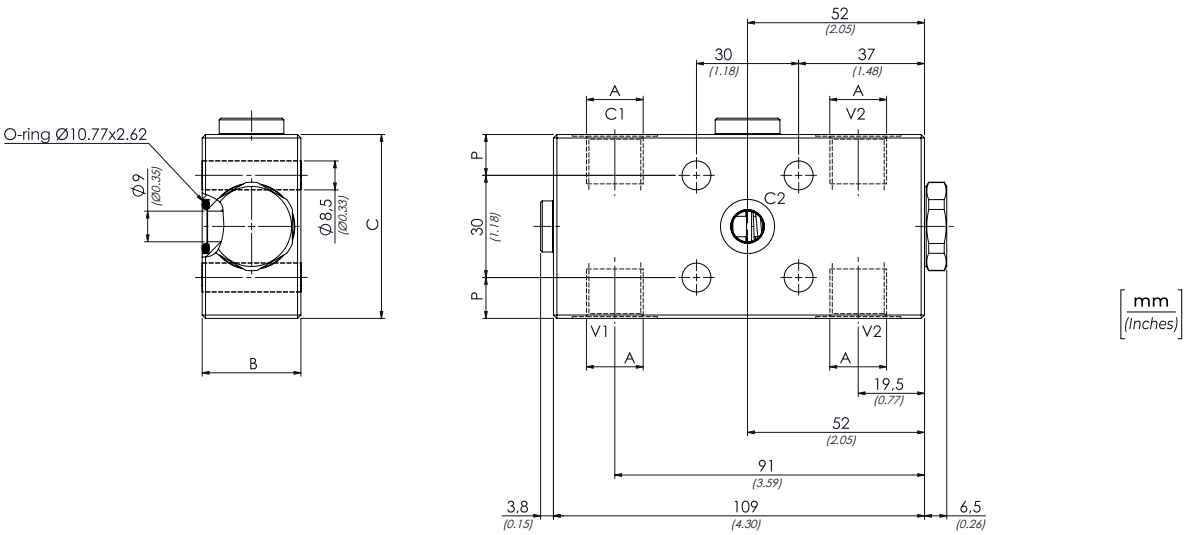
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

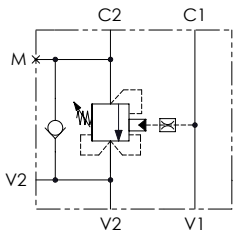
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	M	P	PESO APPROX (kg) APPROX WEIGHT (lbt)
VBZH380	**BSPP 3/8**	**40** (10.6)	**350** (5075)	**29** (1.14)	**54** (2.13)	**BSPP 1/4**	**12** (0.47)	**1,11** (2.49)
VBZH120	**BSPP 1/2**	**60** (15.9)		**34** (1.34)	**64** (2.52)		**17** (0.67)	**1,55** (3.41)

CODICE ORDINAZIONE / ORDERING CODE

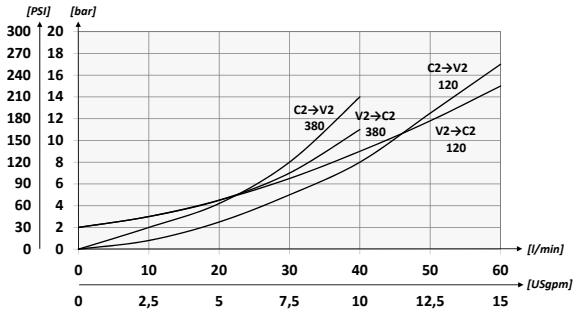
01	02	03	04	05
VCLH			S	

01	VALVOLE DI BILANCIAMENTO SINGOLE PER CENTRO CHIUSO - FLANGIATE SINGOLE (SINGLE COUNTERBALANCE VALVES FOR CLOSED CENTER - SINGLE FLANGED VERSION)				**VCLH**
02	DIMENSIONE (SIZE)		BSPP 3/8		**380**
			BSPP 1/2		**120**
03	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	**1**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA (SPRING) **60/350 bar** (870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	**2**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
04	MATERIALE (MATERIAL)	Acciaio + zincatura (Steel + zinc-plating)			**S**
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)			1:4.25 Standard	**/**
				1:8.75	**8**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



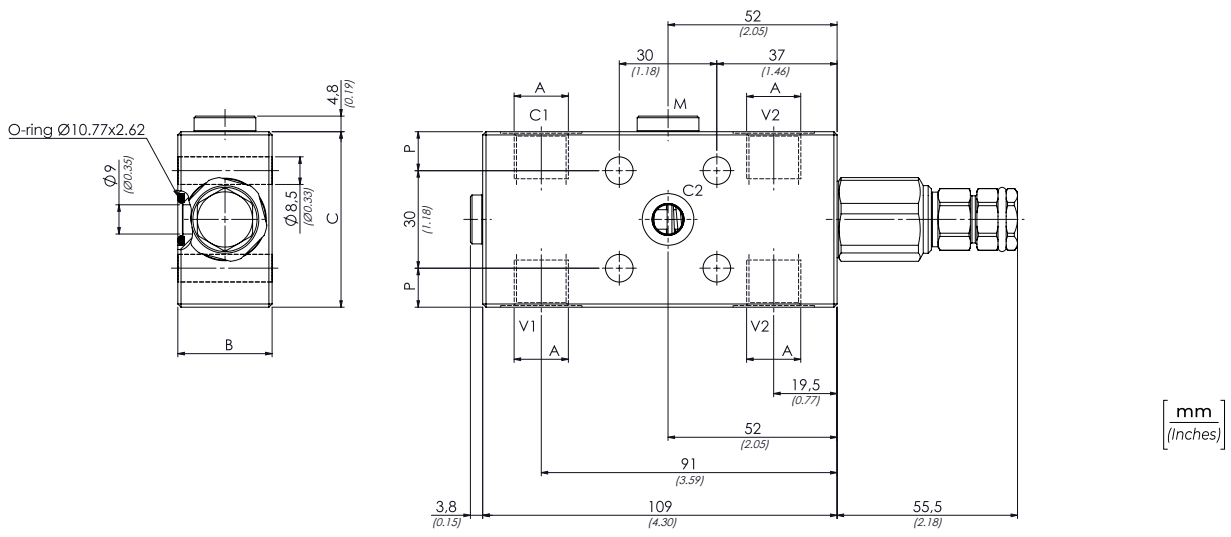
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

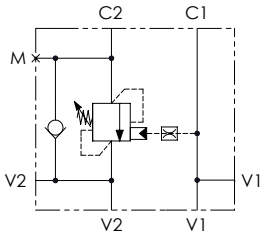
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



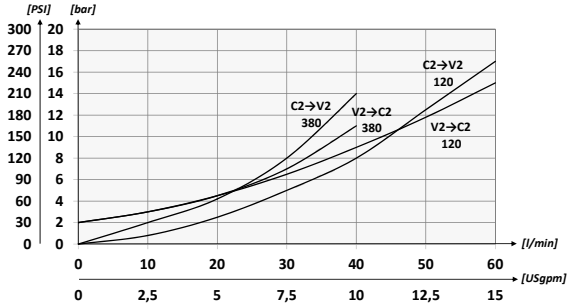
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	M	P	PESO APPROX (kg) APPROX WEIGHT (lbt)
VCLH380	**BSPP 3/8**	**40** (10.6)	**350** (5075)	**29** (1.14)	**54** (2.13)	**BSPP 1/4**	**12** (0.47)	**1,23** (2.85)
VCLH120	**BSPP 1/2**	**60** (15.9)		**34** (1.34)	**64** (2.52)		**17** (0.67)	**1,62** (3.61)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES



CODICE ORDINAZIONE / ORDERING CODE

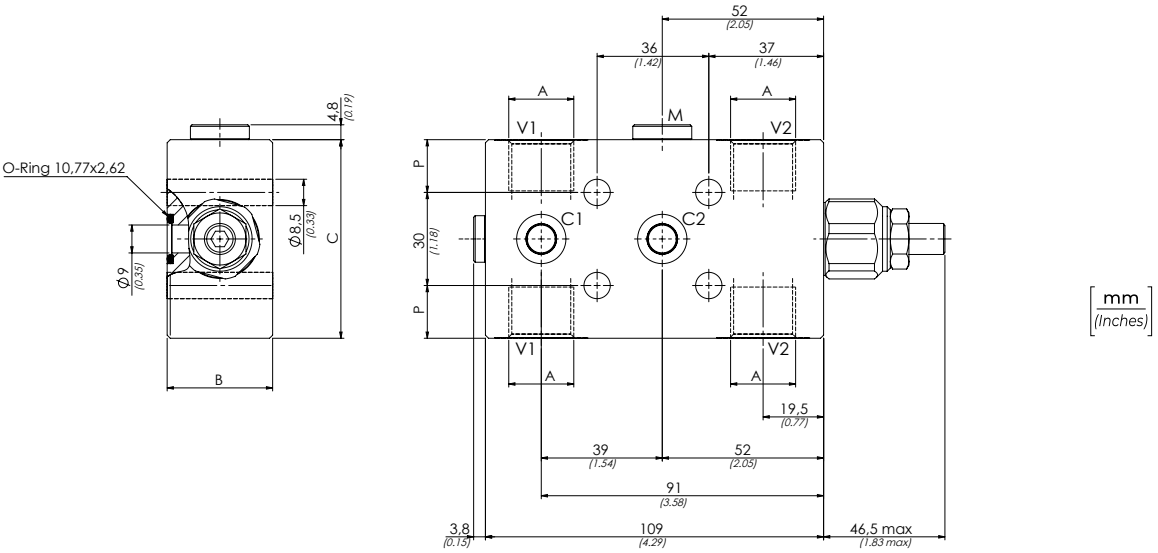
01	02	03	04	05
VBLF				

01	VALVOLE DI BILANCIAMENTO SINGOLE PER CENTRO APERTO - FLANGIATA DOPPIA (SINGLE COUNTERBALANCE VALVES FOR OPEN CENTER - DOUBLE FLANGED VERSION)				**VBLF**
02	DIMENSIONE (SIZE)		BSPP 3/8		**380**
			BSPP 1/2		**120**
03	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	**1**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA (SPRING) **60/350 bar** (870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	**2**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
04	MATERIALE (MATERIAL)		Acciaio + zincatura (Steel + zinc-plating)		**S**
			Acciaio + zinco-nichel (Steel + zinc-nickel)		**K**
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)		1:4.25 Standard		**/**
			1:8.75		**8**

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

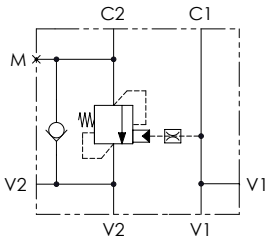
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	M	P	PESO APPROX (kg) APPROX WEIGHT (lbt)
VBLF380	**BSPP 3/8**	**40** (10.6)	**350** (5075)	**29** (1.14)	**54** (2.13)	**BSPP 1/4**	**12** (0.47)	**1,17** (2.55)
VBLF120	**BSPP 1/2**	**60** (15.9)		**34** (1.34)	**64** (2.52)		**17** (0.67)	**1,55** (3.37)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
VBZF		2	

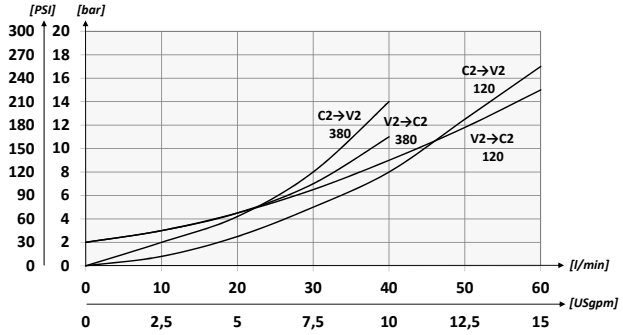
01	VALVOLE DI BILANCIAMENTO SINGOLE PER CENTRO APERTO - FLANGIATE A TARATURA FISSA (SINGLE COUNTERBALANCE VALVES FIXED SETTIN FOR OPEN CENTER - FLANGED VERSION)		VBZF
02	DIMENSIONE (SIZE)	BSPP 3/8	380
		BSPP 1/2	120
03	Taratura (Setting) **Q=5 l/min 350 bar** (5075 PSI)		2
04	MATERIALE (MATERIAL)	Acciaio + zincatura (Steel + zinc-plating)	S
		Acciaio + zinco-nichel (Steel + zinc-nickel)	K
	Rapporto di pilotaggio (Pilot ratio) 1:4.25		

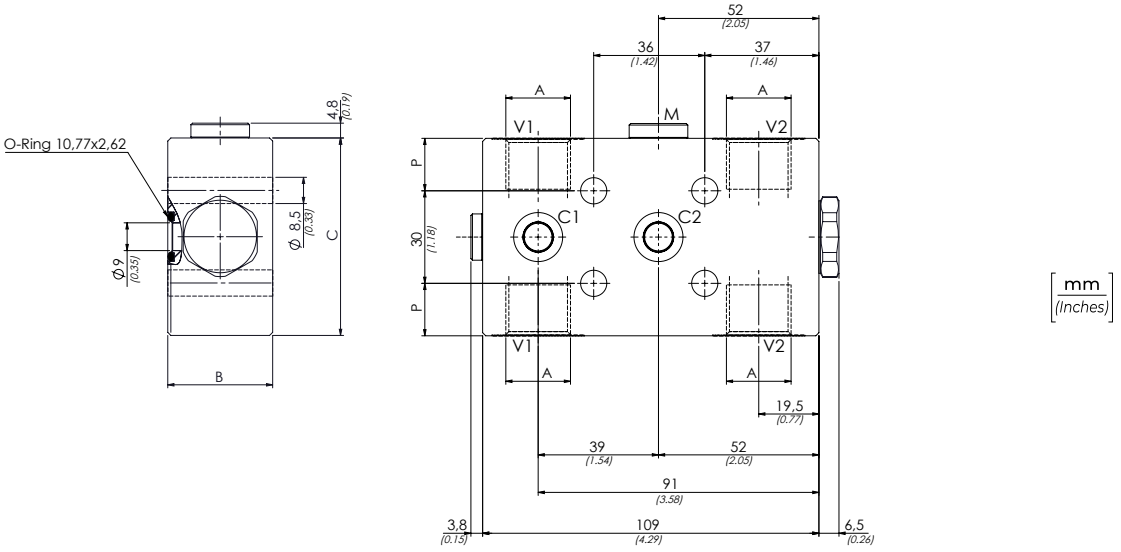
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

PERFORMANCES



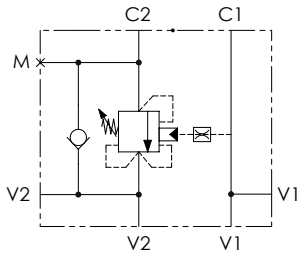


mm (Inches)

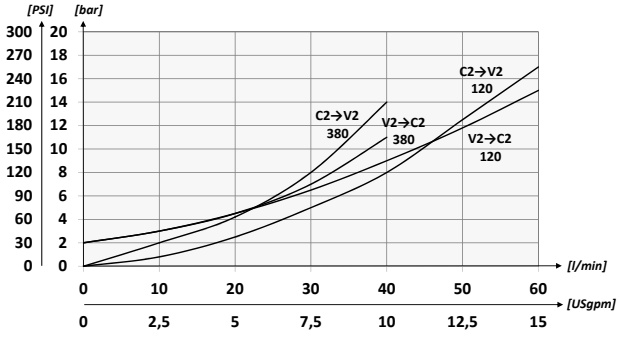
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	M	P	PESO APPROX (kg) APPROX WEIGHT (lbt)
VBZF380	**BSPP 3/8**	**40** (10.6)	**350** (5075)	**29** (1.14)	**54** (2.13)	**BSPP 1/4**	**12** (0.47)	**1,10** (2.42)
VBZF120	**BSPP 1/2**	**60** (15.9)		**34** (1.34)	**64** (2.52)		**17** (0.67)	**1,48** (3.25)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES



CODICE ORDINAZIONE / ORDERING CODE

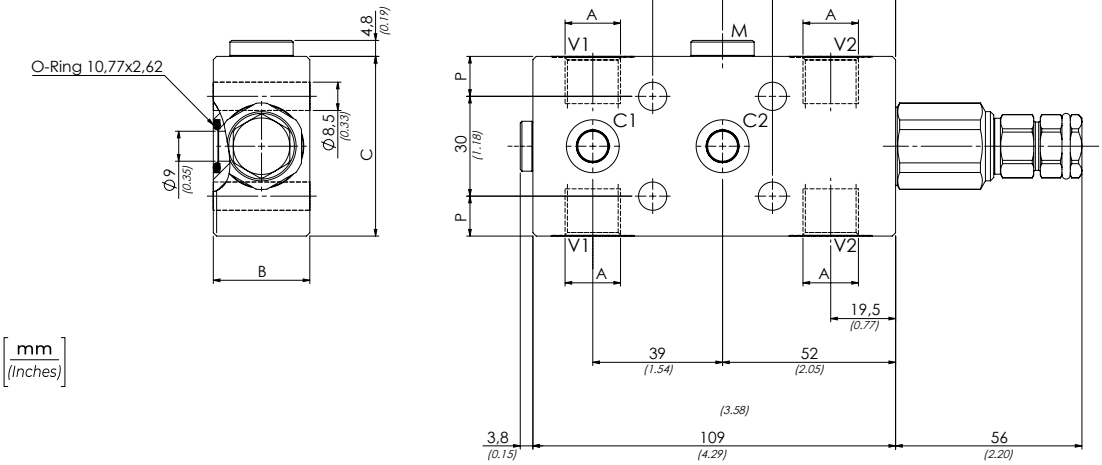
01	02	03	04	05
VCLF			S	

01	VALVOLE DI BILANCIAMENTO SINGOLE PER CENTRO CHIUSO - FLANGIATE (SINGLE COUNTERBALANCE VALVES FOR CLOSED CENTER - FLANGED VERSION)				**VCLF**
02	DIMENSIONE (SIZE)		BSPP 3/8		**380**
			BSPP 1/2		**120**
03	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	**1**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA (SPRING) **60/350 bar** (870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	**2**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
04	MATERIALE (MATERIAL)		Acciaio + zincatura (Steel + zinc-plating)		**S**
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)		1:4.25 Standard		**/**
			1:8.75		**8**

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

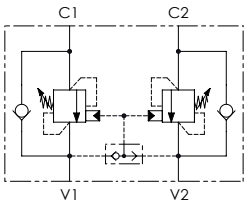
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



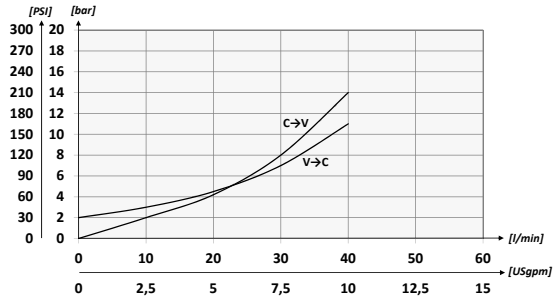
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	M	P	PESO APPROX (kg) APPROX WEIGHT (lbt)
VCLF380	**BSPP 3/8**	**40** (10.6)	**350** (5075)	**29** (1.14)	**54** (2.13)	**BSPP 1/4**	**12** (0.47)	**1,22** (2.69)
VCLF120	**BSPP 1/2**	**60** (15.9)		**34** (1.34)	**64** (2.52)		**17** (0.67)	**1,60** (3.52)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



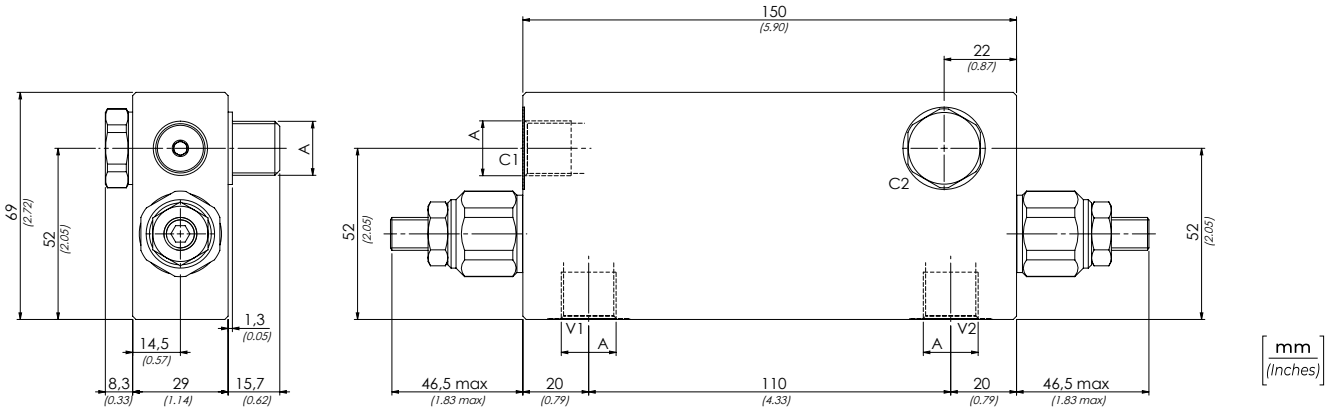
PERFORMANCES



CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04	05
VBCA	380			

01	VALVOLE DI BILANCIAMENTO SINGOLA A BULLONE PER CENTRO APERTO (BOLT-FITTING SINGLE COUNTERBALANCE VALVES FOR OPEN CENTER)				**VBCA**
02	DIMENSIONE (SIZE)	BSPP 3/8			**380**
03	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	**1**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA (SPRING) **60/350 bar** (870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	**2**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
04	MATERIALE (MATERIAL)	Acciaio + zincatura (Steel + zinc-plating)			**S**
		Acciaio + zinco-nichel (Steel + zinc-nickel)			**K**
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)	1:4.25 Standard			**/**
		1:8.75			**8**



DATI TECNICI / TECHNICAL DATA

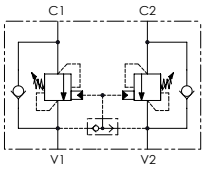
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

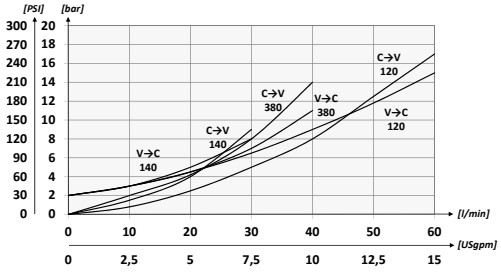
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

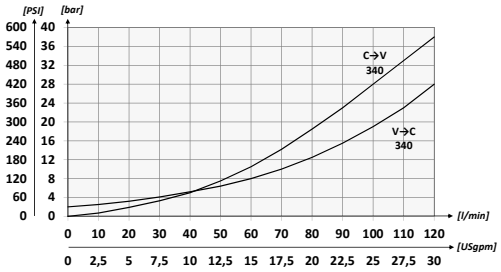
CODICE CODE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX (kg) APPROX WEIGHT (lbt)
VBCA380	**BSPP 3/8**	**40** (10.6)	**350** (5075)	**2,32** (5.11)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES





CODICE ORDINAZIONE / ORDERING CODE

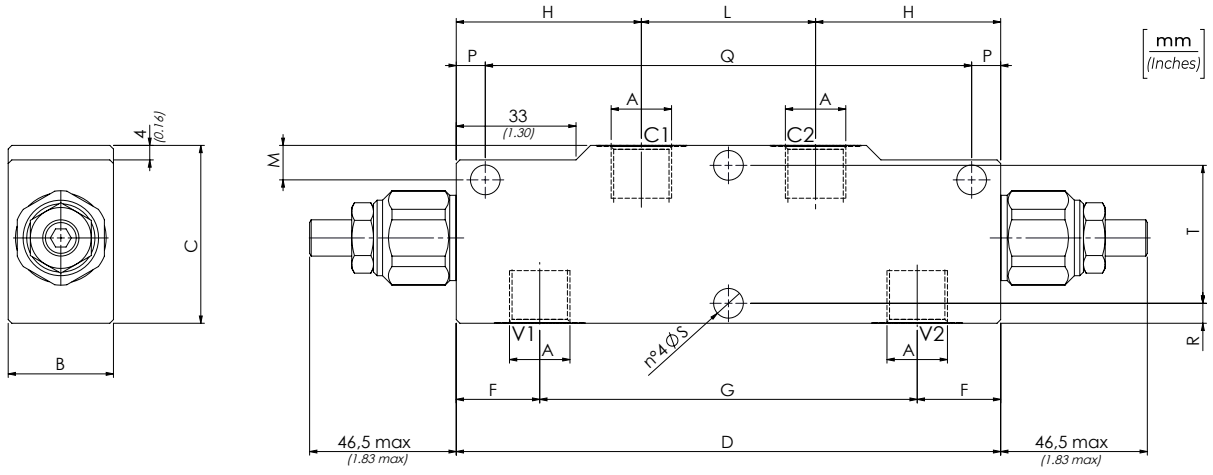
01	02	03	04	05
VBCD				

01	VALVOLE DI BILANCIAMENTO DOPPIE PER CENTRO APERTO (DOUBLE COUNTERBALANCE VALVES FOR OPEN CENTER)					**VBCD**
02	DIMENSIONE (SIZE)		BSPP 1/4			**140**
			BSPP 3/8			**380**
			BSPP 1/2			**120**
			BSPP 3/4			**340**
03	MOLLA (SPRING)	Rp 1:4.25	140 380 120	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting)	**1**
	30/210 bar (435/3045 PSI)	Rp 1:8.75		**160 bar/al giro** (2320 PSI/turn)	**Q=5 l/min 200 bar** (2900 PSI)	
	MOLLA (SPRING)	Rp 1:4.25	140 380 120	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting)	**2**
	60/350 bar (870/5075 PSI)	Rp 1:8.75		**160 bar/al giro** (2320 PSI/turn)	**Q=5 l/min 350 bar** (5075 PSI)	
	MOLLA (SPRING)	Rp 1:6.2	340	**143 bar/al giro** (2074 PSI/turn)	Taratura standard (Std. setting)	
	60/350 bar (870/5075 PSI)	Rp 1:10.6		**242bar/al giroa** (3509 PSI/turn)	**Q=5 l/min 350 bar** (5075 PSI)	
04	MATERIALE (MATERIAL)		Acciaio + zincatura (Steel + zinc-plating)			**S**
			Acciaio + zincatura (Steel + zinc-plating)			**K**
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)		140 380 120	1:4.25 Standard		**/**
				1:8.75		**8**
			340	1:6.2		**/**
				1:10,6		**11**

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

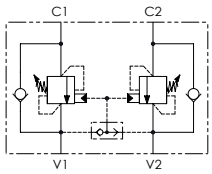
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



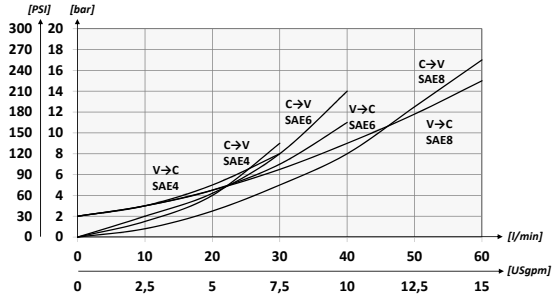
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	F	G	H	L	M	P	Q	R	S	T	Peso Approx Approx weight kg-lbt
VBCD140	BSPP 1/4	30 (7.9)	350 (5075)	29 (1.14)	49 (1.93)	150 (5.91)	23 (0.91)	104 (4.09)	51 (2,01)	48 (1.89)	10 (0.39)	8 (0.31)	134 (5.28)	5,5 (0.22)	8,2 (0.32)	38 (1.50)	1,57 (3,46)
VBCD380	BSPP 3/8	40 (10.6)															1,55 (3,41)
VBCD120	BSPP 1/2	60 (15.9)			59 (2.32)		21 (0.83)	108 (4.25)			12 (0.47)			7,5 (0.29)		43 (1.69)	1,78 (3.92)
VBCD340	BSPP 3/4	120 (31.7)		39 (1.54)	69 (2.72)	210 (8.27)	26 (1.02)	158 (6.22)	72 (2.83)	66 (2.6)	13 (0.51)	10 (0.39)	190 (7.48)	8,5 (0.33)	10,5 (0.41)	52 (2.05)	4,5 (8,81)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES



CODICE ORDINAZIONE / ORDERING CODE

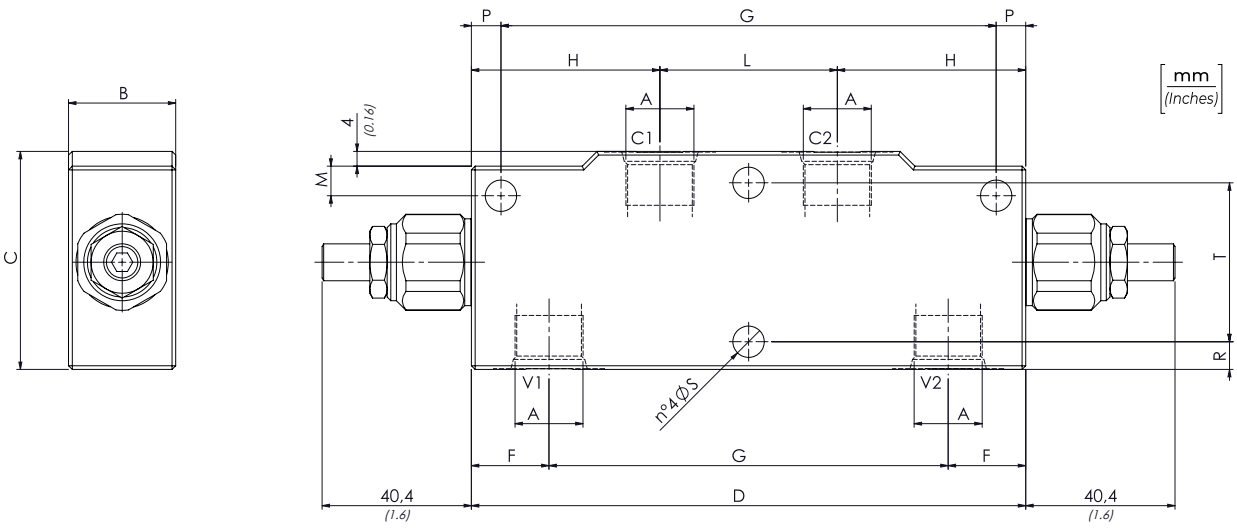
01	02	03	04	05
VBCD				

01	VALVOLE DI BILANCIAMENTO DOPPIE PER CENTRO APERTO DOUBLE COUNTERBALANCE VALVES FOR OPEN CENTER				**VBCD**
02	DIMENSIONE (SIZE)		7/16-20UNF		**4**
			9/16-18UNF		**6**
			3/4-16UNF		**8**
03	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	**1**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA (SPRING) **60/350 bar** (870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	**2**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
04	MATERIALE (MATERIAL)	Acciaio + zincatura (Steel + zinc-plating)			**S**
		Acciaio + zinco-nichel (Steel + zinc-nickel)			**K**
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)			1:4.25 Standard	**/**
				1:8.75	**8**

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

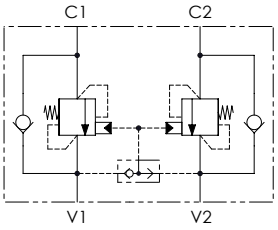
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	F	G	H	L	M	P	R	S	T	PESO APPROX APPROXWEIGHT kg-lbt
VBCD4	**7/16-20UNF**	**30** (7.9)	**350** (5075)	**29** (1.14)	**49** (1.93)	**150** (5.91)	**23** (0.91)	**104** (4.09)	**51** (2,01)	**48** (1.89)	**5,5** (0.22)	**8** (0.31)	**5,5** (0.22)	**8,2** (0.32)	**38** (1.50)	**1,59** (3,50)
VBCD6	**9/16-18UNF**	**40** (10.6)														**1,56** (3,44)
VBCD8	**3/4-16UNF**	**60** (15.9)			**59** (2.32)		**21** (0.83)	**134** (5.27)			**8** (0.31)		**7,5** (0.29)		**43** (1.69)	**1,80** (3.97)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

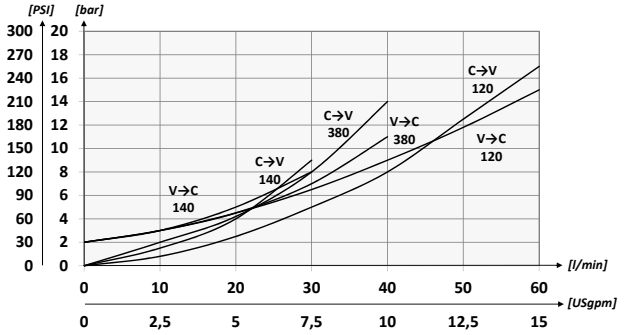


CODICE ORDINAZIONE
ORDERING CODE

01	02	03	04
VBZD		2	

01	VALVOLE DI BILANCIAMENTO DOPPIE PER CENTRO APERTO A TARATURA FISSA (DOUBLE COUNTERBALANCE VALVES FIXED SETTING FOR OPEN CENTER)		**VBZD**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
03	Taratura (Setting) **Q=5 l/min 350 bar** (5075 PSI)		**2**
04	MATERIALE (MATERIAL)	Acciaio + zincatura (Steel + zinc-plating)	**S**
		Acciaio + zinco-nichel (Steel + zinc-nickel)	**K**
	Rapporto di pilotaggio (Pilot ratio) 1:4.25		

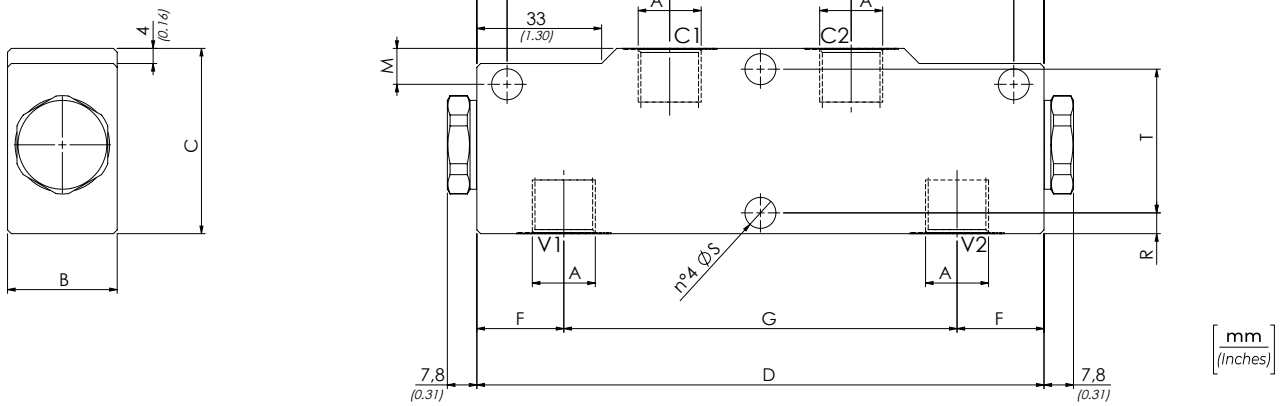
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

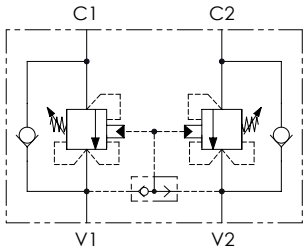
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	F	G	H	L	M	P	Q	R	S	T	PESO APPROX APPROX WEIGHT kg-lbt
VBZD140	**BSPP 1/4**	**30** (7.9)	**350** (5075)	**29** (1.14)	**49** (1.93)	**150** (5.91)	**23** (0.91)	**104** (4.09)	**51** (2,01)	**48** (1.89)	**10** (0.39)	**8** (0.31)	**134** (5.28)	**5,5** (0.22)	**8,2** (0.32)	**38** (1.50)	**1,50** (3,30)
VBZD380	**BSPP 3/8**	**40** (10.6)															**1,48** (3,25)
VBZD120	**BSPP 1/2**	**60** (15.9)			**59** (2.32)		**21** (0.83)	**108** (4.25)			**12** (0.47)			**7,5** (0.29)		**43** (1.69)	**1,71** (3.76)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

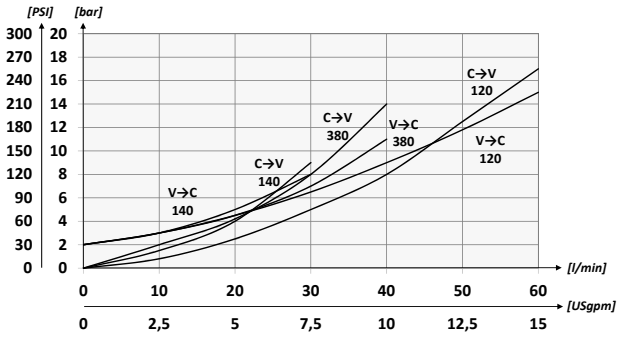


CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04	05
VBCC			S	

01	VALVOLE DI BILANCIAMENTO DOPPIE PER CENTRO CHIUSO (DOUBLE COUNTERBALANCE VALVES FOR CLOSED CENTER)				**VBCC**
02	DIMENSIONE (SIZE)		BSPP 1/4		**140**
			BSPP 3/8		**380**
			BSPP 1/2		**120**
03	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	**1**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA (SPRING) **60/350 bar** (870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	**2**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
04	MATERIALE (MATERIAL)		Acciaio + zincatura (Steel + zinc-plating)		**S**
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)		1:4.25 Standard		**/**
			1:8.75		**8**

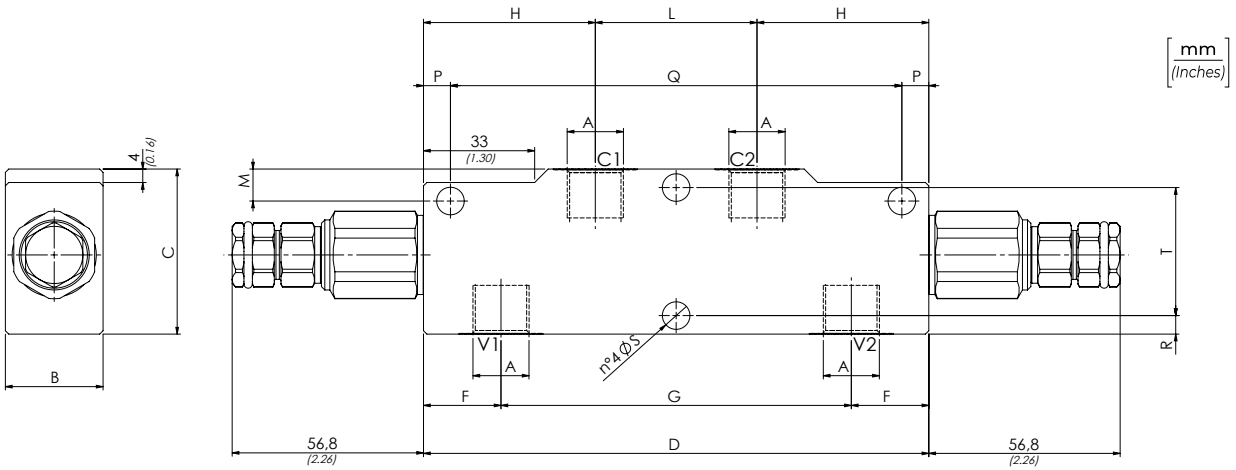
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

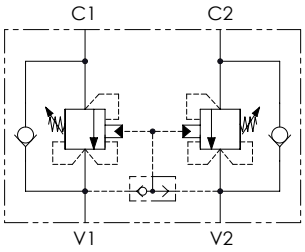
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	F	G	H	L	M	P	Q	R	S	T	PESO APPROX APPROX WEIGHT kg-lbt
VBCC140	**BSPP 1/4**	**30** (8)	**350** (5075)	**29** (1.14)	**49** (1.93)	**150** (5.91)	**23** (0.91)	**104** (4.09)	**51** (2,01)	**48** (1.89)	**10** (0.39)	**8** (0.31)	**134** (5.28)	**5,5** (0.22)	**8,2** (0.32)	**38** (1.50)	**1,68** (3.70)
VBCC380	**BSPP 3/8**	**40** (10.5)															**1,66** (3.66)
VBCC120	**BSPP 1/2**	**60** (16)			**59** (2.32)		**21** (0.83)	**108** (4.25)			**12** (0.47)			**7,5** (0.29)		**43** (1.69)	**1,89** (4.16)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

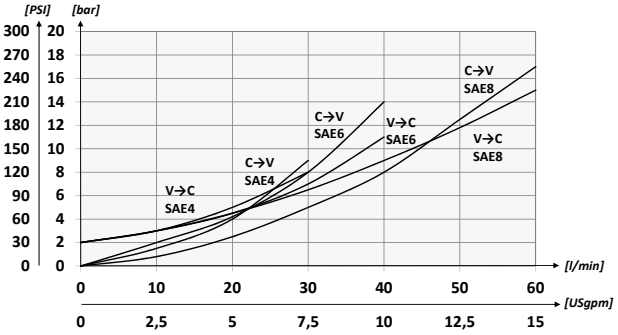


CODICE ORDINAZIONE
ORDERING CODE

01	02	03	04	05
VBCC			S	

01	VALVOLE DI BILANCIAMENTO DOPPIE PER CENTRO CHIUSO (DOUBLE COUNTERBALANCE VALVES FOR CLOSED CENTER)				VBCC
02	DIMENSIONE (SIZE)		7/16-20UNF		4
			9/16-18UNF		6
			3/4-16UNF		8
03	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	1
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA (SPRING) **60/350 bar** (870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	2
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
04	MATERIALE (MATERIAL)		Acciaio + zincatura (Steel + zinc-plating)		S
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)		1:4.25 Standard		/
			1:8.75		8

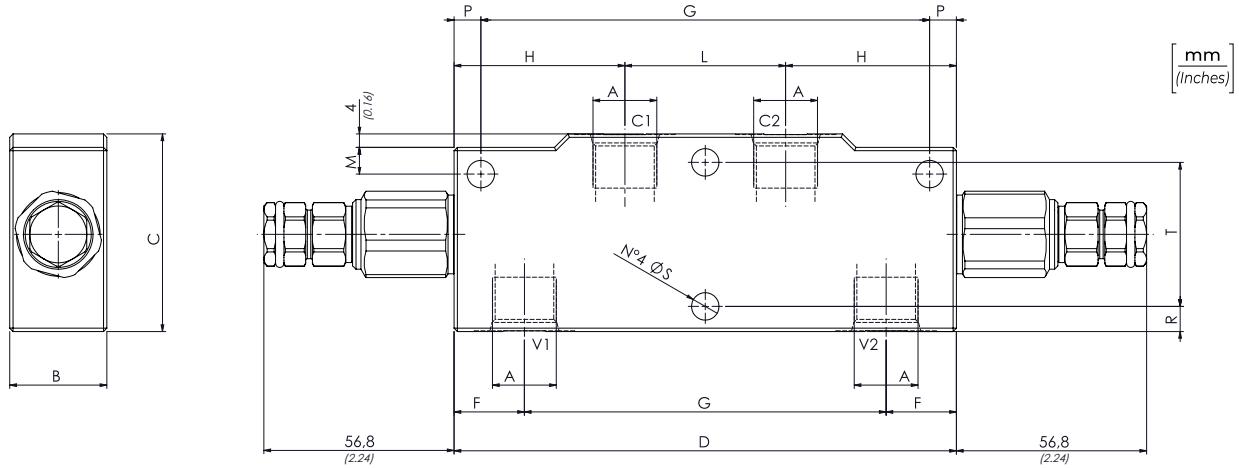
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)			
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)			
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**			
Temperatura dell'olio - Oil temperature	**-20°C**	**+80°C**	-4°F	+ 176°F
Temperatura ambiente - Environment temperature	**-20°C**	**+50°C**	-4°F	+ 122°F

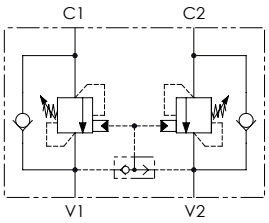
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	F	G	H	L	M	P	Q	R	S	T	PESO APPROX APPROX WEIGHT kg-lbt
VBCC140	7/16-20UNF	30 (8)	350 (5075)	29 (1.14)	49 (1.93)	150 (5.91)	23 (0.91)	104 (4.09)	51 (2,01)	48 (1.89)	10 (0.39)	8 (0.31)	134 (5.28)	5,5 (0.22)	8,2 (0.32)	38 (1.50)	1,68 (3.70)
VBCC380	9/16-18UNF	40 (10.5)															1,66 (3.66)
VBCC120	3/4-16UNF	60 (16)			59 (2.32)		21 (0.83)	108 (4.25)			12 (0.47)			7,5 (0.29)		43 (1.69)	1,89 (4.16)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

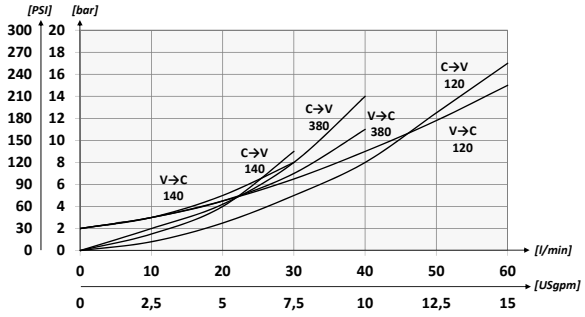


CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04	05
VBCF				

01	VALVOLE DI BILANCIAMENTO DOPPIE PER CENTRO APERTO - FLANGIATE (DOUBLE COUNTERBALANCE VALVES FOR OPEN CENTER - FLANGED VERSION)				**VBCF**
02	DIMENSIONE (SIZE)		BSPP 1/4		**140**
			BSPP 3/8		**380**
			BSPP 1/2		**120**
03	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	**1**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA (SPRING) **60/350 bar** (870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	**2**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
04	MATERIALE (MATERIAL)		Acciaio + zincatura (Steel + zinc-plating)		**S**
			Acciaio + zinco-nichel (Steel + zinc-nickel)		**K**
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)		1:4.25 Standard		**/**
			1:8.75		**8**

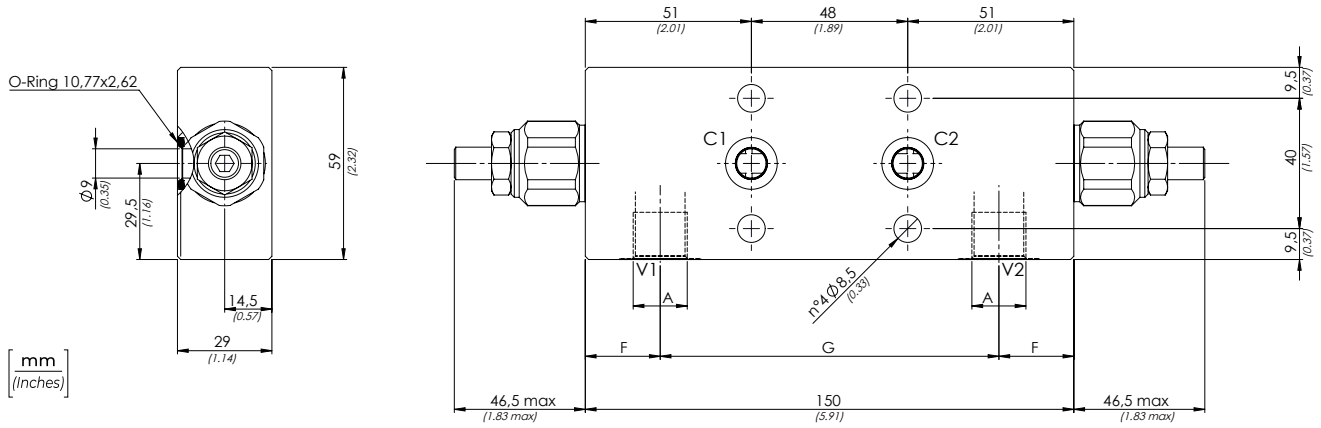
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

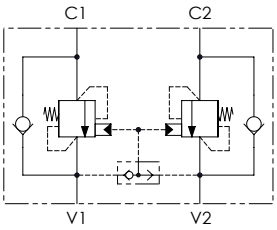
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	G	F	PESO APPROX (kg) APPROX WEIGHT (lbt)
VBCF140	**BSPP 1/4**	**40** (10.6)	**350** (5075)	**104** (4.09)	**23** (0.91)	**2,02** (4.45)
VBCF380	**BSPP 3/8**					**1,95** (4.30)
VBCF120	**BSPP 1/2**	**60** (15.9)		**108** (4.25)	**21** (0.83)	**1,92** (4.23)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

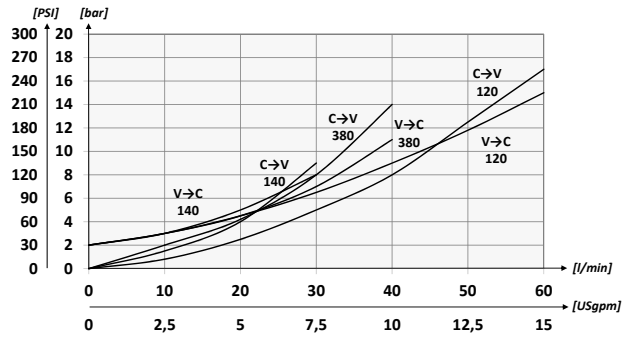


CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
VBZG		2	

01	VALVOLE DI BILANCIAMENTO DOPPIE PER CENTRO APERTO - FLANGIATE A TARATURA FISSA (DOUBLE COUNTERBALANCE VALVES FIXED SETTING FOR OPEN CENTER - FLANGED VERSION)		**VBZG**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
03	Taratura (Setting) **Q=5 l/min 350 bar** (5075 PSI)		**2**
04	MATERIALE (MATERIAL)	Acciaio + zincatura (Steel + zinc-plating)	**S**
		Acciaio + zinco-nichel (Steel + zinc-nickel)	**K**
	Rapporto di pilotaggio (Pilot ratio) 1:4.25		

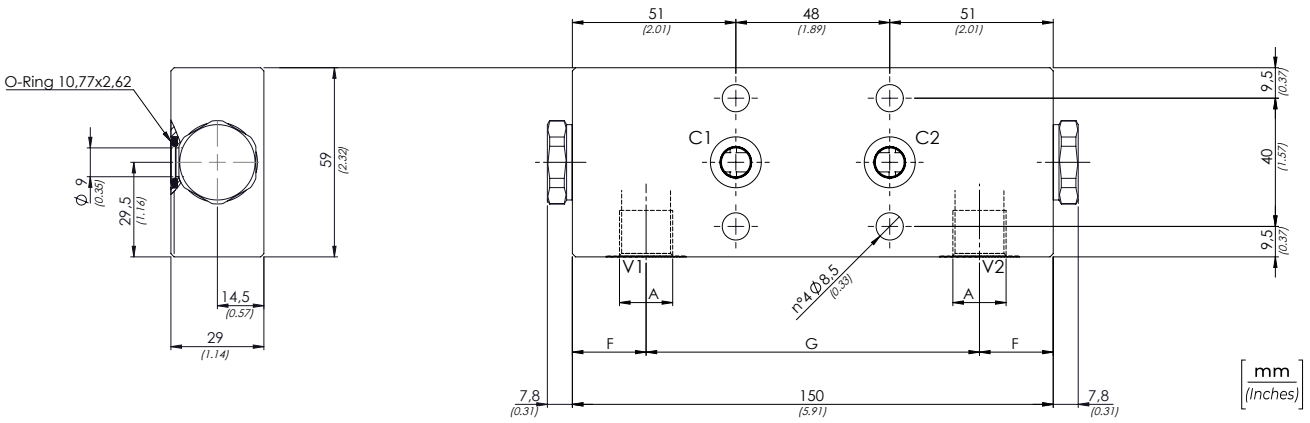
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

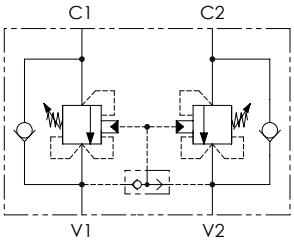
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



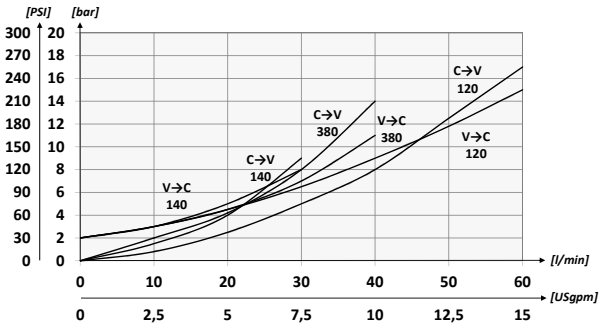
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	G	F	PESO APPROX (kg) APPROX WEIGHT (lbt)
VBZG140	**BSPP 1/4**	**40** (10.6)	**350** (5075)	**104** (4.09)	**23** (0.91)	**1,98** (4.24)
VBZG380	**BSPP 3/8**					**1,90** (4.07)
VBZG120	**BSPP 1/2**	**60** (15.9)		**108** (4.25)	**21** (0.83)	**1,88** (4.03)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



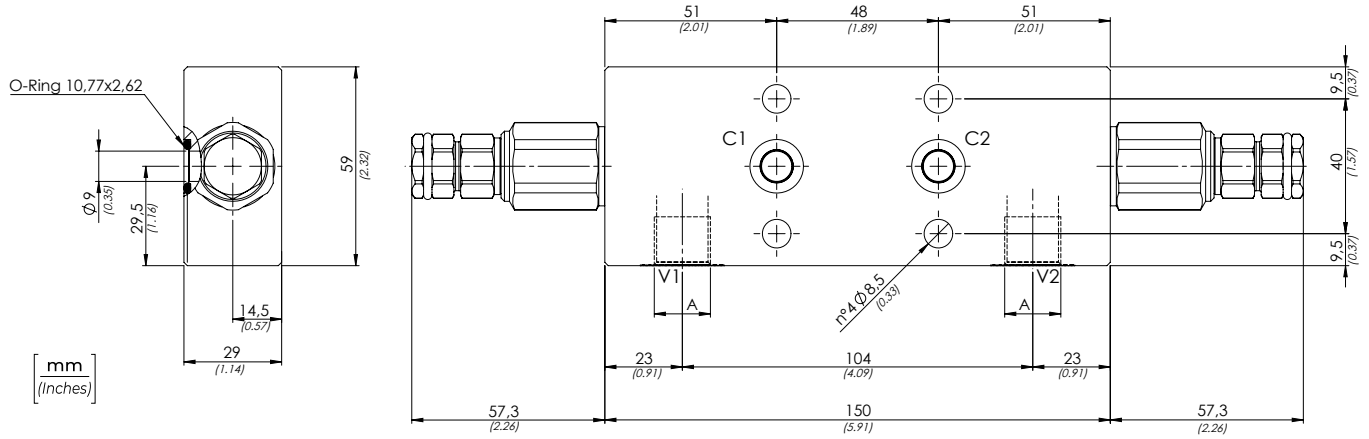
PERFORMANCES



CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04	05
VBCM			S	

01	VALVOLE DI BILANCIAMENTO DOPPIE PER CENTRO CHIUSO - FLANGIATE (DOUBLE COUNTERBALANCE VALVES FOR CLOSED CENTER - FLANGED VERSION)				VBCM
02	DIMENSIONE (SIZE)		BSPP 1/4		140
			BSPP 3/8		380
			BSPP 1/2		120
03	MOLLA (SPRING) 30/210 bar (435/3045 PSI)	Rp 1:4.25	78 bar/al giro (1131 PSI/turn)	Taratura standard (Std. setting) Q=5 l/min 200 bar (2900 PSI)	1
		Rp 1:8.75	160 bar/al giro (2320 PSI/turn)		
	MOLLA (SPRING) 60/350 bar (870/5075 PSI)	Rp 1:4.25	135 bar/al giro (1958 PSI/turn)	Taratura standard (Std. setting) Q=5 l/min 350 bar (5075 PSI)	2
		Rp 1:8.75	160 bar/al giro (2320 PSI/turn)		
04	MATERIALE (MATERIAL)		Acciaio + zincatura (Steel + zinc-plating)		S
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)		1:4.25 Standard		/
			1:8.75		8



DATI TECNICI / TECHNICAL DATA

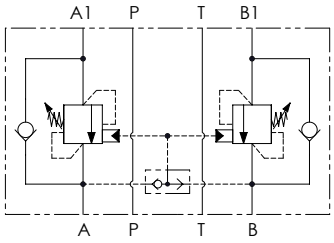
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
VBCM140	BSPP 1/4	40 (10.6)	350 (5075)	2,13 (4.69)
VBCM380	BSPP 3/8			2,09 (4.60)
VBCM120	BSPP 1/2	60 (15.9)		2,06 (4.54)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

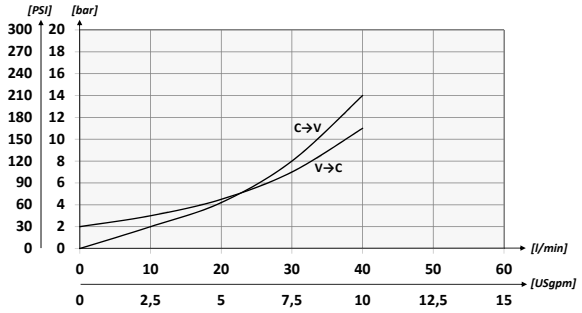
TIPO TYPE	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
VBCS06	**40** (10.6)	**350** (5075)	**3,10** (6.80)

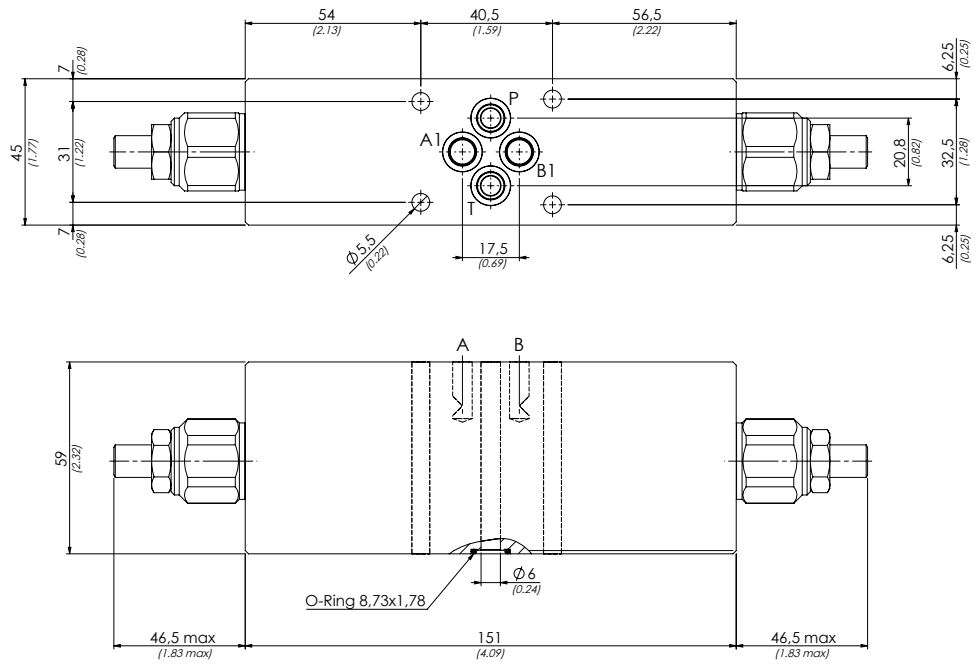
CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04	05
VBCS06		**S**		

01	VALVOLE DI BILANCIAMENTO MODULARI CETOP3 DOPPIE PER CENTRO APERTO (**DOUBLE** CETOP3 MODULAR COUNTERBALANCE VALVES FOR OPEN CENTER)				**VBCS06**
02	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	**1**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA (SPRING) **60/350 bar** (870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	**2**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
03	MATERIALE (MATERIAL)		Acciaio + zincatura (Steel + zinc-plating)		**S**
04	RAPPORTO DI PILOTAGGIO (PILOT RATIO)		1:4.25 Standard		**/**
			1:8.75		**8**

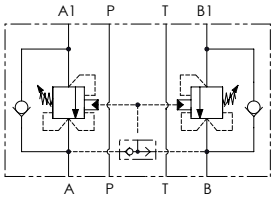
PERFORMANCES





mm (Inches)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

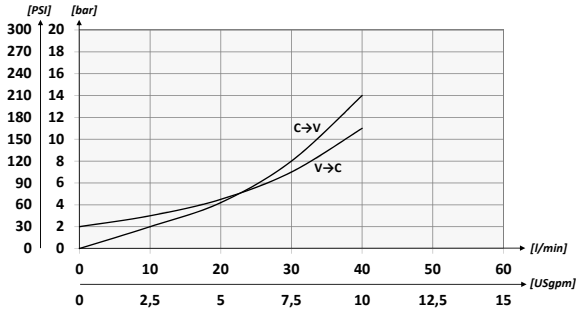
TIPO TYPE	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
VBCT06	**40** (10.6)	**350** (5075)	**3,10** (6.9)

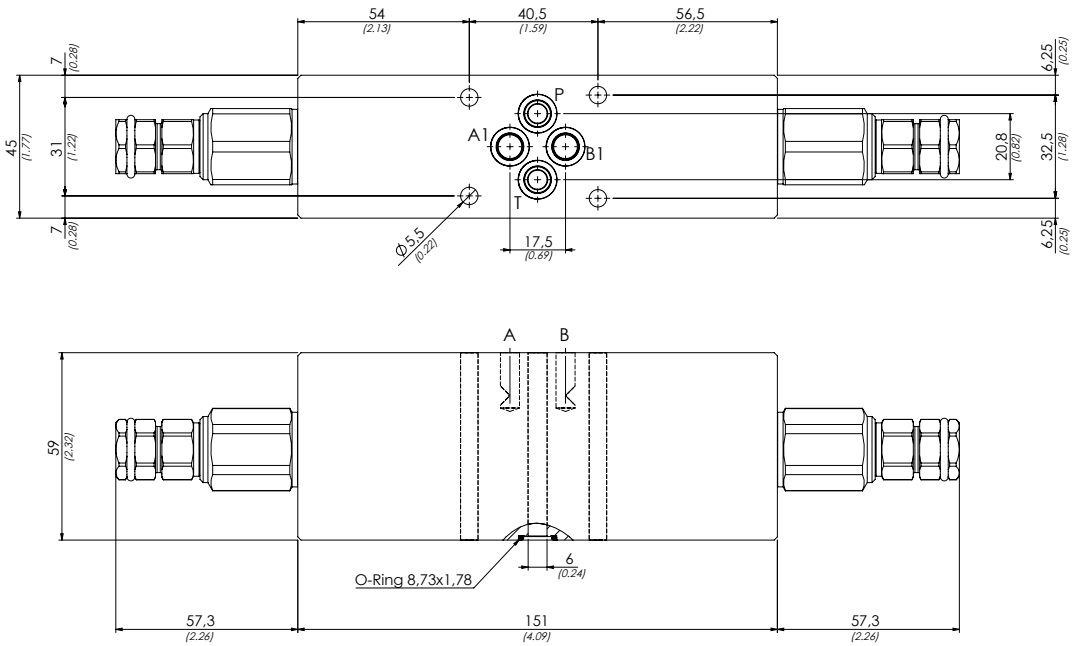
CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04	05
VBCT06		**S**		

01	VALVOLE DI BILANCIAMENTO MODULARI CETOP3 DOPPIE PER CENTRO CHIUSO (DOUBLE CETOP3 MODULAR COUNTERBALANCE VALVES FOR CLOSED CENTER)				**VBCT06**
02	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	**1**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA (SPRING) **60/350 bar** (870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	**2**
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
03	MATERIALE (MATERIAL)		Acciaio + zincatura (Steel + zinc-plating)		**S**
04	RAPPORTO DI PILOTAGGIO (PILOT RATIO)		1:4.25 Standard		**/**
			1:8.75		**8**

PERFORMANCES





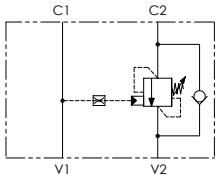
mm (Inches)

CODICE ORDINAZIONE / ORDERING CODE

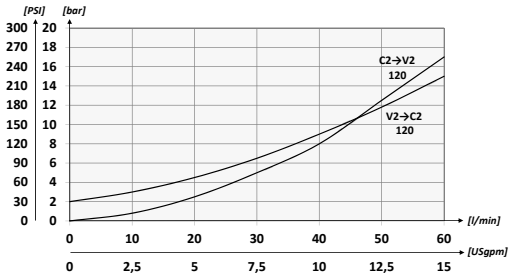
01	02	03	04
SCVB			S

01	VALVOLE DI BILANCIAMENTO SINGOLE PER CENTRO APERTO (SINGLE COUNTERBALANCE VALVES FOR OPEN CENTER)				SCVB
02	DIMENSIONE (SIZE)	BSPP 1/2			120
03	MOLLA (SPRING) 30/210 bar (435/3045 PSI)	Rp 1:4.25	78 bar/al giro (1131 PSI/turn)	Taratura standard (Std. setting) Q=5 l/min 200 bar (2900 PSI)	1
		Rp 1:8.75	160 bar/al giro (2320 PSI/turn)		
	MOLLA (SPRING) 60/350 bar (870/5075 PSI)	Rp 1:4.25	135 bar/al giro (1958 PSI/turn)	Taratura standard (Std. setting) Q=5 l/min 350 bar (5075 PSI)	2
		Rp 1:8.75	160 bar/al giro (2320 PSI/turn)		
04	MATERIALE (METERIAL)	Acciaio + zincatura (Steel + zinc-plating)			S

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



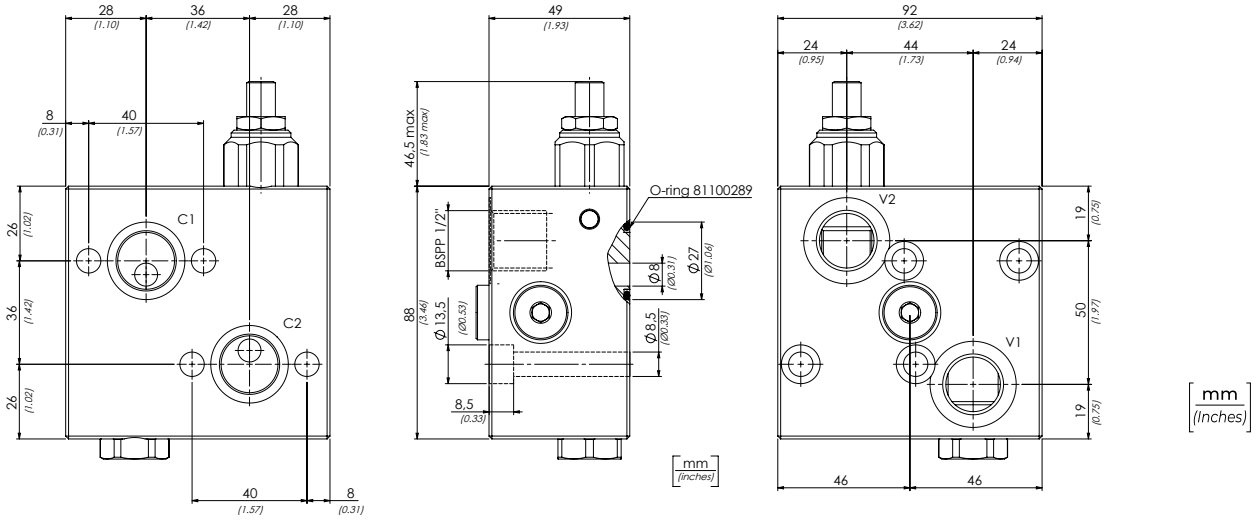
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

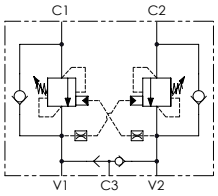
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX (kg) APPROX WEIGHT (lbt)
SCVB120	BSPP 1/2	60 (15.9)	350 (5075)	2,81 (6.19)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

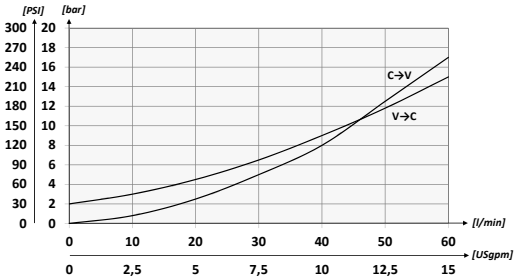


CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
DCVB			S

01	VALVOLE DI BILANCIAMENTO DOPPIE PER CENTRO APERTO OMP-OMR (DOUBLE COUNTERBALANCE VALVES FOR OPEN CENTER OMP-OMR)				DCVB
02	MOLLA (SPRING)		BSPP 1/2		120
03	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	Rp 1:4.25	**78 bar/al giro** (1131 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 200 bar** (2900 PSI)	1
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
	MOLLA (SPRING) **60/350 bar** (870/5075 PSI)	Rp 1:4.25	**135 bar/al giro** (1958 PSI/turn)	Taratura standard (Std. setting) **Q=5 l/min 350 bar** (5075 PSI)	2
		Rp 1:8.75	**160 bar/al giro** (2320 PSI/turn)		
04	MATERIALE (METERIAL)	Acciaio + zincatura (Steel + zinc-plating)			S

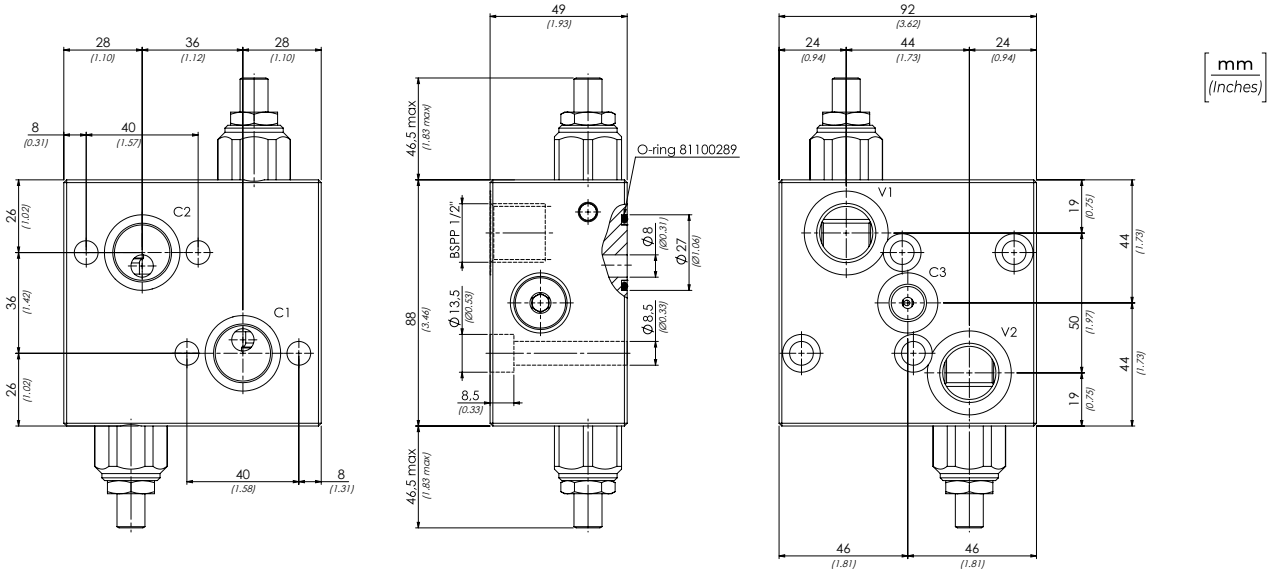
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	Peso Approx Approx weight kg-lbt
DCVB120	**BSPP 1/2**	**60** (15.9)	**350** (5075)	**2,8** (6.17)

CODICE ORDINAZIONE ORDERING CODE		01

01	81300119	M6
	81300037	M8
	81300095	M10
	81300120	M12
	81300121	M16

notes

notes

notes

notes

VALVOLE ELETTRICHE

ELECTRICAL VALVES

Valvole elettriche in cavità SAE a tenuta singola e doppia e a cursore. Bobine e connettori.

Solenoid valves in SAE cavities single or double sealing or spool type. Coils and connectors.

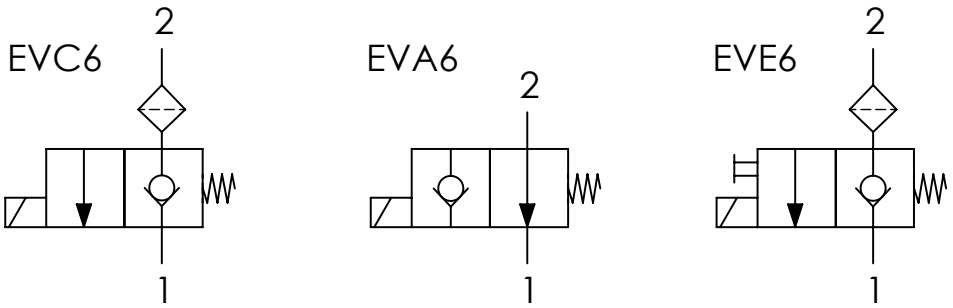
Oleoweb
HYDRAULIC VALVES AND COMPONENTS

CODICE ORDINAZIONE / ORDERING CODE

01	02
EV	

01	VALVOLE A COMANDO ELETTRICO SAE8 2 VIE/2 POSIZIONI DIRETTE (2 WAYS/2 POSITIONS SAE8 ELECTRIC VALVES - DIRECT ACTING)		**EV**
02	SCHEMA (CIRCUIT)	**Normalmente chiusa** (Normally closed)	**C6**
		Normalmente chiusa + emergenza (Normally closed + emergency)	**E6**
		Normalmente aperta (Normally open)	**A6**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



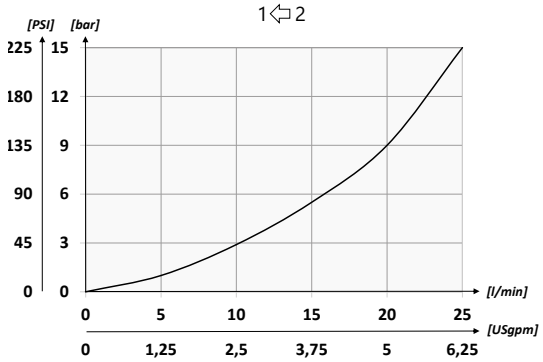
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 18/16/13**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

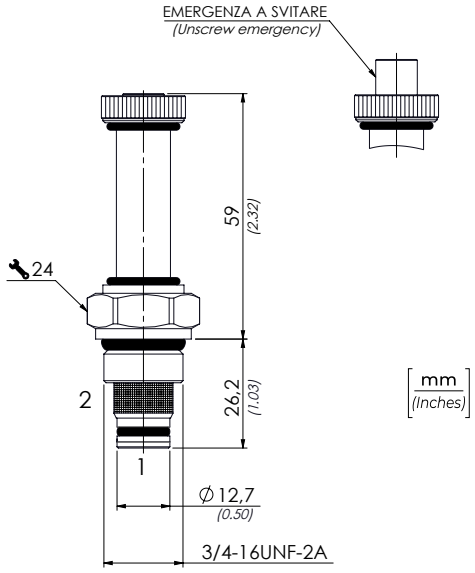
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min

PERFORMANCES



Le prove sono state eseguite con solenoidi a temperatura di regime, sottoalimentati del 10% rispetto al valore nominale.
Tests carried out with solenoids at their working temperature, with a supply voltage 10% below the nominal value.



BOBINA 18 W E CONNETTORE VEDI PG. 129-130
18 W COIL AND CONNECTOR SEE PG. 129-130

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

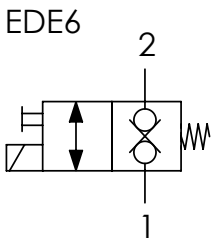
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
EV6	**3/4-16UNF-2A**	**22** (5.8)	**210** (3045)	**0,12** (0.26)	**30** (22)	**SAE 8/2**

CODICE ORDINAZIONE / ORDERING CODE

01	02
ED	**E6**

01	VALVOLE A COMANDO ELETTRICO SAE8 DOPPIA TENUTA 2 VIE/2 POSIZIONI DIRETTE (2 WAYS/2 POSITIONS SAE8 DOUBLE SEALING ELECTRIC VALVES - DIRECT ACTING)		**ED**
02	SCHEMA (CIRCUIT)	**Normalmente chiusa + emergenza** (Normally closed + emergency)	**E6**

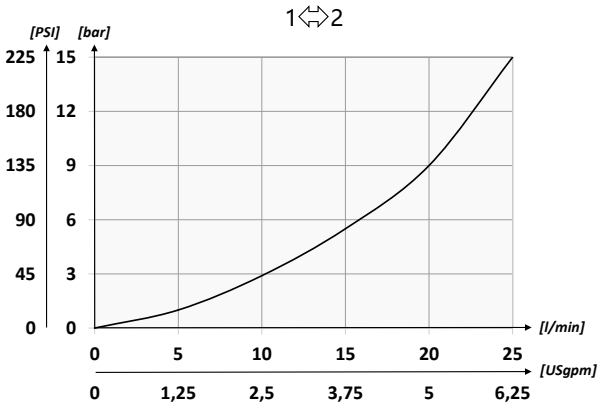
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

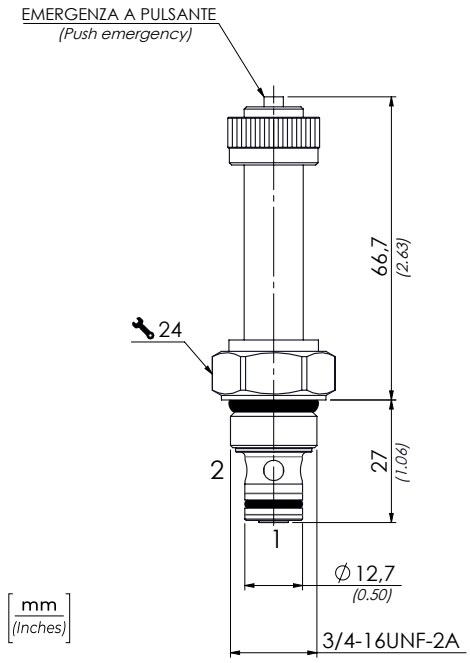
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 18/16/13**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min

PERFORMANCES



Le prove sono state eseguite con solenoidi a temperatura di regime, sottoalimentati del 10% rispetto al valore nominale.

Tests carried out with solenoids at their working temperature, with a supply voltage 10% below the nominal value.



BOBINA 22 W E CONNETTORE VEDI PG. 129-130

22 W COIL AND CONNECTOR SEE PG. 129-130

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	**A**	**PORTATA MAX** (l/min) MAX FLOW (USgpm)	**Pressione max** Max pressure **bar**/PSI	**PRESSIONE MAX** (bar) MAX PRESSURE (PSI)	**COPPIA DI SERRAGGIO** TIGHTENING TORQUE Nm-lbt ft	**CAVITÀ** CAVITY
EDE6	**3/4-16UNF-2A**	**22** (5.8)	**210** (3045)	**0,13** (0.28)	**30** (22)	**SAE 8/2**

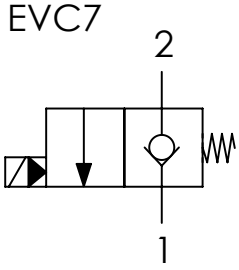
CODICE ORDINAZIONE / ORDERING CODE

01	02
EV	

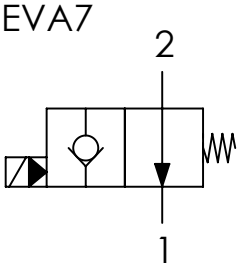
01	VALVOLE A COMANDO ELETTRICO SAE8 2 VIE/2 POSIZIONI PILOTATE (2 WAYS/2 POSITIONS SAE8 ELECTRIC VALVES - PILOT OPERATED)		**EV**
02	SCHEMA (CIRCUIT)	**Normalmente chiusa** (Normally closed)	**C7**
		Normalmente chiusa + emergenza (Normally closed + emergency)	**E7**
		Normalmente aperta (Normally open)	**A7**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

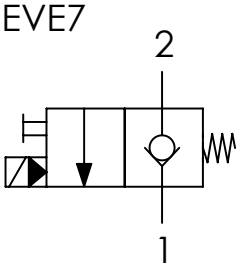
EVC7



EVA7



EVE7



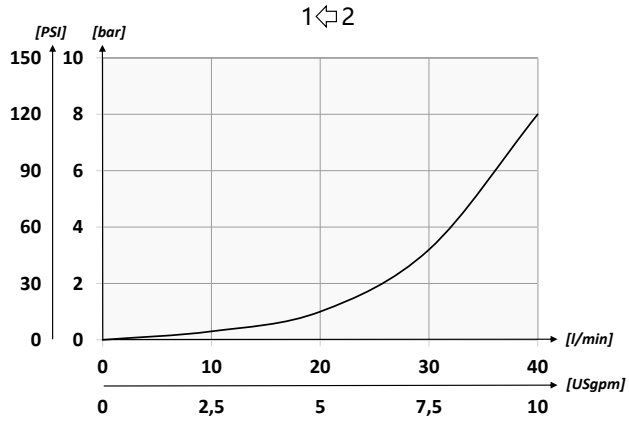
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 18/16/13**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

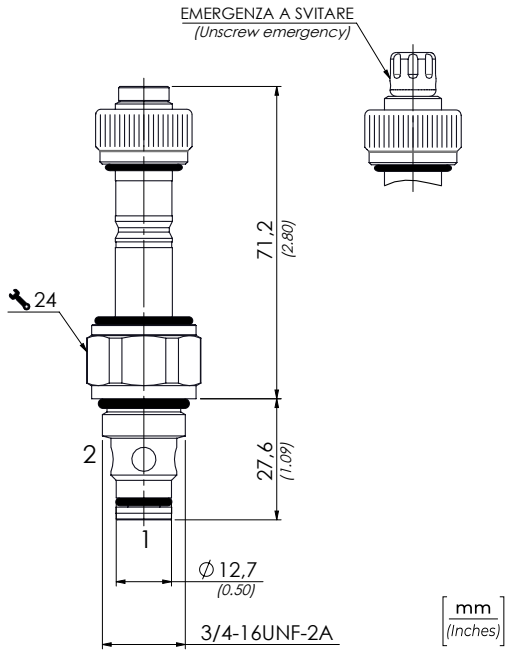
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min

PERFORMANCES



Le prove sono state eseguite con solenoidi a temperatura di regime, sottoalimentati del 10% rispetto al valore nominale.
Tests carried out with solenoids at their working temperature, with a supply voltage 10% below the nominal value.



BOBINA 22 W E CONNETTORE VEDI PG. 129-130
22 W COIL AND CONNECTOR SEE PG. 129-130

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

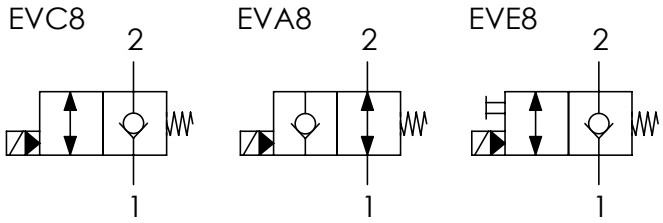
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
EV7	**3/4-16UNF-2A**	**40** (10.8)	**350** (5075)	**0,16** (0.35)	**30** (22)	**SAE 8/2**

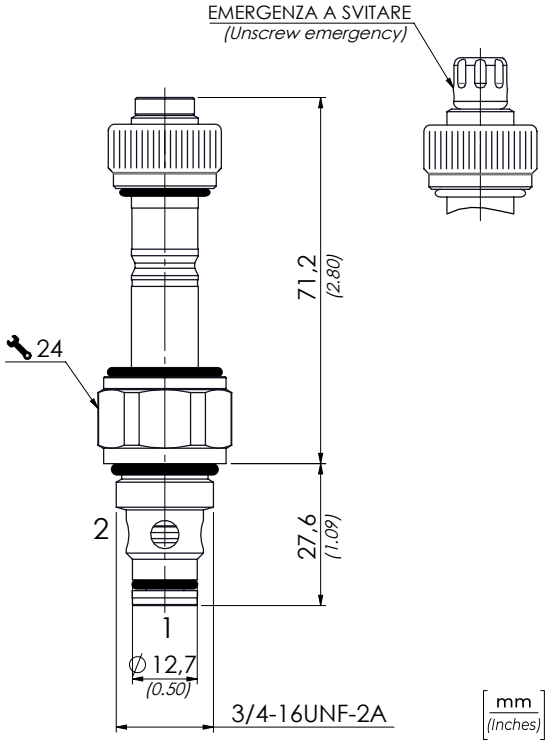
CODICE ORDINAZIONE / ORDERING CODE

01	02
EV	

01	VALVOLE A COMANDO ELETTRICO SAE8 2 VIE/2 POSIZIONI PILOTATE (2 WAYS/2 POSITIONS SAE8 ELECTRIC VALVES - PILOT OPERATED)		**EV**
02	SCHEMA (CIRCUIT)	**Normalmente chiusa** (Normally closed)	**C8**
		Normalmente chiusa + emergenza (Normally closed + emergency)	**E8**
		Normalmente aperta (Normally open)	**A8**

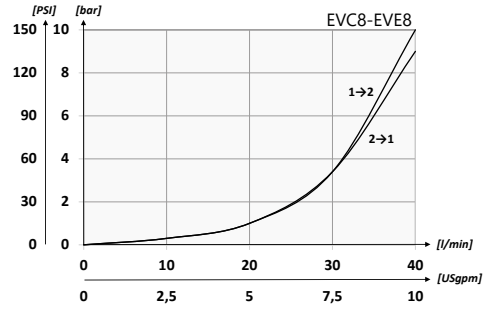
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

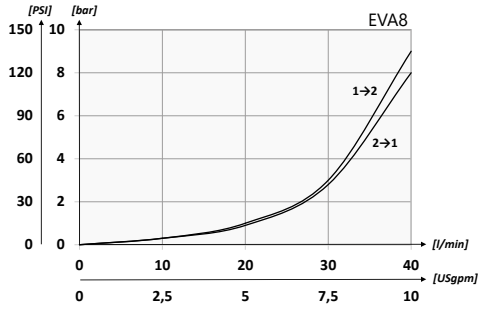




BOBINA 22 W E CONNETTORE VEDI PG. 129-130
22 W COIL AND CONNECTOR SEE PG. 129-130

PERFORMANCES





Le prove sono state eseguite con solenoidi a temperatura di regime, sottoalimentati del 10% rispetto al valore nominale.
Tests carried out with solenoids at their working temperature, with a supply voltage 10% below the nominal value.

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 18/16/13**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

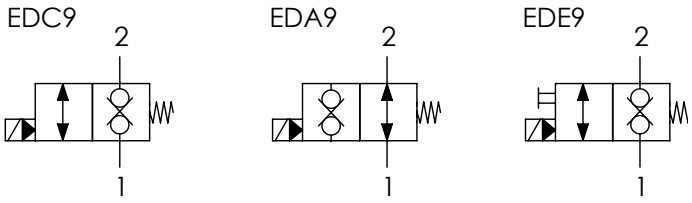
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
EV8	**3/4-16UNF-2A**	**40** (10.8)	**350** (5075)	**0,16** (0.35)	**30** (22)	**SAE 8/2**

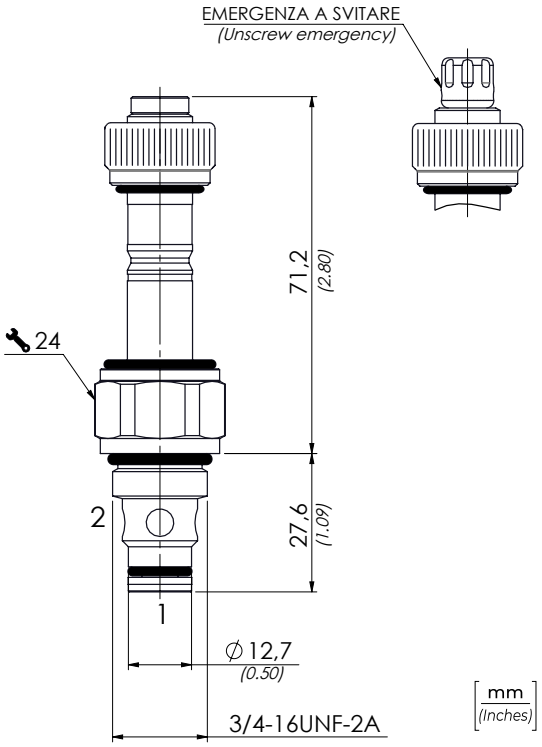
CODICE ORDINAZIONE / ORDERING CODE

01	02
ED	

01	VALVOLE A COMANDO ELETTRICO SAE8 DOPPIA TENUTA 2 VIE/2 POSIZIONI PILOTATE (2 WAYS/2 POSITIONS SAE8 DOUBLE SEALING ELECTRIC VALVES - PILOT OPERATED)		ED
02	SCHEMA (CIRCUIT)	**Normalmente chiusa** (Normally closed)	C9
		Normalmente chiusa + emergenza (Normally closed + emergency)	E9
		Normalmente aperta (Normally open)	A9

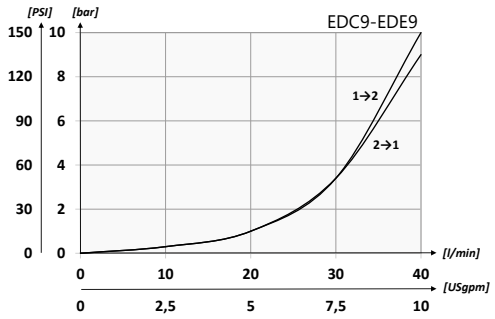
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

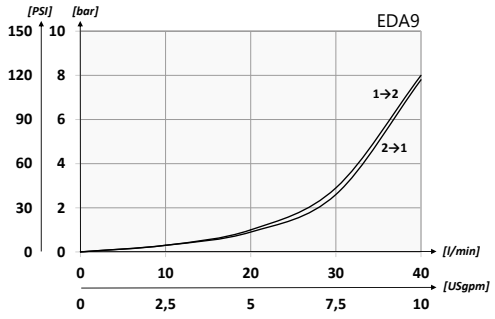




BOBINA 22 W E CONNETTORE VEDI PG. 129-130
22 W COIL AND CONNECTOR SEE PG. 129-130

PERFORMANCES





Le prove sono state eseguite con solenoidi a temperatura di regime, sottoalimentati del 10% rispetto al valore nominale.
Tests carried out with solenoids at their working temperature, with a supply voltage 10% below the nominal value.

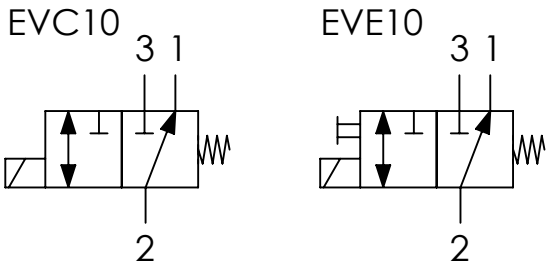
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 18/16/13**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**0,50 cm³/min - 10 gocce/min** 0,30 in³/min - 10 drops/min

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO (Nm) TIGHTENING TORQUE (lbt ft)	CAVITÀ CAVITY
ED9	**3/4-16UNF-2A**	**40** (10.8)	**350** (5075)	**0,16** (0.35)	**30** (22)	**SAE 8/2**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



CODICE ORDINAZIONE / ORDERING CODE

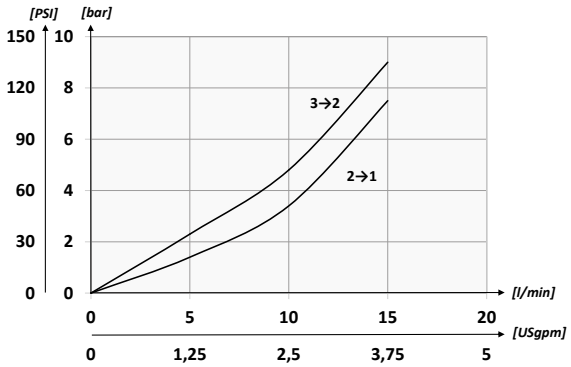
01	02
EV	

01	VALVOLE A COMANDO ELETTRICO A CURSORE SAE8 3 VIE/2 POSIZIONI DIRETTE (3 WAYS/2 POSITIONS SAE8 ELECTRIC SPOOL VALVES - DIRECT ACTING)		EV
02	SCHEMA (CIRCUIT)	Vedi schema (See diagram)	C10
		Vedi schema (See diagram)	E10

DATI TECNICI / TECHNICAL DATA

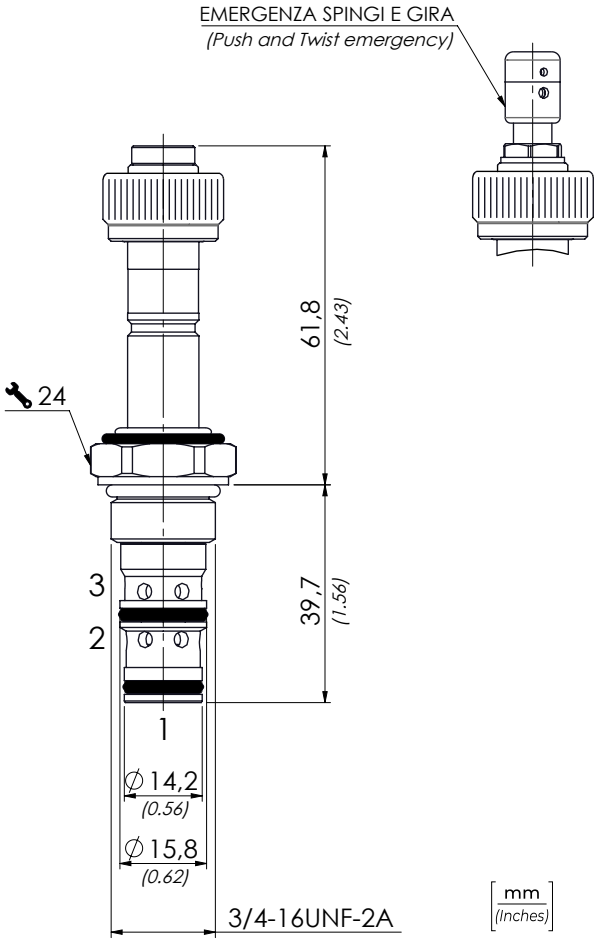
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 18/16/13**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)		
Trafilamento massimo Max leakage	**60 cm³/min** 36 in³/min	

PERFORMANCES



Le prove sono state eseguite con solenoidi a temperatura di regime, sottoalimentati del 10% rispetto al valore nominale.

Tests carried out with solenoids at their working temperature, with a supply voltage 10% below the nominal value.



BOBINA 22 W E CONNETTORE VEDI PG. 129-130

22 W COIL AND CONNECTOR SEE PG. 129-130

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

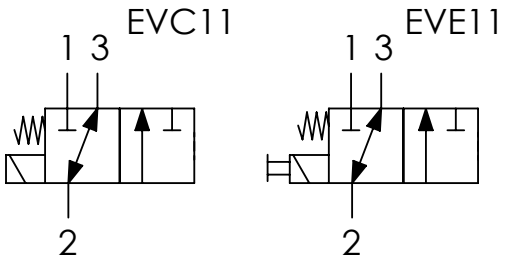
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO (Nm) TIGHTENING TORQUE (lbt ft)	CAVITÀ CAVITY
EV10	**3/4-16UNF-2A**	**12** (3.2)	**210** (3045)	**0,15** (0.33)	**30** (22)	**SAE 8/3**

CODICE ORDINAZIONE / ORDERING CODE

01	02
EV	

01	VALVOLE A COMANDO ELETTRICO A CURSORE SAE8 3 VIE/2 POSIZIONI DIRETTA (3 WAYS/2 POSITIONS SAE8 ELECTRIC SPOOL VALVES - DIRECT ACTING)		**EV**
02	SCHEMA (CIRCUIT)	Vedi schema (See diagram)	**C11**
		Vedi schema (See diagram)	**E11**

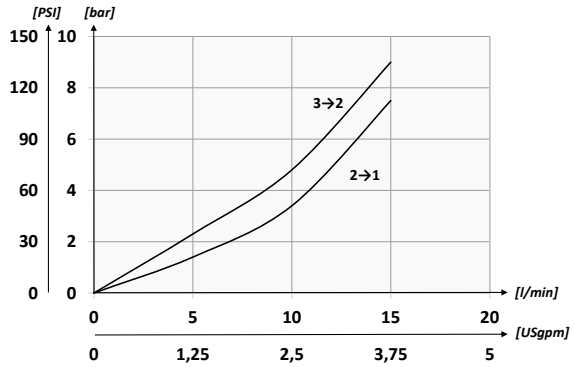
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

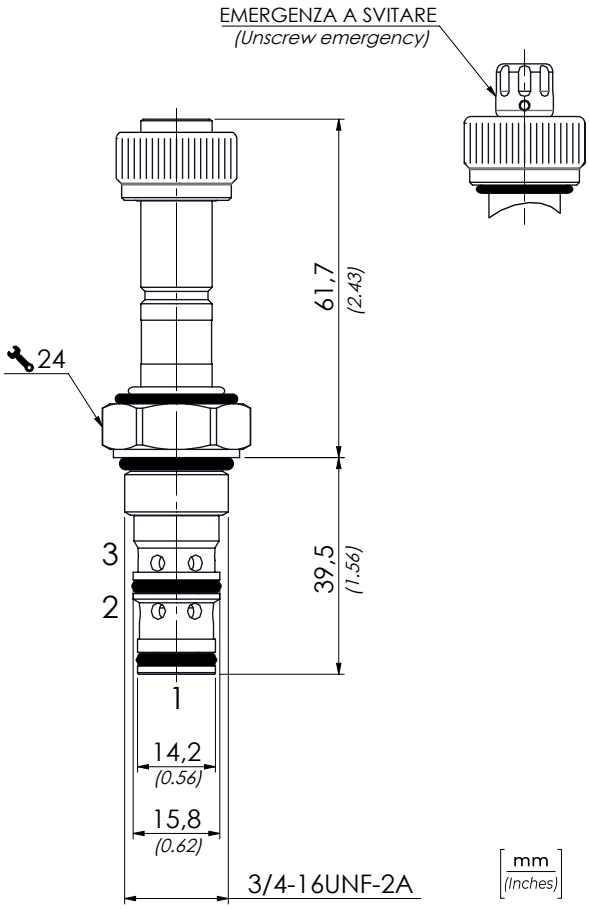
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 18/16/13**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**60 cm³/min** 36 in³/min

PERFORMANCES



Le prove sono state eseguite con solenoidi a temperatura di regime, sottoalimentati del 10% rispetto al valore nominale.

Tests carried out with solenoids at their working temperature, with a supply voltage 10% below the nominal value.



BOBINA 22 W E CONNETTORE VEDI PG. 129-130
22 W COIL AND CONNECTOR SEE PG. 129-130

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

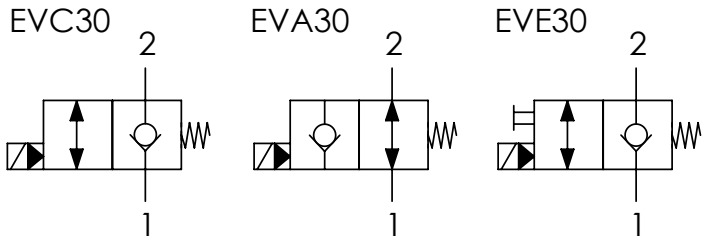
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
EV11	**3/4-16UNF-2A**	**12** (3.2)	**210** (3045)	**0,15** (0.33)	**30** (22)	**SAE 8/3**

CODICE ORDINAZIONE / ORDERING CODE

01	02
EV	

01	VALVOLE A COMANDO ELETTRICO SAE10 2 VIE/2 POSIZIONI PILOTATE (2 WAYS/2 POSITIONS SAE10 ELECTRIC VALVES - PILOT OPERATED)		**EV**
02	SCHEMA (CIRCUIT)	**Normalmente chiusa** (Normally closed)	**C30**
		Normalmente chiusa + emergenza (Normally closed + emergency)	**E30**
		Normalmente aperta (Normally open)	**A30**

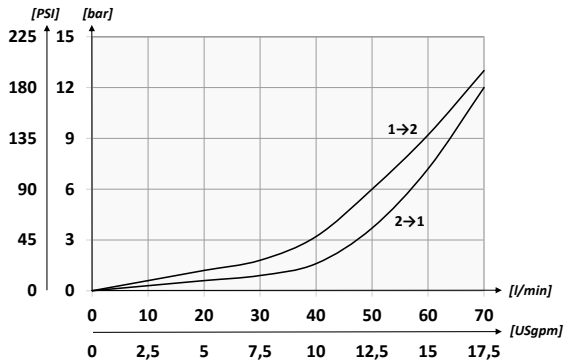
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

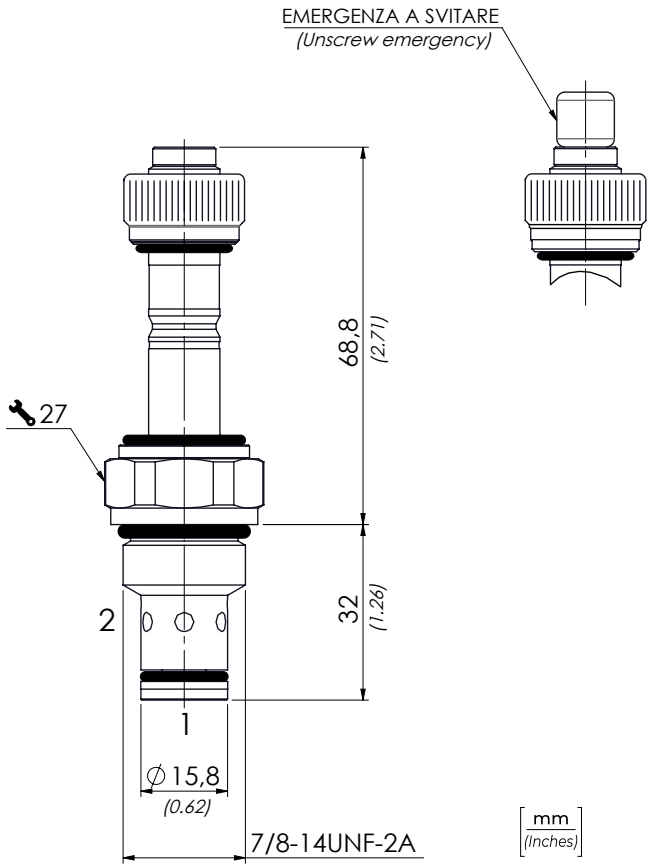
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 18/16/13**
Temperatura dell'olio - Oil temperature **Temperatura ambiente** - Environment temperature	**-20°C +80°C** -4°F + 176°F **-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min

PERFORMANCES



Le prove sono state eseguite con solenoidi a temperatura di regime, sottoalimentati del 10% rispetto al valore nominale.

Tests carried out with solenoids at their working temperature, with a supply voltage 10% below the nominal value.



BOBINA 22 W E CONNETTORE VEDI PG. 129-130

22 W COIL AND CONNECTOR SEE PG. 129-130

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

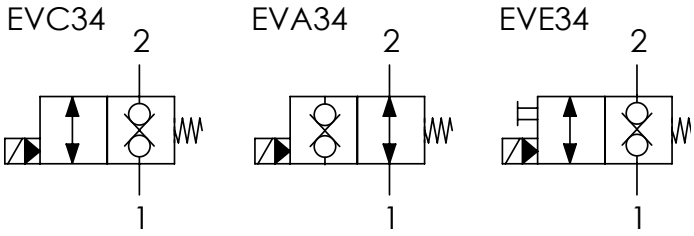
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
EV30	**7/8-14UNF-2A**	**70** (18.5)	**350** (5075)	**0,19** (0.40)	**40** (30)	**SAE 10/2**

CODICE ORDINAZIONE / ORDERING CODE

01	02
EV	

01	VALVOLE A COMANDO ELETTRICO SAE10 DOPPIA TENUTA 2 VIE/2 POSIZIONI PILOTATE (2 WAYS/2 POSITIONS SAE10 DOUBLE SEALING ELECTRIC VALVES - PILOT OPERATED)		**EV**
02	SCHEMA (CIRCUIT)	**Normalmente chiusa** (Normally closed)	**C34**
		Normalmente chiusa + emergenza (Normally closed + emergency)	**E34**
		Normalmente aperta (Normally open)	**A34**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



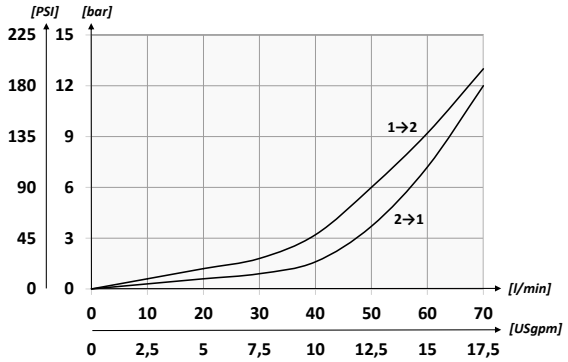
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 18/16/13**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

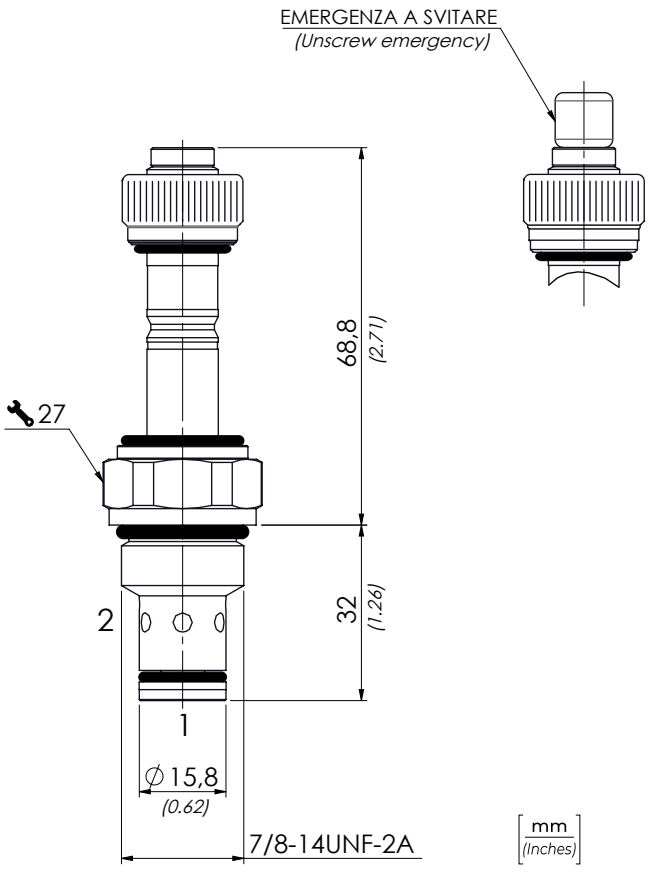
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min

PERFORMANCES



Le prove sono state eseguite con solenoidi a temperatura di regime, sottoalimentati del 10% rispetto al valore nominale.

Tests carried out with solenoids at their working temperature, with a supply voltage 10% below the nominal value.



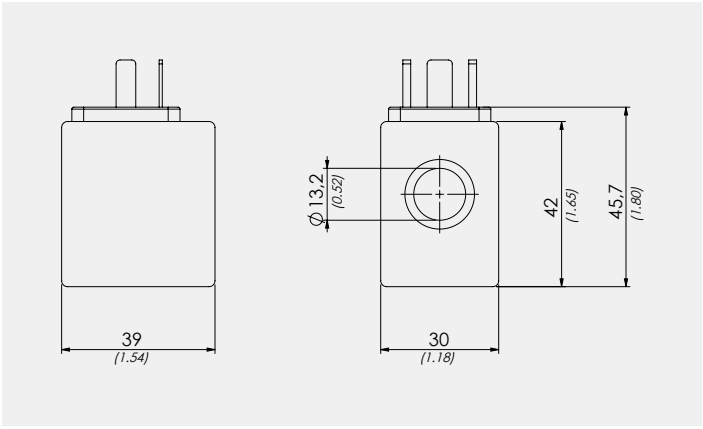
BOBINA 22 W E CONNETTORE VEDI PG. 129-130
22 W COIL AND CONNECTOR SEE PG. 129-130

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

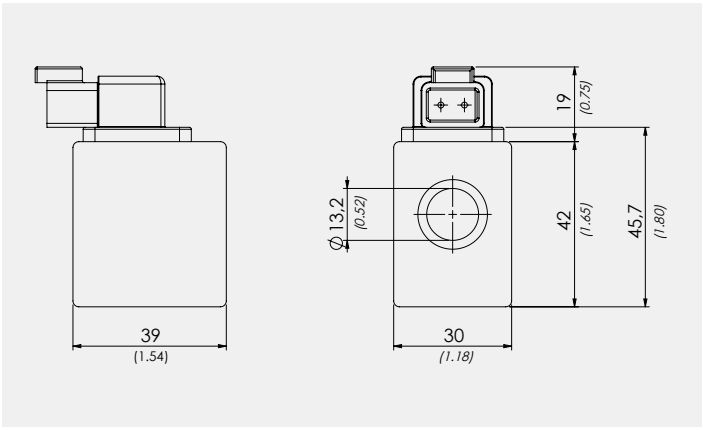
CODICE CODE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
EV34	**7/8-14UNF-2A**	**70** (18.5)	**350** (5075)	**0,19** (0.40)	**40** (30)	**SAE 10/2**

EC - 18W

DATI TECNICI - TECHNICAL DATA	
POTENZA A 20°C COIL POWER AT 20°C	**18 W**
CLASSE ISOLAMENTO DEL FILO WIRE INSULATION CLASS	**H+ (202°C)**
ED	**100%**
POTENZA ASSORBITA IN CA ABSORBED POWER IN AC	**28 VA**
CAMPO DI TEMPERATURA AMBIENTE RANGE AMBIENT TEMPERATURE	**-30°C / +50°C**
PESO WEIGHT	**0,19 Kg / 0,30 lb**

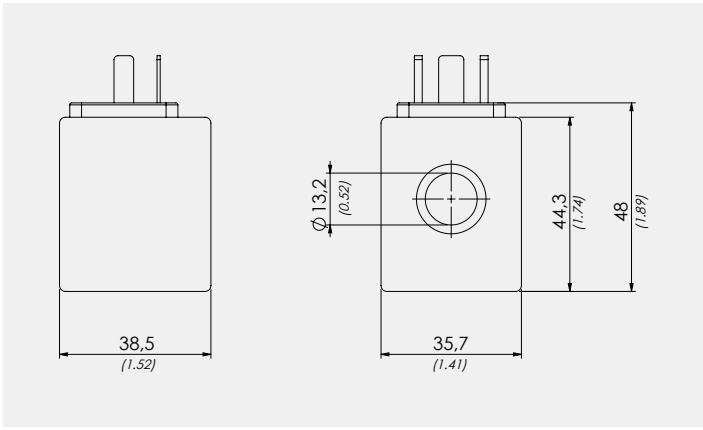


TIPO TYPE	CONNETTORE CONNECTOR	CLASSE DI PROTEZIONE PROTECTION CLASS	TENSIONE VOLTAGE
EC012DC	DIN 43650 (+88100002)	IP65	**12 V dc**
EC024DC	DIN 43650 (+88100002)	IP65	**24 V dc**
EC22050	DIN 43650 (+88100003)	IP65	**220 V 50 Hz**
EC220RAC	DIN 43650 (+88100003)	IP65	**220 V 50-60 Hz**
EC012DEU	Deutsch	IP69K	**12 V dc**
EC024DEU	Deutsch	IP69K	**24 V dc**

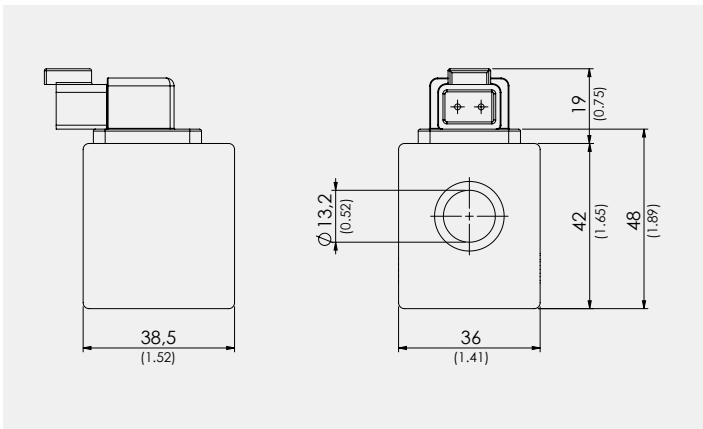


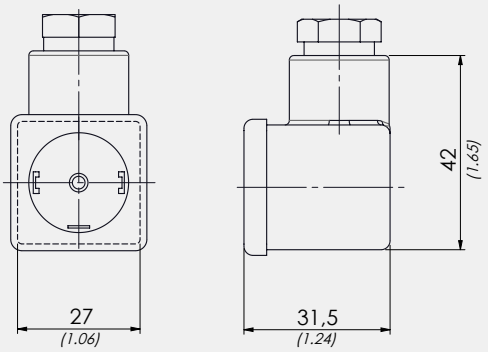
EC36 - 22W

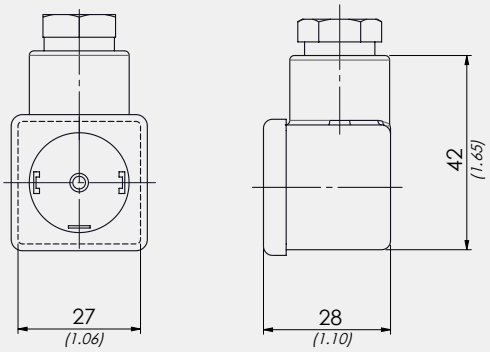
DATI TECNICI - TECHNICAL DATA	
POTENZA A 20°C COIL POWER AT 20°C	**22 W**
CLASSE ISOLAMENTO DEL FILO WIRE INSULATION CLASS	**H+ (202°C)**
ED	**100%**
POTENZA ASSORBITA IN CA ABSORBED POWER IN AC	**28 VA**
CAMPO DI TEMPERATURA AMBIENTE RANGE AMBIENT TEMPERATURE	**-30°C / +50°C**
PESO WEIGHT	**0,21 Kg / 0,46 lb**



TIPO TYPE	CONNETTORE CONNECTOR	CLASSE DI PROTEZIONE PROTECTION CLASS	TENSIONE VOLTAGE
EC36012DC	DIN 43650 (+88100002)	IP65	**12 V dc**
EC36024DC	DIN 43650 (+88100002)	IP65	**24 V dc**
EC36220RAC	DIN 43650 (+88100003)	IP65	**220 V 50-60 Hz**
EC36012DEU	Deutsch	IP69K	**12 V dc**
EC36024DEU	Deutsch	IP69K	**24 V dc**







CONNETTORE CON RADDRIZZATORE
(CONNECTOR WITH RECTIFIER)

TIPO - TYPE: **88100003**	EN 175301-803
CORRENTE NOMINALE CONTATTI NOMINAL CURRENT	10 A
CORRENTE MAX CONTATTI MAX OPERATING CURRENT	16 A
RESISTENZA CONTATTI CONTACT RESISTANCE	≤ 4m Ohm
SEZIONE MAX CONDUTTORI MAX CONDUCTORS CROSS-SECTION	1,5 mm²
PORTACONTATTI, DADO CONTACT HOLDER	PA
TIPO DI SERRACAVO GLAND SIZE OPTIONS	Pg09
DIAMENTRO CAVO CABLE DIAMETER	6-8 mm
GRADO DI PROTEZIONE PROTECTION CLASS	IP 65 EN 60529
CLASSE DI ISOLAMENTO INSULATION CLASS	VDE 0110-1/89
GUARNIZIONE SEALING MATERIAL	NBR
TEMPERATURA DI ESERCIZIO OPERATING TEMPERATURE	-40C +90C
PESO APPROX APPROX WEIGHT	0,025 kg 0.055 lb

CONNETTORE STANDARD
(STANDARD CONNECTOR)

TIPO - TYPE: **88100002**	EN 175301-803
TENSIONE NOMINALE NOMINAL V OLTAGE	AC - Max 250 V DC - Max 300 V
CORRENTE NOMINALE CONTATTI NOMINAL CURRENT	10 A
CORRENTE MAX CONTATTI MAX OPERATING CURRENT	16 A
RESISTENZA CONTATTI CONTACT RESISTANCE	≤ 4m Ohm
SEZIONE MAX CONDUTTORI MAX CONDUCTORS CROSS-SECTION	1,5 mm2
PROTEZIONE HOUSING	PA (+G)
TIPO DI SERRACAVO GLAND SIZE OPTIONS	Pg11
DIAMENTRO CAVO CABLE DIAMETER	6-8 mm
GRADO DI PROTEZIONE PROTECTION CLASS	IP 65 EN 60529
CLASSE DI ISOLAMENTO INSULATION CLASS	VDE 0110-1/89
GUARNIZIONE SEALING MATERIAL	NBR
TEMPERATURA DI ESERCIZIO OPERATING TEMPERATURE	-40C +90C
PESO APPROX APPROX WEIGHT	0,020 kg 0.044 lb

notes

notes

VALVOLE A CARTUCCIA

CARTRIDGE VALVES

La famiglia delle valvole a cartuccia comprende: valvole unidirezionali a ritegno, valvole controllo di flusso compensate, valvole controllo di flusso unidirezionali e bidirezionali, pompe a mano, valvole di emergenza manuali e con pilotaggio pneumatico, divisori/riunificatori di flusso, valvole di ritegno pilotate, valvole selettrici e valvole di massima.

Cartridge valves family includes: check valves, control pressure compensated valves, unidirectional and bidirectional flow control valves, hand pumps emergency valves, flow dividers combiners, single acting check valves, load shuttle valves and relief valves.

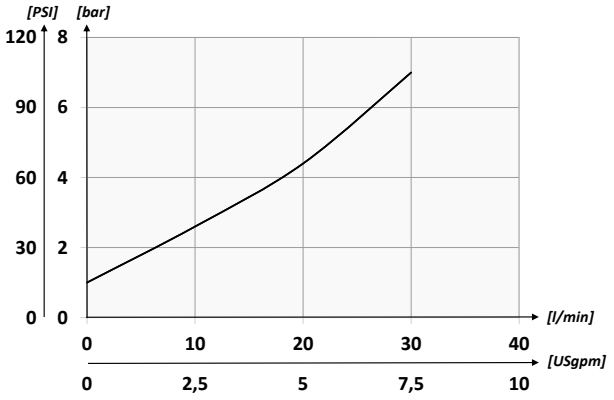
Oleoweb
HYDRAULIC VALVES AND COMPONENTS

CODICE ORDINAZIONE / ORDERING CODE

01	02	03
CUR6		

01	VALVOLE UNIDIREZIONALI SAE8 (SAE8 CHECK VALVES)		**CUR6**
02	TENUTA (SEALING)	Tenuta a sfera - solo molla **1 bar** (Ball sealing - only spring 14,5 PSI)	**SF**
		Tenuta ad otturatore (Poppet sealing)	**SP**
03	MOLLA (SPRING)	**1 bar** (14.5 PSI)	**1**
		3 bar (43.5 PSI)	**3**
		4,5 bar (65.3 PSI)	**4,5**

PERFORMANCES



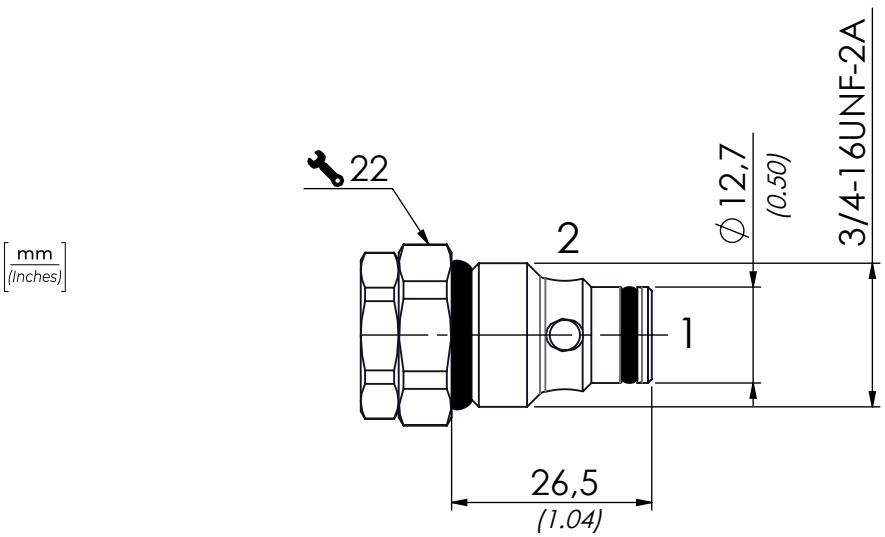
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

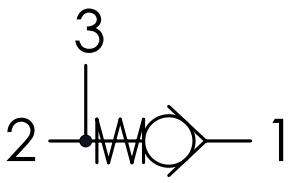
TIPO TYPE	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
CUR6	**25** (6.6)	**350** (5075)	**0,06** (0.13)	**25-30** (19-22)	**SAE8/2**

CODICE ORDINAZIONE / ORDERING CODE

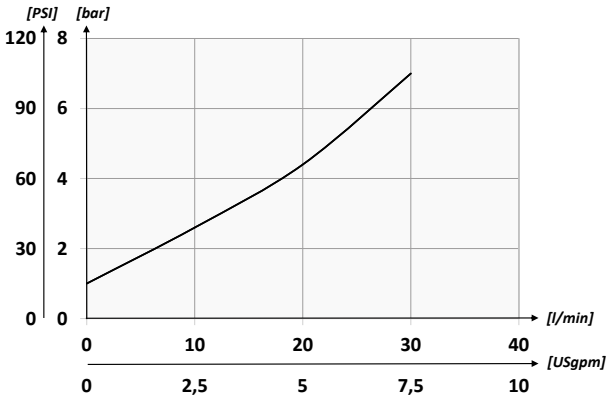
01	02	03	04
CUR6		1	M

01	VALVOLE UNIDIREZIONALI SAE8 CON ATTACCO MANOMETRO (SAE8 CHECK VALVES WITH PRESSURE CONNECTION)		**CUR6**
02	TENUTA (SEALING)	Tenuta a sfera (Ball sealing)	**SF**
		Tenuta a otturatore (Poppet sealing)	**SP**
03	MOLLA (SPRING)	**1 bar** (14.5 PSI)	**1**
04	Con attacco manometro (With pressure connection)		**M**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



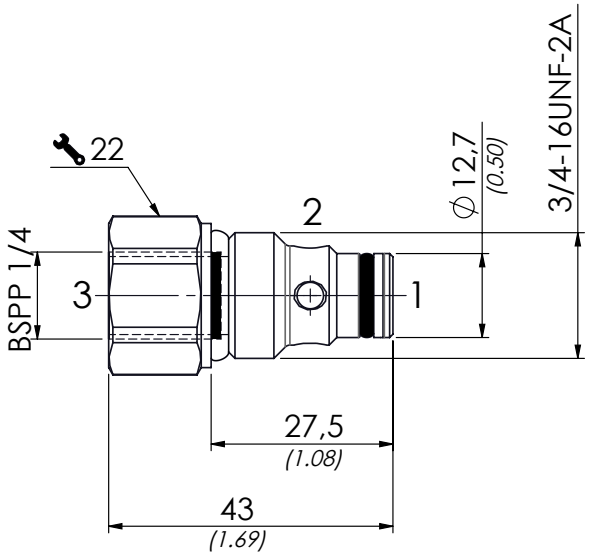
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min

mm (Inches)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

CODICE CODE	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
CUR6M	**25** (6.6)	**350** (5075)	**0,07** (0.15)	**25-30** (19-22)	**SAE8/2**

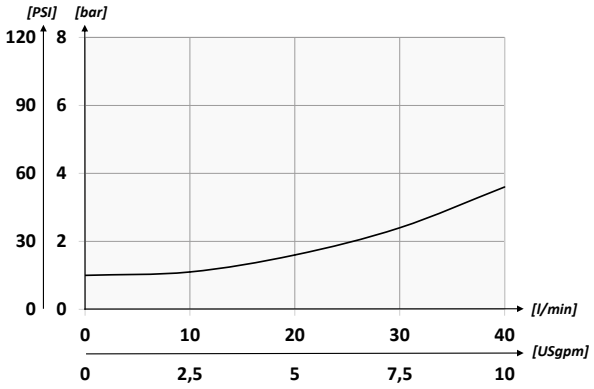
CODICE ORDINAZIONE / ORDERING CODE

01	02	03
CUR10N	SP	

01	VALVOLE UNIDIREZIONALI SAE10/2 (SAE10/2 CHECK VALVES)		**CUR10N**
02	TENUTA (SEALING)	Tenuta ad otturatore (Poppet sealing)	**SP**
03	MOLLA (SPRING)	**1 bar** (14.5 PSI)	**1**

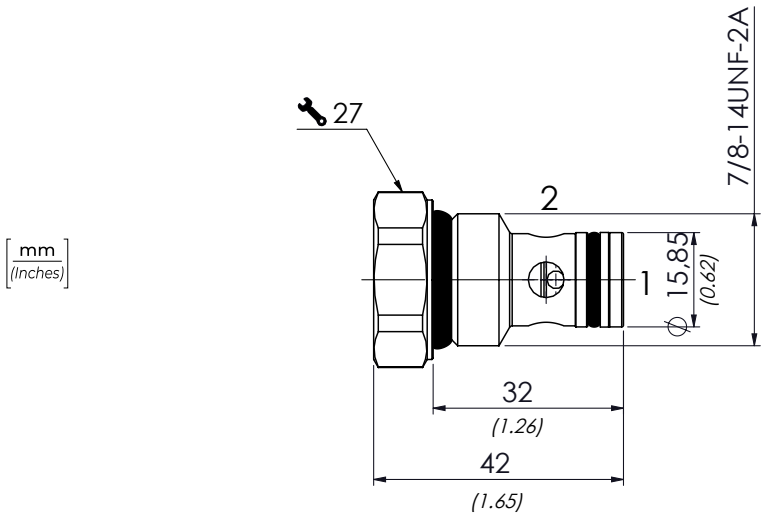
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

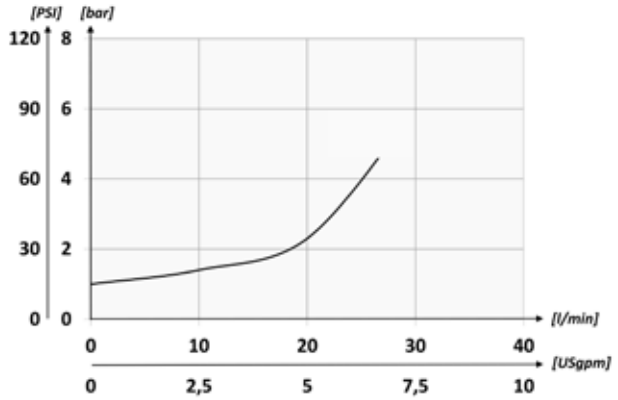
TIPO TYPE	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	CAVITÀ CAVITY	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft
CUR10N	**40** (10.6)	**350** (5075)	**0,09** (0.22)	**SAE10/2**	**45-50** (33-37)

CODICE ORDINAZIONE / ORDERING CODE

01	02	03
CUR2015		**1**

01	VALVOLE UNIDIREZIONALI M20X1,5 (M20X1,5 CHECK VALVES)		**CUR2015**
02	TENUTA (SEALING)	Tenuta a sfera (Ball sealing)	**SF**
		Tenuta ad otturatore (Poppet sealing)	**SP**
03	MOLLA (SPRING)	**1 bar** (14.5 PSI)	**1**

PERFORMANCES



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

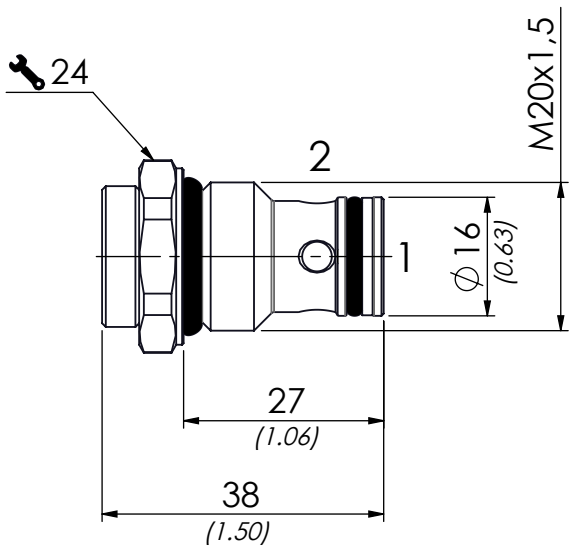
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min

[mm / (Inches)]



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

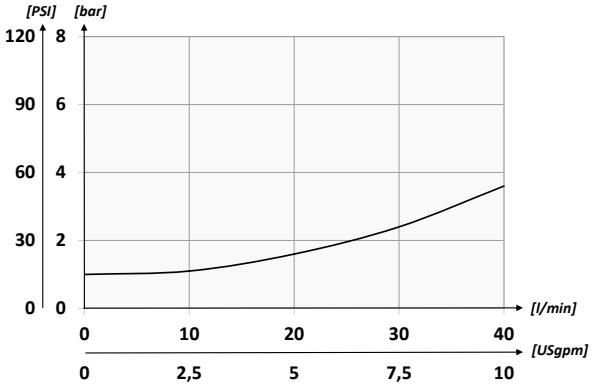
TIPO TYPE	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
CUR2015	**25** (6.6)	**350** (5075)	**0,07** (0.15)	**25-30** (19-22)	**C2015/2**

CODICE ORDINAZIONE / ORDERING CODE

01	02	03
CUR2215		

01	VALVOLE UNIDIREZIONALI M22X1,5 (M22X1,5 CHECK VALVES)		**CUR2215**
02	TENUTA (SEALING)	Tenuta a sfera (Ball sealing)	**SF**
		Tenuta ad otturatore (Poppet sealing)	**SP**
03	MOLLA (SPRING)	**1 bar** (14.5 PSI)	**1**
		4,5 bar - solo otturatore (65.3 PSI - only poppet)	**4,5**

PERFORMANCES

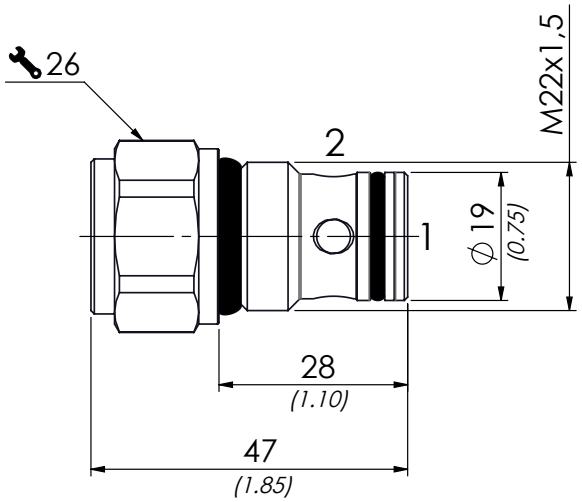


SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min

mm
(Inches)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
CUR2215	**40** (10.6)	**350** (5075)	**0,11** (0.25)	**45-50** (33-37)	**C2215/2**

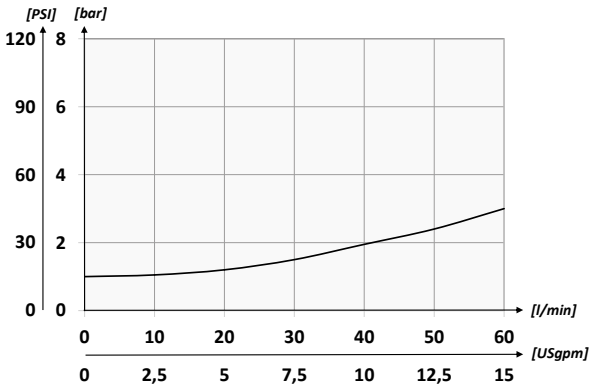
Aggiornamento - Update
20V-2020

CODICE ORDINAZIONE
ORDERING CODE

01	02	03
CUR2615	**SP**	

01	VALVOLE UNIDIREZIONALI M26X1,5 (M26X1,5 CHECK VALVES)		**CUR2615**
02	TENUTA (SEALING)	Tenuta ad otturatore (Poppet sealing)	**SP**
03	MOLLA (SPRING)	**1 bar** (14.5 PSI)	**1**
		4,5 bar (65.3 PSI)	**4,5**

PERFORMANCES



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

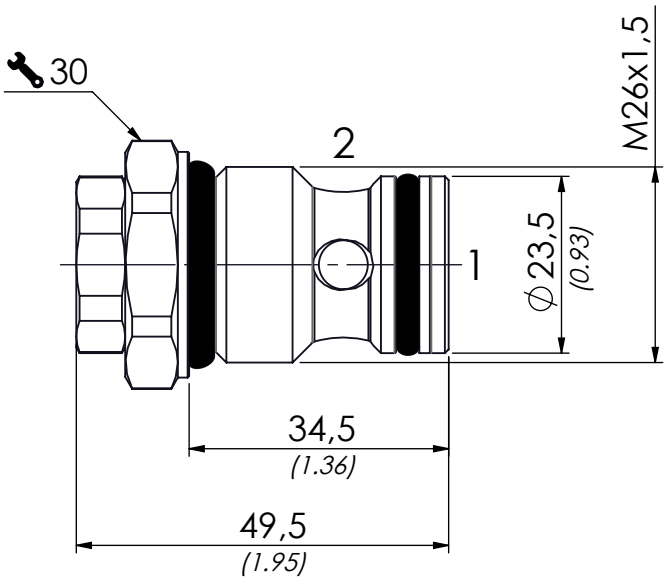
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min

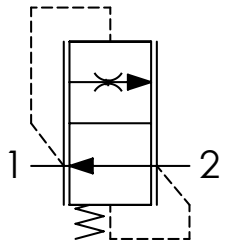
[mm / (Inches)]

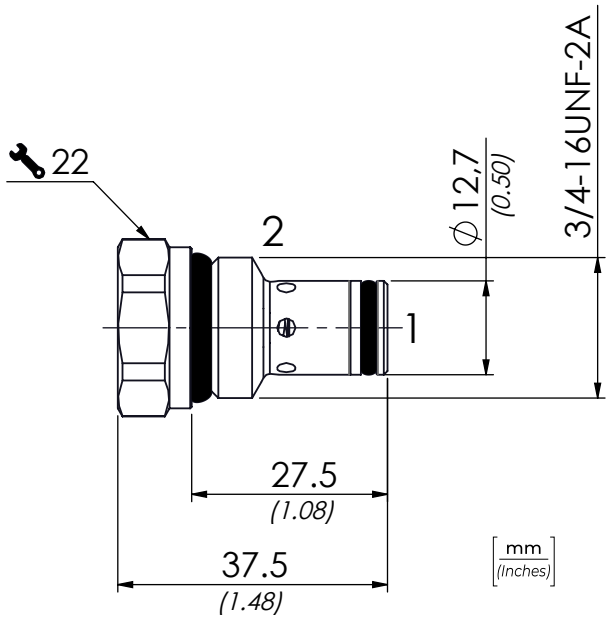


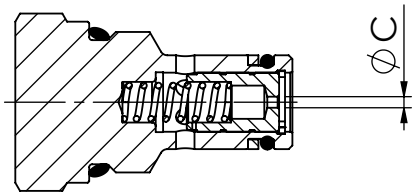
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
CUR2615	**60** (15.8)	**350** (5075)	**0,15** (0.33)	**55-60** (41-45)	**C2615/2**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT







CODICE ORDINAZIONE / ORDERING CODE

01	02
VSC6	

01	VALVOLE CONTROLLO FLUSSO FISSE COMPENSATE SAE 8 (SAE 8 FIXED FLOW CONTROL VALVES - PRESSURE COMPENSATED)		VSC6
02	PORTATA CONTROLLATA A 100 BAR ± 10% (CONTROLLED FLOW AT 100 BAR ± 10 %)	**1 l/min** (0.26 USgpm)	1
		2 l/min (0.53 USgpm)	2
		3 l/min (0.79 USgpm)	3
		4 l/min (1.06 USgpm)	4
		5 l/min (1.32 USgpm)	5
		6 l/min (1.58 USgpm)	6
		7 l/min (1.85 USgpm)	7
		8 l/min (2.11 USgpm)	8
		9 l/min (2.38 USgpm)	9
		10 l/min (1.64 USgpm)	10
		11 l/min (2.90 USgpm)	11
		12 l/min (3.17 USgpm)	12

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

TIPO (TYPE)	Ø C
VSC61	1 (0.04)
VSC62	1,2 (0.05)
VSC63	1,5 (0.06)
VSC64	1,7 (0.07)
VSC65	1,9 (0.07)
VSC66	2,1 (0.08)
VSC67	2,3 (0.09)
VSC68	2,4 (0.09)
VSC69	2,7 (0.11)
VSC610	2,8 (0.11)
VSC611	3,1 (0.12)
VSC612	3,3 (0.13)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

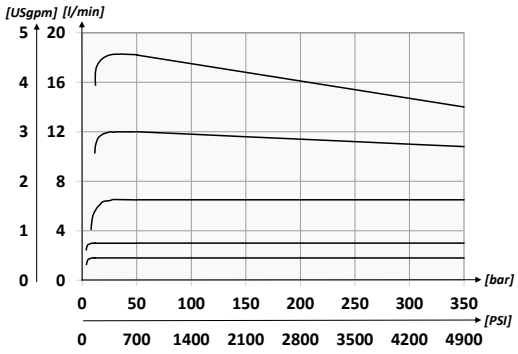
TIPO TYPE	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
VSC6	12 (3.11)	250 (3625)	0,06 (0.15)	25-30 (19-22)	SAE8/2

CODICE ORDINAZIONE / ORDERING CODE

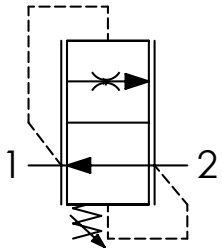
01	02	03
VCF6		

01	VALVOLE CONTROLLO FLUSSO REGOLABILE COMPENSATE SAE 8 (SAE 8 ADJUSTABLE FLOW CONTROL VALVES - PRESSURE COMPENSATED)		**VCF6**
02	PORTATA CONTROLLATA A 100 BAR ± 10% (CONTROLLED FLOW AT 100 BAR ± 10 %)	**0,6-2,2 l/min** (0.16-0.58 USgpm)	**1**
		0,8-3 l/min (0.21-0.79 USgpm)	**2**
		1,3-5,1 l/min (0.34-1.35 USgpm)	**3**
		1,9-6,8 l/min (0.50-1.80 USgpm)	**4**
		2,6-9,1 l/min (0.69-2.40 USgpm)	**5**
		4-14,4 l/min (1.06-3.08 USgpm)	**6**
		7,2-18 l/min (1.90-4.75 USgpm)	**7**
03	REGOLAZIONE (SETTING)	Chiave (Screw)	**C**
		Volantino (Handknob) Tipo (Type) **12000354**	**V**

PERFORMANCES

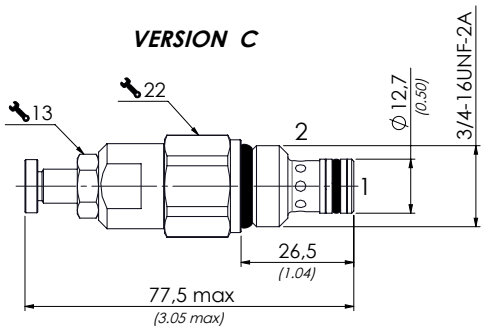


SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

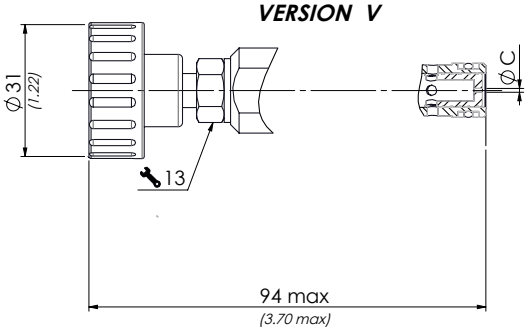


mm (Inches)

VERSION C



VERSION V



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

TIPO (TYPE)	Ø C
VCF61	**0,9** (0.04)
VCF62	**1** (0.04)
VCF63	**1,3** (0.05)
VCF64	**1,5** (0.06)
VCF65	**1,7** (0.07)
VCF66	**2,2** (0.09)
VCF67	**2,8** (0.11)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

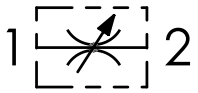
TIPO TYPE	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
VCF6	**18** (4.8)	**350** (5075)	**0,12** (0.26)	**25-30** (19-22)	**SAE8/2**

CODICE ORDINAZIONE / ORDERING CODE

01	02
VBF6	

01	VALVOLE CONTROLLO FLUSSO BIDIREZIONALI SAE 8 (SAE 8 BIDIRECTIONAL FLOW CONTROL VALVES)	**VBF6**
02	Chiave (Screw)	**C**
	Volantino (Handknob)	**V**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

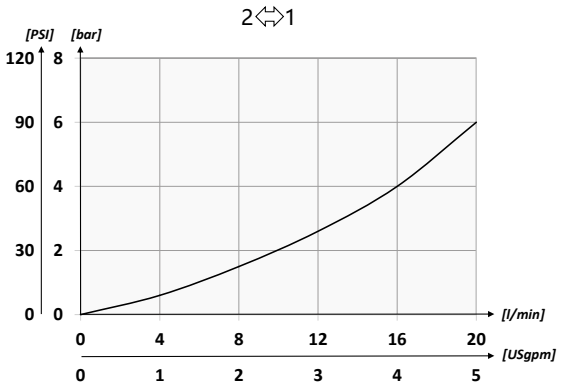


DATI TECNICI / TECHNICAL DATA

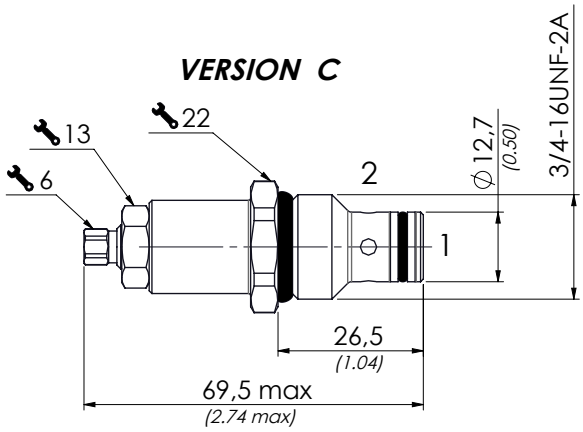
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

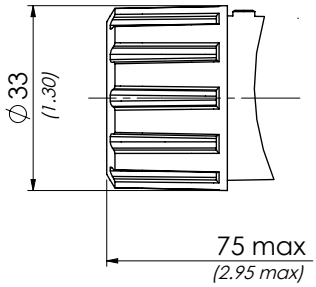
PERFORMANCES



VERSION C



VERSION V



mm
(Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

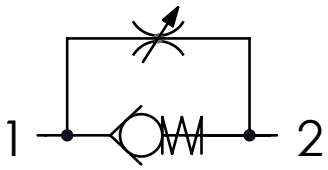
TIPO TYPE	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
VBF6	**30** (7.9)	**350** (5075)	**0,09** (0.20)	**25-30** (19-22)	**SAE8/2**

CODICE ORDINAZIONE / ORDERING CODE

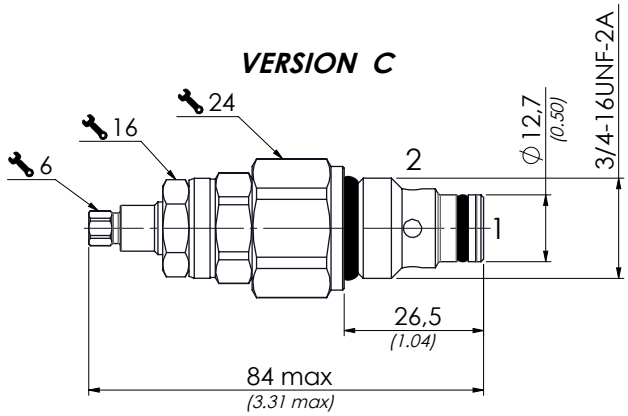
01	02
VRF6	

01	VALVOLE CONTROLLO FLUSSO UNIDIREZIONALI SAE 8 (SAE 8 UNIDIRECTIONAL FLOW CONTROL VALVES)	VRF6
02	CHIAVE (SCREW)	C
	Volantino (Handknob) Tipo (Type) **12000275**	V

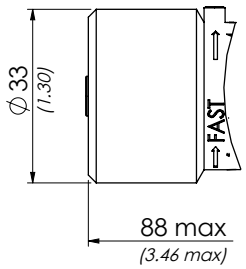
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



VERSION C



VERSION V



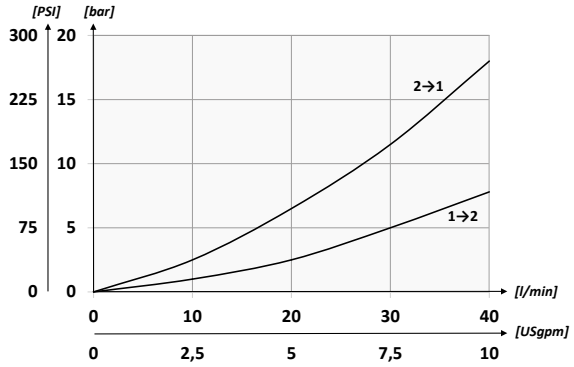
mm
(Inches)

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

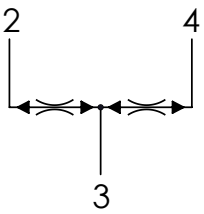
PERFORMANCES



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
VRF6	**40** (10.6)	**350** (5075)	**0,13** (0.30)	**25-30** (19-22)	**SAE8/2**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



CODICE ORDINAZIONE
ORDERING CODE

01	02
VDRF10	

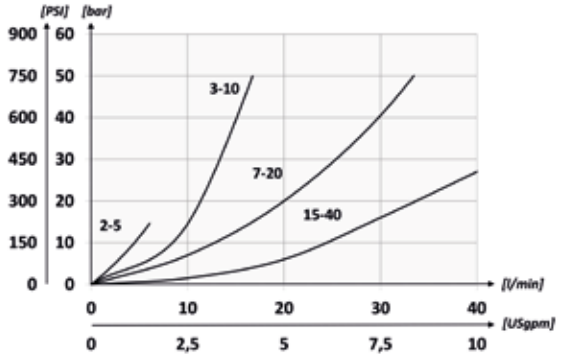
01	DIVISORE/RIUNIFICATORE DI FLUSSO A CARTUCCIA SAE 10 (SAE 10 CARTRIDGE FLOW DIVIDERS/COMBINERS)		**VDRF10**
02	Campo di portata in ingresso (l/min) Inlet flow range (USgpm)	**2-5** (0.5-1.3)	**1**
		3-10 (0.8-2.6)	**2**
		7-20 (1.8-5.3)	**3**
		15-40 (4.0-10.6)	**4**

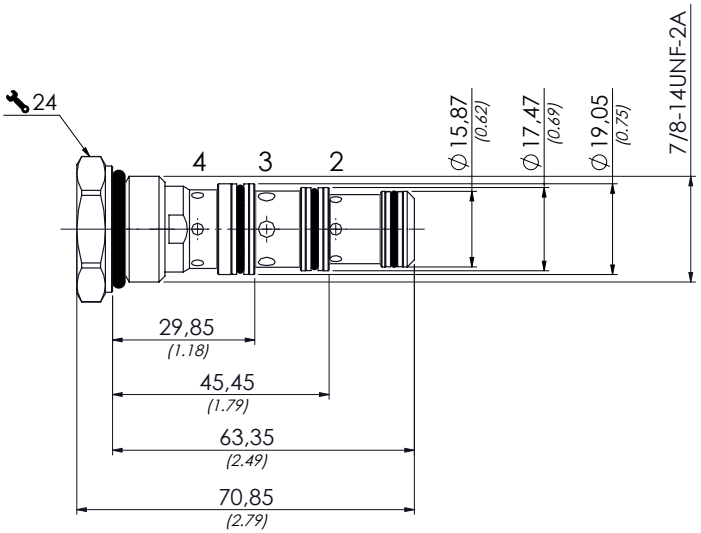
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
VDRF10	**40** (10.6)	**350** (5075)	**0,12** (0.26)	**30-35** (22-26)	**SAE10/4**

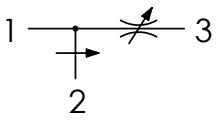
01

CODICE ORDINAZIONE
ORDERING CODE

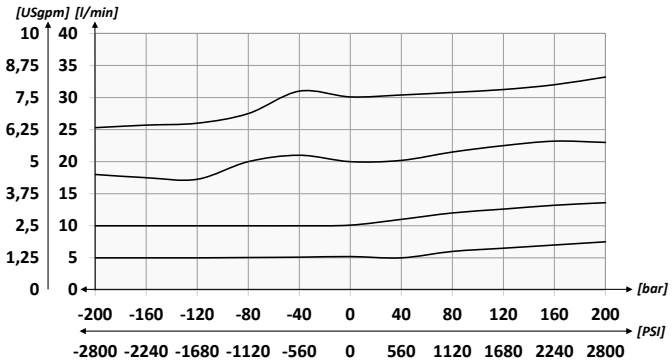
CP10

01	VALVOLE REGOLATRICI DI FLUSSO 3 VIE SAE 10 - COMPENSATE SAE 10 FLOW REGULATOR 3 WAYS - PRESSURE COMPENSATED	**CP10**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES

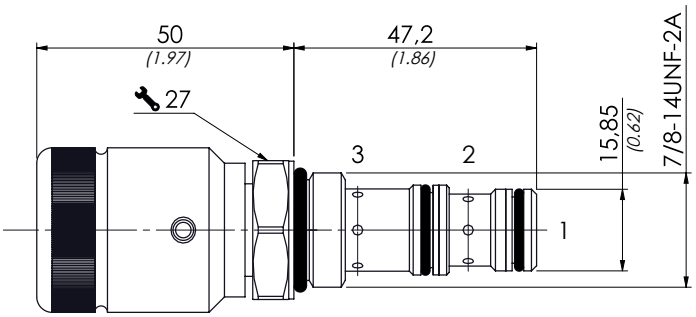


PORTATA MASSIMA (L/MIN) - MAX FLOW (USGPM)

50 l/min con 30 l/min in 3 (13,3 Usgpm with 8 Usgpm in 3)

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



mm
(Inches)

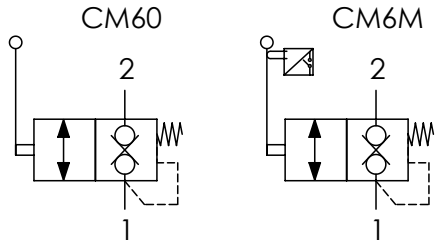
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
CP10	**50** (13.26)	**350** (5075)	**0,20** (0.44)	**60-70** (45-52)	**SAE10/3**

LA VALVOLA A COMANDO MANUALE VIENE FORNITA CON LEVA DI AZIONAMENTO L=190 mm

THE MANUAL OPERATED RELEASE VALVE IS SUPPLIED WITH ACTING LEVER 7,4 inch LENGHT

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

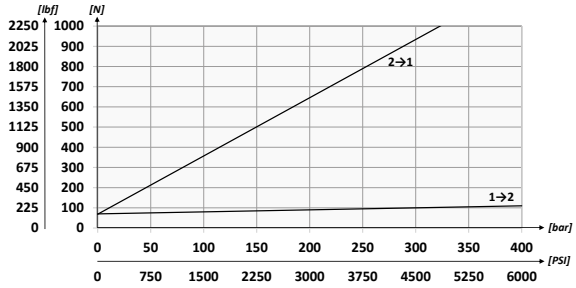


CODICE ORDINAZIONE / ORDERING CODE

01	02
CM6	

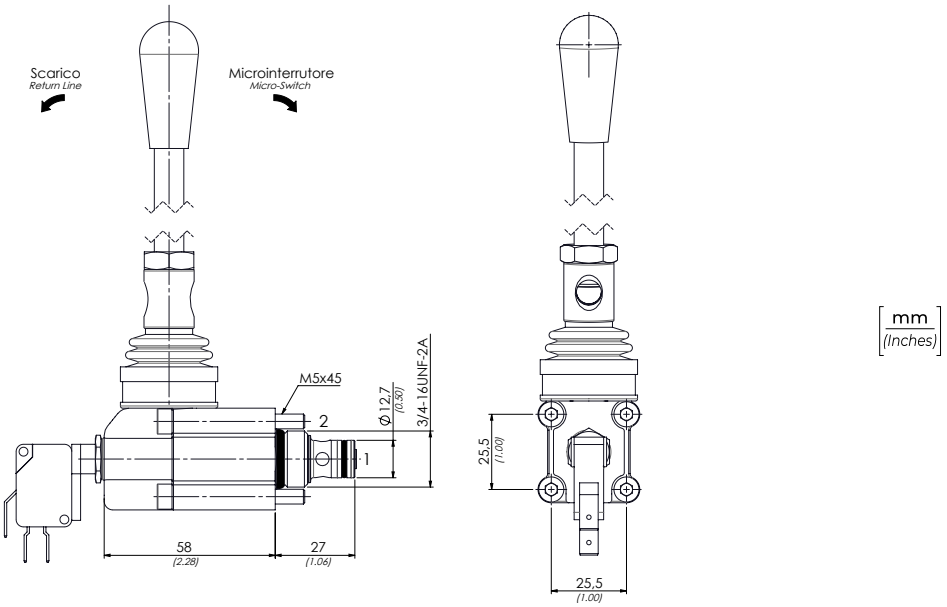
01	**VALVOLE A COMANDO MANUALE** (MANUAL OPERATED RELEASE VALVES)	**CM6**
02	**Senza microinterruttore** (Without micro-switch)	**0**
	Con micro microinterruttore (With micro-switch)	**M**

PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



mm
(Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
CM6	**25** (6.6)	**320** (4640)	**0,41** (0,90)	**25-30** (19-22)	**SAE8/2**

LA POMPA VIENE FORNITA CON LEVA DI AZIONAMENTO L=270 mm

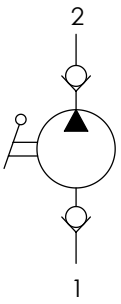
THE PUMP IS SUPPLIED WITH ACTING LEVER 10,5 inch LENGHT

CODICE ORDINAZIONE / ORDERING CODE

01	02	03
PME		**L**

01	POMPE A MANO (CARTRIDGE HAND PUMPS)	**PME**
02	Modello (Tipe)	**05**
		06
		07
03	Leva (Hand lever)	**L**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



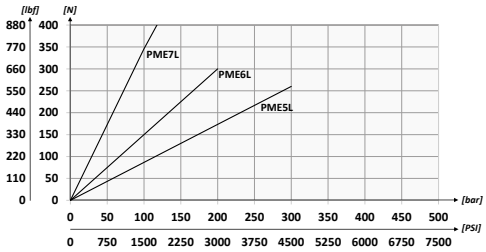
DATI TECNICI / TECHNICAL DATA

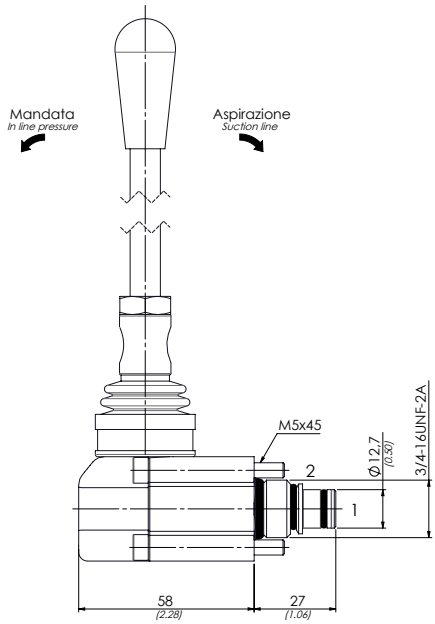
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

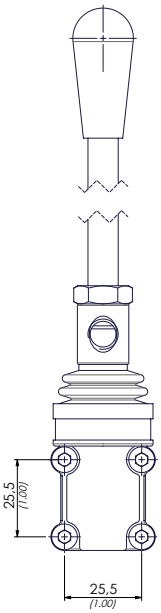
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min

PERFORMANCES







mm
(Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	CILINDRATA (cm³) DISPLACEMENT (in³)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
PME5L	**1** (0.06)	**300** (4350)	**0,46** (1.01)	**25-30** (19-22)	**SAE8/2**
PME6L	**2** (0.12)	**200** (2900)			
PME7L	**3** (0.18)	**120** (1740)			

LA POMPA VIENE FORNITA CON LEVA DI AZIONAMENTO L=500 mm

THE PUMP IS SUPPLIED WITH ACTING LEVER 19,6 inch LENGHT

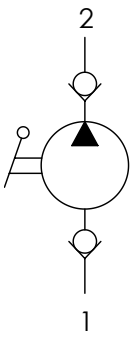
01

CODICE ORDINAZIONE
ORDERING CODE

PME10

01	POMPE A MANO (CARTRIDGE HAND PUMPS)	**PME10**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



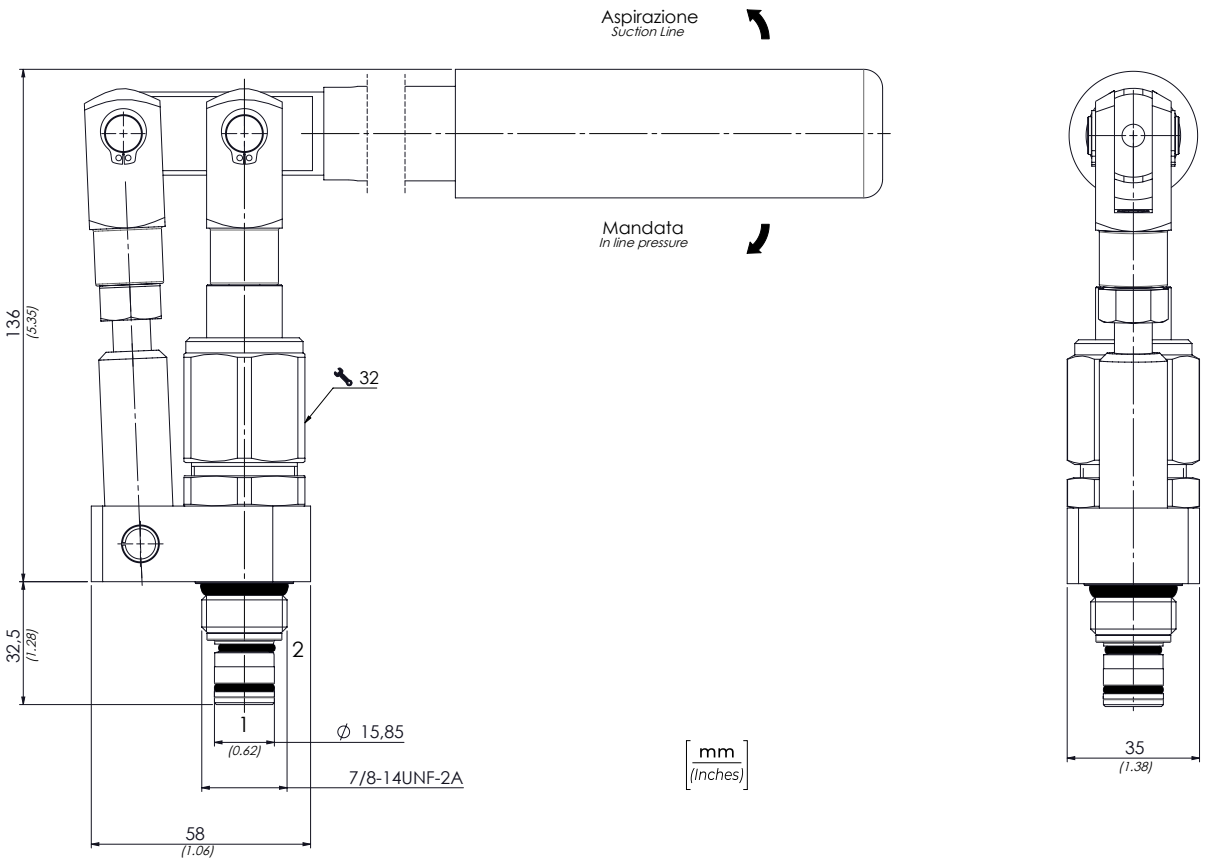
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

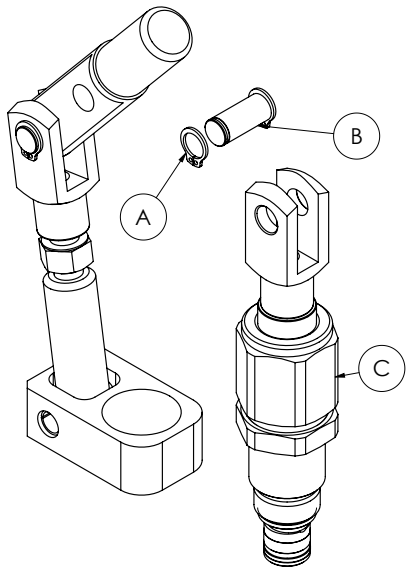
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	CILINDRATA (cm³) DISPLACEMENT (in³)	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
PME10	**10** (0.6)	**200** (2900)	**1,9** (4.20)	**41-47** (30-35)	**SAE10/2**



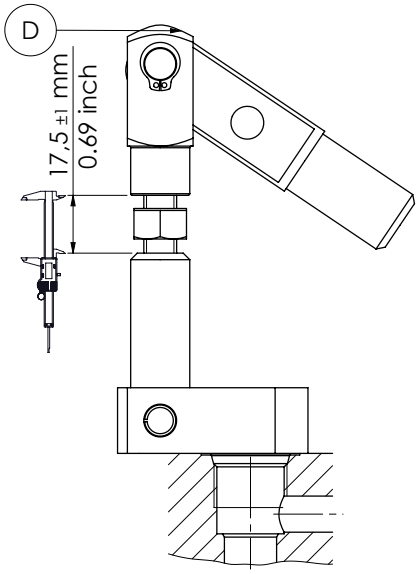
1



Smontare l'anello di arresto (**A**), sfilare la spina (**B**), togliere la valvola (**C**).

Disassemble the snap ring (**A**), get out the pin (**B**), remove the valve (**C**).

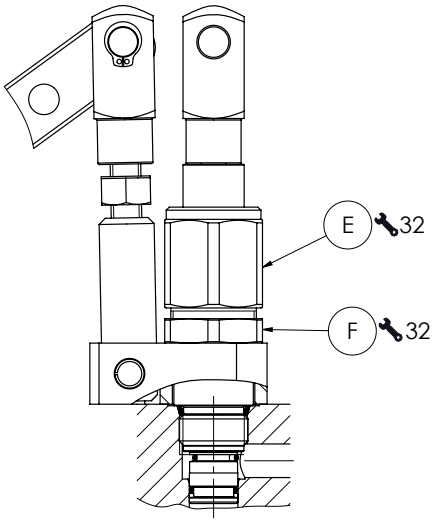
2



Posizionare la forcella (**D**) alla misura indicata; avvicinare il leverismo alla cavità della valvola.

Position the fork (**D**) at shown dimension; put the levering kit close to the valve cavity.

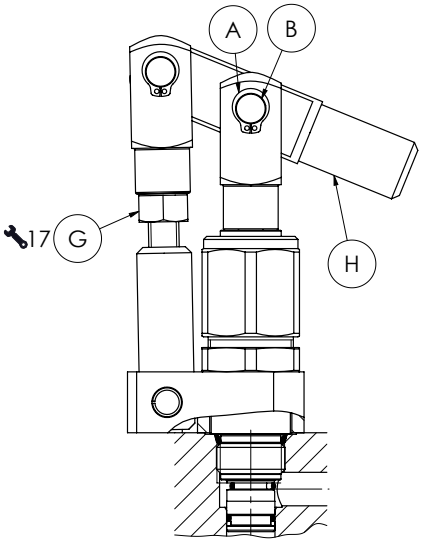
3



Avvitare la cartuccia (**E**) nella cavità (41-47 Nm); stringere la ghiera (**F**)(41-47 Nm).

Screw the cartridge (**E**) in the cavity (30-35 lbft); tighten the lock nut (**F**)(30-35 lbft).

4



Posizionare la leva (**H**) verso il basso; montare la spina (**B**) e l'anello di arresto (**A**); serrare il dado (**G**) (33-53 Nm).

Place the lever (**H**) downward; assemble the pin (**B**) and the snap ring (**A**); tighten the nut (**G**) (45-72 lbft).

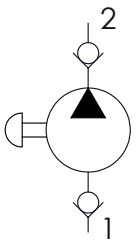
01

CODICE ORDINAZIONE
ORDERING CODE

PME5P

01	POMPE A MANO (CARTRIDGE HAND PUMPS)	**PME5P**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



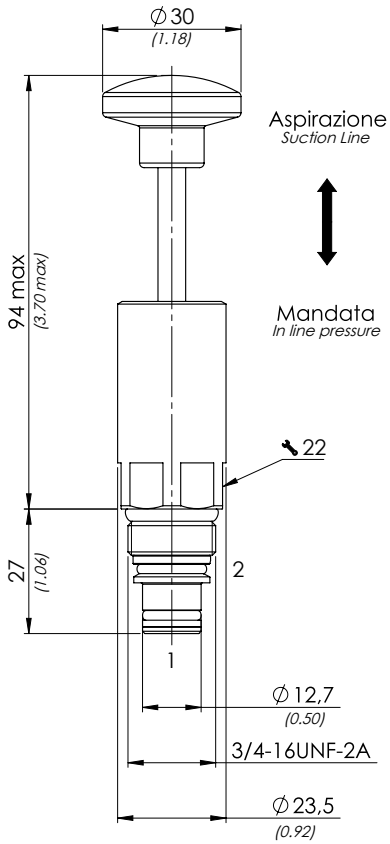
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	CILINDRATA (cm³) DISPLACEMENT (in³)	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
PME5P	**1** (0.06)	**50** (725)	**0,2** (0.44)	**34-41** (25-30)	**SAE8/2**



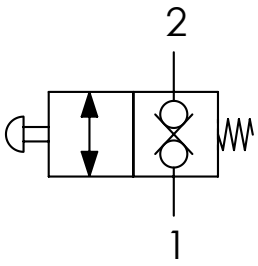
mm
(Inches)

CODICE ORDINAZIONE / ORDERING CODE

01	02
VEM	

01	VALVOLE DI EMERGENZA MANUALE (MANUAL EMERGENCY VALVES)		VEM
02	DIMENSIONE (SIZE)	3/4-16UNF	6
		7/8-14UNF	10

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



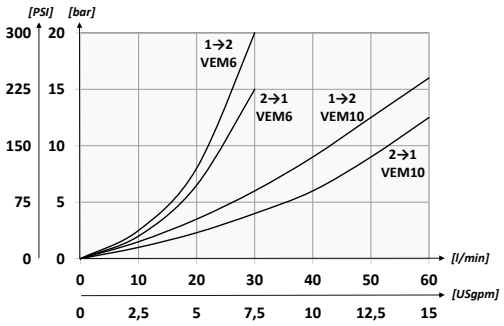
DATI TECNICI / TECHNICAL DATA

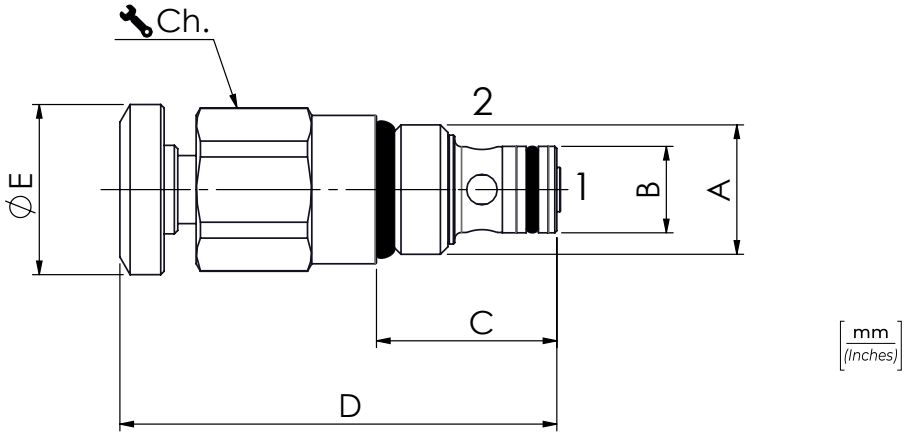
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min

PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	Cavità Cavity
VEM6	**3/4-16UNF-2A**	**30** (7.9)	**320** (4640)	**12,7** (0.5)	**26,5** (1.04)	**35** (1.38)	**25** (0.98)	**22**	**0,12** (0.27)	**25-30** (19-22)	**SAE8/2**
VEM10	**7/8-14UNF-2A**	**50** (13.2)		**15,80** (0.62)	**32,5** (1.28)	**43,5** (1.71)	**29** (1.14)	**27**	**0,20** (0.44)	**41-47** (30-35)	**SAE10/2**

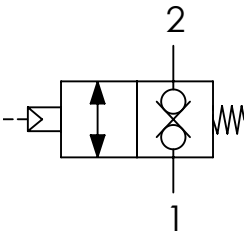
01

CODICE ORDINAZIONE
ORDERING CODE

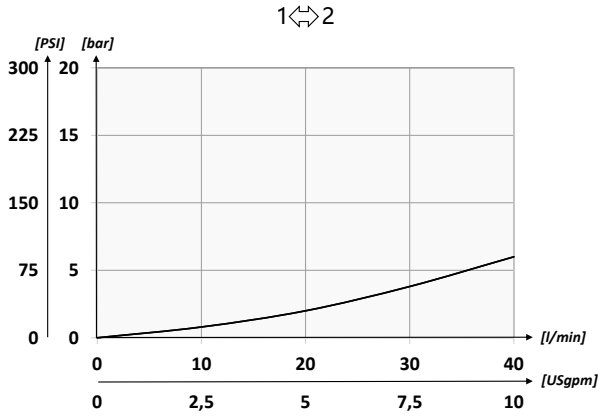
VPN6

01	VALVOLE PNEUMATICHE SAE 8 (SAE 8 PNEUMATIC VALVES)	**VPN6**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

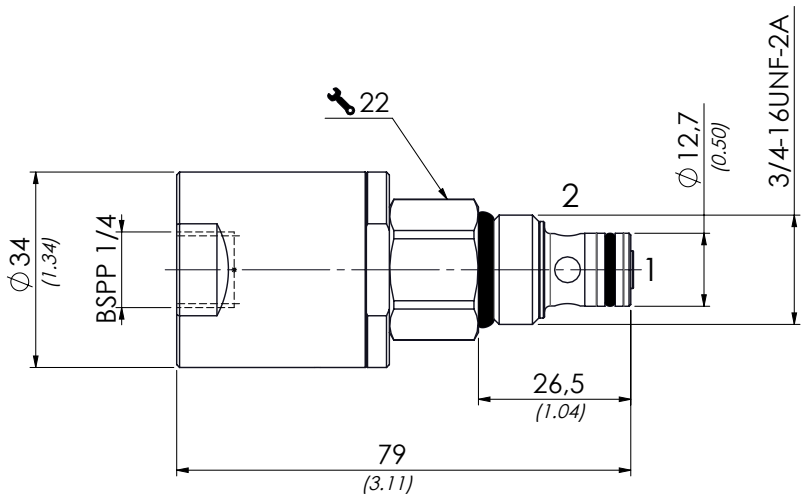


PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



mm
(Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	**PORTATA MAX** (l/min) MAX FLOW (USgpm)	**PRESSIONE MAX** (bar) MAX PRESSURE (PSI)	**PESO APPROX** (kg) APPROX WEIGHT (lbt)	**COPPIA DI SERRAGGIO** TIGHTENING TORQUE Nm-lbt ft	**CAVITÀ** CAVITY	**PRESSIONE DI PILOTAGGIO** PILOT PRESSURE bar-PSI
VPN6	**30** (7.9)	**350** (5075)	**0,16** (0.35)	**25-30** (19-22)	**SAE8/2**	**4/15** (58/218)

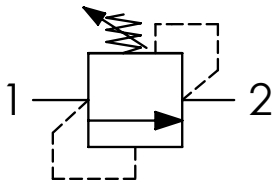
Aggiornamento - Update
20V-2020

CODICE ORDINAZIONE / ORDERING CODE

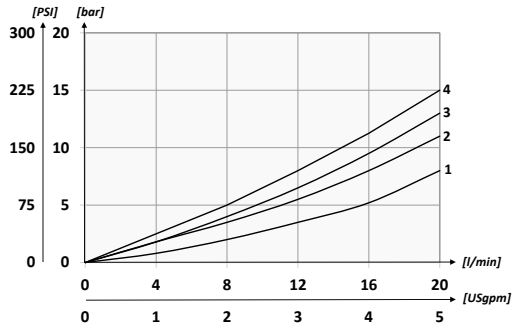
01	02	03	04
VMD1	C		N

01	VALVOLE LIMITATRICI DI PRESSIONE DIRETTE SAE 8 (SAE8 DIRECT ACTING PRESSURE RELIEF VALVES)		**VMD1**
02	REGOLAZIONE (SETTING)	Chiave (Key)	**C**
03	MOLLA (SPRING) **10/40 bar** (145/580PSI)	**20 bar/al giro** (290 PSI/turn)	**1**
	MOLLA (SPRING) **20/110 bar** (290/1595 PSI)	**40 bar/al giro** (580 PSI/turn)	**2**
	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	**70 bar/al giro** (1015 PSI/turn)	**3**
	MOLLA (SPRING) **40/350 bar** (580/5075 PSI)	**130 bar/al giro** (1885 PSI/turn)	**4**
04	Versione (Version)		**N**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



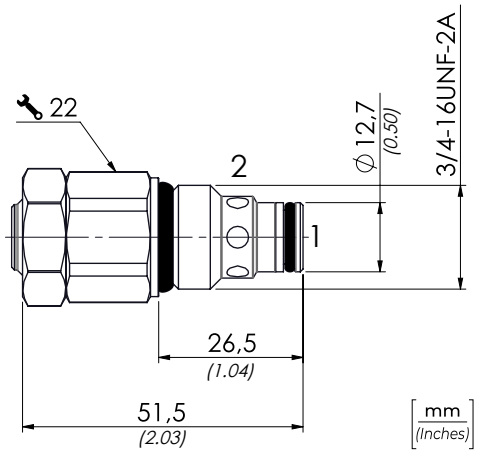
PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



OPTION

SAFETY CAP

Cod. 12000380

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

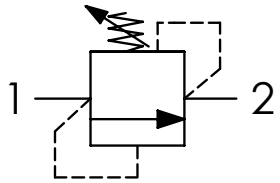
TIPO TYPE	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
VMD1N	**20** (5.3)	**350** (5075)	**0,11** (0.24)	**25-30** (19-22)	**SAE8/2**

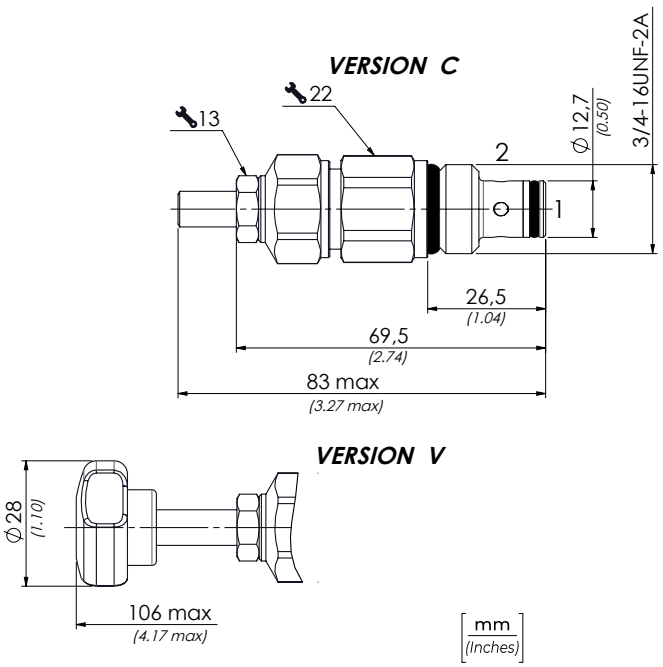
CODICE ORDINAZIONE / ORDERING CODE

01	02	03
VMD10		

01	VALVOLE LIMITATRICI DI PRESSIONE DIRETTE SAE 8 (SAE8 DIRECT ACTING PRESSURE RELIEF VALVES)			**VMD10**
02	REGOLAZIONE (SETTING)	Chiave (Hex socket screw)	Opzione: Tappo piombatura (Optional: Tamper proof cap) **81300037**	**C**
		Volantino (Handknob) Tipo (Type) **81300109**		**V**
03	MOLLA (SPRING) **10/40 bar** (145/580 PSI)	**12 bar/al giro** (174 PSI/turn)		**1**
	MOLLA (SPRING) **20/110 bar** (290/1595 PSI)	**37 bar/al giro** (537 PSI/turn)		**2**
	MOLLA (SPRING) **30/210 bar** (435/3045 PSI)	**67 bar/al giro** (972 PSI/turn)		**3**
	MOLLA (SPRING) **40/350 bar** (580/5075 PSI)	**131 bar/al giro** (1900 PSI/turn)		**4**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



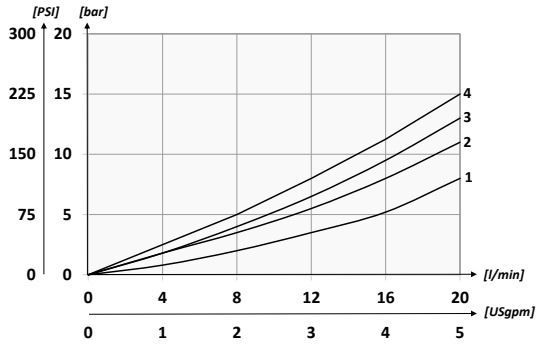


DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)		
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)		
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**		
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F	
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F	

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

PERFORMANCES



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
VMD10	**20** (5.3)	**350** (5075)	**0,14** (0.30)	**25-30** (19-22)	**SAE8/2**

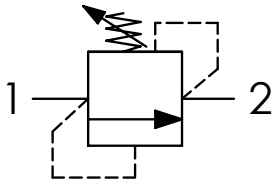
Aggiornamento - Update 20V-2020

CODICE ORDINAZIONE / ORDERING CODE

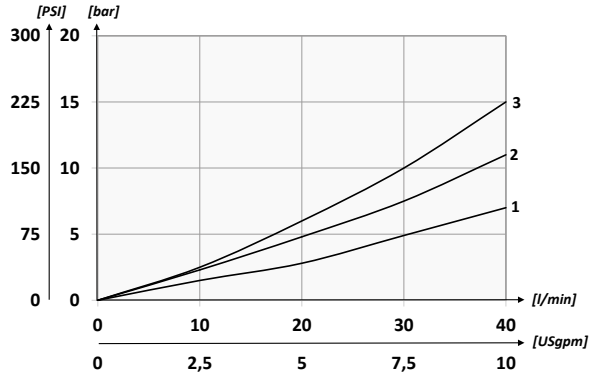
01	02	03
VMD8		

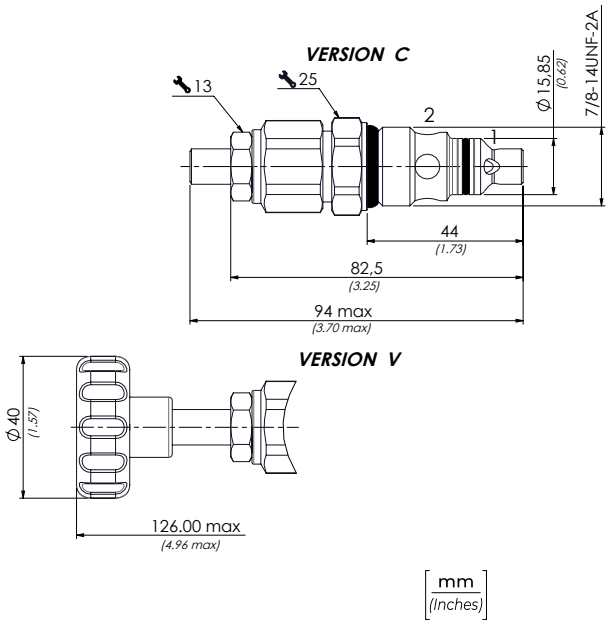
01	VALVOLE LIMITATRICI DI PRESSIONE DIRETTE SAE 10 (SAE10 DIRECT ACTING PRESSURE RELIEF VALVES)			**VMD8**
02	REGOLAZIONE (SETTING)	Chiave (Hex socket screw)	Opzione: Tappo piombatura (Optional: Tamper proof cap) **81300095**	**C**
		Volantino (Handknob) Tipo (Type) **81300023**		**V**
03	MOLLA (SPRING) **10/90 bar** (145/1305 PSI)	**20 bar/al giro** (290 PSI/turn)		**1**
	MOLLA (SPRING) **20/210 bar** (290/3045 PSI)	**48 bar/al giro** (696 PSI/turn)		**2**
	MOLLA (SPRING) **70/350 bar** (1015/5075 PSI)	**85 bar/al giro** (1233 PSI/turn)		**3**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES





DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

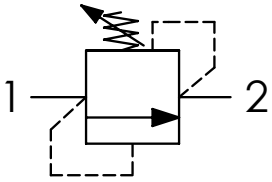
TIPO TYPE	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
VMD8	**40** (10.6)	**350** (5075)	**0,17** (0.37)	**41-47** (30-35)	**SAE10/2**

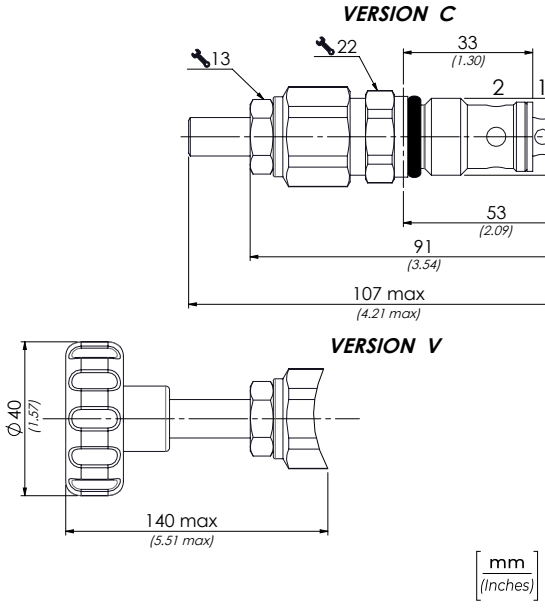
CODICE ORDINAZIONE / ORDERING CODE

	01	02	03
	VMD30		

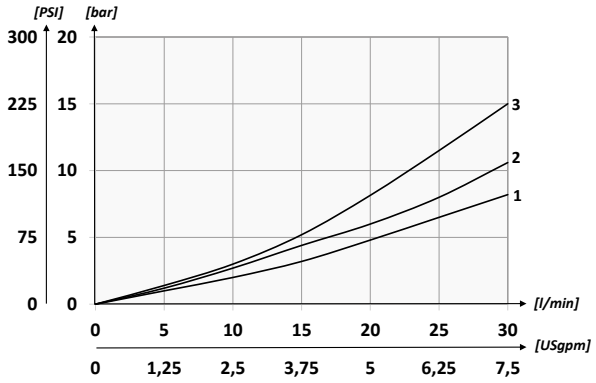
01	VALVOLE LIMITATRICI DI PRESSIONE DIRETTE M20X1,5 (M20X1,5 DIRECT ACTING PRESSURE RELIEF VALVES)		**VMD30**
02	REGOLAZIONE (SETTING)	Chiave (Hex socket screw) — Opzione: Tappo piombatura (Optional: Tamper proof cap) **81300095**	**C**
		Volantino (Handknob) Tipo (Type) **81300109**	**V**
03	MOLLA (SPRING) **10/90 bar** (145/1305 PSI)	**14 bar/al giro** (203 PSI/turn)	**1**
	MOLLA (SPRING) **20/210 bar** (290/3045 PSI)	**39 bar/al giro** (566 PSI/turn)	**2**
	MOLLA (SPRING) **70/350 bar** (1015/5075 PSI)	**84 bar/al giro** (1218 PSI/turn)	**3**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





PERFORMANCES



DATI TECNICI / TECHNICAL DATA

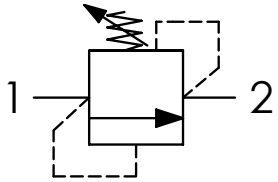
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

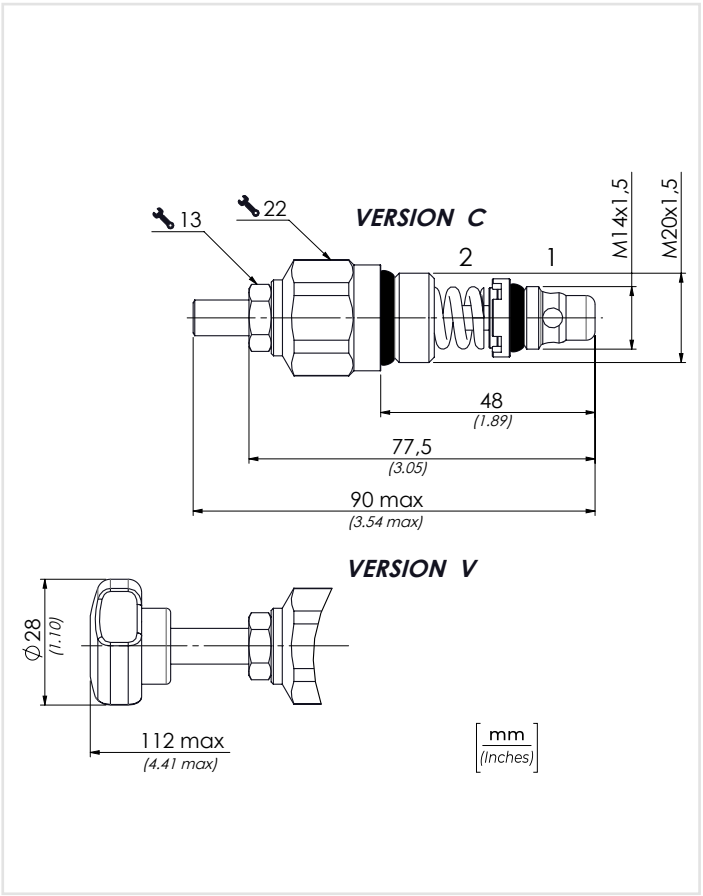
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	**PORTATA MAX** (l/min) MAX FLOW (USgpm)	**PRESSIONE MAX** (bar) MAX PRESSURE (PSI)	**PESO APPROX** (kg) APPROX WEIGHT (lbt)	**COPPIA DI SERRAGGIO** TIGHTENING TORQUE Nm-lbt ft	**CAVITÀ** CAVITY
VMD30	**30** (7.9)	**320** (4640)	**0,16** (0.35)	**25-30** (19-22)	**C2015/30**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

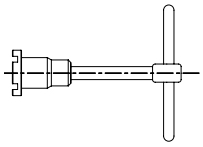




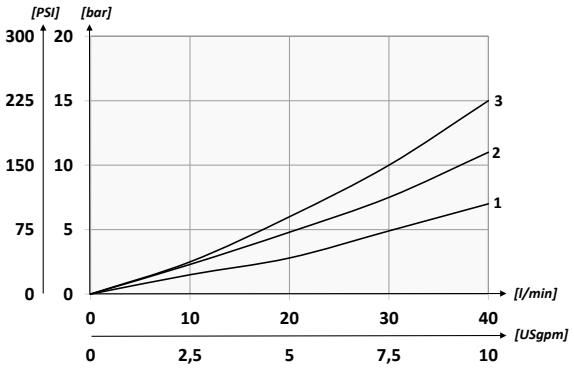
CODICE ORDINAZIONE / ORDERING CODE

01	02	03
VMD40S		

01	VALVOLE LIMITATRICI DI PRESSIONE DIRETTE M20X1,5 (M20X1,5 DIRECT ACTING PRESSURE RELIEF VALVES)		**VMD40S**
02	REGOLAZIONE (SETTING)	Chiave (Hex socket screw)	Opzione: Tappo piombatura (Optional: Tamper proof cap) **81300037** — **C**
		Volantino (Handknob) Tipo (Type) **81300109**	**V**
03	MOLLA (SPRING) **10/90 bar** (145/1305 PSI)	**12 bar/al giro** (174 PSI/turn)	**1**
	MOLLA (SPRING) **20/210 bar** (290/3045 PSI)	**33 bar/al giro** (479 PSI/turn)	**2**
	MOLLA (SPRING) **70/350 bar** (1015/5075 PSI)	**70 bar/al giro** (1015 PSI/turn)	**3**

CHIAVE (TOOL) **61700008**	

PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

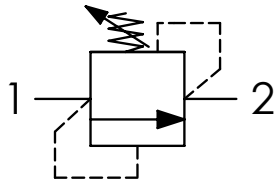
TIPO TYPE	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY
VMD40S	**40** (10.6)	**350** (5075)	**0,13** (0.29)	**M20 40/45** (30-34) **M14 10/15** (7-11)	**C2015/1415/2**

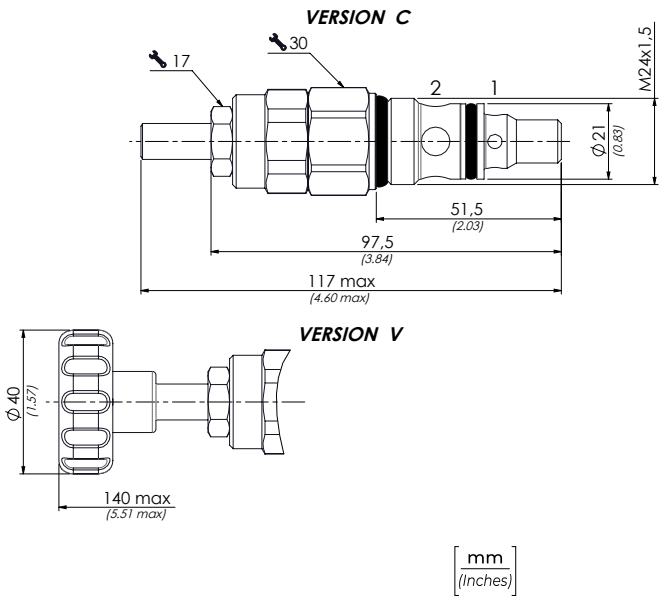
CODICE ORDINAZIONE / ORDERING CODE

01	02	03
VMD90		

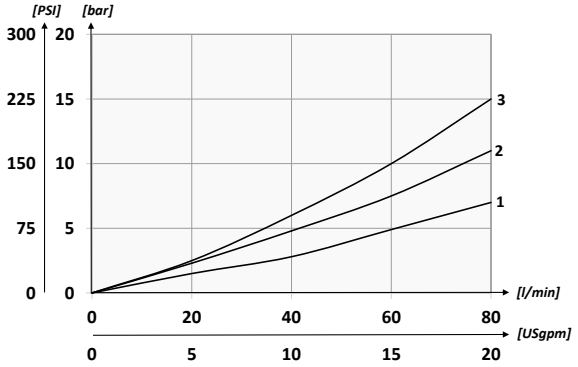
01	VALVOLE LIMITATRICI DI PRESSIONE DIRETTE M24X1,5 (M24X1,5 DIRECT ACTING PRESSURE RELIEF VALVE)		**VMD90**
02	REGOLAZIONE (SETTING)	Chiave (Hex socket screw) — Opzione: Tappo piombatura (Optional: Tamper proof cap) **81300095**	**C**
		Volantino (Handknob) Tipo (Type) **81300023**	**V**
03	MOLLA (SPRING) **10/90 bar** (145/1305 PSI)	**26 bar/al giro** (377 PSI/turn)	**1**
	MOLLA (SPRING) **20/250 bar** (290/3625 PSI)	**41 bar/al giro** (595 PSI/turn)	**2**
	MOLLA (SPRING) **50/350 bar** (725/5075 PSI)	**91 bar/al giro** (1320 PSI/turn)	**3**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





PERFORMANCES



DATI TECNICI / TECHNICAL DATA

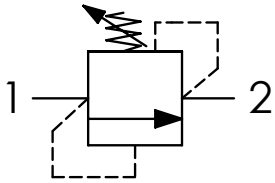
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

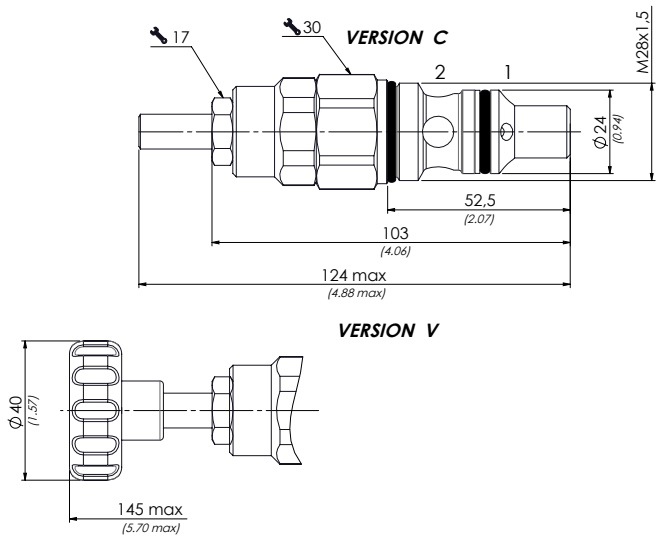
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	**PORTATA MAX** (l/min) MAX FLOW (USgpm)	**PRESSIONE MAX** (bar) MAX PRESSURE (PSI)	**PESO APPROX** (kg) APPROX WEIGHT (lbt)	**CILINDRATA** (cm³) DISPLACEMENT (in³)	**CAVITÀ** CAVITY
VMD90	**80** (21.1)	**350** (5075)	**0,25** (0.55)	**60-65** (45-49)	**C2415/2**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



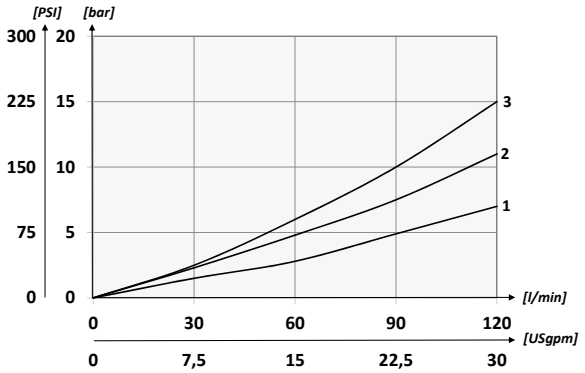


CODICE ORDINAZIONE / ORDERING CODE

01	02	03
VMD120		

01	VALVOLE LIMITATRICI DI PRESSIONE DIRETTE M28X1,5 (M28X1,5 DIRECT ACTING PRESSURE RELIEF VALVE)		**VMD120**
02	REGOLAZIONE (SETTING)	Chiave (Hex socket screw)	Opzione: Tappo piombatura (Optional: Tamper proof cap) **81300095** — **C**
		Volantino (Handknob) Tipo (Type) **81300023**	**V**
03	MOLLA (SPRING) **10/100 bar** (145/1450 PSI)	**21 bar/al giro** (305 PSI/turn)	**1**
	MOLLA (SPRING) **20/250 bar** (290/3625 PSI)	**48 bar/al giro** (696 PSI/turn)	**2**
	Molla (SPRING) **40/350 bar** (580/5075 PSI)	**55 bar/al giro** (798 PSI/turn)	**3**

PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

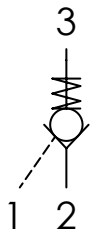
TIPO TYPE	**PORTATA MAX** (l/min) MAX FLOW (USgpm)	**PRESSIONE MAX** (bar) MAX PRESSURE (PSI)	**PESO APPROX** (kg) APPROX WEIGHT (lbt)	**COPPIA DI SERRAGGIO** TIGHTENING TORQUE Nm-lbt ft	**Cavità** Cavity
VMD120	**120** (31.7)	**350** (5075)	**0,32** (0.70)	**60-65** (45-49)	**C2815/2**

CODICE ORDINAZIONE / ORDERING CODE

01	02
VPR	

01	VALVOLE DI BLOCCO PILOTATE A SEMPLICE EFFETTO (SINGLE ACTING PILOT CHECK VALVES)		**VPR**
02	DIMENSIONE (SIZE)	3/4-16UNF	**08**
		7/8-14UNF	**10**

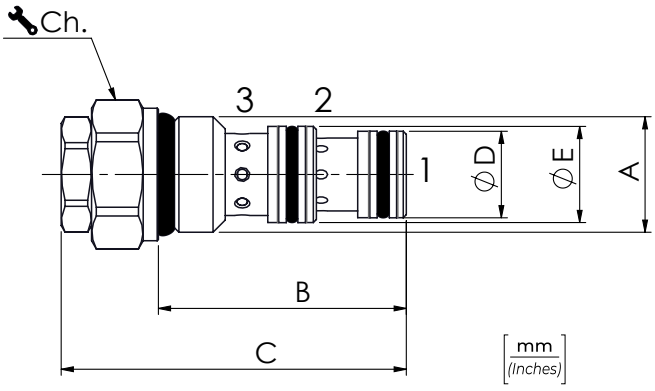
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



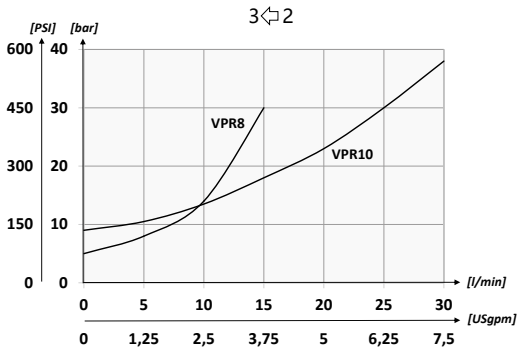
DATI TECNICI / TECHNICAL DATA

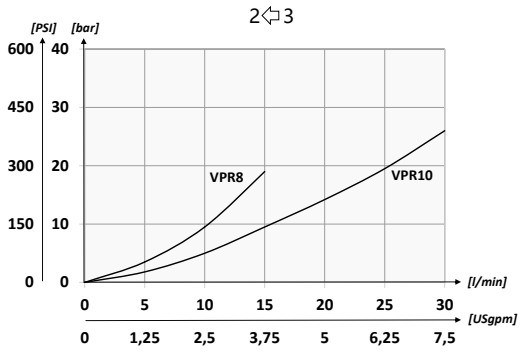
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

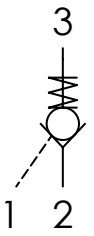
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	PESO APPROX APPROX WEIGHT kg-lbt	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	RAPPORTO DI PILOTAGGIO PILOT RATIO	CAVITÀ CAVITY	Ch. Key
VPR08	**3/4-16UNF**	**15** (4)	**350** (5075)	**41** (1.61)	**57** (2.24)	**14,2** (0.56)	**15,8** (0.62)	**0,09** (0.19)	**25-30** (19-22)	**1:2.5**	**SAE8/3**	**22**
VPR10	**7/8 - 14UNF**	**30** (7.9)		**47** (1.85)	**59** (2.32)	**15,8** (0.62)	**17,4** (0.69)	**0,11** (0.25)	**41-47** (30-35)	**1:3**	**SAE10/3**	**27**

CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
VPR	22	SP	

01	VALVOLE DI BLOCCO PILOTATE M22X1,5 A SEMPLICE EFFETTO (M22X1,5 SINGLE ACTING PILOT CHECK VALVES)		**VPR**
02	DIMENSIONE (SIZE)	M22x1,5	**22**
03	TENUTA (SEALING)	Tenuta ad otturatore (Poppet sealing)	**SP**
04	MOLLA (SPRING)	5 bar (72,5 PSI)	**5**
		8 bar (116 PSI)	**8**

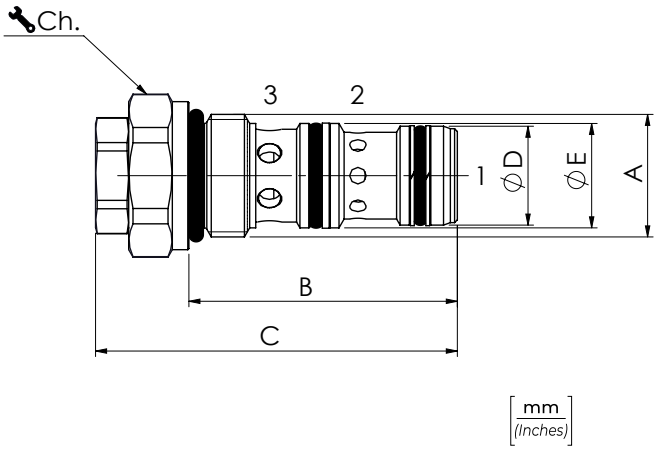
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



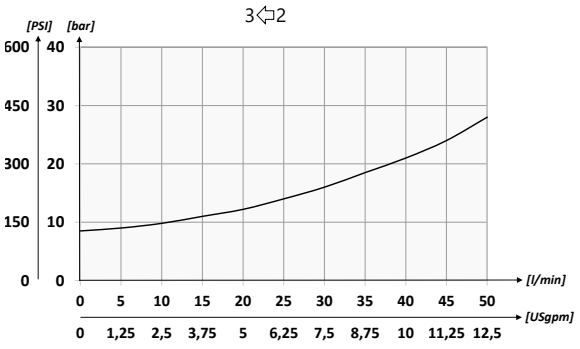
DATI TECNICI / TECHNICAL DATA

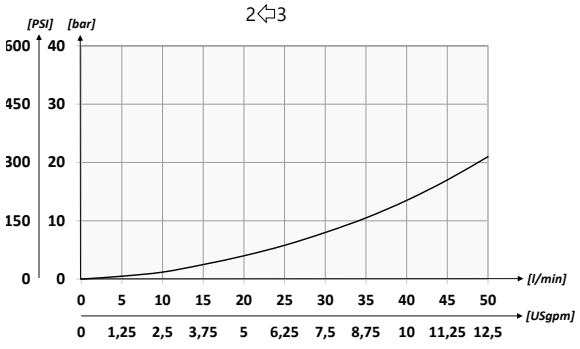
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

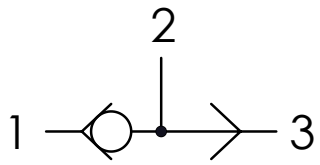
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	PESO APPROX APPROX WEIGHT kg-lbt	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	RAPPORTO DI PILOTAGGIO PILOT RATIO	CAVITÀ CAVITY	Ch. Key
VPR22	**M22x1,5**	**50** (13,3)	**350** (5075)	**48,6** (1.91)	**65,5** (2.58)	**17,9** (0.70)	**18,9** (0.74)	**0,14** (0.30)	**44-50** (32-37)	**1:2.5**	**C2215/3**	**27**

CODICE ORDINAZIONE / ORDERING CODE

01	02
SV	

01	VALVOLE SELETTRICI (LOAD SHUTTLE - BALL VALVES)		**SV**
02	DIMENSIONE (SIZE)	3/4-16UNF	**08**
		7/8-14UNF	**10**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

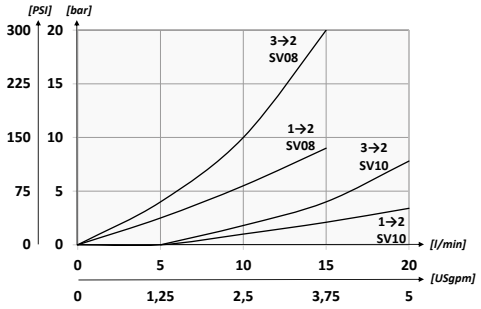


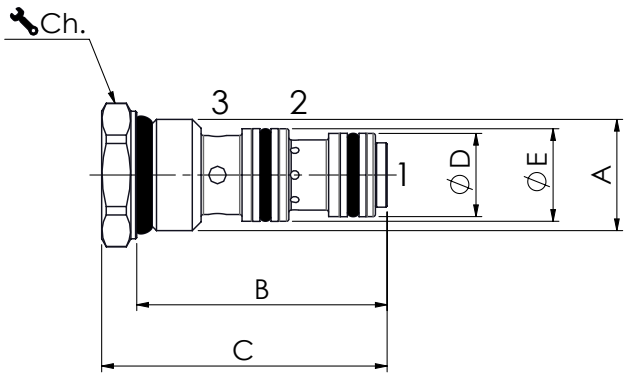
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

PERFORMANCES





mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	U	V	D	E	PESO APPROX APPROXWEIGHT kg-lbt	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	CAVITÀ CAVITY	Ch. Key
SV08	**3/4-16UNF**	**15** (4)	**350** (5075)	**41** (1.61)	**49** (1.93)	**14,2** (0.56)	**15,8** (0.62)	**0,07** (0.15)	**25-30** (19-22)	**SAE8/3**	**22**
SV10	**7/8 - 14UNF**	**30** (7.9)		**47** (1.85)	**55** (2.17)	**15,8** (0.62)	**17,4** (0.69)	**0,10** (0.22)	**41-47** (30-35)	**SAE10/3**	**27**

Aggiornamento - Update 20V-2020

notes

notes

BASI E BLOCCHI

HYDRAULIC MANIFOLDS

Basi CETOP in alluminio; singole CETOP 3 con porte laterali o posteriori; singole CETOP 5 o multiple con circuito in parallelo; con o senza valvola limitatrice di pressione.

Aluminium Cetop bases; single Cetop 3 with lateral or rear parts; single Cetop 5 on multiple stages with parallel circuit; with or without pressure relief valve.

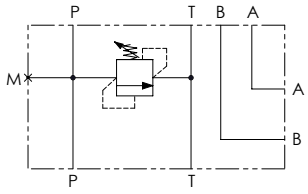
Oleoweb
HYDRAULIC VALVES AND COMPONENTS

CODICE ORDINAZIONE / ORDERING CODE

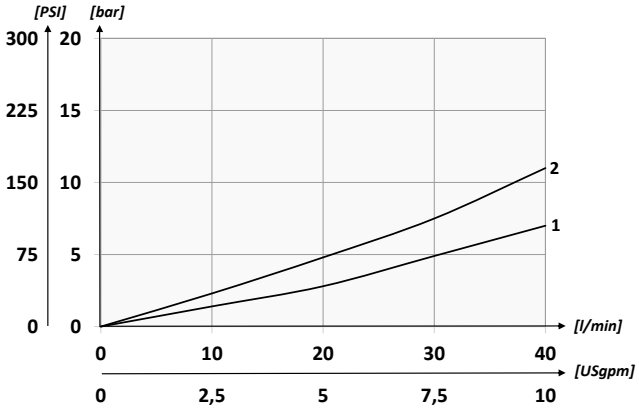
01	02	03
BS3		

01	BASI SINGOLE CETOP3 IN ALLUMINIO - ATTACCHI LATERALI (ALUMINIUM CETOP3 SINGLE MANIFOLDS - LATERAL PORTS)		**BS3**
02	REGOLAZIONE (SETTING)	Chiave (Hex socket screw)	**C**
		Volantino (Handknob) Tipo (Type) **81300109**	**V**
03	MOLLA (SPRING) **10/90 bar** (145/1305 PSI)	**12 bar/al giro** (174 PSI/turn)	**1**
	MOLLA (SPRING) **20/210 bar** (290/3045 PSI)	**30 bar/al giro** (435 PSI/turn)	**2**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES



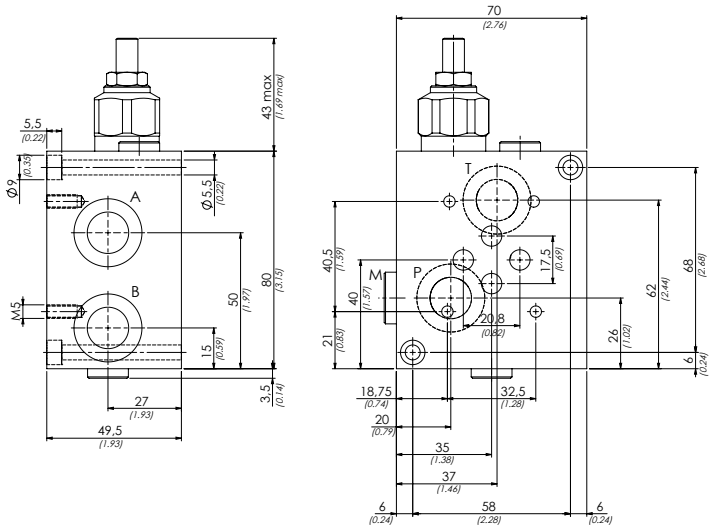
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt	TIPO DI VALVOLA TYPE OF VALVE
BS3	**40** (10.6)	**210** (3045)	**0,8** (1.76)	**VMD40S**



mm
(Inches)

ATTACCHI / PRESSURE DROPS

P-T-A-B	**BSPP 3/8**
M	**BSPP 1/4**

Il blocco in alluminio anodizzato nero può essere utilizzato per pressioni fino a 210 bar (3045 PSI)

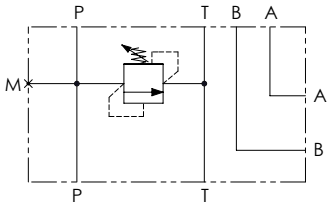
Aluminium manifold black anodized can be suitable for pressures up to 210 bar (3045 PSI)

CODICE ORDINAZIONE / ORDERING CODE

01	02	03
BP3		

01	BASI SINGOLE CETOP3 IN ALLUMINIO ATTACCHI POSTERIORI (ALUMINIUM CETOP3 SINGLE MANIFOLDS - REAR PORTS)		**BP3**
02	REGOLAZIONE (SETTING)	Chiave (Screw)	**C**
		Volantino (Handknob) Tipo (Type) **81300109**	**V**
03	MOLLA (SPRING) **10/90 bar** (145/1305 PSI)	**12 bar/al giro** (174 PSI/turn)	**1**
	MOLLA (SPRING) **20/210 bar** (290/3045 PSI)	**30 bar/al giro** (435 PSI/turn)	**2**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

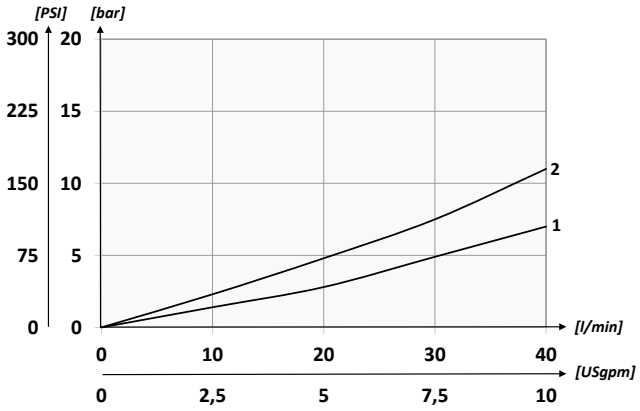
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)			
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)			
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**			
Temperatura dell'olio - Oil temperature	**-20°C**	**+80°C**	-4°F	+ 176°F
Temperatura ambiente - Environment temperature	**-20°C**	**+50°C**	-4°F	+ 122°F

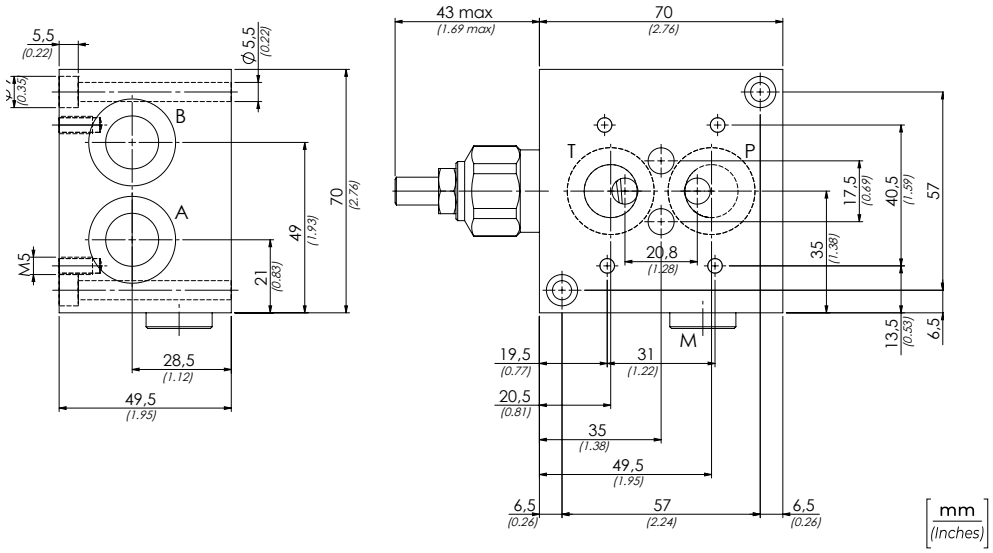
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt	TIPO DI VALVOLA TYPE OF VALVE
BP3	**40** (10.6)	**210** (3045)	**0,72** (1.58)	**VMD40S**

PERFORMANCES





mm (Inches)

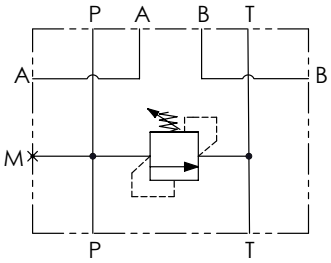
ATTACCHI - PRESSURE DROPS

P-T-A-B	**BSPP 3/8**
M	**BSPP 1/4**

Il blocco in alluminio anodizzato nero può essere utilizzato per pressioni fino a 210 bar (3045 PSI)

Aluminium manifold black anodized can be suitable for pressures up to 210 bar (3045 PSI)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

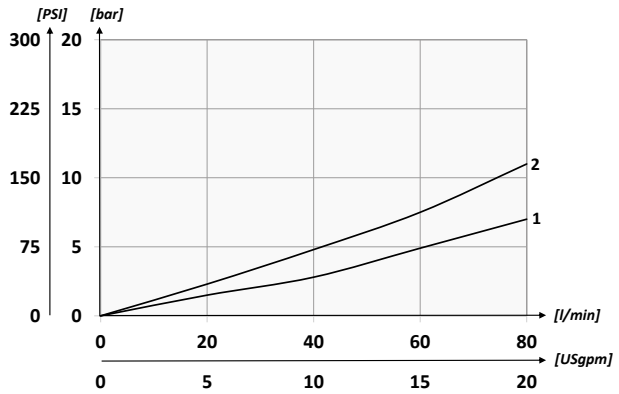


DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

PERFORMANCES



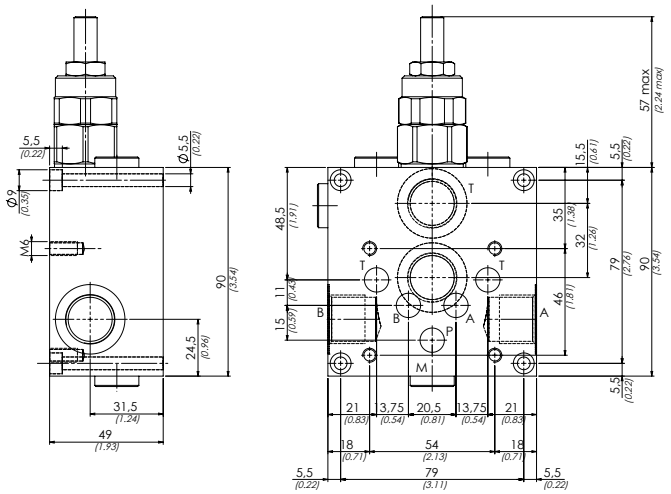
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt	TIPO DI VALVOLA TYPE OF VALVE
BS5	**80** (21.1)	**210** (3045)	**1,20** (2.64)	**VMD90**

CODICE ORDINAZIONE / ORDERING CODE

01	02	03
BS5		

01	BASI SINGOLE CETOP5 IN ALLUMINIO (ALUMINIUM CETOP5 SINGLE MANIFOLDS)		**BS5**
02	REGOLAZIONE (SETTING)	Chiave (Screw)	**C**
		Volantino (Handknob) Tipo (Type) **81300023**	**V**
03	MOLLA (SPRING) **10/100 bar** (145/1450 PSI)	**23 bar/al giro** (334 PSI/turn)	**1**
	MOLLA (SPRING) **20/210 bar** (290/3045 PSI)	**40 bar/al giro** (580 PSI/turn)	**2**



ATTACCHI / PRESSURE DROPS

P-T-A-B	**BSPP 1/2**
M	**BSPP 1/4**

Il blocco in alluminio anodizzato nero può essere utilizzato per pressioni fino a 210 bar (3045 PSI)

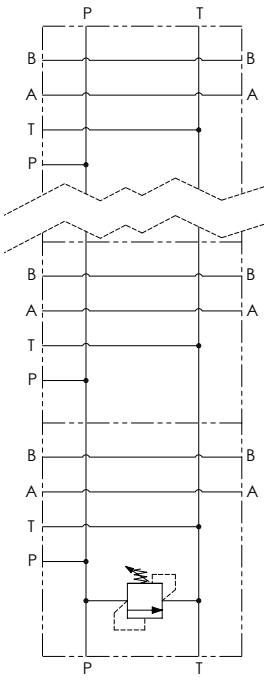
Aluminium manifold black anodized can be suitable for pressures up to 210 bar (3045 PSI)

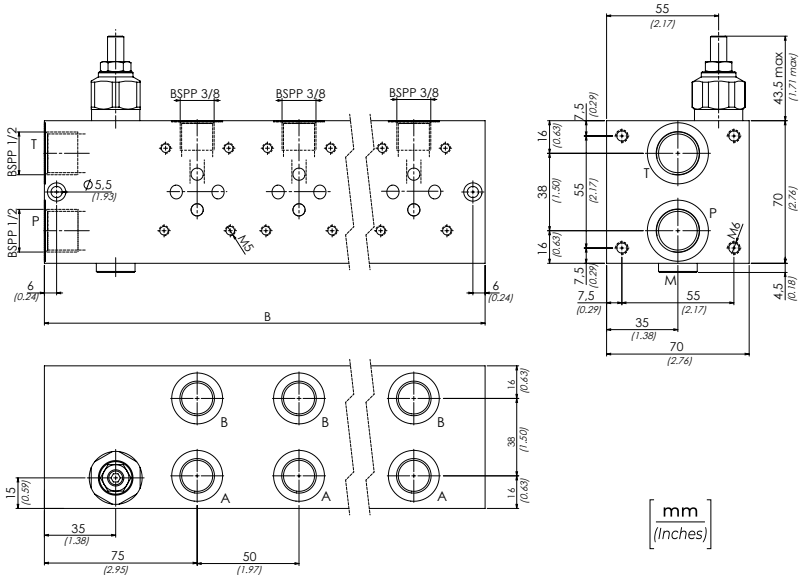
CODICE ORDINAZIONE
ORDERING CODE

01	02	03	04	05
BM		**A**		

01	BASI SI IN PARALLELO IN ALLUMINIO UTILIZZI LATERALI CON VALVOLA DI MASSIMA (ALUMINIUM PARALLEL MULTIPLE MANIFOLDS - LATERAL PORTS WITH RELIEF VALVES)		**BM**
02	NUMERO DI STAZIONI (NUMBER OF STATIONS)		**2** **3** **4** **5** **6** **7** **8**
03	ALLUMINIO (ALUMINIUM)		**A**
04	REGOLAZIONE (SETTING)	Chiave (Screw)	**C**
		Volantino (Handknob) Tipo (Type) **81300109**	**V**
05	MOLLA (SPRING) **10/90 bar** (145/1305 PSI)	**12 bar/al giro** (174 PSI/turn)	**1**
	MOLLA (SPRING) **20/210 bar** (290/3045 PSI)	**30 bar/al giro** (435 PSI/turn)	**2**

SCHEMA IDRAULICO
HYDRAULIC CIRCUIT





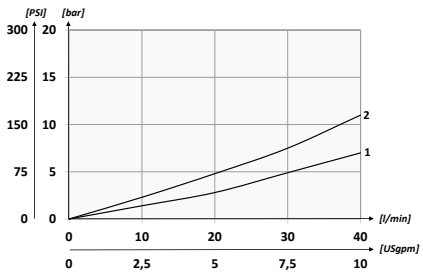
ATTACCHI
PRESSURE DROPS

P-T	**BSPP 1/2**
M	**BSPP 1/4**
A-B	**BSPP 3/8**

Il blocco in alluminio anodizzato nero può essere utilizzato per pressioni fino a 210 bar (3045 PSI)

Aluminium manifold black anodized can be suitable for pressures up to 210 bar (3045 PSI)

PERFORMANCES



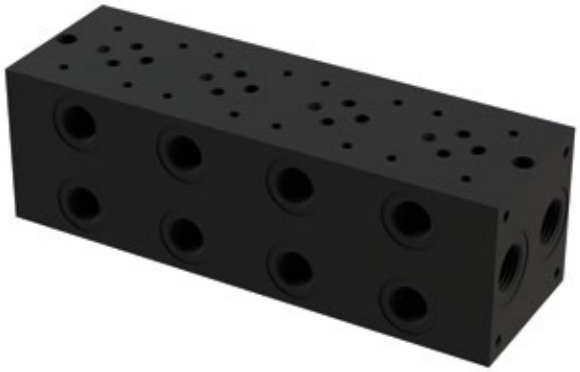
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	N. DI STAZIONI N. OF STATIONS	B	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	TIPO DI VALVOLA TYPE OF VALVE
BM2-RV	**2**	**160** (6.30)	**40** (10.6)	**210** (3045)	**2,1** (4.6)	**VMD40S**
BM3-RV	**3**	**210** (8.27)			**2,7** (6)	
BM4-RV	**4**	**260** (10.24)			**3,3** (7.3)	
BM5-RV	**5**	**310** (12.20)			**3,9** (8.6)	
BM6-RV	**6**	**360** (14.17)			**4,5** (10)	
BM7-RV	**7**	**410** (16.14)			**5,3** (11,7)	
BM8-RV	**8**	**460** (18.11)			**5,9** (13)	

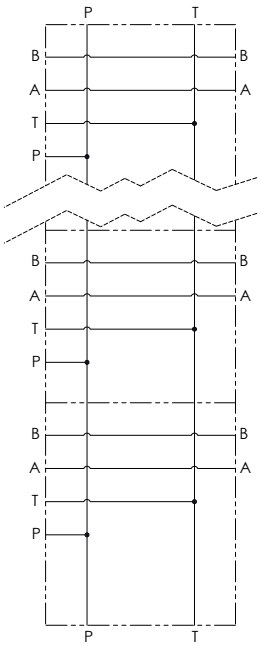


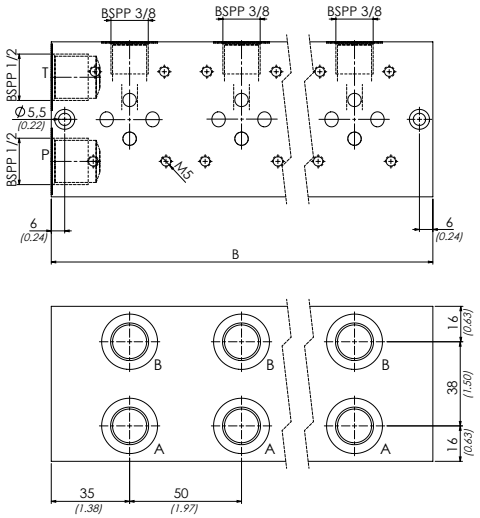
CODICE ORDINAZIONE / ORDERING CODE

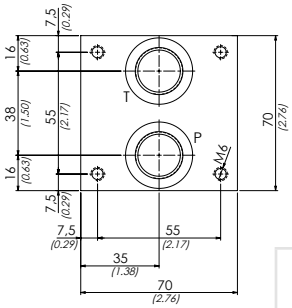
01	02	03
BM		**A**

01	BASI MULTIPLE IN PARALLELO IN ALLUMINIO UTILIZZI LATERALI SENZA VALVOLA DI MASSIMA (ALUMINIUM PARALLEL MULTIPLE MANIFOLDS - LATERAL PORTS WITHOUT RELIEF VALVES)	**BM**
02	NUMERO DI STAZIONI (NUMBER OF STATIONS)	**2**
		3
		4
		5
		6
		7
		8
03	ALLUMINIO (ALUMINIUM)	**A**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT







mm
(Inches)

ATTACCHI / PRESSURE DROPS

P-T	**BSPP 1/2**
M	**BSPP 1/4**
A-B	**BSPP 3/8**

Il blocco in alluminio anodizzato nero può essere utilizzato per pressioni fino a 210 bar (3045 PSI)

Aluminium manifold black anodized can be suitable for pressures up to 210 bar (3045 PSI)

DATI TECNICI / TECHNICAL DATA

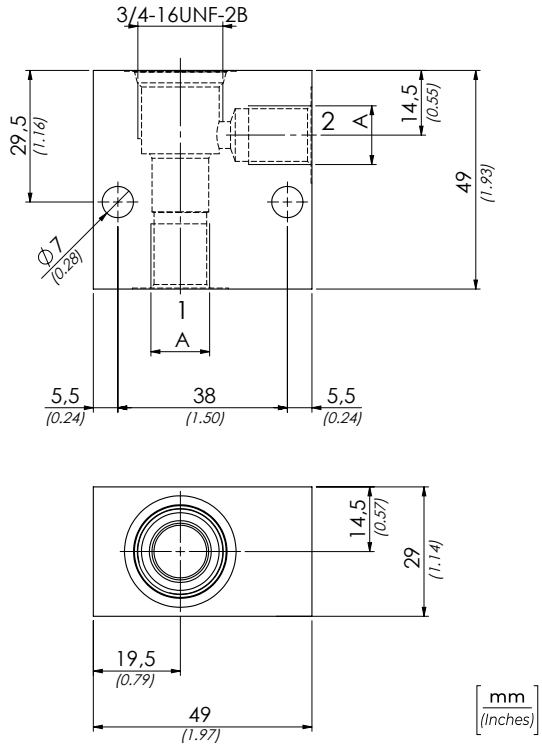
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

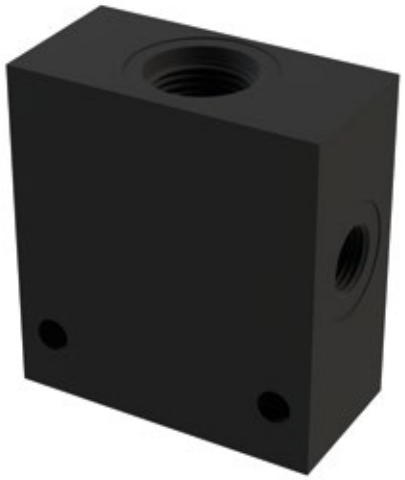
TIPO TYPE	N. DI STAZIONI N. OF STATIONS	B	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)
BM2	**2**	**120** (4.72)	**40** (10.6)	**210** (3045)	**1,5** (3.30)
BM3	**3**	**170** (6.69)			**2,1** (4.62)
BM4	**4**	**220** (8.66)			**2,7** (5.95)
BM5	**5**	**270** (10.63)			**3,3** (7.27)
BM6	**6**	**320** (12.60)			**3,9** (8.59)
BM7	**7**	**370** (14.57)			**4,6** (10.12)
BM8	**8**	**320** (18.53)			**5,2** (11.44)

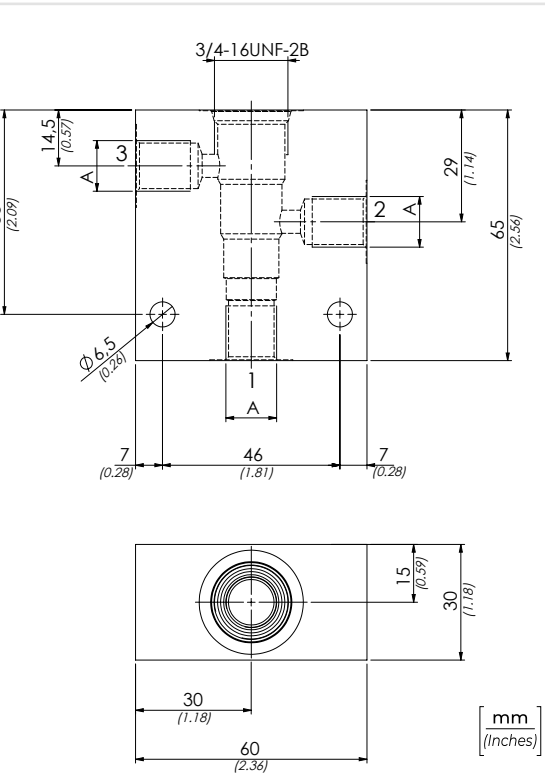
SAE8/2



CODICE CODE	MATERIALE MATERIAL	TRATTAMENTO SUPERFICIALE SURFACE TREATMENT	A	PRESSIONE MAX MAX PRESSURE bar - PSI	PESO APPROX APPROX WEIGHT kg-lbt
62200032	**Acciaio** Steel	**Zincatura** Zinc-plating	**BSPP 1/4**	**350** (5075)	**0,44** (0.97)
62200051			**BSPP 3/8**		**0,43** (0.95)

SAE8/3

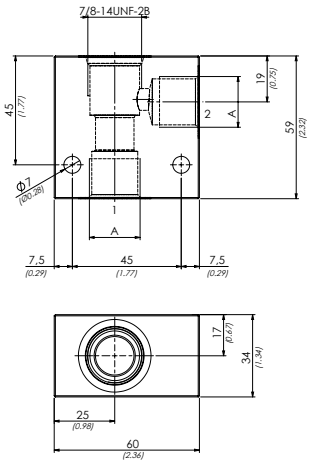




CODICE CODE	MATERIALE MATERIAL	TRATTAMENTO SUPERFICIALE SURFACE TREATMENT	A	PRESSIONE MAX MAX PRESSURE bar - PSI	PESO APPROX APPROX WEIGHT kg-lbt
62200357	**Alluminio** Aluminium	**Anodizzazione nera** Black anodizing	**BSPP 1/4**	**210** (3045)	**0,28** (0.62)
62200358			**BSPP 3/8**		**0,27** (0.60)

SAE10/2

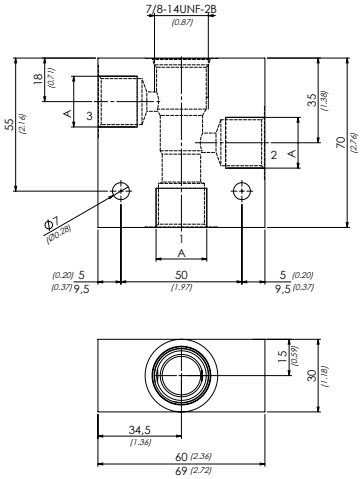
CODICE CODE	MATERIALE MATERIAL	TRATTAMENTO SUPERFICIALE SURFACE TREATMENT	A	PRESSIONE MAX MAX PRESSURE bar - PSI	PESO APPROX APPROX WEIGHT kg-lbt
62200451	Acciaio Steel	Zincatura Zinc-plating	BSPP 3/8	350 (5075)	0,77 (170)
62200452			BSPP 1/2		0,73 (1.61)



mm (Inches)

SAE10/3

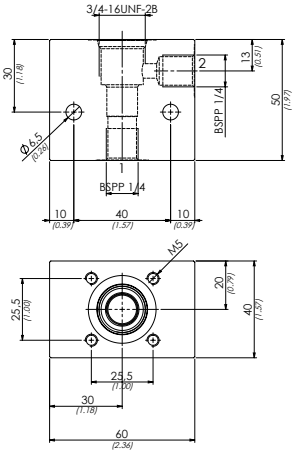
CODICE CODE	MATERIALE MATERIAL	TRATTAMENTO SUPERFICIALE SURFACE TREATMENT	A	PRESSIONE MAX MAX PRESSURE bar - PSI	PESO APPROX APPROX WEIGHT kg-lbt
62200373	Alluminio Aluminium	Anodizzazione nera Black anodizing	BSPP 3/8	210 (3045)	0,26 (0.57)
62200374			BSPP 1/2		0,31 (068?)



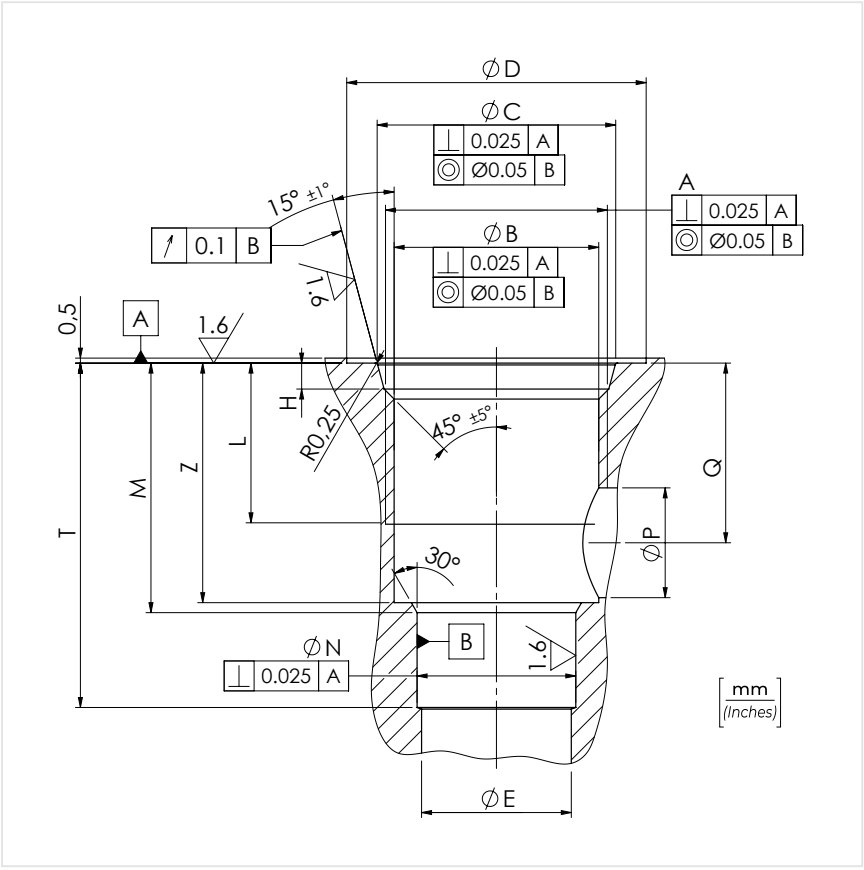
mm (Inches)

PME5/6/7

CODICE CODE	MATERIALE MATERIAL	TRATTAMENTO SUPERFICIALE SURFACE TREATMENT	PRESSIONE MAX MAX PRESSURE bar - PSI	PESO APPROX APPROX WEIGHT kg-lbt
62200023	Alluminio Aluminium	Anodizzazione nera Black anodizing	210 (3045)	0,3 (0.66)

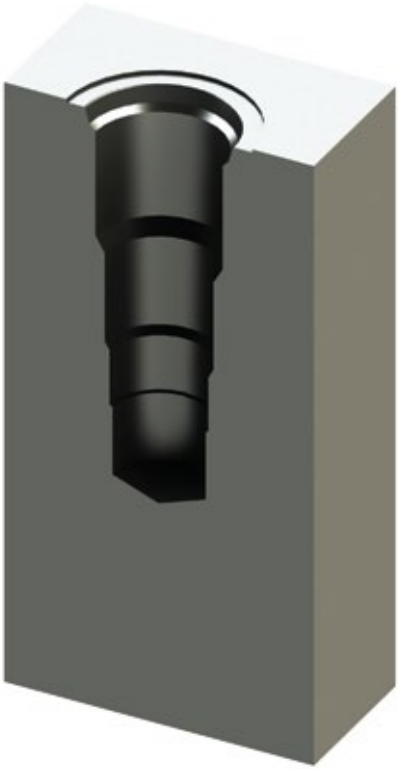


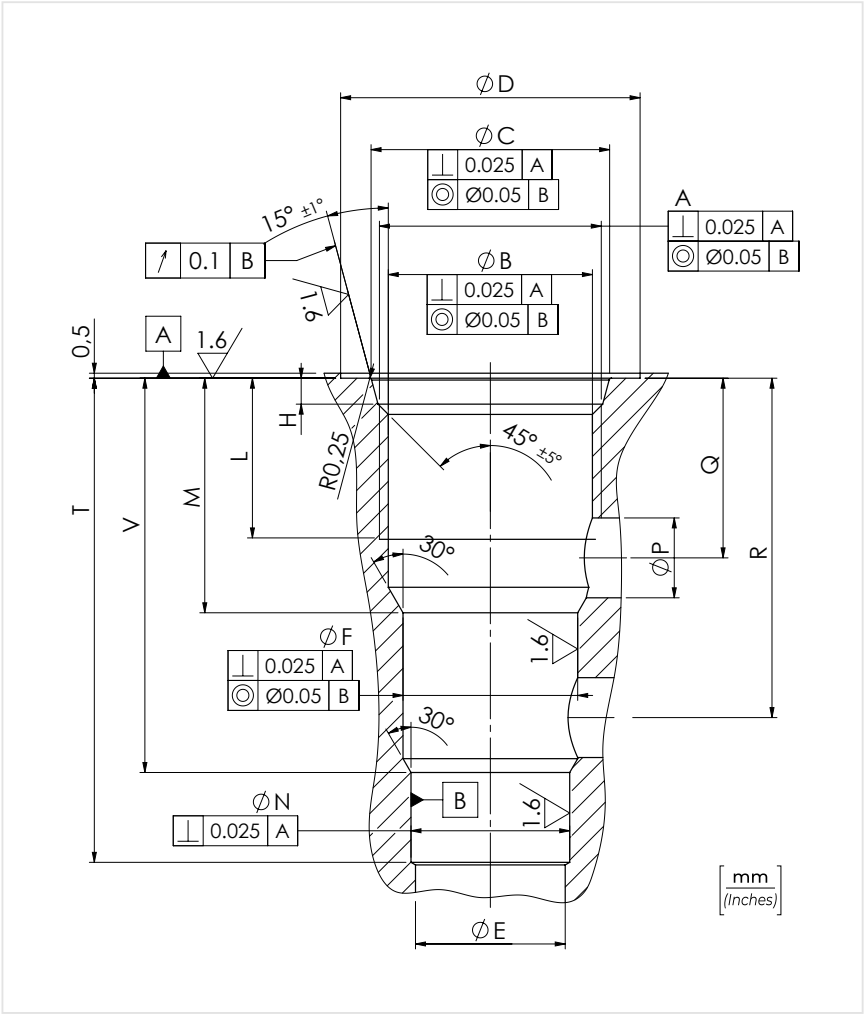
mm (Inches)



DIMENSIONI / DIMENSIONS

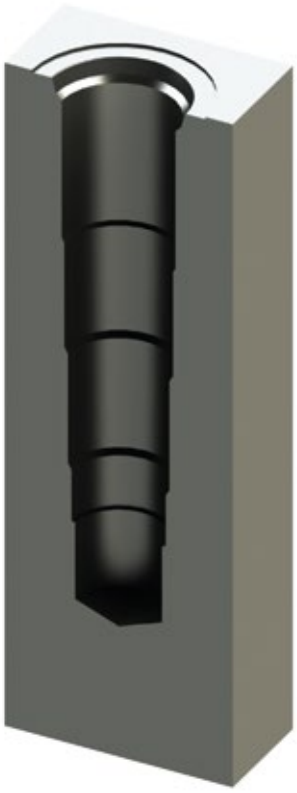
TIPO TYPE	A	B 0 + 0,1	C 0 + 0,1	D 0 + 0,5	E Ø max	H 0 + 0,3	L	M 0 - 0,2	N 0 + 0,05	P	Q	T 0 + 0,5	Z 0 + 0,1
SAE08/2	3/4-16UNF-2B	17,4 0.69	20,6 0.81	27 1.06	12 0.47	2,6 0.10	13 0.51	20,50 0.81	12,7 0.5	9 0.35	14 0.55	19,5 0.77	18,5 0.73
SAE10/2	7/8-14UNF-2B	20,5 0.81	23,9 0.94	30 1.18	15 0.59	2,6 0.10	16 0.63	25,5 1.00	15,9 0.63	11 0.43	18 0.71	34,5 1.36	24 0.94
SAE12/2	1-1/16-12UNF-2B	24,9 0.98	29,2 1.15	38 1.50	19 0.75	3,3 0.13	20 0.79	36,5 1.44	22,2 0.87	14 0.55	26 1.02	48 1.89	35,5 1.40
SAE16/2	1-5/16-12UNF-2B	31,3 1.23	35,5 1.40	45 1.77	24 0.94	3,3 0.13	20 0.79	36 1.42	28,6 1.13	14 0.55	25 0.98	49 1.93	35 1.38

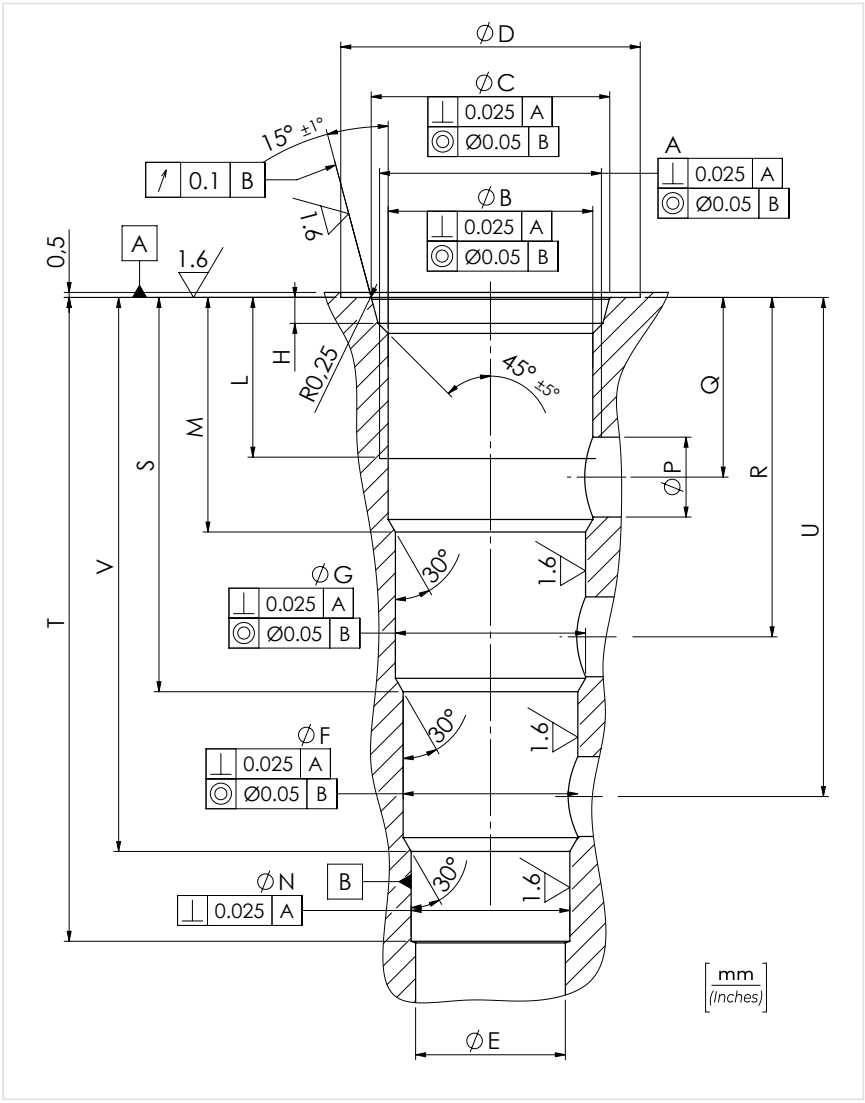




DIMENSIONI / DIMENSIONS

TIPO TYPE	A	B 0 + 0,1	C 0 + 0,1	D 0 + 0,5	E Ø max	F 0 + 0,05	H 0 + 0,3	L	M 0 - 0,2	N 0 + 0,05	P	Q	R	T 0 + 0,5	V ± 0,1
SAE08/3	3/4-16UNF-2B	17,4 0.69	20,6 0.81	27 1.06	12 0.47	15,9 0.63	2,6 0.10	13 0.51	19,5 0.77	14,3 0.56	6 0.24	15 0.59	29 1.14	43 1.69	33,5 1.32
SAE10/3	7/8-14UNF-2B	20,5 0.81	23,9 0.94	30 1.18	15 0.59	17,5 0.69	2,6 0.10	16 0.63	23,5 0.93	15,9 0.63	8 0.31	18 0.71	34 1.34	48,5 1.91	39,5 1.56
SAE12/3	1-1/16-12UNF-2B	24,9 0.98	29,2 1.15	38 1.50	19 0.75	23,8 0.94	3,3 0.13	20 0.79	36,5 1.44	22,2 0.87	14 0.55	28 1.10	53 2.09	73 2.87	61,5 2.42
SAE16/3	1-5/16-12UNF-2B	31,3 1.23	35,5 1.40	45 1.77	24 0.94	28,6 1.13	3,3 0.13	20 0.79	35,5 1.40	27 1.06	14 0.55	25,5 1,00	54 2.13	75 2.95	64 2.52

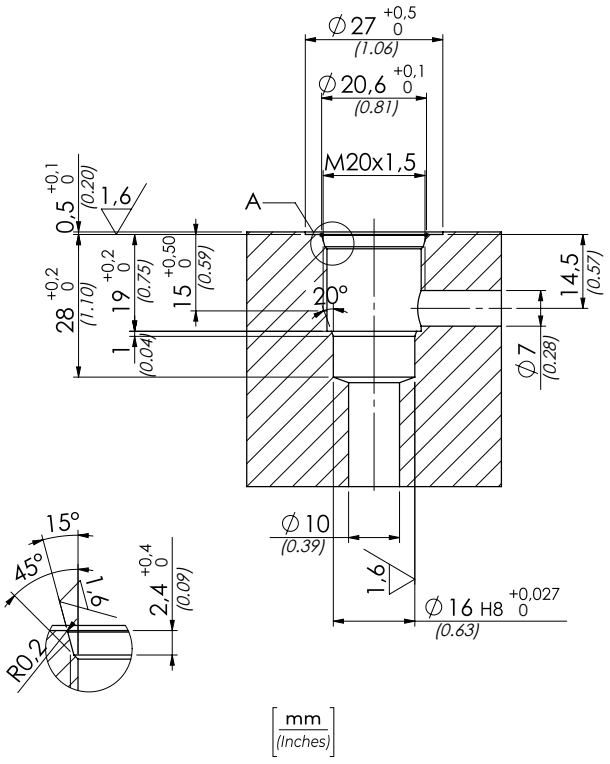




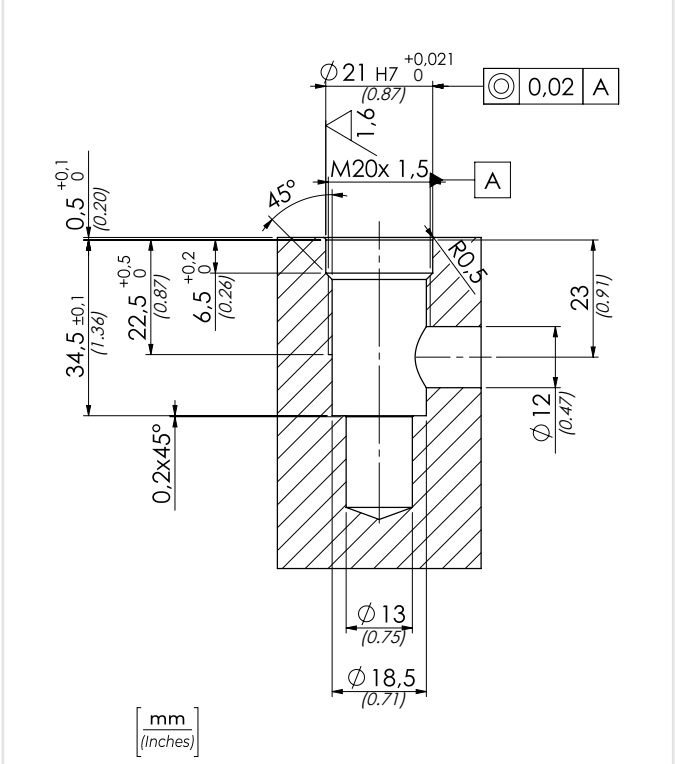
DIMENSIONI / DIMENSIONS

TIPO TYPE	A	B 0 + 0,1	C 0 + 0,1	D 0 + 0,5	E	F 0 + 0,05	G 0 + 0,05	H 0 + 0,3	L	M 0 - 0,2	N 0 + 0,05	P	Q	R	S ± 0,1	T 0 + 0,5	U	V ± 0,1
SAE08/4	3/4-16UNF-2B	17,4 0.69	20,6 0.81	27 1.06	12 0.47	14,3 0.56	15,9 0.63	2,6 0.10	13 0.51	19,5 0.77	12,7 0.50	6 0.24	15 0.59	29 1.14	33,5 1.32	56 2.20	43 1.69	47,5 1.87
SAE10/4	7/8-14UNF-2B	20,5 0.81	23,9 0.94	30 1.18	15 0.59	17,5 0.69	19,05 0.75	2,6 0.10	16 0.63	23,5 0.93	15,9 0.63	8 0.31	18 0.71	34 1.34	39,5 1.56	64,5 2.54	50 1.97	55,5 2.19
SAE12/4	1-1/16-12UNF-2B	24,9 0.98	29,2 1.15	38 1.50	19 0.75	22,2 0.87	23,8 0.94	3,3 0.13	20 0.79	36,5 1.44	20,6 0.81	14 0.55	28 1.1	53 2.09	61,5 2.42	99 3.90	78 3.07	87,5 3.44
SAE16/4	1-5/16-12UNF-2B	31,3 1.23	35,5 1.40	45 1.77	24 0.94	27 1.06	28,6 1.13	3,3 0.13	20 0.79	35,5 1.40	25,4 1.00	16 0.63	25 0.98	53,5 2.11	64 2.52	92,5 3.64	82 3.23	92,5 3.64

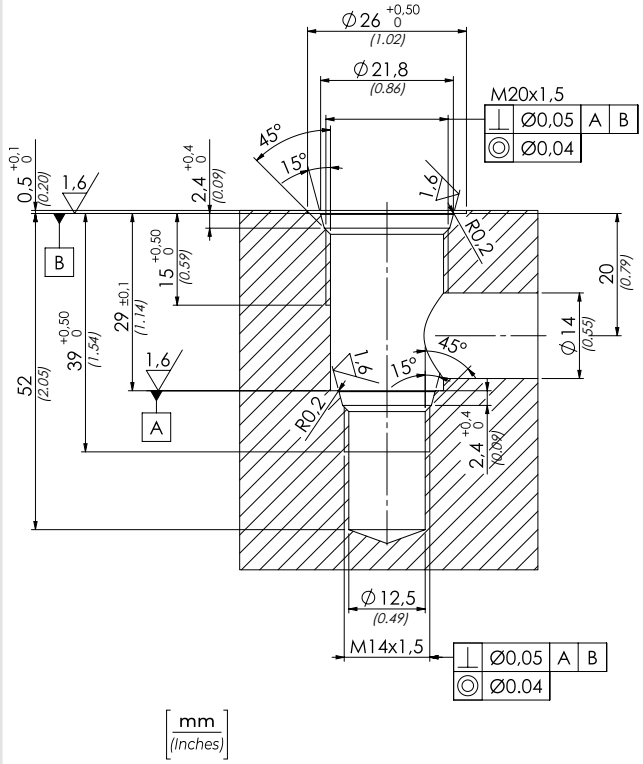
C2015/2



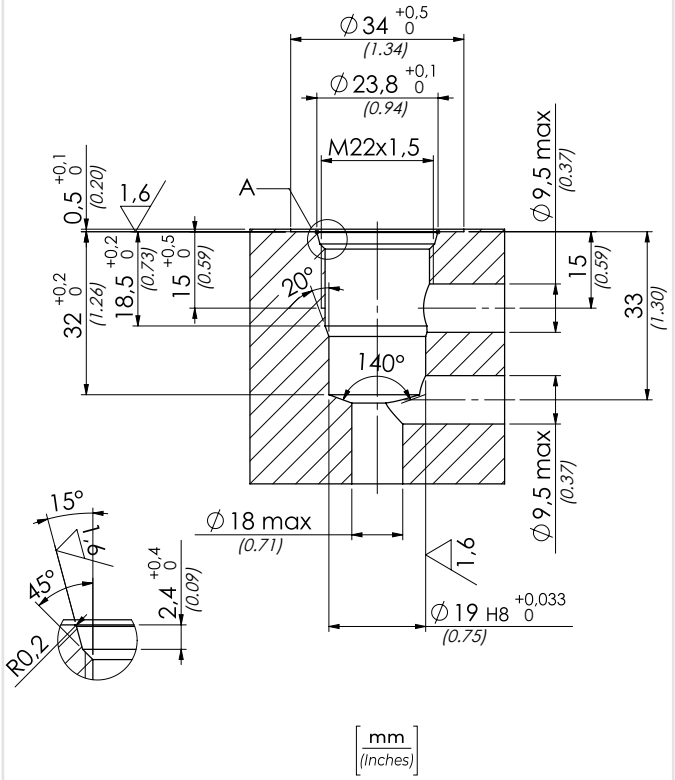
C2015/30



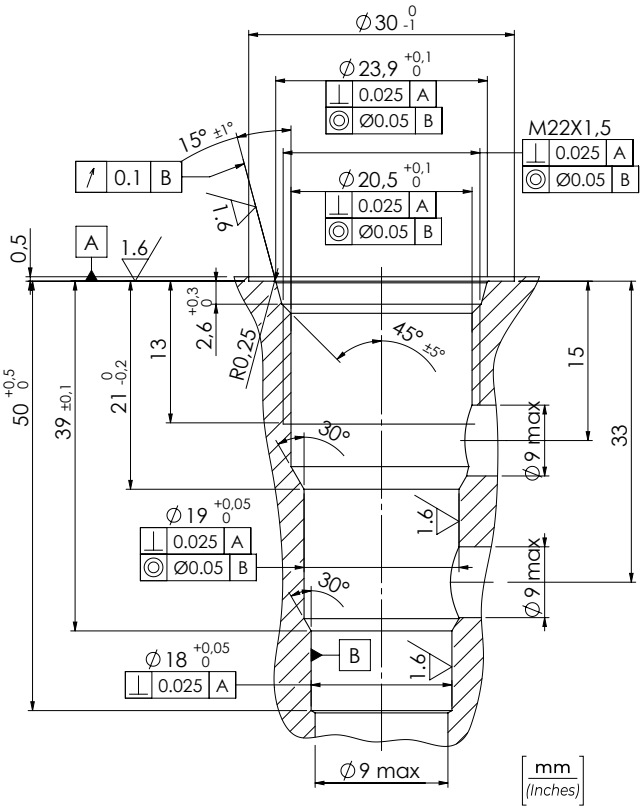
C2015/1415/2



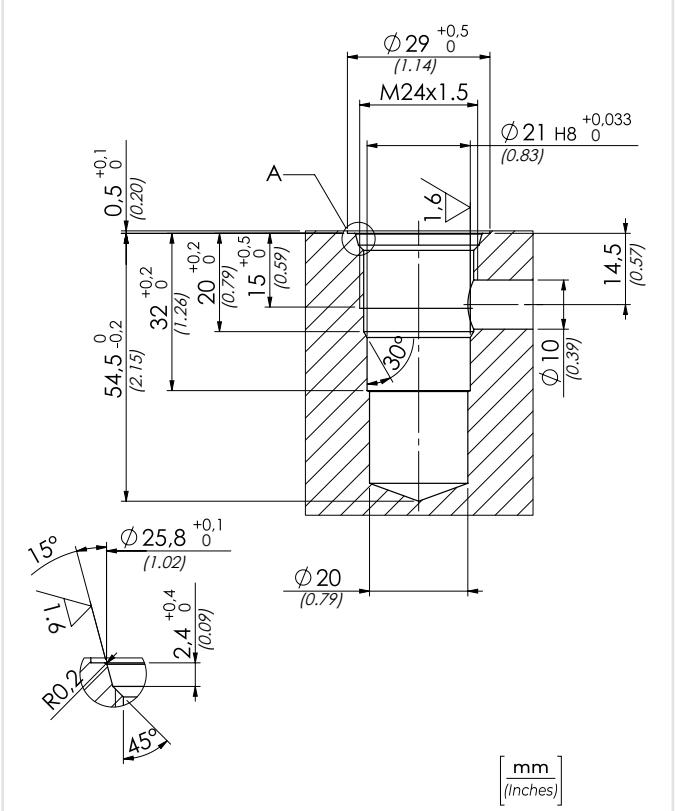
C2215/2



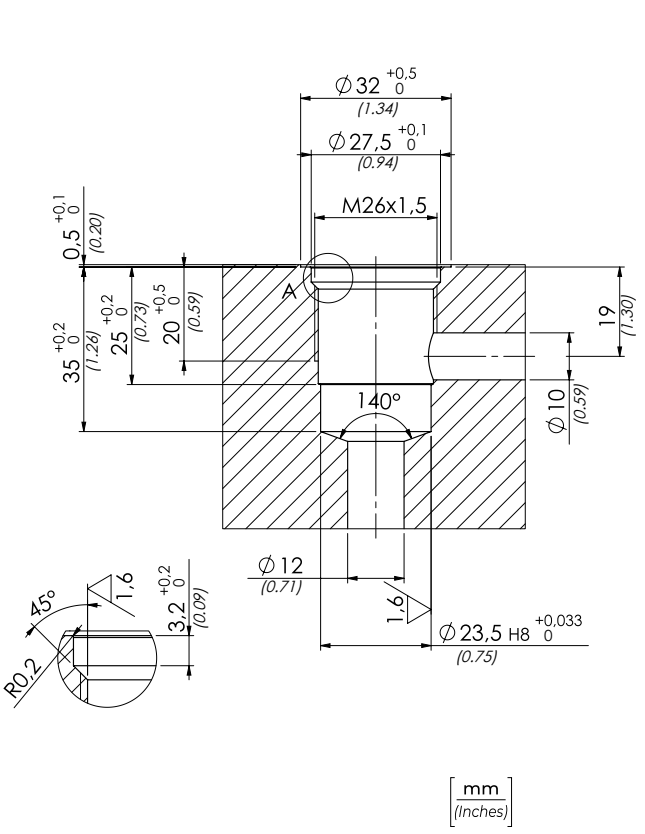
C2215/3



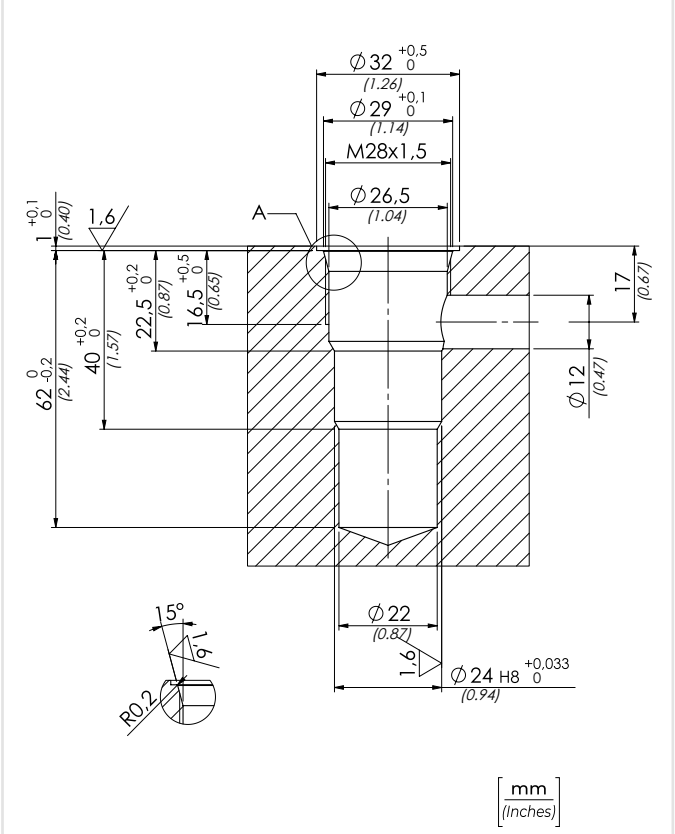
C2415/2



C2615/2



C2815/2



notes

POMPE E DEVIATORI

HAND PUMPS AND FLOW DIVERTERS

Pompe oleodinamiche a mano in diversi layout e cilindrate, serbatoi in acciaio e alluminio, deviatori di flusso a 3 vie, a 4 vie, a 6 vie e a 8 vie.

Hand pump with many layout and displacement, aluminium or steel tanks, flow diverters 3, 4, 6 and 8 ways.

Oleoweb
HYDRAULIC VALVES AND COMPONENTS

LA POMPA VIENE FORNITA CON LEVA DI AZIONAMENTO L=600 mm

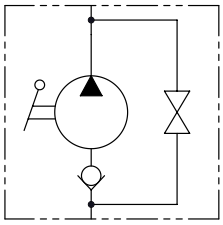
THE PUMP IS SUPPLIED WITH ACTING LEVER 23,6 inch LONG

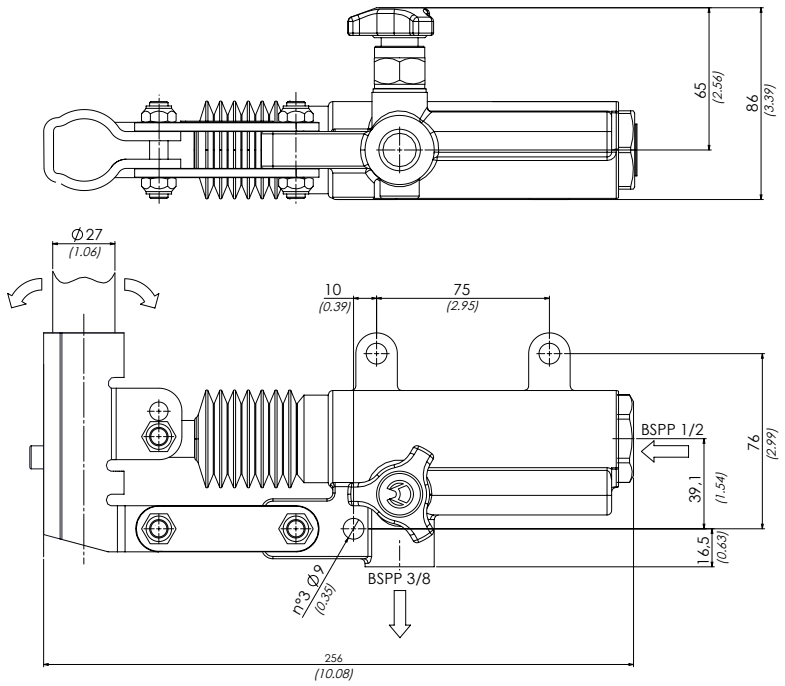
CODICE ORDINAZIONE / ORDERING CODE

01	02
PM20	

01	POMPA A MANO SEMPLICE EFFETTO (DOUBLE PUMPING HAND PUMP FOR SINGLE ACTING CYLINDER)		**PM20**
02	OPTIONAL	Con soffietto (With rubber protection)	**P**
		Senza rubinetto di scarico con valvola di massima (Without unloading valve With relief valves)	**WRV**
		Senza rubinetto di scarico (Without unloading valve)	**W**
		Con joistick (With joistick)	**J**
		Con leva di scarico Ø 27 mm (With unloading lever Ø 1.06 inch)	**L**
		Con rubinetto di scarico e valvola di massima (With drain valve and relief valve)	**RRV**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





mm / (Inches)

DATI TECNICI / TECHNICAL DATA

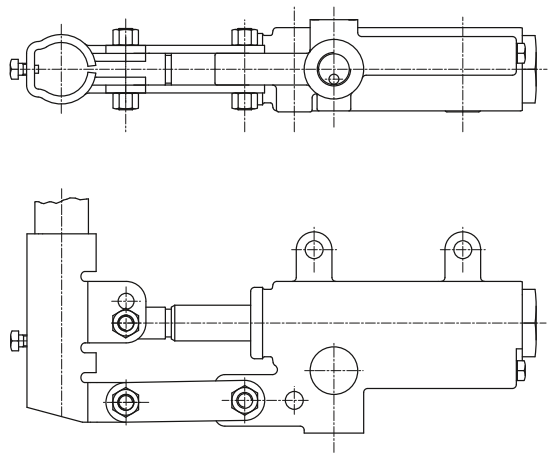
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

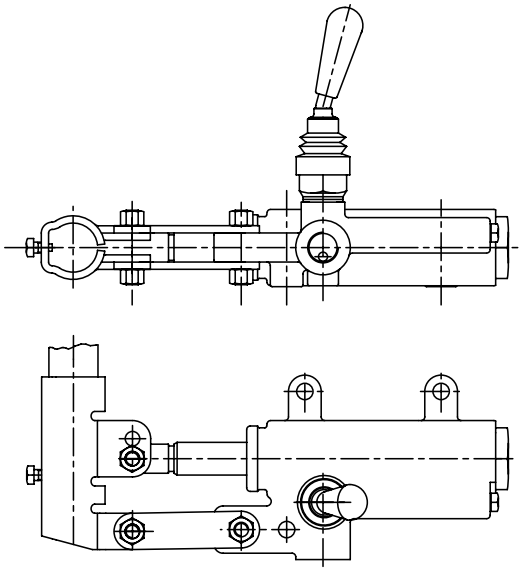
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	CILINDRATA (cm³) DISPLACEMENT (in³)	PRESSIONE OTTIMALE OPTIMAL PRESSURE bar-PSI	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
PM20	**20** (1.22)	**150** (2175)	**350** (5075)	**3,4** (7.5)

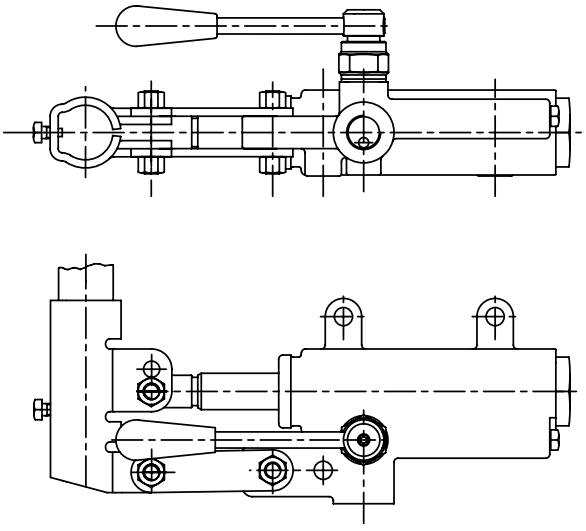
W



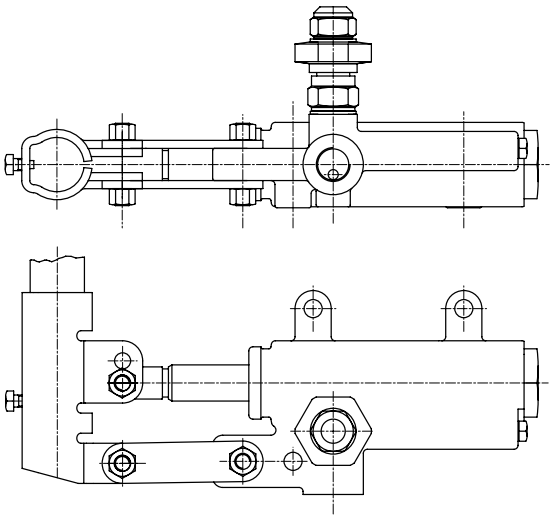
J



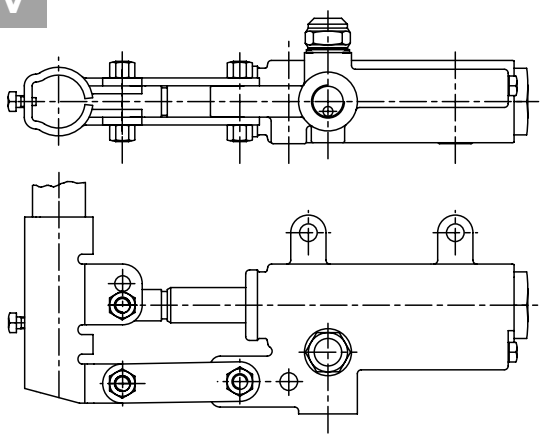
L



RRV



WRV

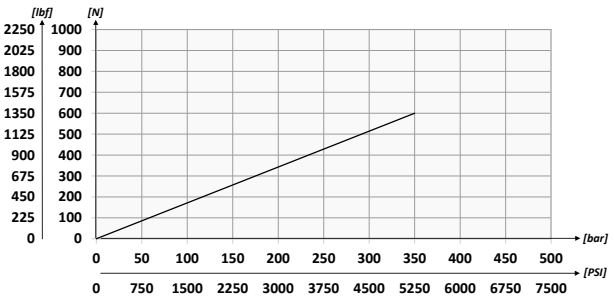


Valvola di massima
Relief valve

Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1500 PSI

SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER



LA POMPA VIENE FORNITA CON LEVA DI AZIONAMENTO L=600 mm

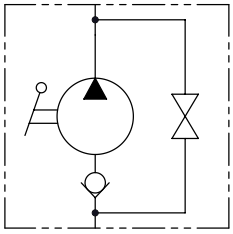
THE PUMP IS SUPPLIED WITH ACTING LEVER 23,6 inch LONG

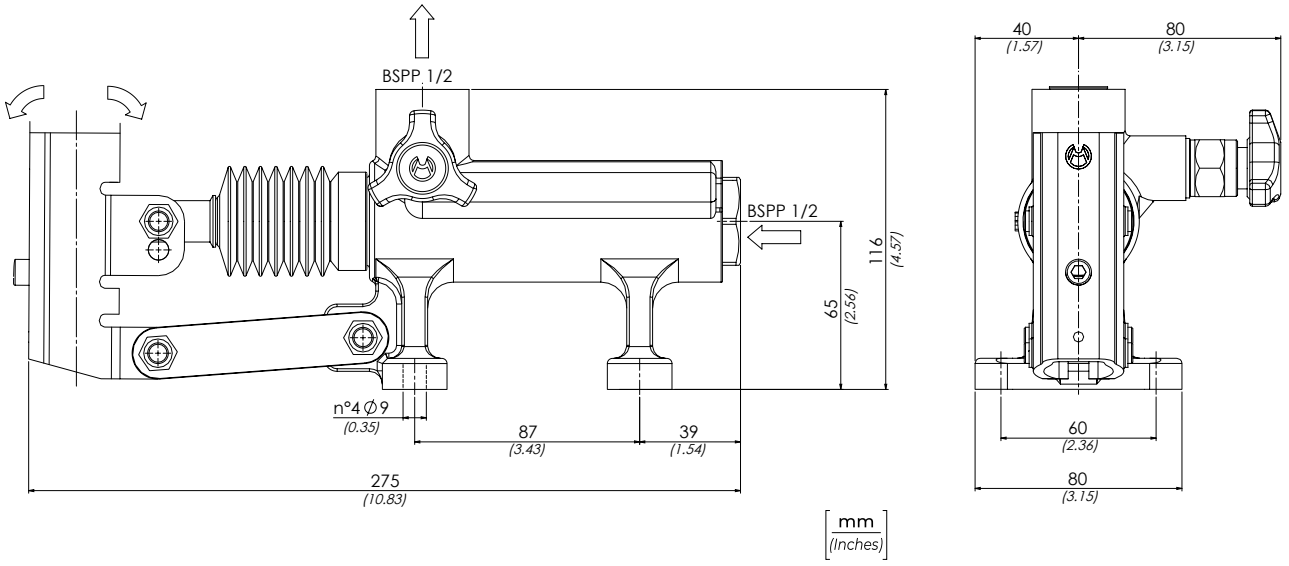
CODICE ORDINAZIONE / ORDERING CODE

01	02
PM50	

01	POMPA A MANO DOPPIO POMPAGGIO PER CILINDRO A SEMPLICE EFFETTO (DOUBLE PUMPING FOR SINGLE ACTING CYLINDER)		**PM50**
02	OPTIONAL	Con soffietto (With rubber protection)	**P**
		Senza rubinetto di scarico con valvola di massima (Without unloading valve With relief valves)	**WRV**
		Senza rubinetto di scarico (Without unloading valve)	**W**
		Con joistick (With joistick)	**J**
		Con leva di scarico Ø 27 mm (With unloading lever Ø 1.06 inch)	**L**
		Con rubinetto di scarico e valvola di massima (With unloading and relief valves)	**RRV**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





DATI TECNICI / TECHNICAL DATA

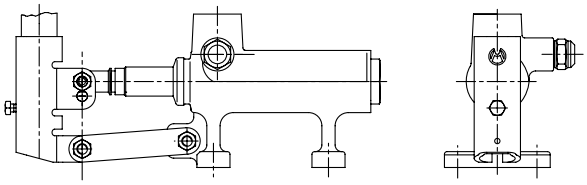
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	CILINDRATA (cm³) DISPLACEMENT (in³)	PRESSIONE OTTIMALE OPTIMAL PRESSURE bar-PSI	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
PM50	**50** (3.05)	**80** (1160)	**280** (4060)	**4,2** (9.25)

WRV

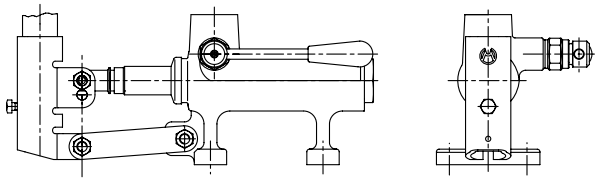


Valvola di massima
Relief valve

Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

L



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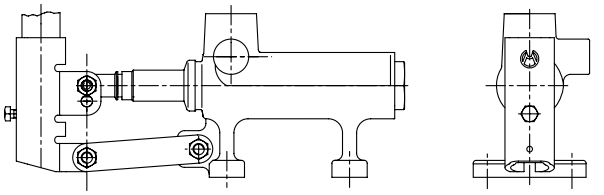
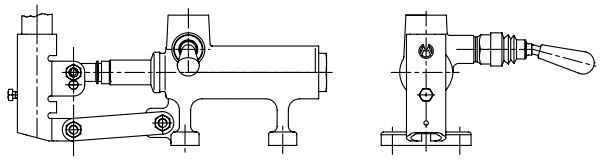
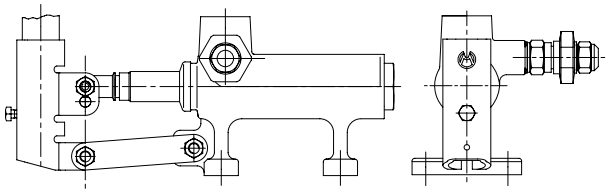


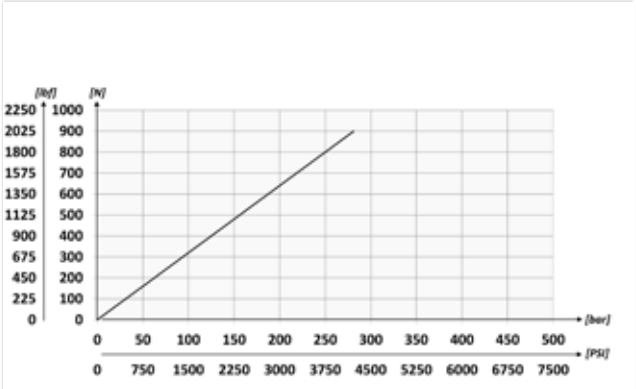
J



RRV



SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER



LA POMPA VIENE FORNITA CON LEVA DI AZIONAMENTO L=600 mm

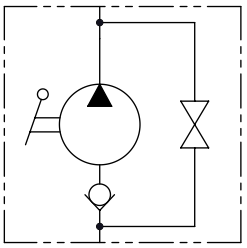
THE PUMP IS SUPPLIED WITH ACTING LEVER 23,6 inch LONG

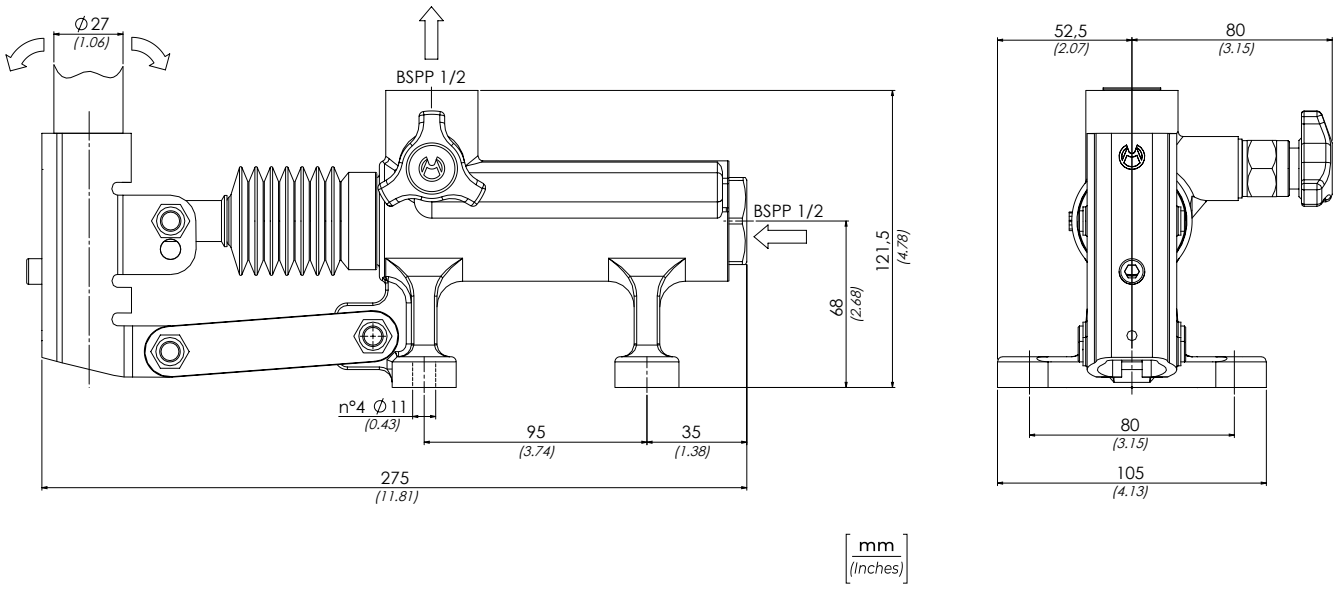
CODICE ORDINAZIONE / ORDERING CODE

01	02
PM70	

01	POMPA A MANO DOPPIO POMPAGGIO PER CILINDRO A SEMPLICE EFFETTO (DOUBLE PUMPING HAND PUMPFOR SINGLE ACTING CYLINDER)		**PM70**
02	OPTIONAL	Con soffietto (With rubber protection)	**P**
		Senza rubinetto di scarico con valvola di massima (Without unloading valve With relief valves)	**WRV**
		Senza rubinetto di scarico (Without unloading valve)	**W**
		Con joistick (With joistick)	**J**
		Con leva di scarico Ø 27 mm (With unloading lever Ø 1.06 inch)	**L**
		Con rubinetto di scarico e valvola di massima (With unloading and relief valves)	**RRV**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





DATI TECNICI / TECHNICAL DATA

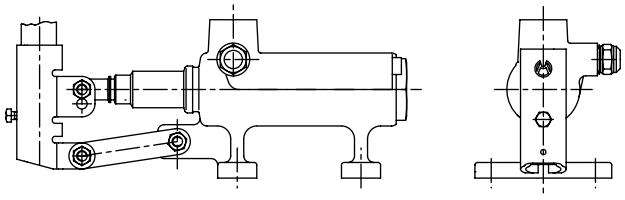
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	CILINDRATA (cm³) DISPLACEMENT (in³)	PRESSIONE OTTIMALE OPTIMAL PRESSURE bar-PSI	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
PM70	**70** (4.27)	**50** (725)	**200** (2900)	**5,6** (12.34)

WRV

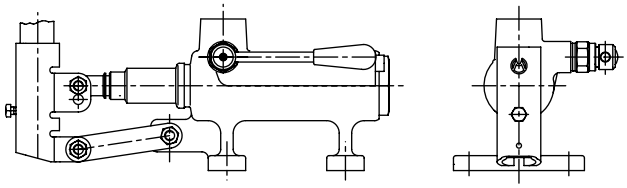


Valvola di massima
Relief valve

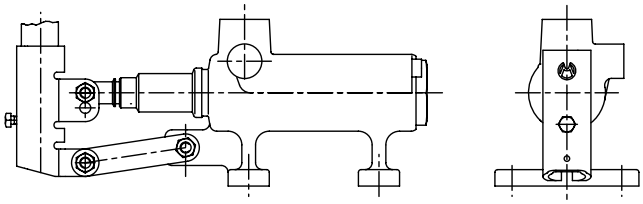
Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

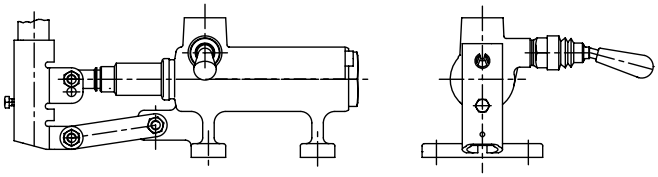
L



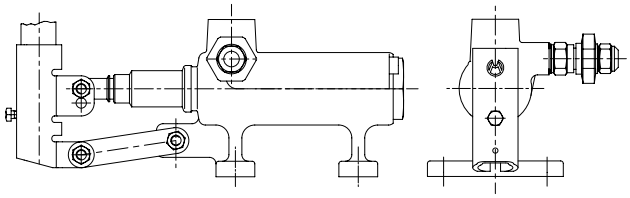
W



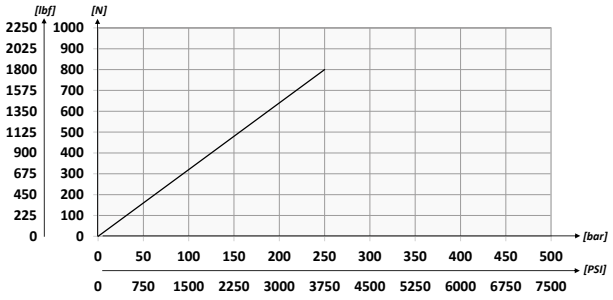
J



RRV



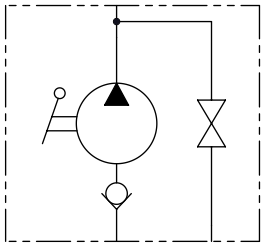
SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER

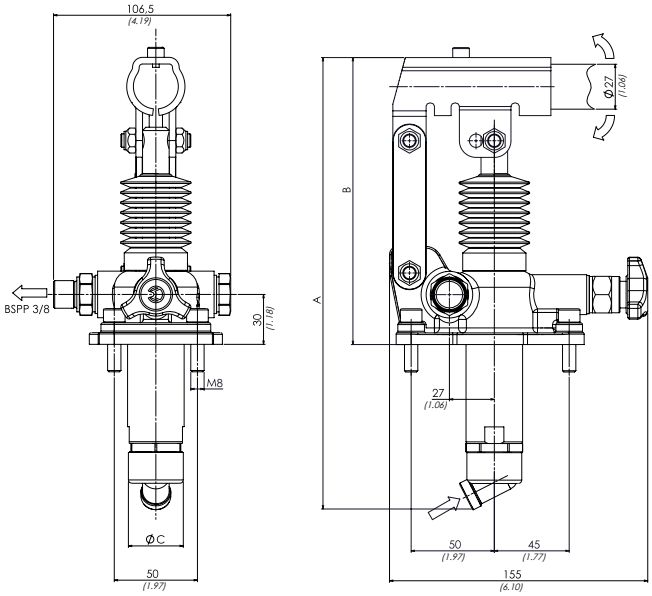


LA POMPA VIENE FORNITA CON GUARNIZIONE SAGOMATA + VITI DI FISSAGGIO + LEVA DI AZIONAMENTO L=600 mm

THE PUMP IS SUPPLIED WITH SHAPED SEAL, FIXING SCREWS AND ACTING LEVER 23.6 inch LONG

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





mm
(Inches)

CODICE ORDINAZIONE / ORDERING CODE

01	02	03
PMS		

01	POMPA A MANO DOPPIO POMPAGGIO PER CILINDRO A SEMPLICE EFFETTO (DOUBLE PUMPING HAND PUMP FOR SINGLE ACTING CYLINDER)				**PMS**
02	CILINDRATA (DISPLACEMENT)	A	B	C	
	6 cm³ (0.37 in³)	**253** (9.96)	**166** (6.54)	**34** (1.34)	**6**
	12 cm³ (0.73 in³)	**253** (9.96)	**166** (6.54)	**34** (1.34)	**12**
	25 cm³ (1.53 in3)	**273** (10.75)	**172** (6.77)	**34** (1.34)	**25**
	45 cm³ (2.75 in3)	**283** (11.14)	**172** (6.77)	**40** (1.57)	**45**
03	OPTIONAL	Con soffietto (With rubber protection)			**P**
		Senza rubinetto di scarico con valvola di massima (Without unloading valve With relief valves)			**WRV**
		Senza rubinetto di scarico (Without unloading valve)			**W**
		Con joistick (With joistick)			**J**
		Con leva di scarico Ø 27 mm (With unloading lever Ø 1.06 inch)			**L**
		Con valvola di massima pressione (With relief valves)			**RV**
		Con joistick e valvola di massima pressione (With joistick and relief valve)			**JRV**
		Con leva di scarico e valvola di massima pressione (With unloading lever and relief valvess)			**LRV**

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

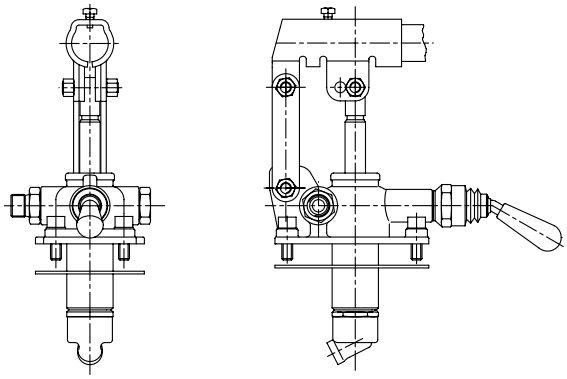
TIPO TYPE	PRESSIONE OTTIMALE OPTIMAL PRESSURE bar-PSI	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
PMS6	**420** (6090)	**500** (7250)	**3,7** (8.15)
PMS12	**220** (3190)	**380** (5510)	
PMS25	**120** (1740)	**350** (5075)	
PMS45	**80** (1160)	**280** (4060)	

DATI TECNICI / TECHNICAL DATA

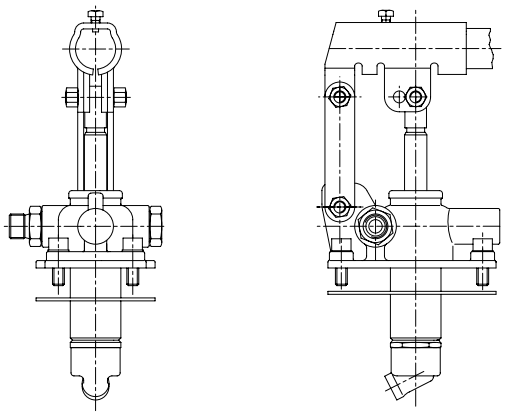
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

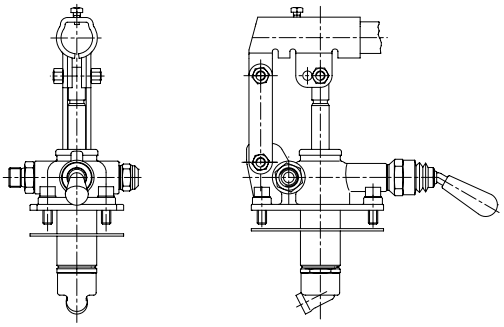
J



W

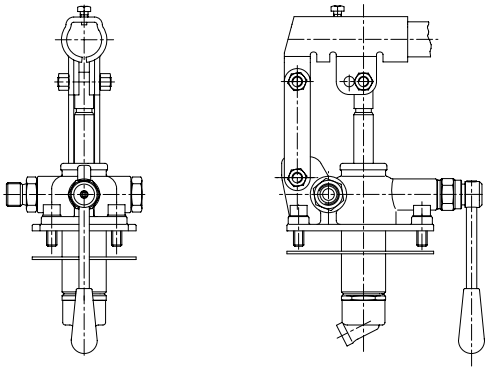


JRV

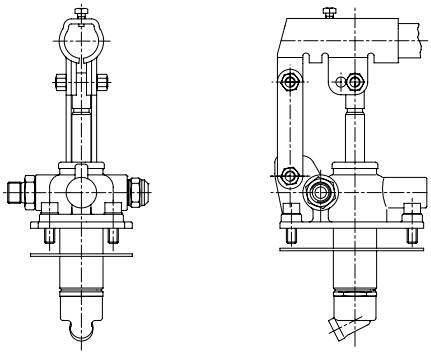


Valvola di massima	Molla 40/350 bar	Taratura Standard 100 bar
Relief valve	Spring 580/5075 PSI	Standard Setting 1450 PSI

L

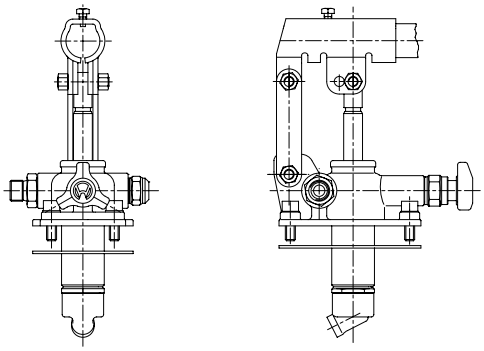


WRV



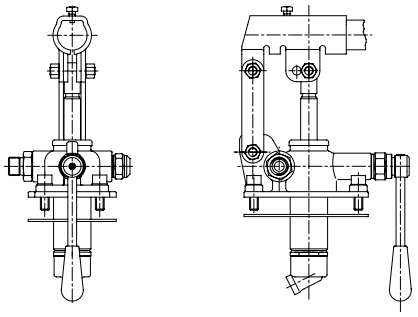
Valvola di massima	Molla 40/350 bar	Taratura Standard 100 bar
Relief valve	Spring 580/5075 PSI	Standard Setting 1450 PSI

RV



Valvola di massima	Molla 40/350 bar	Taratura Standard 100 bar
Relief valve	Spring 580/5075 PSI	Standard Setting 1450 PSI

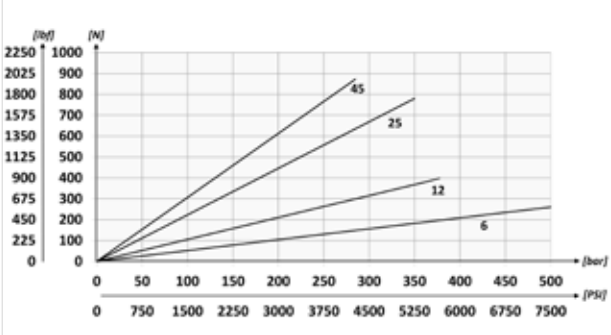
LRV



Valvola di massima	Molla 40/350 bar	Taratura Standard 100 bar
Relief valve	Spring 580/5075 PSI	Standard Setting 1450 PSI

SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA

EFFORT OPERATING AT THE END OF THE LEVER



LA POMPA VIENE FORNITA CON GUARNIZIONE SAGOMATA + VITI DI FISSAGGIO + LEVA DI AZIONAMENTO L=600 mm

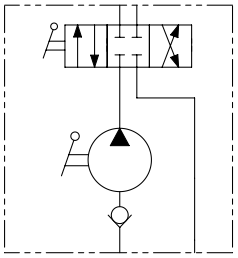
THE PUMP IS SUPPLIED WITH SHAPED SEAL, FIXING SCREWS AND ACTING LEVER 23.6 inch LONG

CODICE ORDINAZIONE / ORDERING CODE

01	02	03
PMI		

01	POMPA A MANO DOPPIO POMPAGGIO PER CILINDRO A DOPPIO EFFETTO - CENTRO CHIUSO (DOUBLE PUMPING HAND PUMP FOR DOUBLE ACTING CYLINDER - CLOSED CENTER)				**PMI**
02	CILINDRATA (DISPLACEMENT)	A	B	C	
	6 cm³ (0.37 in³)	**253** (9.96)	**166** (6.54)	**34** (1.34)	**6**
	12 cm³ (0.73 in³)	**253** (9.96)	**166** (6.54)	**34** (1.34)	**12**
	25 cm³ (1.53 in3)	**273** (10.75)	**172** (6.77)	**34** (1.34)	**25**
	45 cm³ (2.75 in³)	**283** (11.14)	**172** (6.77)	**40** (1.57)	**45**
03	OPTIONAL	Con soffietto (With rubber protection)			**P**
		Con leva di scarico Ø 27 mm (With unloading lever Ø 1.06 inch)			**L**
		Con valvola di massima pressione (With relief valves)			**RV**
		Con leva di scarico e valvola di massima pressione (With unloading lever and relief valves)			**LRV**

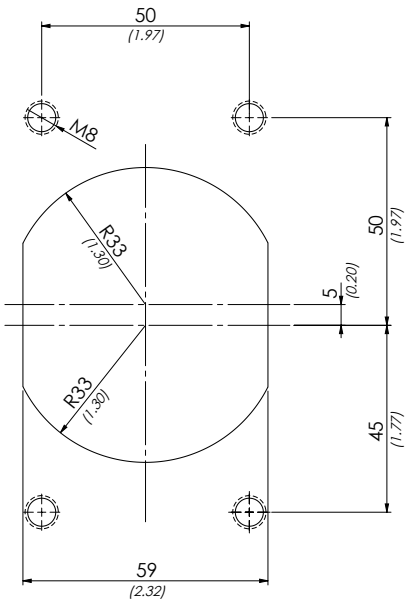
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

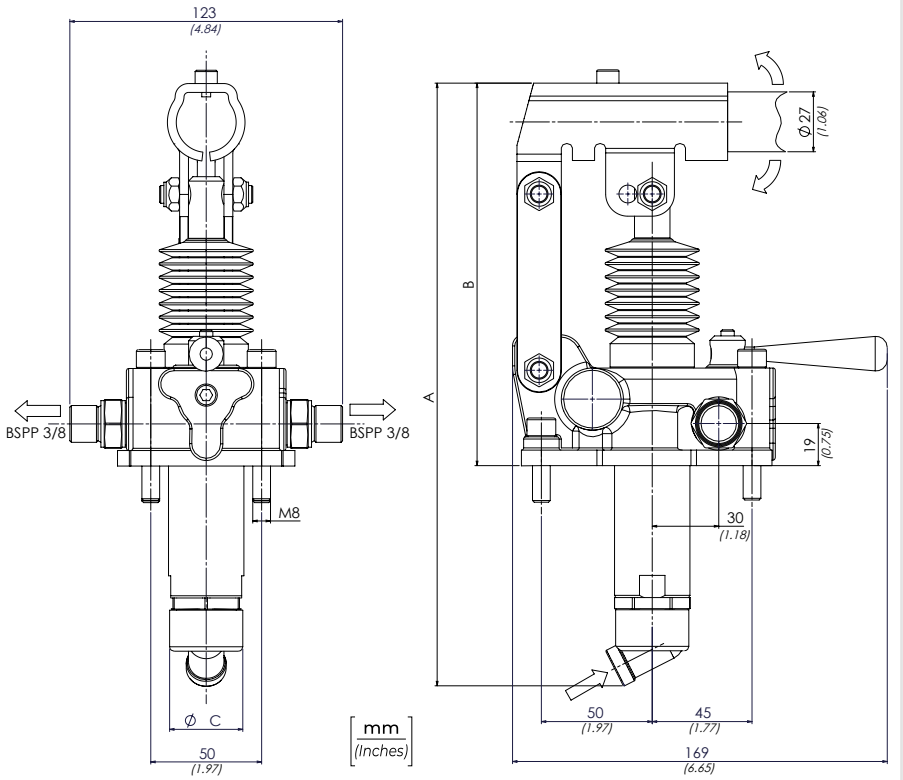


DATI TECNICI / TECHNICAL DATA

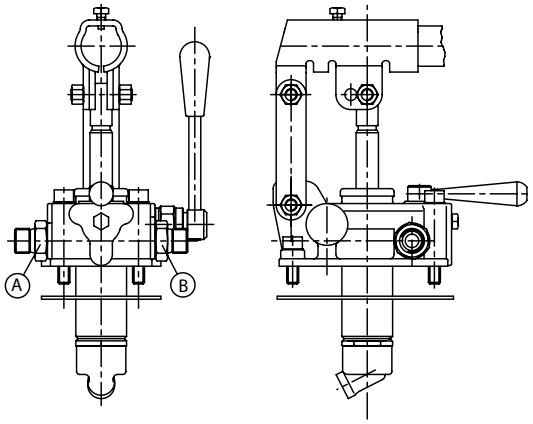
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F +176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F +122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

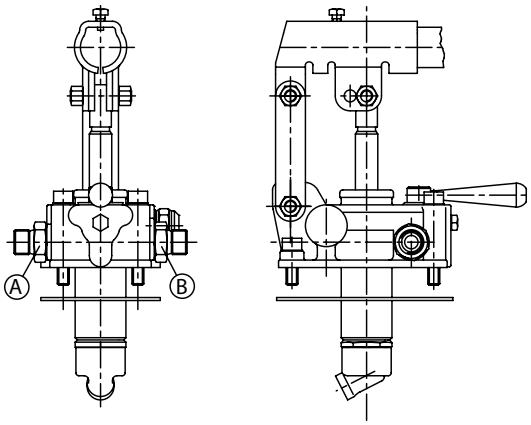




L



RV

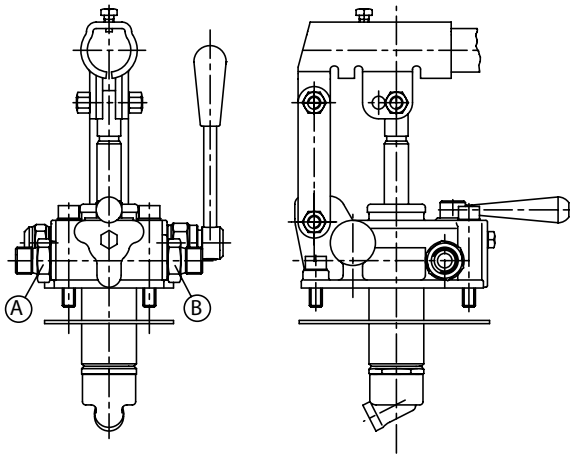


Valvola di massima
Relief valve

Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

LRV

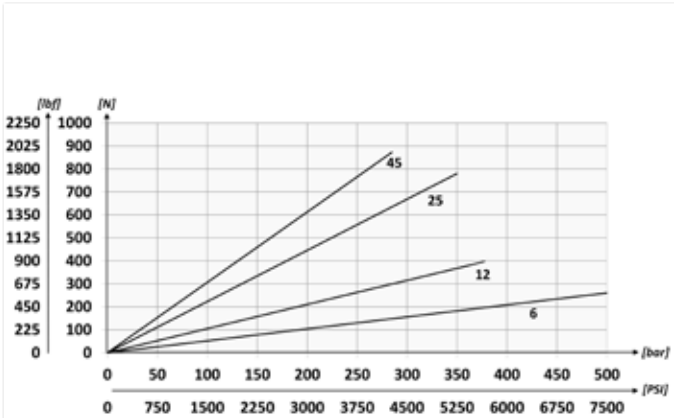


Valvola di massima
Relief valve

Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PRESSIONE OTTIMALE OPTIMAL PRESSURE bar-PSI	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX APPROX WEIGHT kg-lbt
PMI6	**420** (6090)	**500** (7250)	**4,20** (9.25)
PMI12	**220** (3190)	**380** (5510)	
PMI25	**120** (1740)	**350** (5075)	
PMI45	**80** (1160)	**280** (4060)	

LA POMPA VIENE FORNITA CON GUARNIZIONE SAGOMATA + VITI DI FISSAGGIO + LEVA DI AZIONAMENTO Ø 27 MM L=600 mm

THE PUMP IS SUPPLIED WITH SHAPED SEAL, FIXING SCREWS AND ACTING LEVER Ø 1,06 INCH 23 inch LONG

CODICE ORDINAZIONE / ORDERING CODE

01	02	03
PMT		

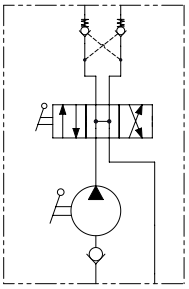
01	POMPA A MANO DOPPIO POMPAGGIO PER CILINDRO A DOPPIO EFFETTO CON VALVOLE DI BLOCCO (DOUBLE PUMPING HAND PUMP WITH CHECK VALVES FOR DOUBLE ACTING CYLINDER)				**PMT**
02	CILINDRATA (DISPLACEMENT)	A	B	C	
	6 cm³ (0.37 in³)	**253** (9.96)	**166** (6.54)	**34** (1.34)	**6**
	12 cm³ (0.73 in³)	**253** (9.96)	**166** (6.54)	**34** (1.34)	**12**
	25 cm³ (1.53 in³)	**273** (10.75)	**172** (6.77)	**34** (1.34)	**25**
	45 cm³ (2.75 in³)	**283** (11.14)	**172** (6.77)	**40** (1.57)	**45**
03	OPTIONAL	Con soffietto (With rubber protection)			**P**
		Con valvola di massima pressione su A e B (With relief valves on A and B)			**RVAB**
		Con valvola di massima pressione su B (With relief valves on B)			**RVB**

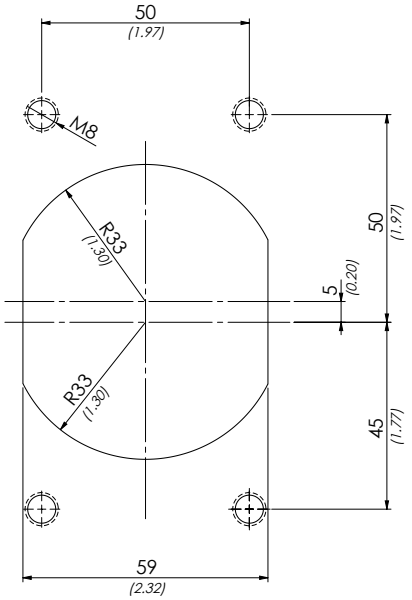
DATI TECNICI / TECHNICAL DATA

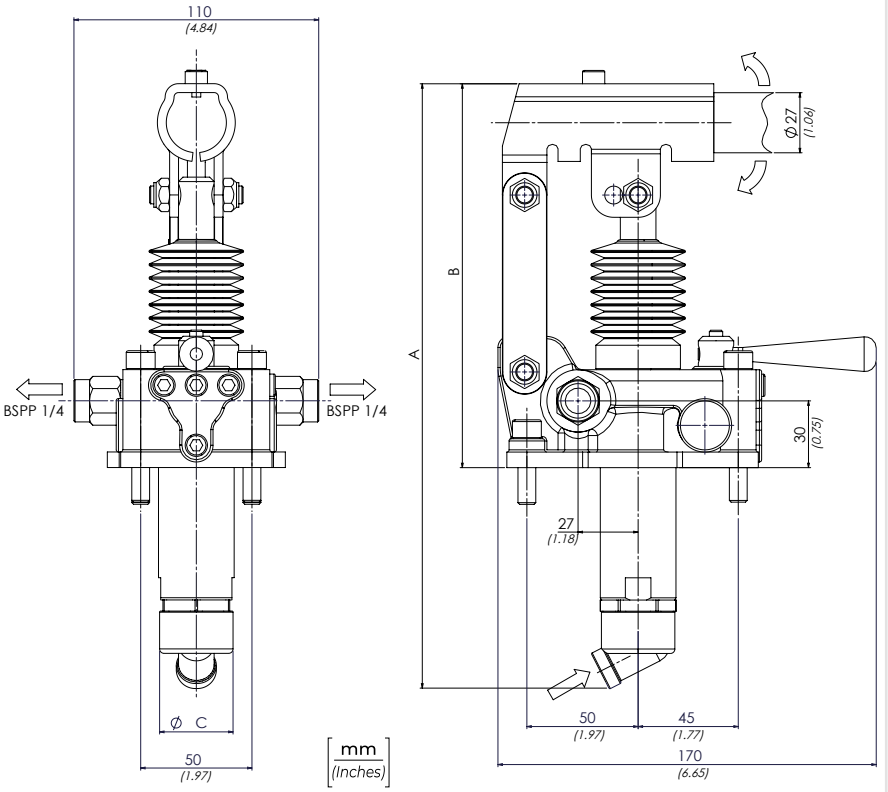
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C** **+80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C** **+50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

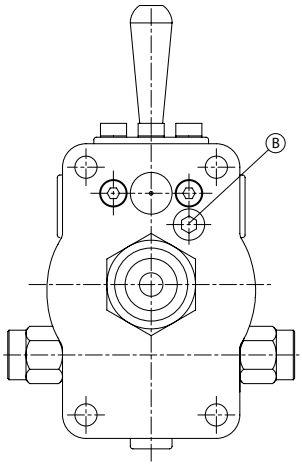
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





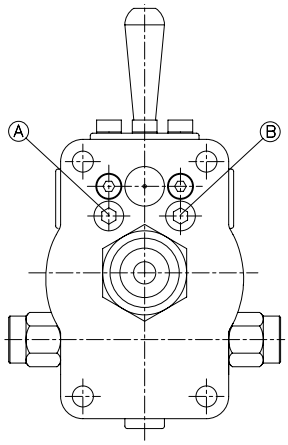


RVB



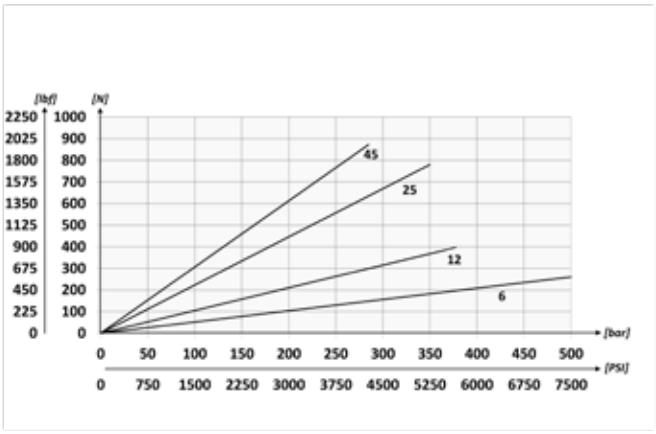
Valvola di massima Relief valve | **Molla 40/350 bar** Spring 580/5075 PSI | **Taratura Standard 100 bar** Standard Setting 1450 PSI

RVAB



Valvola di massima Relief valve | **Molla 40/350 bar** Spring 580/5075 PSI | **Taratura Standard 100 bar** Standard Setting 1450 PSI

SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PRESSIONE OTTIMALE OPTIMAL PRESSURE bar-PSI	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
PMT6	**420** (6090)	**500** (7250)	**4,20** (9.25)
PMT12	**220** (3190)	**380** (5510)	
PMT25	**120** (1740)	**350** (5075)	
PMT45	**80** (1160)	**280** (4060)	

LA POMPA VIENE FORNITA CON GUARNIZIONE SAGOMATA + VITI DI FISSAGGIO + LEVA DI AZIONAMENTO L=600 mm

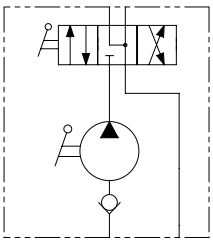
THE PUMP IS SUPPLIED WITH SHAPED SEAL, FIXING SCREWS AND ACTING LEVER 23.6 inch LONG

CODICE ORDINAZIONE / ORDERING CODE

01	02	03
PMA		

01	POMPA A MANO DOPPIO POMPAGGIO PER CILINDRO A DOPPIO EFFETTO - CENTRO APERTO (DOUBLE PUMPING HAND PUMP FOR DOUBLE ACTING CYLINDER - OPEN CENTER)				**PMA**
02	CILINDRATA (DISPLACEMENT)	A	B	C	
	6 cm³ (0.37 in³)	**253** (9.96)	**166** (6.54)	**34** (1.34)	**6**
	12 cm³ (0.73 in³)	**253** (9.96)	**166** (6.54)	**34** (1.34)	**12**
	25 cm³ (1.53 in³)	**273** (10.75)	**172** (6.77)	**34** (1.34)	**25**
	45 cm³ (2.75 in³)	**283** (11.14)	**172** (6.77)	**40** (1.57)	**45**
03	OPTIONAL	Con soffietto (With rubber protection)			**P**
		Con leva di scarico Ø 27 mm (With unloading lever Ø 1.06 inch)			**L**
		Con valvola di massima pressione su A e B (With relief valves on A and B)			**RV**
		Con leva di scarico e valvola di massima pressione (With unloading lever and relief valves)			**LRV**

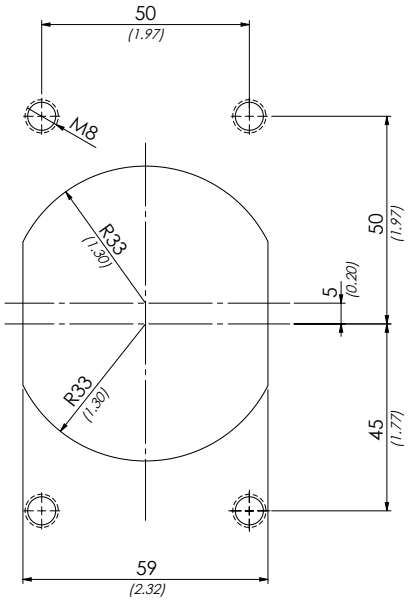
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

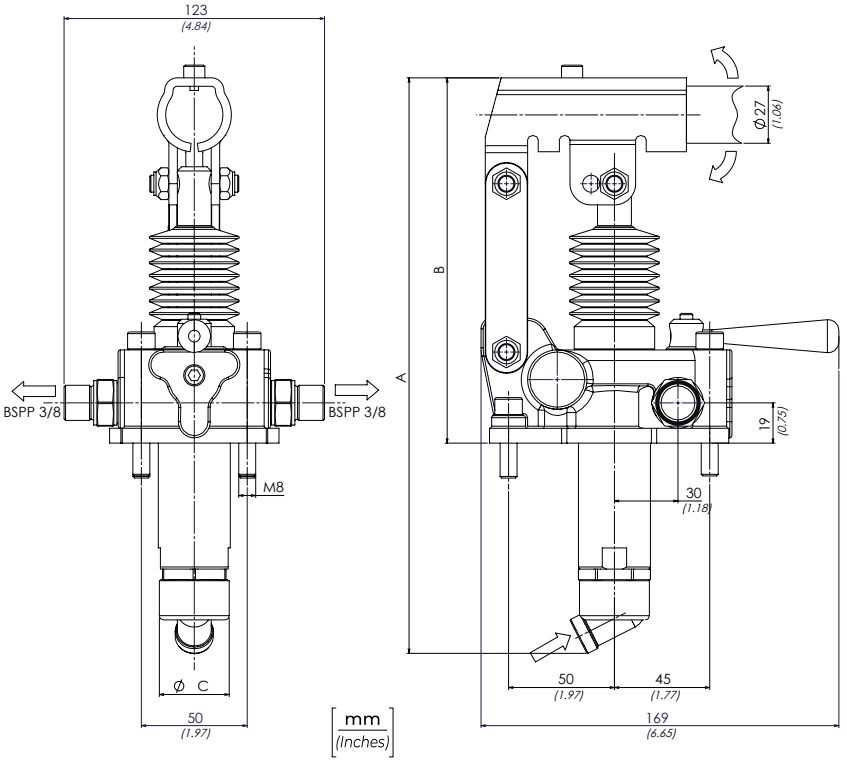


DATI TECNICI / TECHNICAL DATA

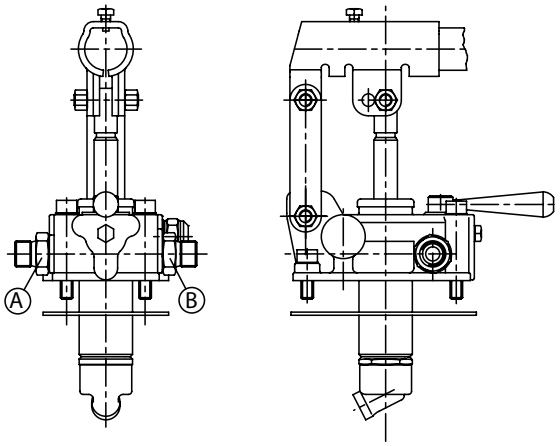
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)





RV

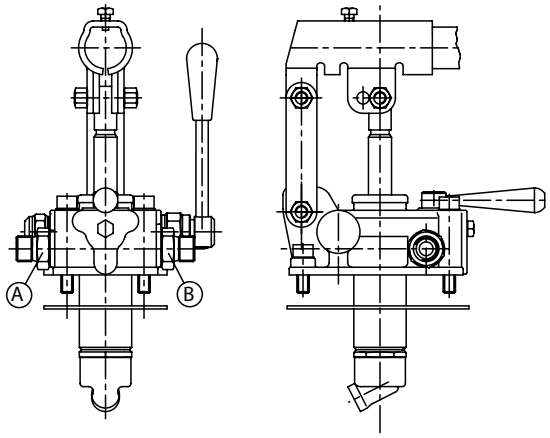


Valvola di massima
Relief valve

Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

LRV

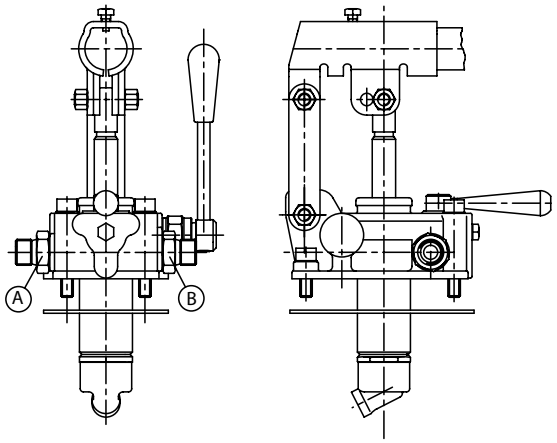


Valvola di massima
Relief valve

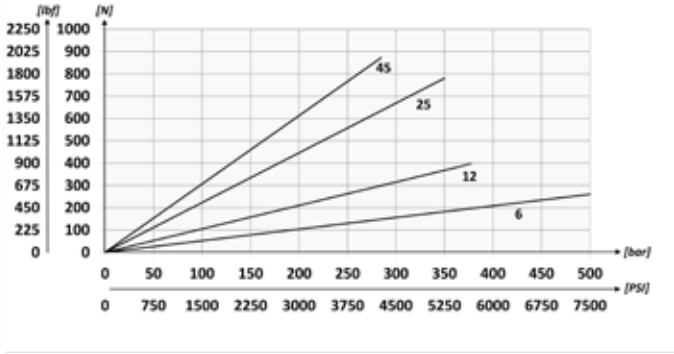
Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

L



SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	**PRESSIONE OTTIMALE** OPTIMAL PRESSURE bar-PSI	**PRESSIONE MAX** (bar) MAX PRESSURE (PSI)	**PESO APPROX** (kg) APPROX WEIGHT (lbt)
PMA6	**420** (6090)	**500** (7250)	**4,20** (9.25)
PMA12	**220** (3190)	**380** (5510)	
PMA25	**120** (1740)	**350** (5075)	
PMA45	**80** (1160)	**280** (4060)	

LA POMPA VIENE FORNITA CON GUARNIZIONE SAGOMATA
+ VITI DI FISSAGGIO
+ LEVA DI AZIONAMENTO Ø 20 MM L=500 mm

LA MANDATA LA SI OTTIENE SOLAMENTE
AZIONANDO LA LEVA VERSO IL BASSO

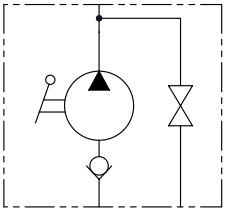
THE PUMP IS SUPPLIED WITH SHAPED SEAL,
FIXING SCREWS AND ACTING LEVER Ø 0.79 17,7 inch LONG.
OIL FLOW LEVER ACTION DOWNWARDS ONLY

CODICE ORDINAZIONE / ORDERING CODE

01	02	03
PME1		

01	POMPA A MANO SINGOLO POMPAGGIO VERSO IL BASSO PER CILINDRO A SEMPLICE EFFETTO (SINGLE DOWNWARD PUMPING HAND PUMP FOR SINGLE ACTING CYLINDER)		**PME1**
02	CILINDRATA (DISPLACEMENT)	**8 cm³** (0.49 in³)	**8**
		15 cm³ (0.92 in³)	**15**
03	OPTIONAL	Con soffietto (With rubber protection)	**P**
		Senza rubinetto di scarico con valvola di massima (Without unloading valve With relief valves)	**WRV**
		Senza rubinetto di scarico (Without unloading valve)	**W**
		Con valvola di massima pressione (With relief valves)	**RV**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



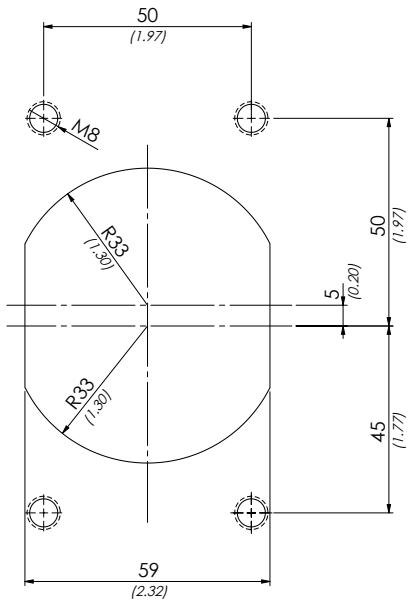
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

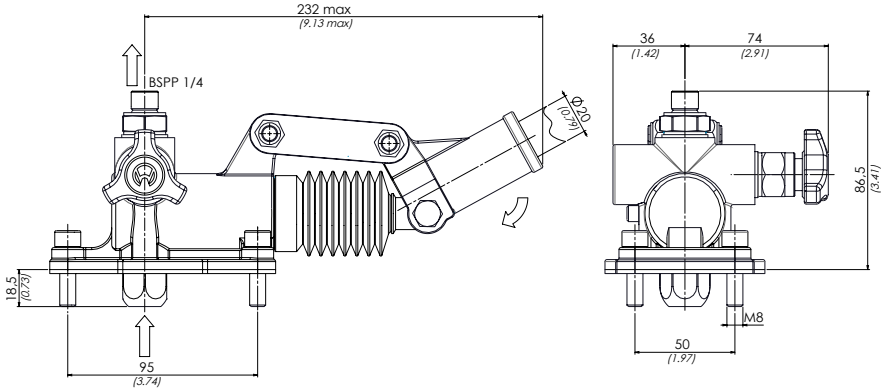
TIPO TYPE	PRESSIONE OTTIMALE OPTIMAL PRESSURE bar-PSI	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
PME18	**180** (2610)	**380** (5510)	**2,9** (6.39)
PME115	**110** (1595)	**350** (5075)	

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

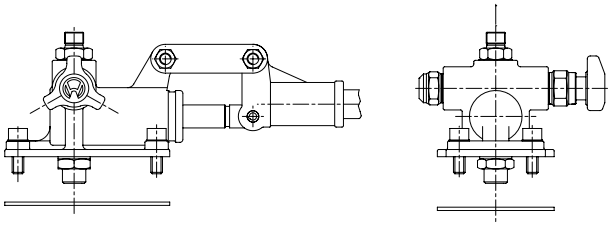
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



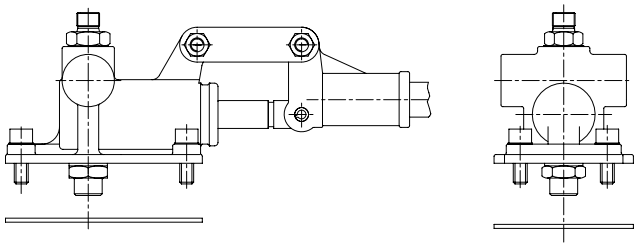


mm
(Inches)

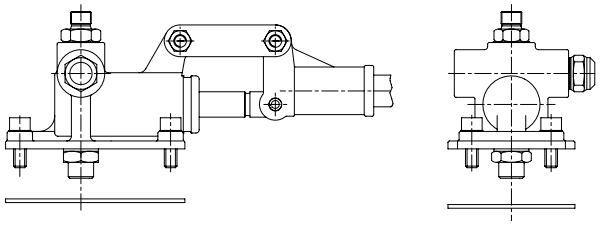
RW



W



WRV

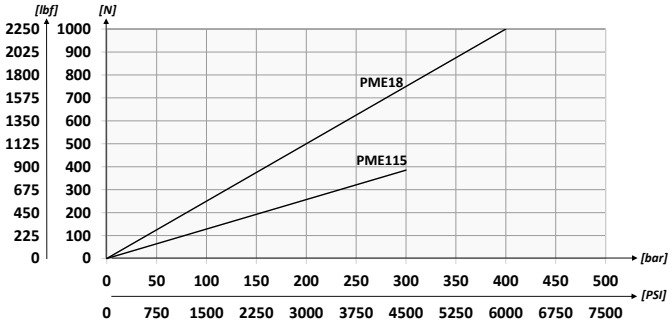


Valvola di massima
Relief valve

Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER

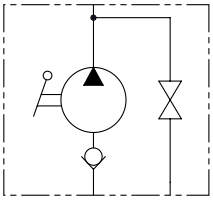


LA POMPA VIENE FORNITA CON GUARNIZIONE SAGOMATA + VITI DI FISSAGGIO + LEVA DI AZIONAMENTO L=600 mm

LA MANDATA LA SI OTTIENE SOLAMENTE AZIONANDO LA LEVA VERSO IL BASSO

THE PUMP IS SUPPLIED WITH SHAPED SEAL, FIXING SCREWS AND ACTING LEVER 23,6 inch LONG. OIL FLOW LEVER ACTION DOWNWARDS ONLY

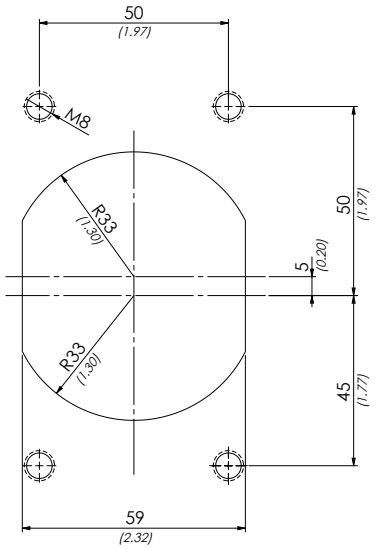
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

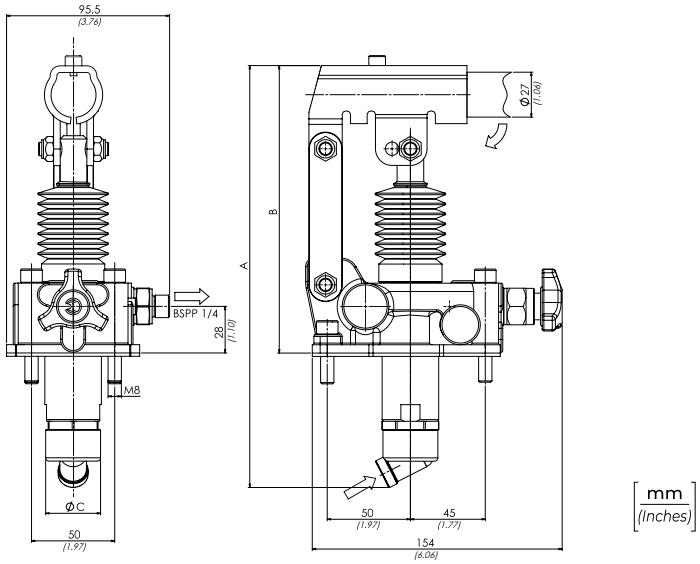


CODICE ORDINAZIONE / ORDERING CODE

01	02	03
PME2		

01	POMPA A MANO SINGOLO POMPAGGIO VERSO IL BASSO PER CILINDRO A SEMPLICE EFFETTO (SINGLE DOWNWARD PUMPING HAND PUMP FOR SINGLE ACTING CYLINDER)				**PME2**
02	CILINDRATA (DISPLACEMENT)	A	B	C	
	20 cm³ (1.22 in³)	**249** (9.80)	**167** (6.57)	**34** (1.33)	**20**
	30 cm³ (1.83 in³)	**252** (9.92)	**167** (6.57)	**34** (1.33)	**30**
	40 cm³ (2.44 in³)	**252** (9.92)	**167** (6.57)	**40** (1.57)	**40**
03	OPTIONAL	Con soffietto (With rubber protection)			**P**
		Senza rubinetto di scarico con valvola di massima (Without unloading valve With relief valves)			**WRV**
		Senza rubinetto di scarico (Without unloading valve)			**W**
		Con leva di scarico (With unloading lever)			**L**
		Con valvola di massima pressione (With relief valves)			**RV**
		Con leva di scarico e valvola di massima pressione (With unloading lever and relief valves)			**LRV**





DATI TECNICI / TECHNICAL DATA

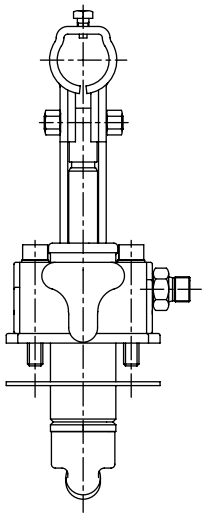
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

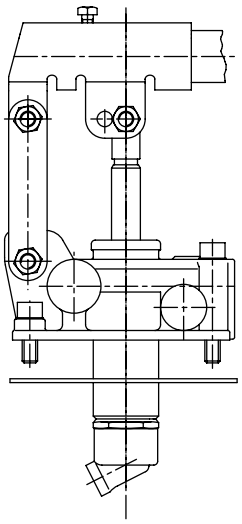
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

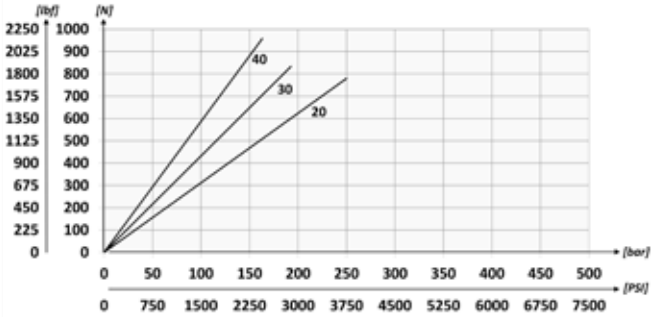
TIPO TYPE	PRESSIONE OTTIMALE OPTIMAL PRESSURE bar-PSI	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
PME220	**80** (1160)	**240** (3480)	**4,2** (9.2)
PME230	**60** (870)	**185** (2683)	
PME240	**40** (580)	**160** (2320)	

W

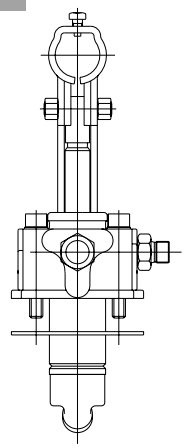


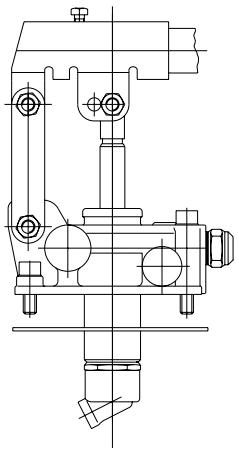


SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER



WRV



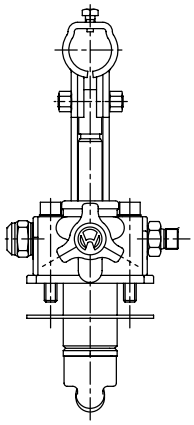


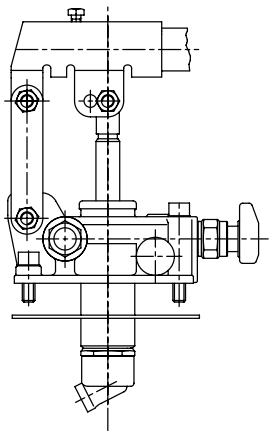
Valvola di massima
Relief valve

Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

RV



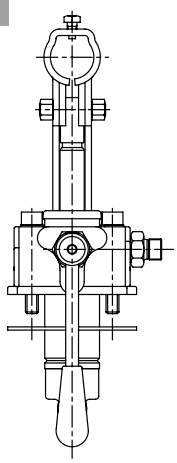


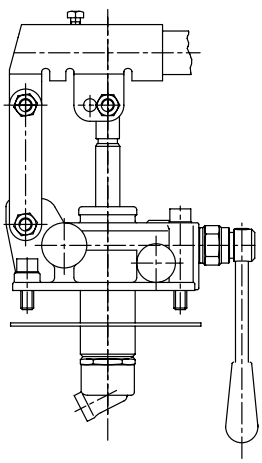
Valvola di massima
Relief valve

Molla 40/350 bar
Spring 580/5075 PSI

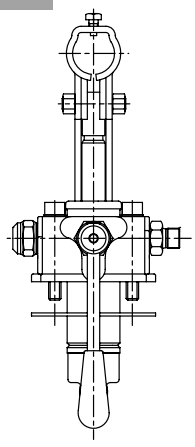
Taratura Standard 100 bar
Standard Setting 1450 PSI

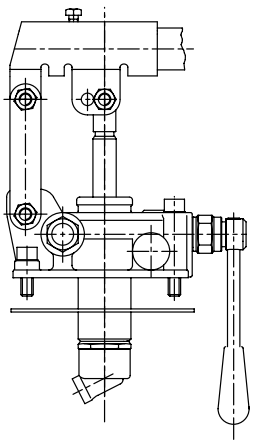
L





LRV





Valvola di massima
Relief valve

Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

LA POMPA VIENE FORNITA CON GUARNIZIONE SAGOMATA + VITI DI FISSAGGIO + LEVA DI AZIONAMENTO L=500 mm

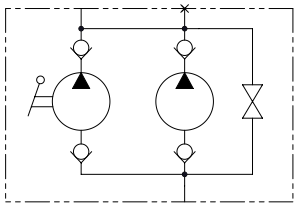
THE PUMP IS SUPPLIED WITH SHAPED SEAL, FIXING SCREWS AND ACTING LEVER 19.7 inch LONG

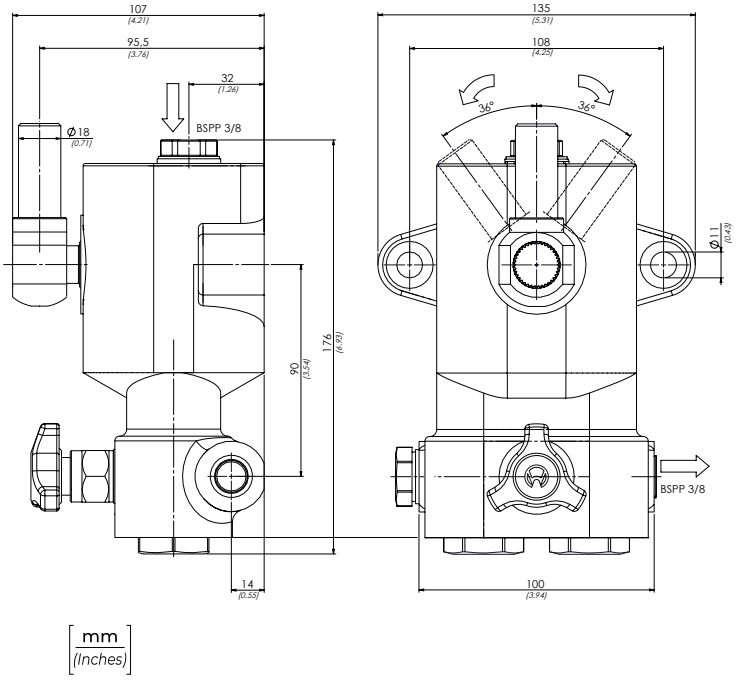
CODICE ORDINAZIONE / ORDERING CODE

01	02	03
PMD		

01	POMPA A MANO SEMPLICE EFFETTO DOPPIO POMPANTE (SINGLE ACTING HAND PUMP WITH DOUBLE CYLINDER)		**PMD**
02	CILINDRATA (DISPLACEMENT)	**5 cm³** (0.31 in³)	**5**
		10 cm³ (0.61 in³)	**10**
		17 cm³ (1.04 in³)	**17**
03	OPTIONAL	Senza rubinetto di scarico (Without unloading valve)	**W**

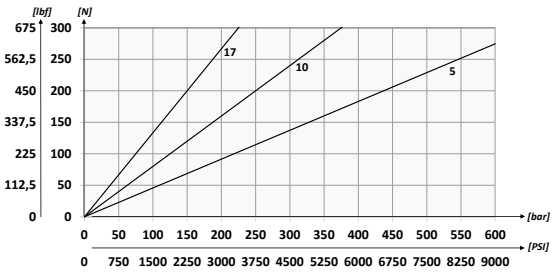
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





mm
(Inches)

SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PRESSIONE OTTIMALE OPTIMAL PRESSURE bar-PSI	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt	CILINDRATA (cm³) DISPLACEMENT (in³)
PMD5	**500** (7250)	**500** (7250)	**5,7** (12.56)	**5** (0.31)
PMD10	**250** (3625)	**250** (3625)		**10** (0.61)
PMD17	**150** (2175)	**150** (2175)		**17** (1.04)

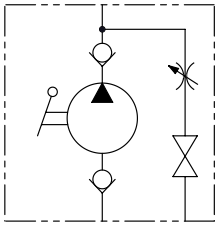
01

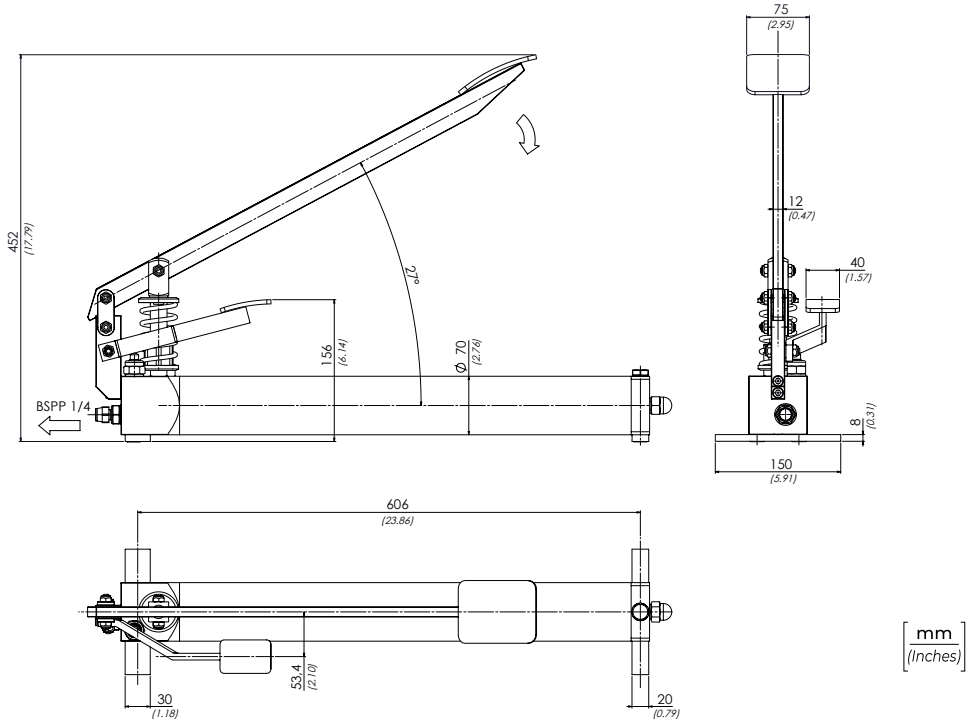
CODICE ORDINAZIONE
ORDERING CODE

PME3

01	POMPA A PEDALE (FOOT PUMP)	**PME3**
Serbatoio **lt. 1,5** (Reservoir lt. 1.5)		

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



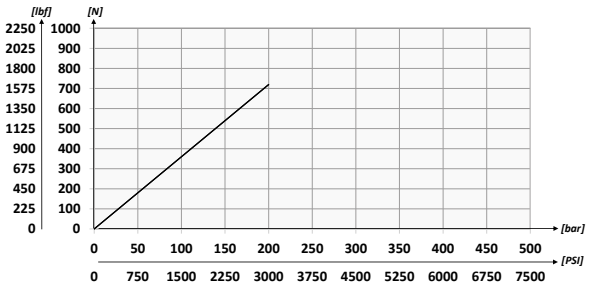


DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER



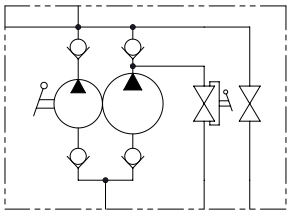
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt	CILINDRATA (cm³) DISPLACEMENT (in³)
PME3	**220** (3190)	**10,40** (22.92)	**14** (0.85)

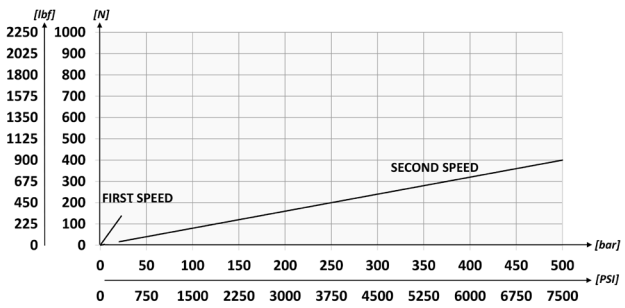
LA POMPA VIENE FORNITA CON GUARNIZIONE SAGOMATA + VITI DI FISSAGGIO + LEVA DI AZIONAMENTO L=600 mm

THE PUMP IS SUPPLIED WITH SHAPED SEAL, FIXING SCREWS AND ACTING LEVER 23.6 inch LONG

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



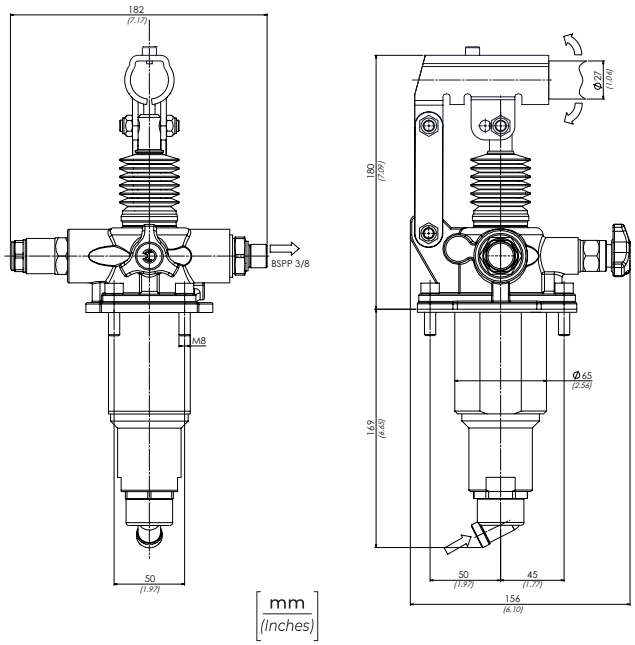
SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER



CODICE ORDINAZIONE
ORDERING CODE

01	02
PME580	

01		POMPA A MANO 2 VELOCITÀ DOPPIO POMPAGGIO PER CILINDRO A SEMPLICE EFFETTO (2 SPEEDS DOUBLE PUMPING HAND PUMP FOR SINGLE ACTING CYLINDER)	**PME580**
02	OPTIONAL	Con soffietto (With rubber protection)	**P**
		Con attacco manometro G 1/8" (With pressure gauge port G 1/8")	**18**
		Con valvola di massima e attacco manometro G 1/8" (With relief valve and pressure gauge port G 1/8")	**X18**
		Con valvola di esclusione alta-bassa pressione automatica (With automatic Hi-Low unloading device)	**CA**
		Con valvola di esclusione alta-bassa pressione automatica e attacco manometro G 1/8" (With automatic Hi-Low unloading device and pressure gauge port G 1/8")	**CA18**
		Con valvola di esclusione alta-bassa pressione automatica e valvola di massima (With automatic Hi-Low unloading device and relief valve)	**CARV**
		Con valvola di esclusione alta-bassa pressione automatica, valvola di massima e attacco manometro G 1/8" (With automatic Hi-Low unloading device, relief valve and pressure gauge port G 1/8")	**CARV18**



DATI TECNICI / TECHNICAL DATA

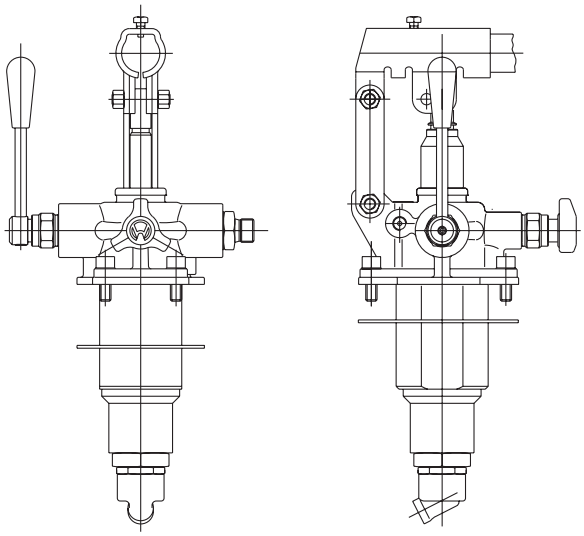
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

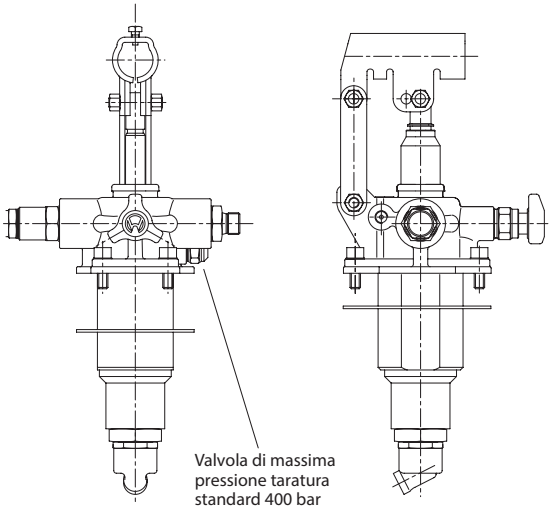
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PRESSIONE MAX 1 STADIO MAX PRESSURE 1 STAGE bar-PSI	PRESSIONE MAX 2 STADIO MAX PRESSURE 2 STAGE bar-PSI	CILINDRATA 1 STADIO DISPLACEMENT 1 STAGE cm³-in³	CILINDRATA 2 STADIO DISPLACEMENT 2 STAGE cm³-in³	PESO APPROX APPROX WEIGHT kg-lbt
PME580	**20** (290)	**500** (7250)	**80** (4.9)	**5** (0.31)	**6,6** (14.55)

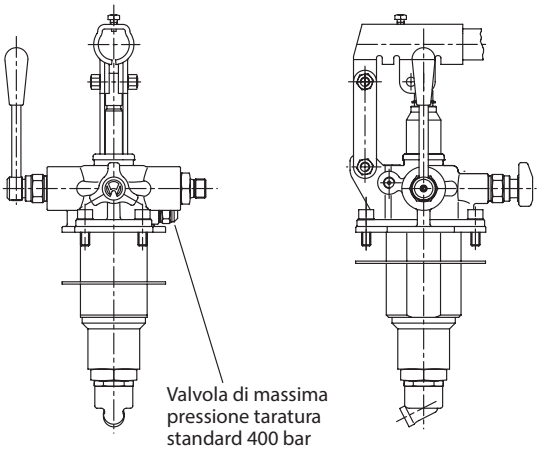
18



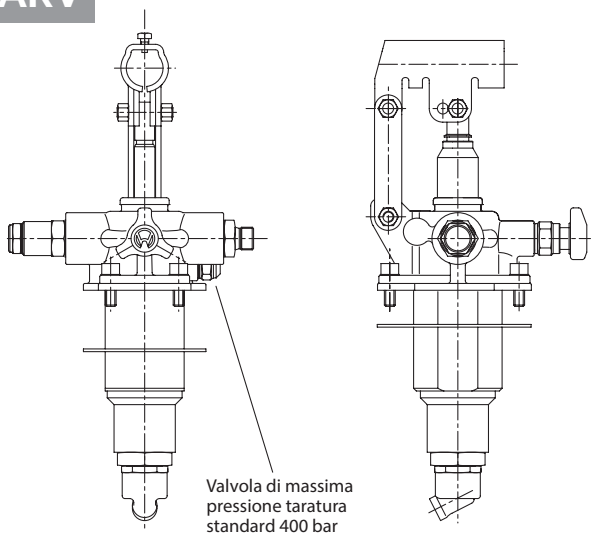
CA18



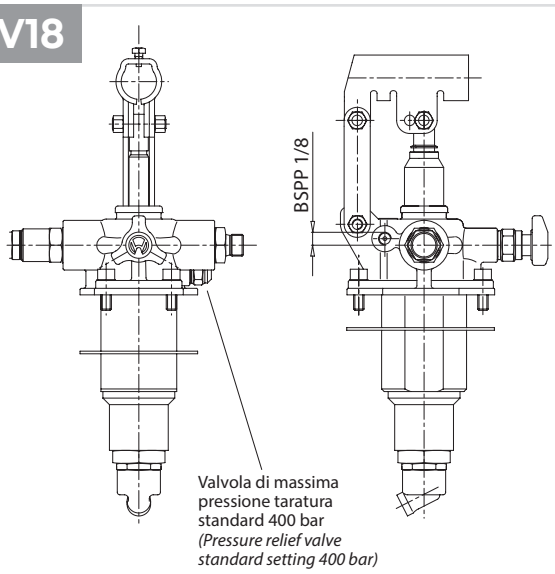
X18



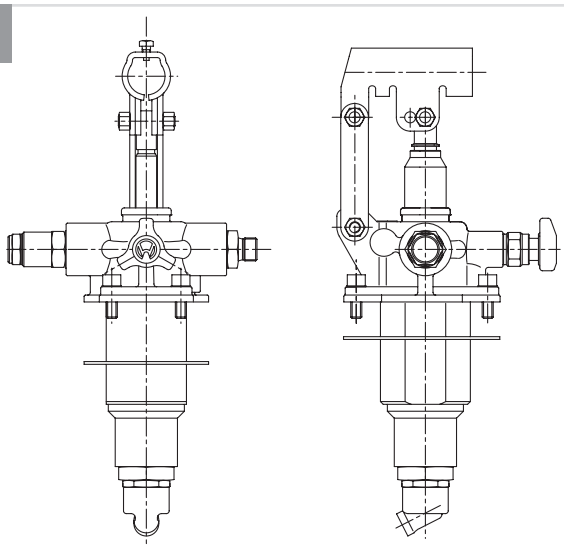
CARV



CARV18

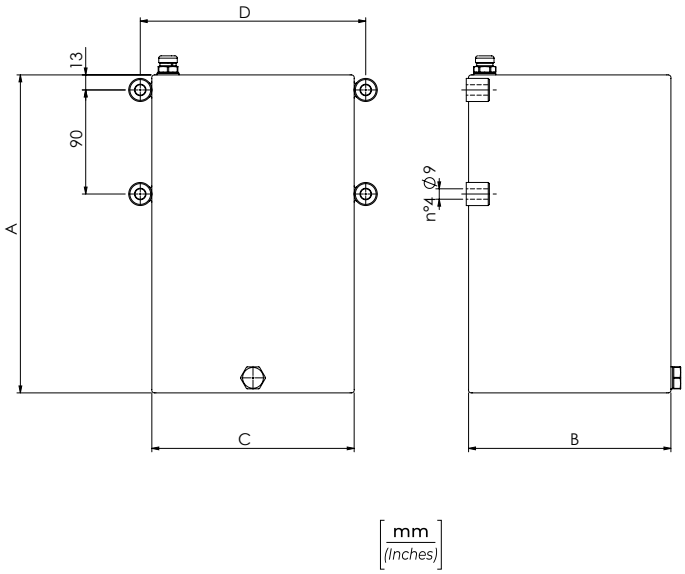


CA



SERBATOIO IN ACCIAIO, VERNICIATURA RAL9005 ANTIOLIO-NERO, IL SERBATOIO È COMPRENSIVO DI TAPPO SFIATO, TAPPO SCARICO E TUBO PESCAGGIO

STEEL RESERVOIR, RAL9005 BLACK OIL PROOF PAINTING, THE RESERVOIR IS INCLUDING THE BREATHER PLUGS AND DRAFT TUBE



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
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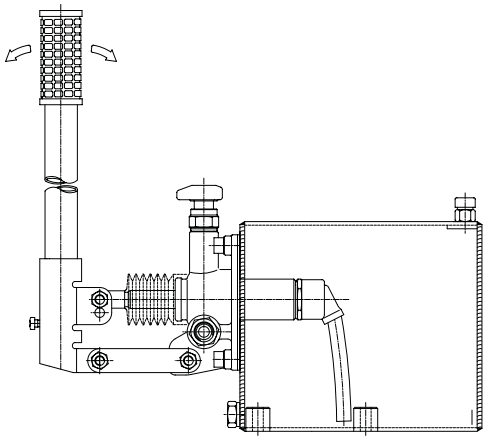
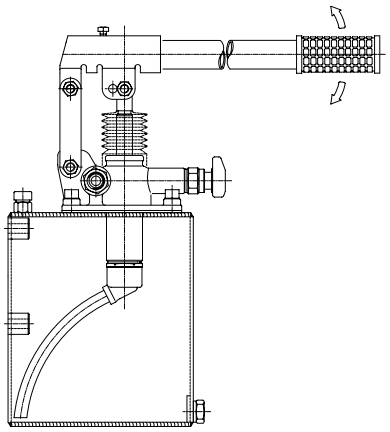
It is necessary a filter use to protect the valve (advised filtration 15 µm)

MONTAGGIO ORIZZONTALE / HORIZONTAL MOUNTING



MONTAGGIO VERTICALE / VERTICAL MOUNTING



01

CODICE ORDINAZIONE
ORDERING CODE

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

	TIPO TYPE	CAPACITÀ CAPACITY	A	B	C	D	PESO APPROX (kg) APPROX WEIGHT (lbt)
01	**17900001**	**1 Lt.** - 61 in.³	**120** (4.72)	**150** (5.91)	**100** (3.94)	**120** (4.72)	**2,2** (5)
	17900002	**2 Lt.** - 122 in.³	**185** (7.28)				**2,7** (6)
	17900003	**3 Lt.** - 183 in.³	**255** (10.04)				**3,5** (7,71)
	17900006	**5 Lt.** - 305 in.³	**200** (7.87)	**175** (6.89)		**195** (7.68)	**5** (10.9)
	17900004	**7 Lt.** - 427 in.³	**275** (10.83)				**5,5** (12.1)
	17900005	**10 Lt.** - 610 in.³	**380** (14.96)				**7,1** (15.39)
	17900014	**13 Lt.** - 793 in.³	**485** (19.09)				**10,75** (23.7)
	17900015	**15 Lt.** - 915 in.³	**600** (23.62)				**12,10** (26.67)
	17900016	**20 Lt.** - 1220 in.³	**780** (30.71)				**16** (35.26)

Aggiornamento - Update
20V-2020

TNA 1

TNA 2 - TNA 3 - TNA 5

SERBATOIO IN ALLUMINIO, IL SERBATOIO È COMPRENSIVO DI TAPPO SFIATO, TAPPO SCARICO E TUBO PESCAGGIO

ALUMINIUM RESERVOIR, THE RESERVOIR INCLUDES THE AIR BLEEDING PLUGS AND SUCTION TUBE

CODICE ORDINAZIONE
ORDERING CODE

01	02
TNA	

01	SERBATOI IN ALLUMINIO (ALUMINIUM RESERVOIRS)		**TNA**
02	CAPACITÀ (CAPACITY)	**1 Lt. -** 61 in.³	**1**
		2 Lt. - 122 in.³	**2**
		3 Lt. - 183 in.³	**3**
		5 Lt. - 305 in.³	**5**

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

Tipo Type	**Capacità** Capacity Lt./in	**A**	**H**	**Peso Approx (kg)** Approx weight (lb)
TNA 1	**1 Lt. -** 61 in.³	**40** (1.57)	/	**1,1** (2.4)
TNA 2	**2 Lt. -** 122 in.³	/	**25** (0.98)	**1,5** (3.3)
TNA 3	**3 Lt. -** 183 in.³	/	**70** (2.76)	**1,6** (3.5)
TNA 5	**5 Lt. -** 305 in.³	/	**180** (7.09)	**1,8** (4)

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
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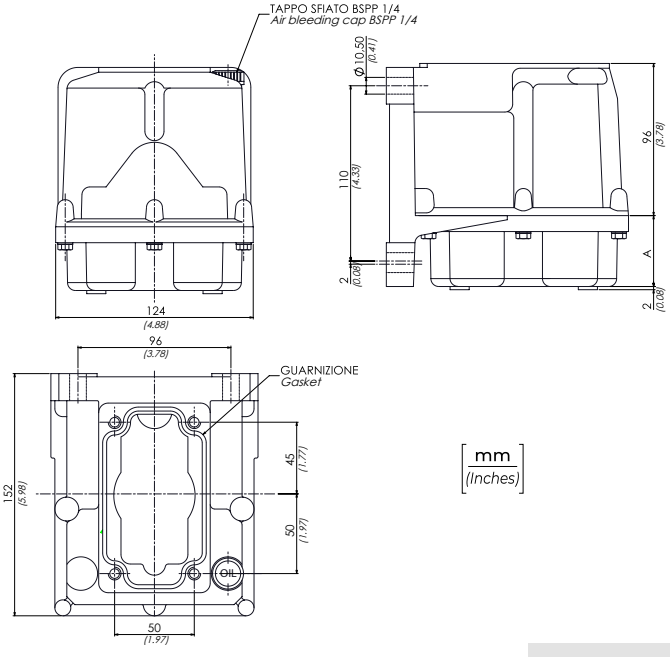
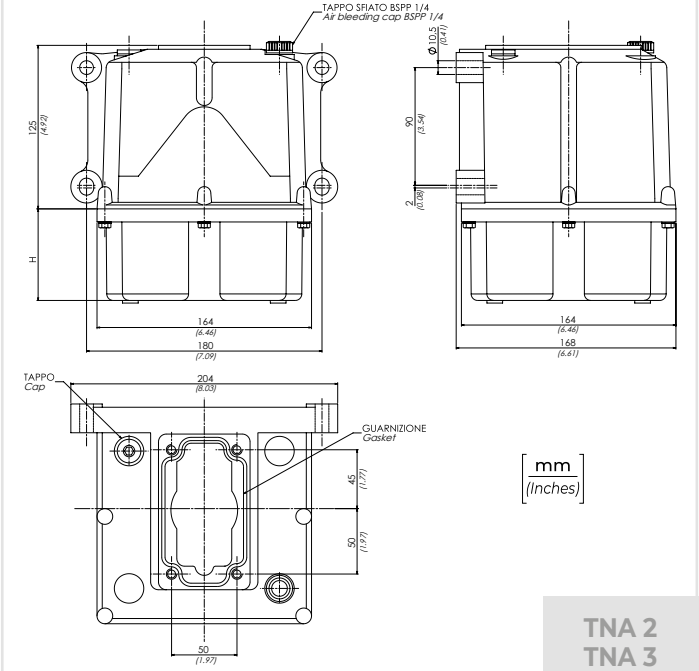
It is necessary a filter use to protect the valve (advised filtration 15 µm)



TNA1



TNA 2
TNA 3
TNA 5

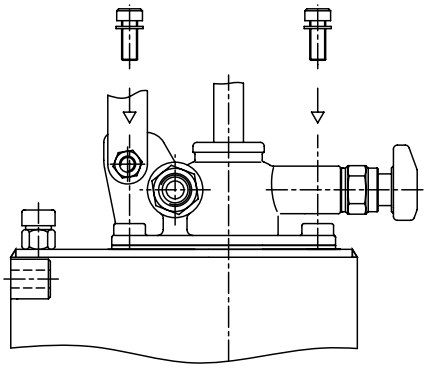
MONTAGGIO POMPA NEL SERBATOIO

1

Montaggio del tubo aspirazione

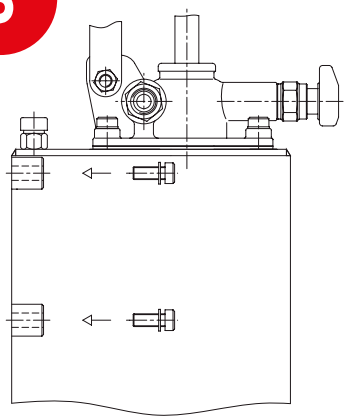
Introdurre il tubo di aspirazione nell'apposito raccordo.

2



Appoggiare la guarnizione in gomma sul serbatoio, posizionare la pompa, assemblare la pompa sul serbatoio mediante kit viti di fissaggio.

3

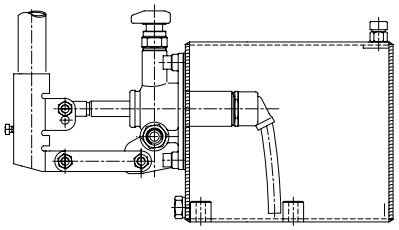


Collocare pompa e serbatoio nella posizione desiderata fissando con 4 viti.

Avvitate per minimo 20 mm.

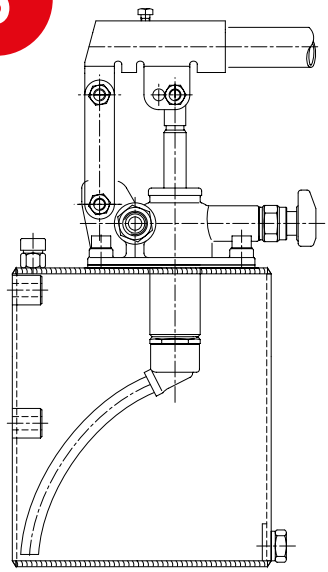
Collegare la mandata della pompa al circuito a semplice o doppio effetto.

4



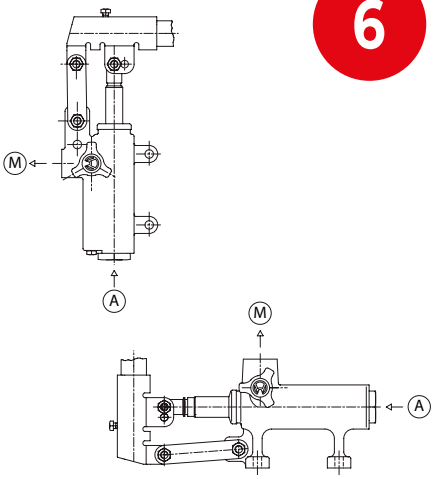
Montaggio orizzontale.

5



Montaggio verticale.

6



Posizionare la pompa in orizzontale o verticale fissandola con apposite viti. Collegare aspirazione (**A**) e mandata (**M**) della pompa al circuito.

USO

Per un corretto funzionamento, dopo aver montato la pompa nel o sul serbatoio in modo appropriato, utilizzare esclusivamente olio idraulico a base minerale ISO6743/4 (DIN 51524), viscosità secondo i parametri ISO 3448 (DIN51519).

Viscosità consigliata: 46 mm²/s (cSt)

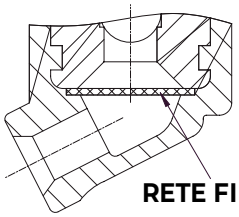
Filtrazione consigliata: 15 µm

Classe di contaminazione: 18/14 ISO4406 (9 NAS 1638)

MANUTENZIONE

Per un corretto funzionamento, si consiglia di seguire le seguenti procedure periodiche:

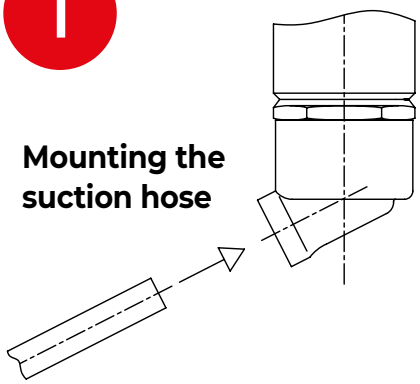
- **PULIZIA DELLA RETE FILTRO**
- **SOSTITUZIONE OLIO**



Aggiornamento - Update
20V-2020

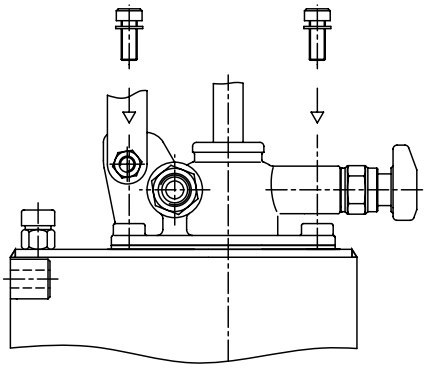
MOUNTING OF PUMP INSIDE THE TANK

1



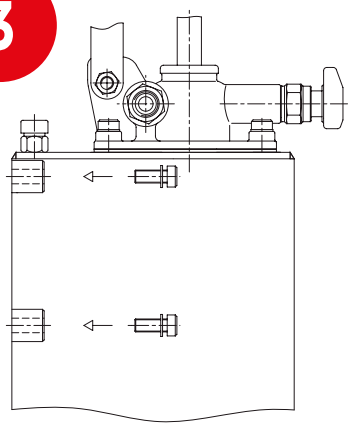
Insert the suction hose in the proper fitting.

2



Put the rubber seal on the tank, position the pump, assemble the pump to the tank by means of the fixing screws kit.

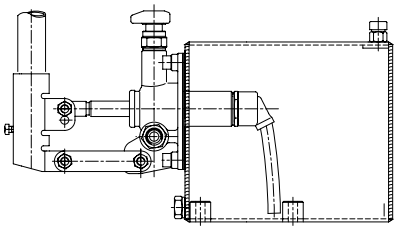
3



Place pump and tank in the position you need and fix them with nr.4 screws. You have to screw for at least 0.79 inch.

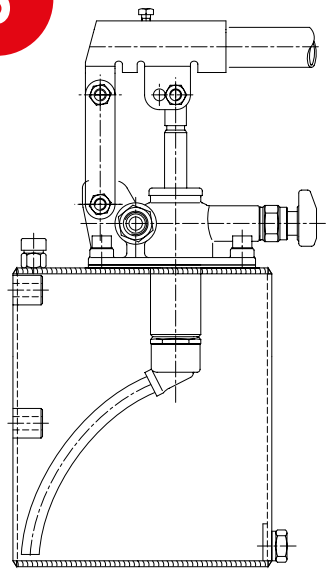
Connect pump delivery to the single or double acting circuit.

4



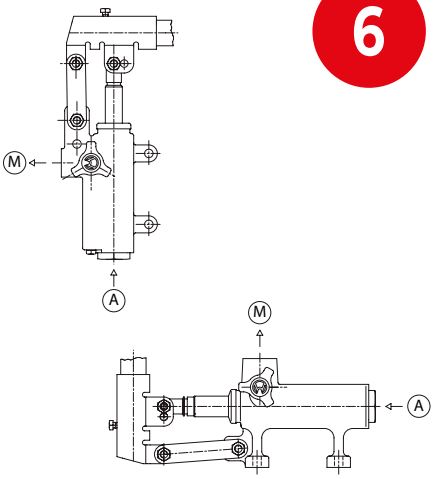
Horizontal mounting.

5



Vertical mounting.

6



Place pump horizontally or vertically and fix with proper screws.

Connect pump suction (**A**) and delivery (**M**) to the circuit.

USE

For a good service of the pump, after having assembled the pump inside or on the tank in the proper way, please use only ISO6743/4 (DIN 51524), hydraulic mineral oil, viscosity according to ISO 3448 (DIN51519) standards.

Advised viscosity: 46 mm²/s (cSt)

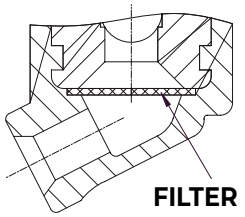
Advised filtration: 15 µm

Contamination class: 18/14 ISO4406
(9 NAS 1638)

MAINTENANCE

For a good service, we advise following periodical operations:

- **FILTER NET CLEANING**
- **OIL REPLACEMENT**

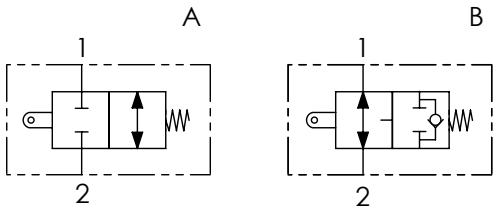


CODICE ORDINAZIONE / ORDERING CODE

01	02	03
FCT		

01	VALVOLE DI FINE CORSA A TRAZIONE (TUG END - STROKE VALVES)		**vpr**
02	DIMENSIONE (SIZE)	BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
03	SCHEMA (CIRCUIT)	Centro chiuso (Closed centre)	**A**
		Centro aperto (Open centre)	**B**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

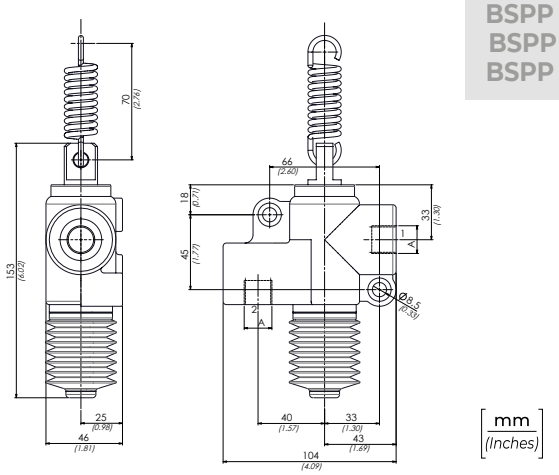
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
380	**BSPP 3/8**	**60** (15.8)	**250** (3625)	**1,7** (3.7)
120	**BSPP 1/2**	**80** (21.1)		**1,8** (4)
340	**BSPP 3/4**	**100** (26.4)		**1,9** (4.1)
100	**BSPP 1**	**140** (37)	**200** (2900)	**2,5** (5.5)

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

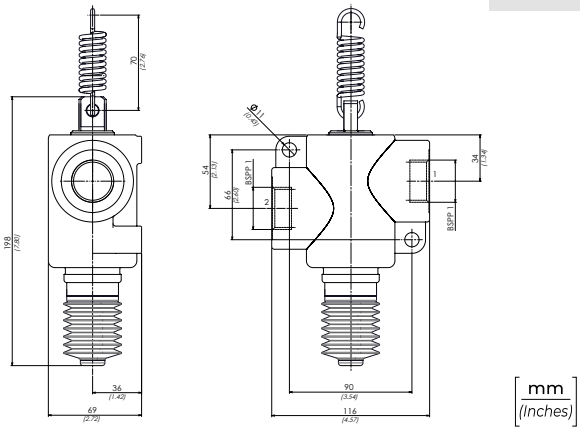
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

BSPP 3/8
BSPP 1/2
BSPP 3/4



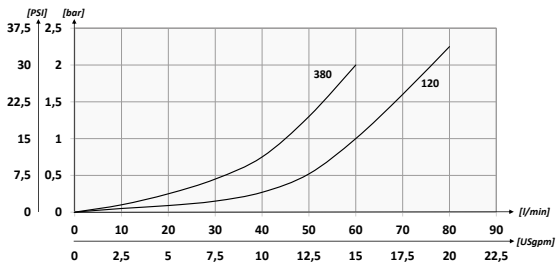
mm (Inches)

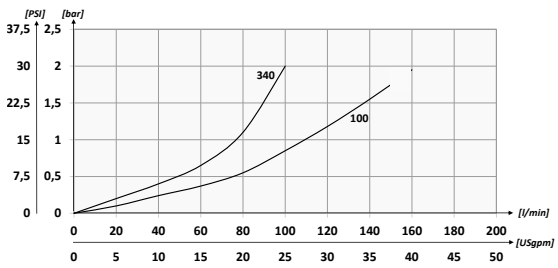
BSPP 1



mm (Inches)

PERFORMANCES



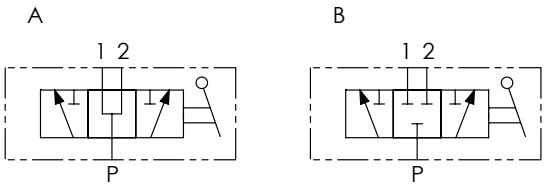


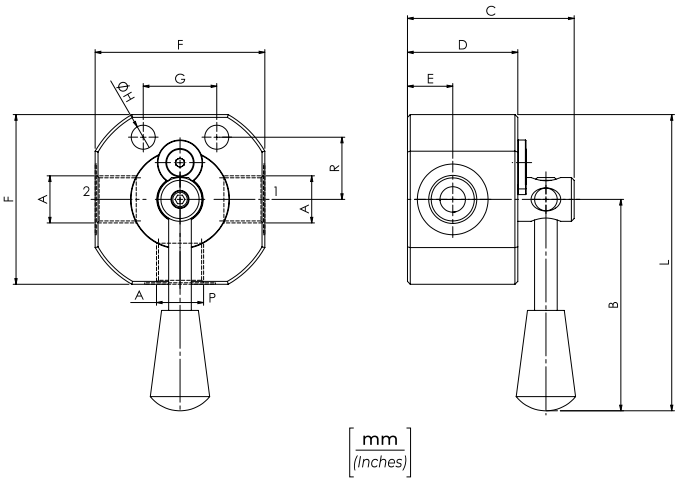
CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04	05
DDFA3		N		S

01	DEVIATORI DI FLUSSO A 3 VIE ALTA PRESSIONE (HIGH PRESSURE 3 WAYS FLOW DIVERTERS)		**DDFA3**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
03	NUOVA VERSIONE (NEW VERSION)		**N**
04	SCHEMA (CIRCUIT)	Centro aperto (Open centre)	**A**
		Centro chiuso (Closed centre)	**B**
05	MATERIALE (MATERIAL)	Acciaio (Steel)	**S**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





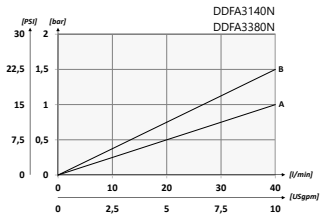
DATI TECNICI / TECHNICAL DATA

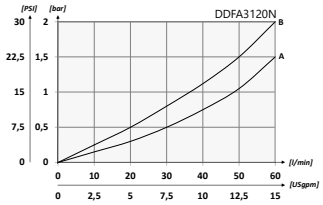
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

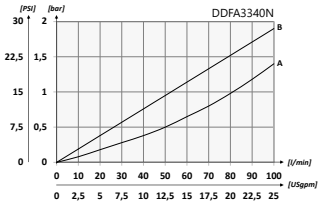
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

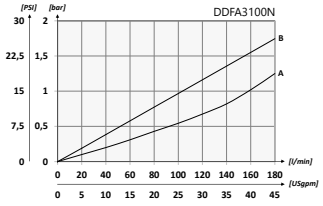
Trafilamento massimo Max leakage	**7 gocce al min.** 0,015 in³/min	**200 bar** drops/min

PERFORMANCES









CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

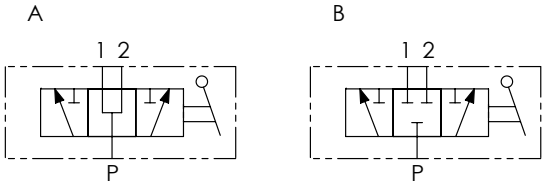
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	R	PESO APPROX APPROX WEIGHT kg-lbt
DDFA3140-N	**BSPP 1/4**	**40** (10.6)	**500** (7250)	**80** (3.15)	**59** (2.32)	**39** (1.54)	**16** (0.63)	**60** (2.36)	**26** (1.02)	**8,5** (0.33)	**110** (4.33)	**22** (0.87)	**0.97** (2.13)
DDFA3380-N	**BSPP 3/8**												**0.94** (2.07)
DDFA3120-N	**BSPP 1/2**	**60** (15.8)											**0.90** (1.98)
DDFA3340-N	**BSPP 3/4**	**100** (26.4)		**102** (4.02)	**75,7** (2.98)	**54** (2.13)	**23,5** (0.93)	**80** (3.15)	**32** (1.26)	**11** (0.43)	**142** (5.59)	**26** (1.02)	**2.24** (4.93)
DDFA3100-N	**BSPP 1**	**180** (47.5)						**85** (3.35)			**145** (5.71)	**31,5** (1.24)	**2.33** (5.14)

CODICE ORDINAZIONE / ORDERING CODE

01	02	03
DDF3		

01	DEVIATORI DI FLUSSO A 3 VIE (3 WAYS FLOW DIVERTERS)		**DDF3**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
03	SCHEMA (CIRCUIT)	**Centro aperto** (Open centre)	**A**
		Centro chiuso (Closed centre)	**B**

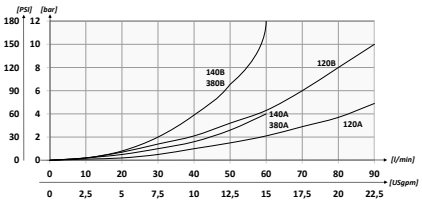
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

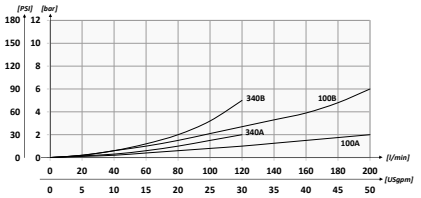


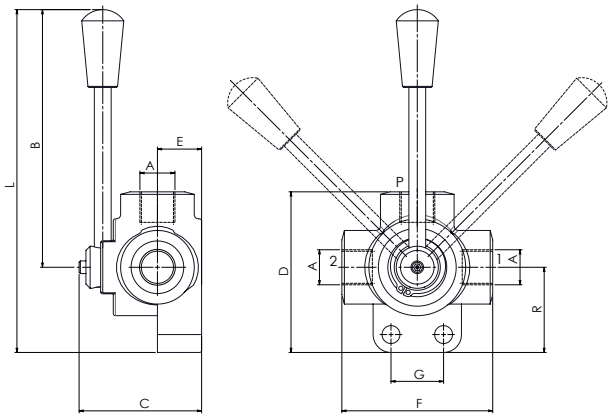
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)		
Trafilamento massimo Max leakage	**7 gocce al min.** 7 drops-min	**200 bar** 2900 PSI

PERFORMANCES







mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

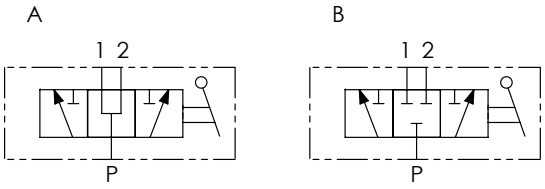
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	R	PESO APPROX APPROX WEIGHT kg-lbt
DDF3140	BSPP 1/4	60 (15.8)	350 (5075)	115 (4.53)	57 (2.24)	75,5 (2.97)	21 (0.83)	70 (2.76)	25 (0.98)	8,5 (0.33)	155,5 (6.12)	32 (1.26)	0,8 (1.8)
DDF3380	BSPP 3/8												
DDF3120	BSPP 1/2	90 (23.8)			63 (2.48)	86 (3.39)	24 (0.94)	80 (3.15)	32 (1.26)		161 (6.34)	36 (1.42)	1,3 (2.8)
DDF3340	BSPP 3/4	120 (31.7)			67 (2.64)	98,5 (3.88)	26 (1.02)	90 (3.54)		10,5 (0.41)	168,5 (6.63)	42 (1.65)	1,7 (3.7)
DDF3100	BSPP 1	200 (52.8)	300 (4350)		77 (3.03)	110 (4.33)	31 (1.22)	98 (3.86)			176,5 (6.95)	50 (1.97)	2,5 (5.5)

CODICE ORDINAZIONE / ORDERING CODE

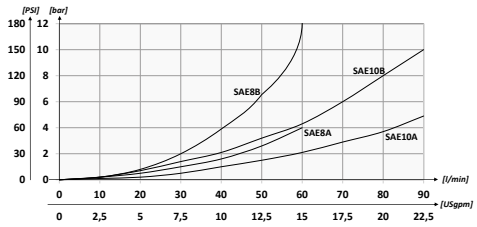
01	02	03
DDF3SAE		

01	DEVIATORI DI FLUSSO A 3 VIE (3 WAYS FLOW DIVERTERS)		**DDF3SAE**
02	DIMENSIONE (SIZE)	3/4-16UNF	**8**
		7/8-14UNF	**10**
		1-1/16-12UN	**12**
		1-5/16-12UN	**16**
03	SCHEMA (CIRCUIT)	**Centro aperto** (Open centre)	**A**
		Centro chiuso (Closed centre)	**B**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

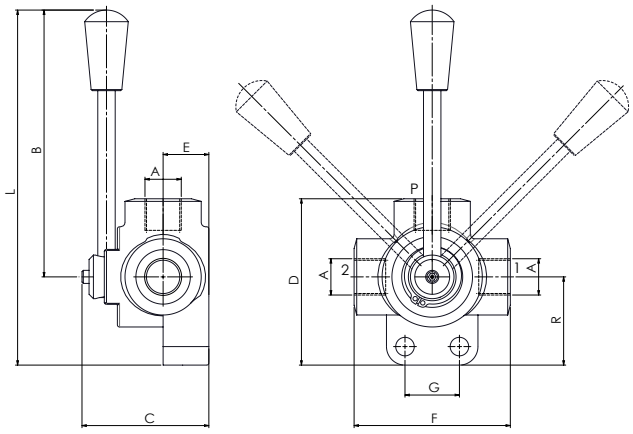


PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)		
Trafilamento massimo Max leakage	**7 gocce al min.** 7 drops-min	**200 bar** 2900 PSI



[mm / (Inches)]

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

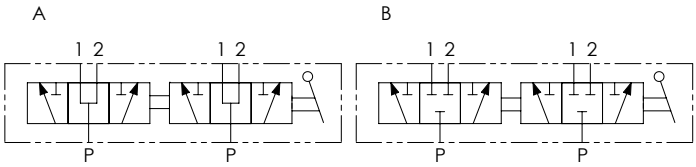
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	R	PESO APPROX APPROX WEIGHT kg-lbt
DDF3SAE8	**3/4-16UNF**	**60** (15.8)	**350** (5075)	**115** (4.53)	**57** (2.24)	**75,5** (2.97)	**21** (0.83)	**70** (2.76)	**25** (0.98)	**8,5** (0.33)	**155,5** (6.12)	**32** (1.26)	**0,8** (1.8)
DDF3SAE10	**7/8-14UNF**	**90** (23.8)			**63** (2.48)	**86** (3.39)	**24** (0.94)	**80** (3.15)	**32** (1.26)		**161** (6.34)	**36** (1.42)	**1,3** (2.8)
DDF3SAE12	**1-1/16-12UN**	**120** (31.7)			**67** (2.64)	**98,5** (3.88)	**26** (1.02)	**90** (3.54)		**10,5** (0.41)	**168,5** (6.63)	**42** (1.65)	**1,7** (3.7)
DDF3SAE16	**1-5/16-12UN**	**200** (52.8)	**300** (4350)		**77** (3.03)	**110** (4.33)	**31** (1.22)	**98** (3.86)			**176,5** (6.95)	**50** (1.97)	**2,2** (5.5)

CODICE ORDINAZIONE / ORDERING CODE

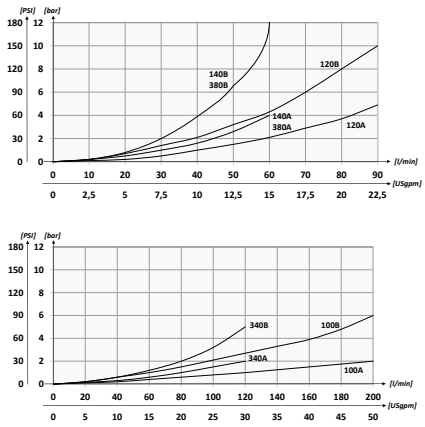
01	02	03
DDF6		

01	DEVIATORI DI FLUSSO A 6 VIE (6 WAYS FLOW DIVERTERS)		**DDF6**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
03	SCHEMA (CIRCUIT)	**Centro aperto** (Open centre)	**A**
		Centro chiuso (Closed centre)	**B**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

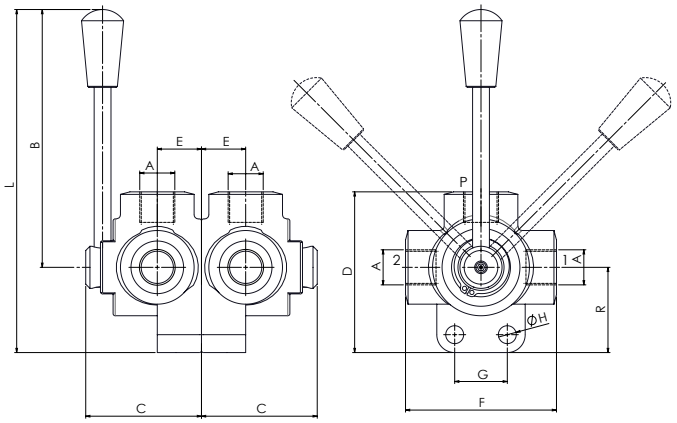


PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)		
Trafilamento massimo Max leakage	**7 gocce al min.** 7 drops-min	**200 bar** 2900 PSI



mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

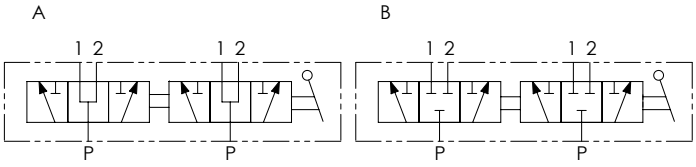
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	R	PESO APPROX APPROX WEIGHT kg-lbt
DDF6140	**BSPP 1/4**	**60+60** (15.8+15.8)	**350** (5075)	**115** (4.53)	**57** (2.24)	**75,5** (2.97)	**21** (0.83)	**70** (2.76)	**25** (0.98)	**8,5** (0.33)	**155,5** (6.12)	**32** (1.26)	**1,6** (3.52)
DDF6380	**BSPP 3/8**												
DDF6120	**BSPP 1/2**	**90+90** (23.8+23.8)			**63** (2.48)	**86** (3.39)	**24** (0.94)	**80** (3.15)	**32** (1.26)		**161** (6.34)	**36** (1.42)	**2,6** (5.7)
DDF6340	**BSPP 3/4**	**120+120** (31.7+31.7)			**67** (2.64)	**98,5** (3.88)	**26** (1.02)	**90** (3.54)		**10,5** (0.41)	**168,5** (6.63)	**42** (1.65)	**3,4** (7.5)
DDF6100	**BSPP 1**	**200+200** (52.8+52.8)	**300** (4000)		**77** (3.03)	**110** (4.33)	**31** (1.22)	**98** (3.86)			**176,5** (6.95)	**50** (1.97)	**5,3** (12)

CODICE ORDINAZIONE / ORDERING CODE

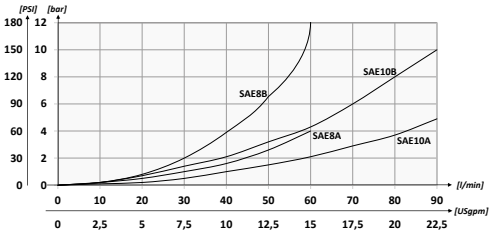
01	02	03
DDF6SAE		

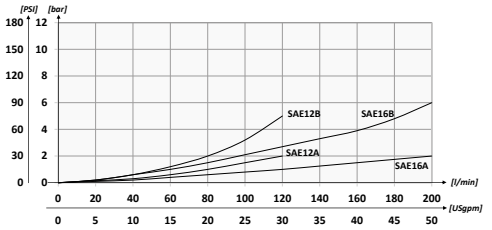
01	DEVIATORI DI FLUSSO A 6 VIE (6 WAYS FLOW DIVERTERS)		**DDF6SAE**
02	DIMENSIONE (SIZE)	3/4-16UNF	**8**
		7/8-14UNF	**10**
		1-1/16-12UN	**12**
		1-5/16-12UN	**16**
03	SCHEMA (CIRCUIT)	**Centro aperto** (Open centre)	**A**
		Centro chiuso (Closed centre)	**B**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES



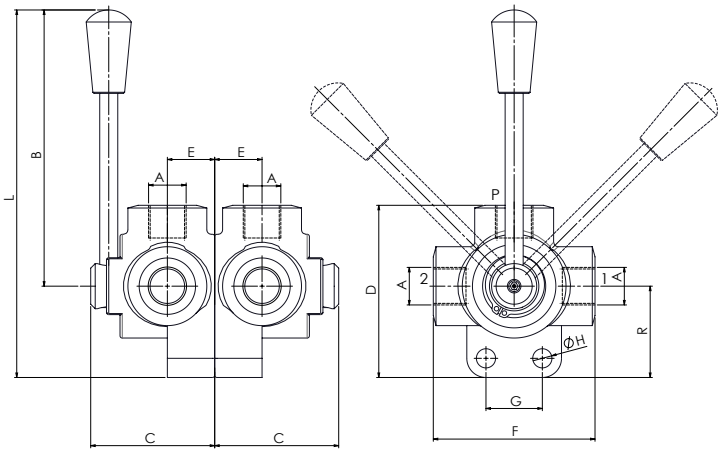


DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Trafilamento massimo Max leakage	**7 gocce al min.** 7 drops-min	**200 bar** 2900 PSI



mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

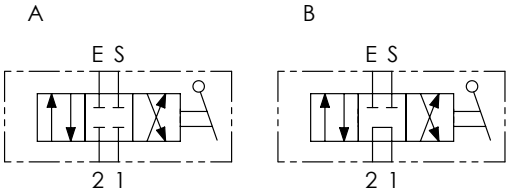
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	R	PESO APPROX APPROX WEIGHT kg-lbt
DDF6SAE8	**3/4-16UNF**	**60+60** (15.8+15.8)	**350** (5075)	**115** (4.53)	**57** (2.24)	**75,5** (2.97)	**21** (0.83)	**70** (2.76)	**25** (0.98)	**8,5** (0.33)	**155,5** (6.12)	**32** (1.26)	**1,5** (3.3)
DDF6SAE10	**7/8-14UNF**	**90+90** (23.8+23.8)			**63** (2.48)	**86** (3.38)	**24** (0.95)	**80** (3.15)			**161** (6.34)	**36** (1.42)	**2,6** (5.7)
DDF6SAE12	**1-1/16-12UN**	**120+120** (31.7+31.7)			**67** (2.64)	**98,5** (3.88)	**26** (1.02)	**90** (3.54)	**32** (1.26)	**10,5** (0.41)	**168,5** (6.63)	**42** (1.65)	**3,4** (7.5)
DDF6SAE16	**1-5/16-12UN**	**200+200** (52.8+52.8)	**300** (4000)		**77** (3.03)	**110** (4.33)	**31** (1.22)	**98** (3.86)			**176,5** (6.95)	**50** (1.97)	**5,3** (12)

CODICE ORDINAZIONE / ORDERING CODE

01	02	03
IDF4		

01	DEVIATORI DI FLUSSO A 4 VIE (4 WAYS FLOW DIVERTERS)		**IDF4**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
03	SCHEMA (CIRCUIT)	**Centro chiuso** (Closed centre)	**A**
		Centro aperto (Open centre)	**B**

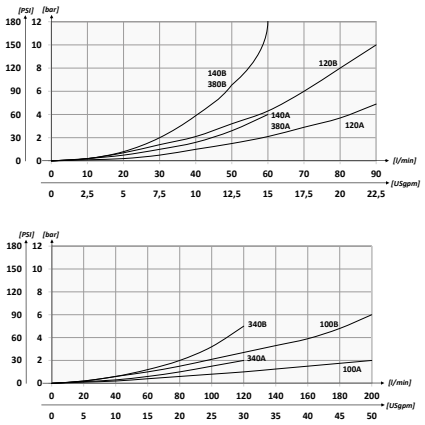
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

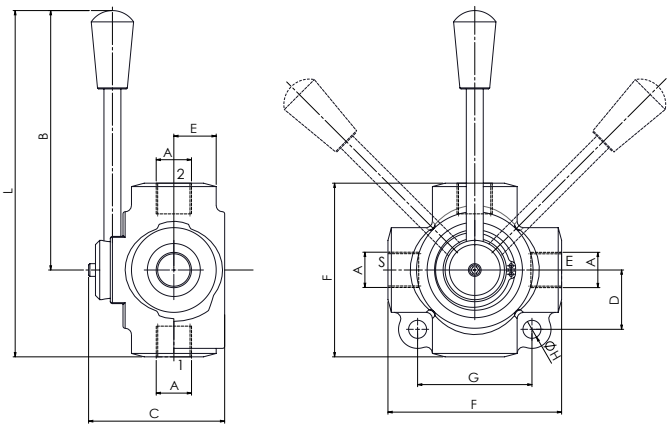


DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)		
Trafilamento massimo Max leakage	**7 gocce al min.** 7 drops-min	**200 bar** 2900 PSI

PERFORMANCES





mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	PESO APPROX (kg) APPROX WEIGHT (lbt)
IDF4140	BSPP 1/4	60 (15.8)	350 (5075)	115 (4.53)	63 (2.48)	28 (1.10)	24 (0.94)	80 (3.15)	54 (2.13)	8,5 (0.33)	155 (6.10)	1,3 (2.8)
IDF4380	BSPP 3/8											
IDF4120	BSPP 1/2	90 (23.8)										1,87 (4.06)
IDF4340	BSPP 3/4	120 (31.7)							74 (2.91)	10,5 (0.41)	162 (6.38)	2,8 (6.1)
IDF4100	BSPP 1	200 (52.8)	300 (4350)		77 (3.03)	38 (1.50)	31 (1.22)	94 (3.70)				2,5 (5.51)

Aggiornamento - Update 20V-2020

CODICE ORDINAZIONE / ORDERING CODE

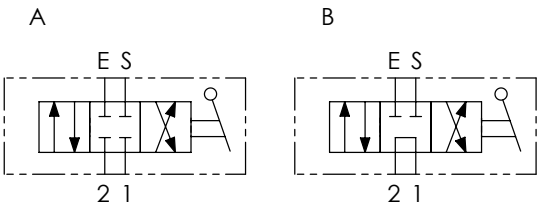
01	02	03
IDF4SAE		

01	DEVIATORI DI FLUSSO A 4 VIE (4 WAYS FLOW DIVERTERS)		**IDF4SAE**
02	DIMENSIONE (SIZE)	3/4-16UNF	**8**
		7/8-14UNF	**10**
		1-1/16-12UN	**12**
		1-5/16-12UN	**16**
03	SCHEMA (CIRCUIT)	**Centro chiuso** (Closed centre)	**A**
		Centro aperto (Open centre)	**B**

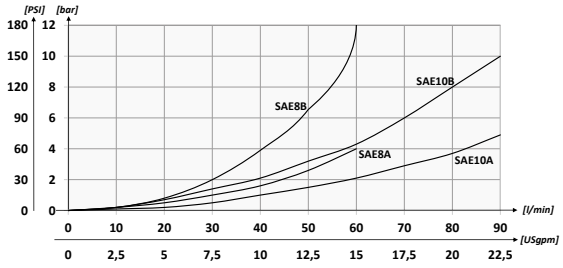
DATI TECNICI / TECHNICAL DATA

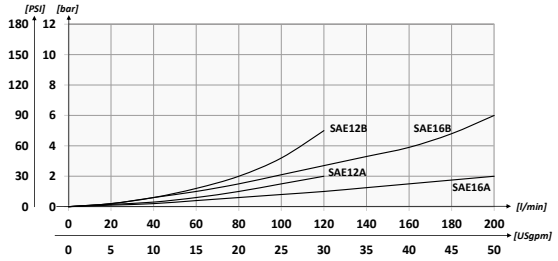
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	**7 gocce al min.** 7 drops-min — **200 bar** 2900 PSI

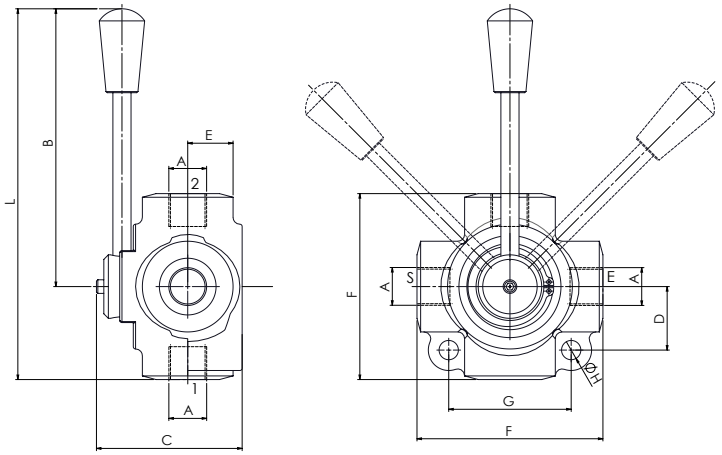
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES







CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

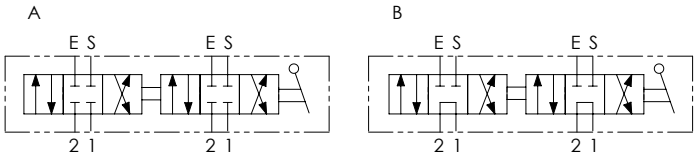
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	PESO APPROX APPROX WEIGHT kg-lbt
IDF4SAE8	**3/4-16UNF**	**60** (15.8)	**350** (5075)	**115** (4.53)	**63** (2.48)	**28** (1.10)	**24** (0.94)	**80** (3.15)	**54** (2.13)	**8,5** (0.33)	**155** (6.10)	**1,3** (2.8)
IDF4SAE10	**7/8-14UNF**	**90** (23.8)										
IDF4SAE12	**1-1/16-12UN**	**120** (31.7)							**74** (2.91)			**2,8** (6.1)
IDF4SAE16	**1-5/16-12UN**	**200** (52.8)	**300** (4350)		**77** (3.03)	**38** (1.50)	**31** (1.22)	**94** (3.70)		**10,5** (0.41)	**162** (6.38)	**2** (4.4)

CODICE ORDINAZIONE / ORDERING CODE

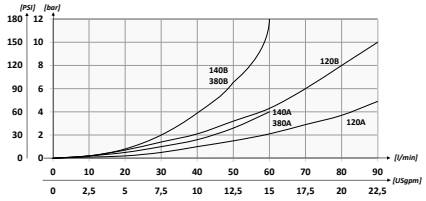
01	02	03
IDF8		

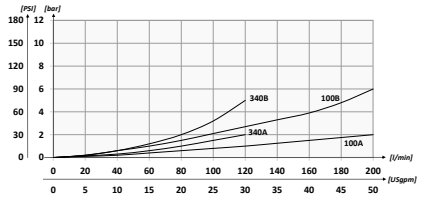
01	DEVIATORI DI FLUSSO A 8 VIE (8 WAYS FLOW DIVERTERS)		**IDF8**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
03	SCHEMA (CIRCUIT)	**Centro chiuso** (Closed centre)	**A**
		Centro aperto (Open centre)	**B**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES



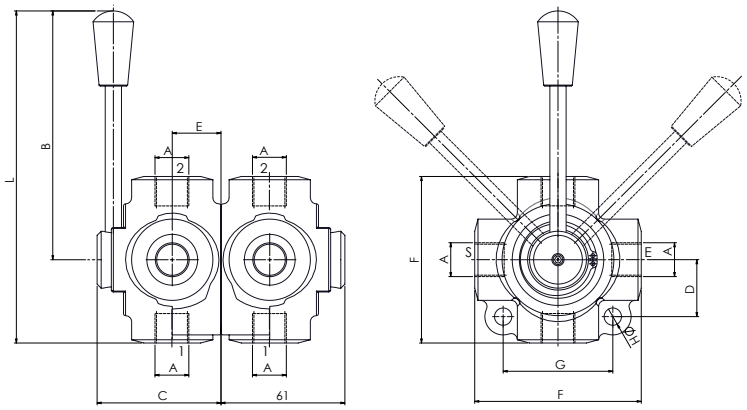


DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Trafilamento massimo Max leakage	**7 gocce al min.** 7 drops-min	**200 bar** 2900 PSI



mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	PESO APPROX (kg) APPROX WEIGHT (lbt)
IDF8140	BSPP 1/4	**60+60** (15.8+15.8)	**350** (5075)	**115** (4.53)	**63** (2.48)	**28** (1.10)	**24** (0.94)	**80** (3.15)	**54** (2.13)	**8,5** (0.33)	**155** (6.10)	**2,70** (5.86)
IDF8380	BSPP 3/8											
IDF8120	BSPP 1/2	**90+90** (23.8+23.8)										**2,52** (5.47)
IDF8340	BSPP 3/4	**120+120** (31.7+31.7)							**74** (2.91)	**10,5** (0.41)	**162** (6.38)	**5,10** (11.07)
IDF8100	BSPP 1	**200+200** (52.8+52.8)	**300** (4000)		**77** (3.03)	**38** (1.50)	**31** (1.22)	**94** (3.70)				**4** (8.8)

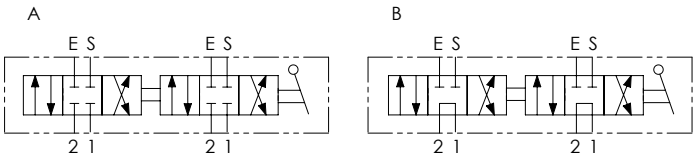
Aggiornamento - Update 20V-2020

CODICE ORDINAZIONE / ORDERING CODE

01	02	03
IDF8SAE		

01	DEVIATORI DI FLUSSO A 8 VIE (8 WAYS FLOW DIVERTERS)		**IDF8SAE**
02	DIMENSIONE (SIZE)	3/4-16UNF	**8**
		7/8-14UNF	**10**
		1-1/16-12UN	**12**
		1-5/16-12UN	**16**
03	SCHEMA (CIRCUIT)	**Centro chiuso** (Closed centre)	**A**
		Centro aperto (Open centre)	**B**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



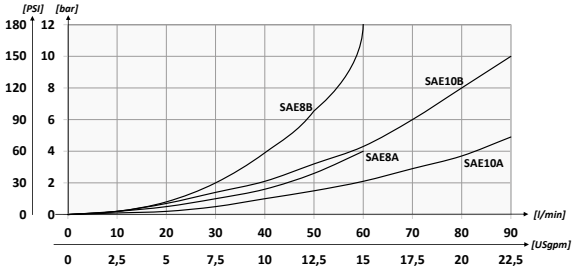
DATI TECNICI / TECHNICAL DATA

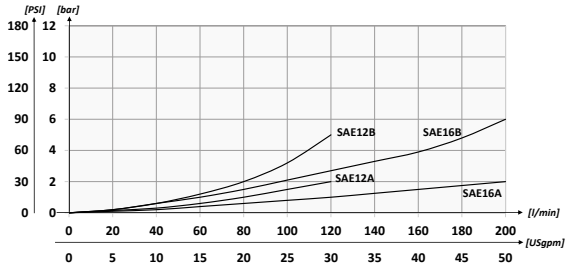
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

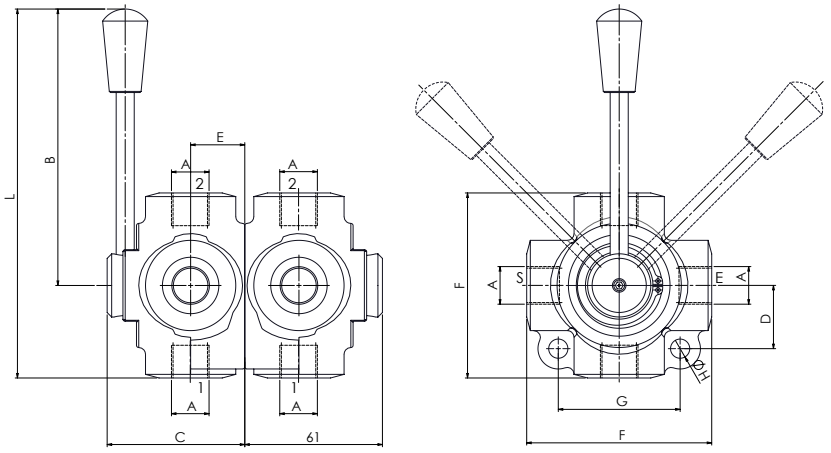
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Trafilamento massimo Max leakage	**7 gocce al min.** 7 drops-min	**200 bar** 2900 PSI

PERFORMANCES







mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	PESO APPROX APPROX WEIGHT kg-lbt
IDF8SAE8	**3/4-16UNF**	**60+60** (15.8+15.8)	**350** (5075)	**115** (4.53)	**63** (2.48)	**28** (1.10)	**24** (0.94)	**80** (3.15)	**54** (2.13)	**8,5** (0.33)	**155** (6.10)	**2,3** (5)
IDF8SAE10	**7/8-14UNF**	**90+90** (23.8+23.8)										**2,1** (4.6)
IDF8SAE12	**1-1/16-12UN**	**120+120** (31.7+31.7)							**74** (2.91)			**4,3** (9.5)
IDF8SAE16	**1-5/16-12UN**	**200+200** (52.8+52.8)	**300** (4350)		**77** (3.03)	**38** (1.50)	**31** (1.22)	**94** (3.70)		**10,5** (0.41)	**162** (6.38)	**4** (8.8)

notes

COMPONENTI E ACCESSORI

HYDRAULIC COMPONENTS

Valvole a sfera a 2, 3 e 4 vie, giunti girevoli, mini-prese di pressione ed esclusori manometro.

Ball valves 2, 3 or 4 ways, rotating couplings, pressure gauge shut-off valves and test couplings for pressure checking.

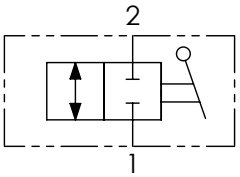
Oleoweb
HYDRAULIC VALVES AND COMPONENTS

CODICE ORDINAZIONE
ORDERING CODE

01	02	03
RAS2		

01	VALVOLE A SFERA A 2 VIE (2 WAYS BALL VALVES)		**RAS2**
02	DIMENSIONE (SIZE)	BSPP 1/8	**180**
		BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
		BSPP 1-1/4	**114**
		BSPP 1-1/2	**112**
03	OPTIONAL	Fori di fissaggio (Fixing ports)	**P**

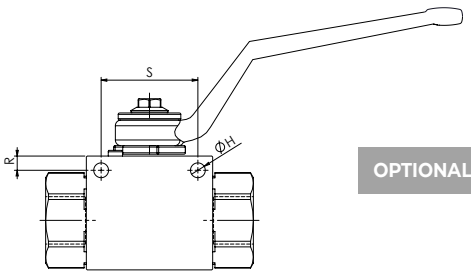
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



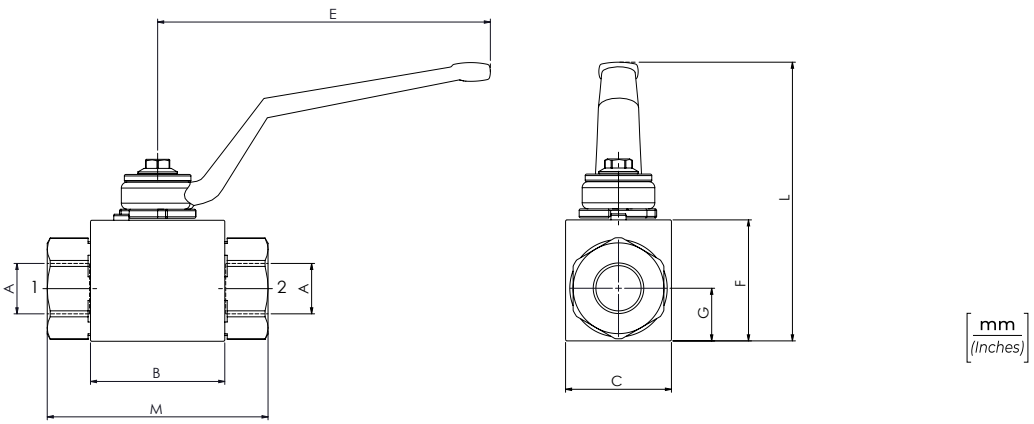
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



OPTIONAL



mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

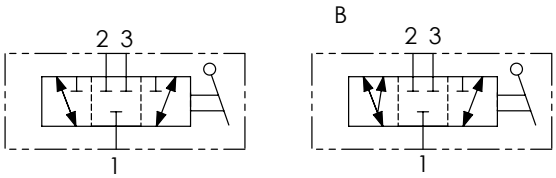
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	E	F	G	H	L	M	R	S	PESO APPROX APPROX WEIGHT kg-lbt
RAS2180	**BSPP 1/8**	**15** (4)	**500** (7250)	**42,4** (1.67)	**30** (1.18)	**110** (4.33)	**35** (1.38)	**14,5** (0.57)	**5,2** (0.20)	**91,5** (3.60)	**71** (2.80)	**4,5** (0.18)	**34** (1.34)	**0,5** (1.1)
RAS2140	**BSPP 1/4**	**25** (6.6)												
RAS2380	**BSPP 3/8**	**35** (9.2)		**44,4** (175)	**35** (1.38)		**40** (1.57)	**17,5**(0.69)		**96,5** (3.80)	**73** (2.87)			**0,7**(1.5)
RAS2120	**BSPP 1/2**	**60** (15.8)		**48,4** (1.91)	**37** (1.46)		**43** (1.69)	**18** (0.71)		**99,5** (3.92)	**83** (3.27)	**5** (0.20)	**36** (1.42)	**0,8** (1.8)
RAS2340	**BSPP 3/4**	**100** (26.4)	**400** (5800)	**62,5** (2.46)	**45** (1.77)	**180** (7.09)	**55** (2.17)	**23,5** (0.93)	**6,2** (0.24)	**106,5** (4.19)	**95** (3.74)	**6** (0.24)	**50** (1.97)	**1,5** (3.3)
RAS2100	**BSPP 1**	**150** (39.6)	**350** (5075)	**66,5** (2.62)	**55** (2.17)		**65** (2.56)	**29,5** (1.16)		**116,5** (4.59)	**112** (4.41)			**2,3** (5)
RAS2114	**BSPP 1-1/4**										**120** (4.72)			
RAS2112	**BSPP 1-1/2**										**124** (4.88)			**2,5** (5.5)

CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
RAS3			

01	VALVOLE A SFERA A 3 VIE (3 WAYS BALL VALVES)		**RAS3**
02	DIMENSIONE (SIZE)	BSPP 1/8	**180**
		BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
		BSPP 1-1/4	**114**
		BSPP 1-1/2	**112**
03	SCHEMA (CIRCUIT)	STANDARD	**/**
		SCHEMA B	**B**
04	OPTIONAL	Fori di fissaggio (Fixing ports)	**P**

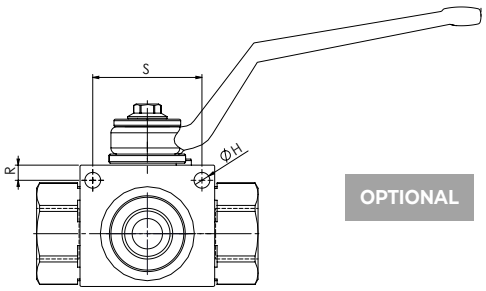
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



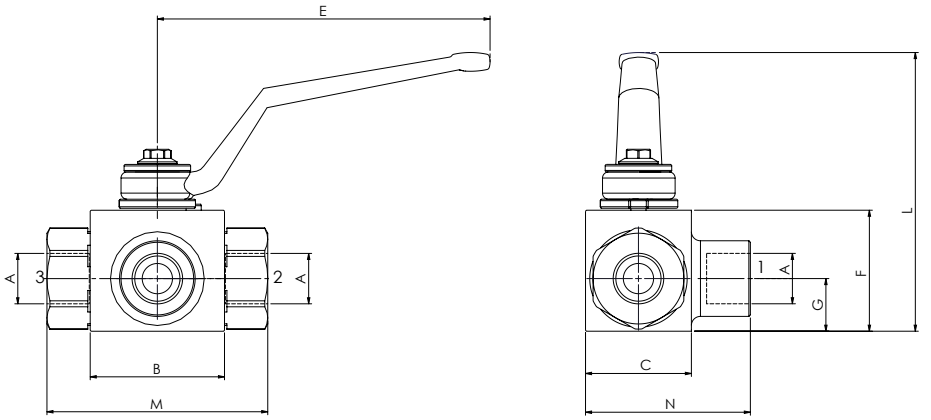
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



OPTIONAL

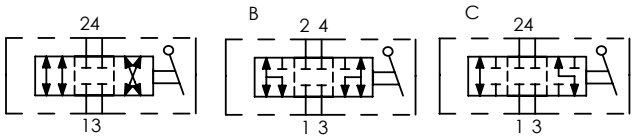


mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	E	F	G	H	L	M	N	R	S	PESO APPROX APPROX WEIGHT kg-lbt
RAS3180	BSPP 1/8	15 (4)	400 (5800)	42,4 (1.67)	30 (1.18)	110 (4.33)	35 (1.38)	14,5 (0.57)	5,2 (0.20)	91,5 (3.60)	71 (2.80)	48,5 (1.91)	4,5 (0.18)	34 (1.34)	0,6 (1.3)
RAS3140	BSPP 1/4	25 (6.6)													
RAS3380	BSPP 3/8	35 (9.2)		44,4 (175)	35 (1.38)		40 (1.57)	17,5(0.69)		96,5 (3.80)	73 (2.87)	54,5 (2.15)	5 (0.20)	36 (1.42)	0,7(1.5)
RAS3120	BSPP 1/2	60 (15.8)		48,4 (1.91)	37 (1.46)		43 (1.69)	18 (0.71)		99,5 (3.92)	83 (3.27)	58,5 (2.30)	6 (0.24)	50 (1.97)	0,8 (1.8)
RAS3340	BSPP 3/4	100 (26.4)		62,5 (2.46)	45 (1.77)	180 (7.09)	55 (2.16)	23,5 (0.93)	6,2 (0.24)	106,5 (4.19)	95 (3.74)	75 (2.95)			1,6 (3.5)
RAS3100	BSPP 1	150 (89.6)	350 (5075)	66,5 (2.62)	55 (2.17)		65 (2.56)	29,5 (1.16)		116,5 (4.59)	112 (4.41)	87,5 (3.44)			2,4 (5.3)
RAS3114	BSPP 1-1/4										120 (4.72)				2,6 (5.7)
RAS3112	BSPP 1-1/2										124 (4.88)				2,8 (6)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

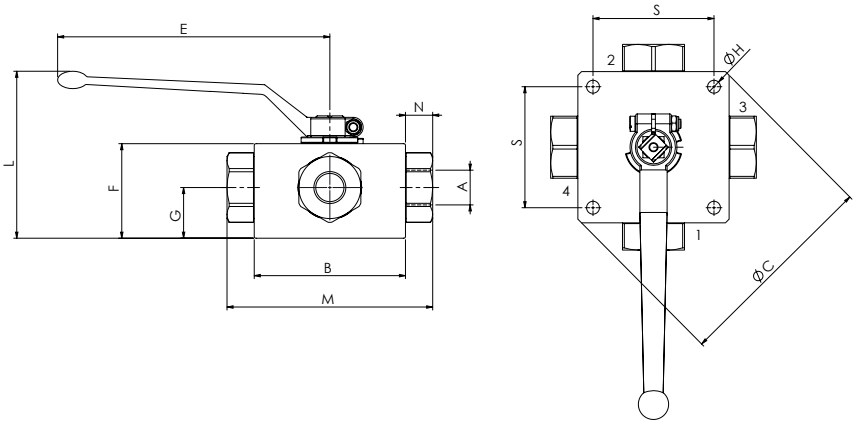
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
RAS4			**P**

01	VALVOLE A SFERA A 4 VIE (4 WAYS BALL VALVES)		**RAS4**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
		BSPP 1-1/4	**114**
		BSPP 1-1/2	**112**
03	SCHEMA (CIRCUIT)	STANDARD	**/**
		SCHEMA B	**B**
		SCHEMA **C**	**C**
04	STANDARD	Fori di fissaggio (Fixing ports)	**P**

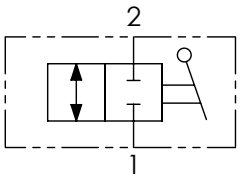


mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	E	F	G	H	L	M	N	S	PESO APPROX APPROX WEIGHT kg-lbt
RAS4140	**BSPP 1/4**	**25** (6.6)	**500** (7250)	**70** (2.76)		**110** (4.33)	**42** (1.65)	**21,5** (0.85)	**6,5** (0.26)	**97,5** (3.84)	**100** (3.94)	**15,5** (0.61)	**55** (2.17)	**1,80** (3.96)
RAS4380	**BSPP 3/8**	**35** (9.2)	**400** (5800)	**80** (3.15)	/	**180** (7.09)	**53** (2.09)	**28,5** (1.12)		**101** (3.98)	**115** (4.53)		**65** (2.56)	**3** (6.60)
RAS4120	**BSPP 1/2**	**60** (15.8)		**100** (3.94)			**62** (2.44)	**33** (1.30)		**110** (4.33)	**136** (5.35)	**17** (0.67)	**80** (3.15)	**5,2** (11.44)
RAS4340	**BSPP 3/4**	**100** (26.4)		**113** (4.45)			**68** (2.68)	**36** (1.42)		**116,5** (4.59)	**156** (6.14)	**21** (0.83)		**6,9** (15.18)
RAS4100	**BSPP 1**		**350** (5075)						**8,5** (0.33)					**9** (19.80)
RAS4114	**BSPP 1-1/4**	**150** (89.6)		**118** (4.65)	**138** (5.43)	**300** (11.81)	**82** (3.23)	**47,5** (1.87)		**130,5** (5.14)	**181** (7.13)	**24** (0.94)	**85** (3.35)	
RAS4112	**BSPP 1-1/2**													**9,2** (20.24)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



CODICE ORDINAZIONE
ORDERING CODE

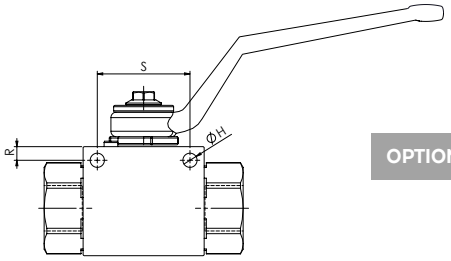
01	02	03	04
RAS2		**NPT**	

01	VALVOLE A SFERA A 2 VIE (2 WAYS BALL VALVES)		**RAS2**
02	DIMENSIONE (SIZE)	NPT 1/8	**180**
		NPT 1/4	**140**
		NPT 3/8	**380**
		NPT 1/2	**120**
		NPT 3/4	**340**
		NPT 1	**100**
		NPT 1-1/4	**114**
		NPT 1-1/2	**112**
03	FILETTATURA (THREAD)	NPT	**NPT**
04	OPTIONAL	Fori di fissaggio (Fixing ports)	**P**

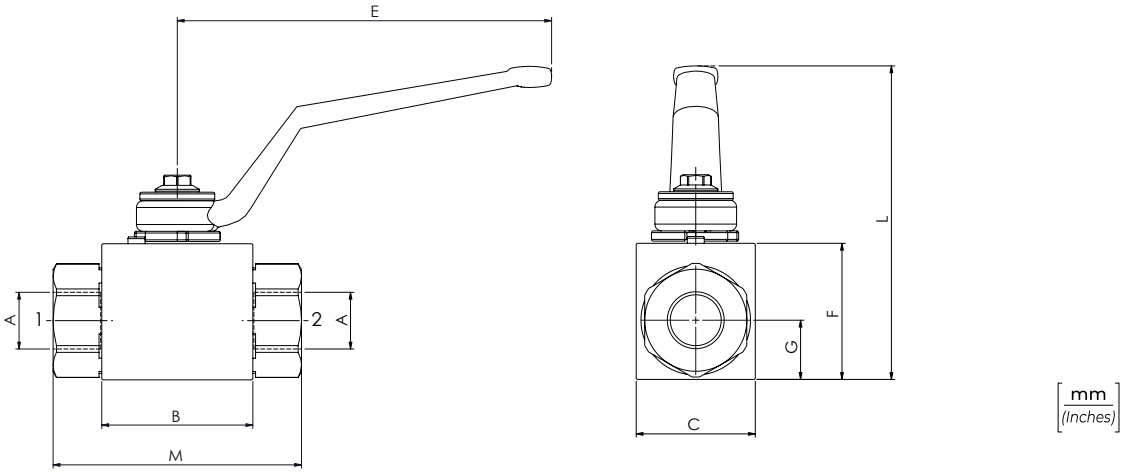
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



OPTIONAL



mm
(Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	E	F	G	H	L	M	R	S	PESO APPROX APPROX WEIGHT kg-lbt
RAS2180NPT	**NPT 1/8**	**15** (4)	**500** (7250)	**42,4** (1.67)	**30** (1.18)	**110** (4.33)	**35** (1.38)	**14,5** (0.57)	**5,2** (0.20)	**91,5** (3.60)	**71** (2.80)	**4,5** (0.18)	**34** (1.34)	**0,5** (1.1)
RAS2140NPT	**NPT 1/4**	**25** (6.6)												
RAS2380NPT	**NPT 3/8**	**35** (9.2)		**44,4** (175)	**35** (1.38)		**40** (1.57)	**17,5**(0.69)		**96,5** (3.80)	**73** (2.87)			**0,7**(1.5)
RAS2120NPT	**NPT 1/2**	**60** (15.8)		**48,4** (1.91)	**37** (1.46)		**43** (1.69)	**18** (0.71)		**99,5** (3.92)	**83** (3.27)	**5** (0.20)	**36** (1.42)	**0,8** (1.8)
RAS2340NPT	**NPT 3/4**	**100** (26.4)	**400** (5800)	**62,5** (2.46)	**45** (1.77)	**180** (7.09)	**55** (2.17)	**23,5** (0.93)	**6,2** (0.24)	**106,5** (4.19)	**95** (3.74)	**6** (0.24)	**50** (1.97)	**1,5** (3.3)
RAS2100NPT	**NPT 1**	**150** (39.6)	**350** (5075)	**66,5** (2.62)	**55** (2.17)		**65** (2.56)	**29,5** (1.16)		**116,5** (4.59)	**112** (4.41)			**2,3** (5)
RAS2114NPT	**NPT 1-1/4**										**120** (4.72)			
RAS2112NPT	**NPT 1-1/2**										**124** (4.88)			**2,5** (5.5)

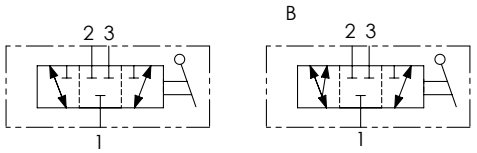
RAS3-NPT VALVOLE A SFERA A 3 VIE
3 WAYS BALL VALVES

CODICE ORDINAZIONE
ORDERING CODE

01	02	03	04	05
RAS3		NPT		

01	VALVOLE A SFERA A 3 VIE (3 WAYS BALL VALVES)		**RAS3**
02	DIMENSIONE (SIZE)	NPT 1/8	**180**
		NPT 1/4	**140**
		NPT 3/8	**380**
		NPT 1/2	**120**
		NPT 3/4	**340**
		NPT 1	**100**
		NPT 1-1/4	**114**
		NPT 1-1/2	**112**
03	FILETTATURA (THREAD)	NPT	**NPT**
04	SCHEMA (CIRCUIT)	Standard	**/**
		Schema B	**B**
05	OPTIONAL	Fori di fissaggio (Fixing ports)	**P**

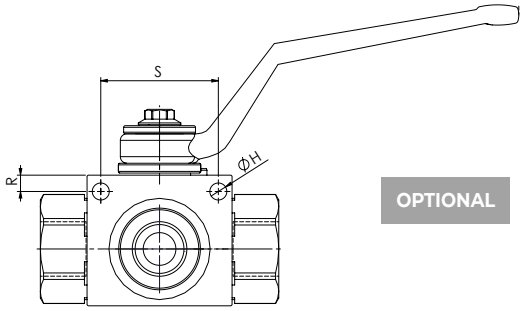
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



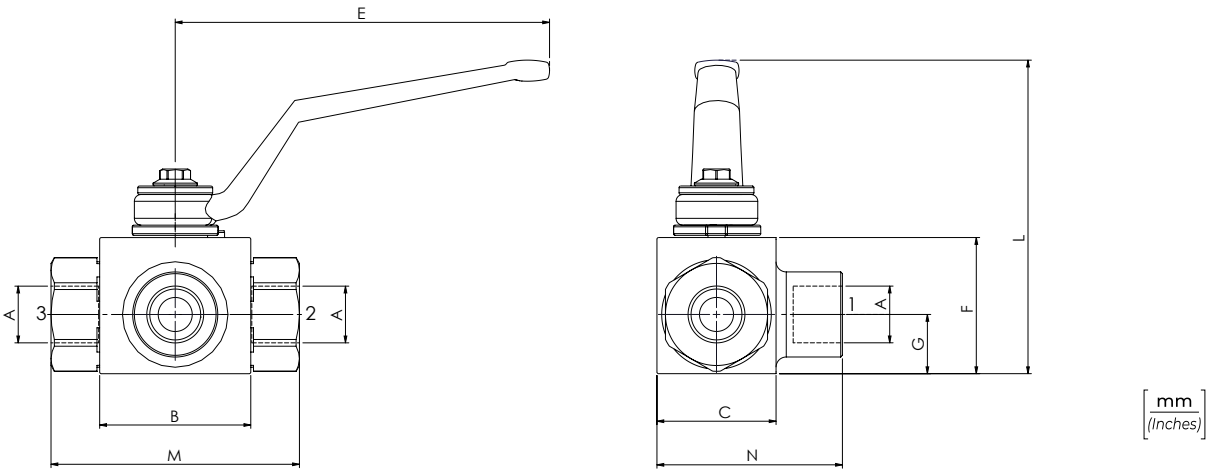
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



OPTIONAL

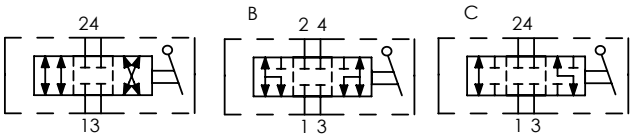


CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	E	F	G	H	L	M	N	R	S	PESO APPROX APPROX WEIGHT kg-lbt
RAS3180NPT	**NPT 1/8**	**15** (4)	**400** (5800)	**42,4** (1.67)	**30** (1.18)	**110** (4.33)	**35** (1.38)	**14,5** (0.57)	**5,2** (0.20)	**91,5** (3.60)	**71** (2.80)	**48,5** (1.91)	**4,5** (0.18)	**34** (1.34)	**0,6** (1.3)
RAS3140NPT	**NPT 1/4**	**25** (6.6)													
RAS3380NPT	**NPT 3/8**	**35** (9.2)		**44,4** (175)	**35** (1.38)		**40** (1.57)	**17,5**(0.69)		**96,5** (3.80)	**73** (2.87)	**54,5** (2.15)	**5** (0.20)	**36** (1.42)	**0,7**(1.5)
RAS3120NPT	**NPT 1/2**	**60** (15.8)	**350** (5075)	**48,4** (1.91)	**37** (1.46)		**43** (1.69)	**18** (0.71)		**99,5** (3.92)	**83** (3.27)	**58,5** (2.30)	**6** (0.24)	**50** (1.97)	**0,8** (1.8)
RAS3340NPT	**NPT 3/4**	**100** (26.4)		**62,5** (2.46)	**45** (1.77)	**180** (7.09)	**55** (2.16)	**23,5** (0.93)	**6,2** (0.24)	**106,5** (4.19)	**95** (3.74)	**75** (2.95)			**1,6** (3.5)
RAS3100NPT	**NPT 1**			**66,5** (2.62)	**55** (2.17)		**65** (2.56)	**29,5** (1.16)		**116,5** (4.59)	**112** (4.41)	**87,5** (3.44)			**2,4** (5.3)
RAS3114NPT	**NPT 1-1/4**	**150** (89.6)									**120** (4.72)				**2,6** (5.7)
RAS3112NPT	**NPT 1-1/2**										**124** (4.88)				**2,8** (6)

Aggiornamento - Update 20V-2020

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

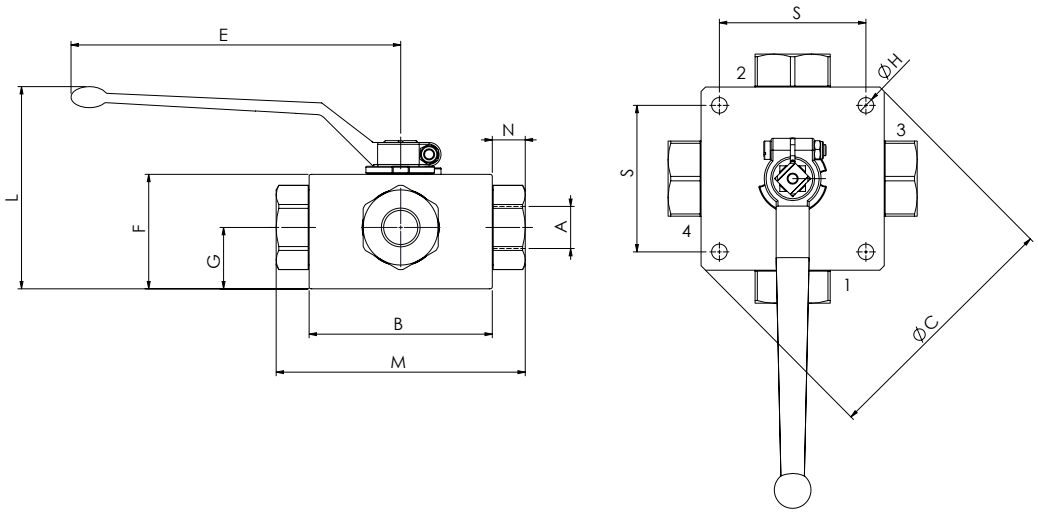
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04	05
RAS4		**NPT**		**P**

01	VALVOLE A SFERA A 4 VIE (4 WAYS BALL VALVES)		**RAS4**
02	DIMENSIONE (SIZE)	NPT 1/4	**140**
		NPT 3/8	**380**
		NPT 1/2	**120**
		NPT 3/4	**340**
		NPT 1	**100**
		NPT 1-1/4	**114**
		NPT 1-1/2	**112**
03	FILETTATURA (THREAD)	NPT	**NPT**
04	SCHEMA (CIRCUIT)	Standard	**/**
		Schema B	**B**
		Schema C	**C**
05	STANDARD	Fori di fissaggio (Fixing ports)	**P**



mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	E	F	G	H	L	M	N	S	PESO APPROX APPROX WEIGHT kg-lbt
RAS4140NPT	**NPT 1/4**	**25** (6.6)	**500** (7250)	**70** (2.76)	/	**110** (4.33)	**42** (1.65)	**21,5** (0.85)	**6,5** (0.26)	**97,5** (3.84)	**100** (3.94)	**15,5** (0.61)	**55** (2.17)	**1,80** (3.96)
RAS4380NPT	**NPT 3/8**	**35** (9.2)	**400** (5800)	**80** (3.15)		**180** (7.09)	**53** (2.09)	**28,5** (1.12)		**101** (3.98)	**115** (4.53)		**65** (2.56)	**3** (6.60)
RAS4120NPT	**NPT 1/2**	**60** (15.8)	**350** (5075)	**100** (3.94)			**62** (2.44)	**33** (1.30)	**8,5** (0.33)	**110** (4.33)	**136** (5.35)	**17** (0.67)	**80** (3.15)	**5,2** (11.44)
RAS4340NPT	**NPT 3/4**	**100** (26.4)		**113** (4.45)			**68** (2.68)	**36** (1.42)		**116,5** (4.59)	**156** (6.14)	**21** (0.83)	**85** (3.35)	**6,9** (15.18)
RAS4100NPT	**NPT 1**	**150** (89.6)		**118** (4.65)	**138** (5.43)	**300** (11.81)	**82** (3.23)	**47,5** (1.87)		**130,5** (5.14)	**181** (7.13)	**24** (0.94)		**9** (19.80)
RAS4114NPT	**NPT 1-1/4**													
RAS4112NPT	**NPT 1-1/2**													**9,2** (20.24)

CODICE ORDINAZIONE / ORDERING CODE

01	02
GGIL	

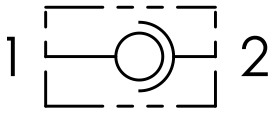
01	GIUNTI GIREVOLI IN LINEA (IN-LINE ROTATING COUPLINGS)		**GGIL**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



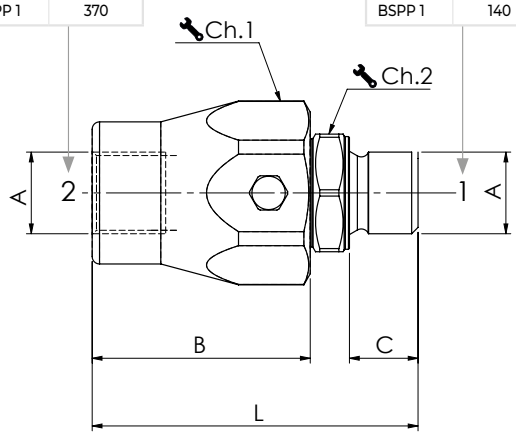
COPPIE DI SERRAGGIO RACCORDO
TIGHTENING TORQUES FOR STUD

②	Nm
BSPP 1/4	40
BSPP 3/8	90
BSPP 1/2	120
BSPP 3/4	210
BSPP 1	370

COPPIE DI SERRAGGIO FEMMINA GIREVOLE 60°
60° FEMALE SWIVEL ENDS TIGHTENING TORQUE VALUES

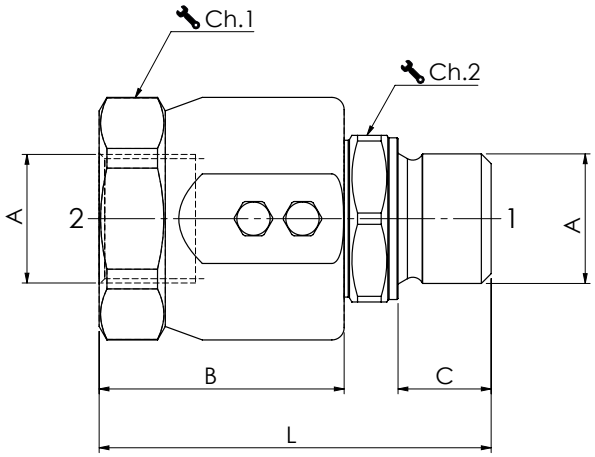
①	Nm
BSPP 1/4	20
BSPP 3/8	35
BSPP 1/2	60
BSPP 3/4	115
BSPP 1	140

GGIL140
GGIL380
GGIL120



mm
(Inches)

GGIL340
GGIL100



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PRESSIONE MAX IN ROTAZIONE MAX ROTATION PRESSURE bar-PSI	VELOCITÀ MAX DI ROTAZIONE MAX ROTATION SPEED rev-min	B	C	Ch. 1	Ch. 2	L	PESO APPROX APPROX WEIGHT kg-lbt
GGIL140	**BSPP 1/4**	**25** (6.6)	**400** (5800)	**200** (2900)	**212**	**42** (1.65)	**11** (0.43)	**30**	**19**	**61** (2.40)	**0,21** (0.46)
GGIL380	**BSPP 3/8**	**35** (9.2)			**173**	**44** (1.73)	**14** (0.55)	**34**	**24**	**66** (2.60)	**0,27** (0.60)
GGIL120	**BSPP 1/2**	**60** (15.8)	**300** (4350)	**150** (2175)	**160**	**47** (1.85)	**15** (0.59)	**36**	**27**	**71** (2.80)	**0,34** (0.75)
GGIL340	**BSPP 3/4**	**100** (26.4)			**120**	**50** (1.97)	**19** (0.75)	**45**	**34**	**80** (3.15)	**0,66** (1.45)
GGIL100	**BSPP 1**	**180** (47.5)		**100** (1450)	**100**	**57** (2.24)	**21** (0.83)	**50**	**41**	**90** (3.54)	**0,90** (1.98)

Aggiornamento - Update 20V-2020

CODICE ORDINAZIONE
ORDERING CODE

01	02
GG90	

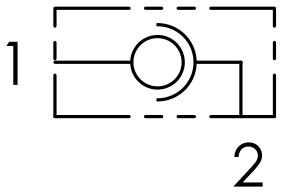
01	GIUNTI GIREVOLI A 90° (90° ROTATING COUPLINGS)		**GG90**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



COPPIE DI SERRAGGIO RACCORDO
TIGHTENING TORQUES FOR STUD

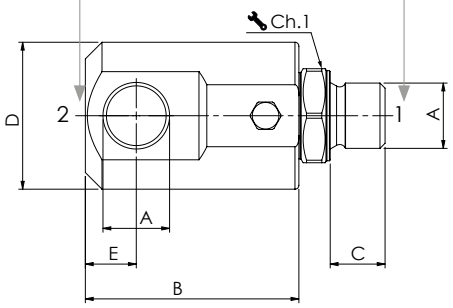
②	Nm
BSPP 1/4	40
BSPP 3/8	90
BSPP 1/2	120
BSPP 3/4	210
BSPP 1	370

COPPIE DI SERRAGGIO FEMMINA GIREVOLE 60°
60° FEMALE SWIVEL ENDS TIGHTENING TORQUE VALUES

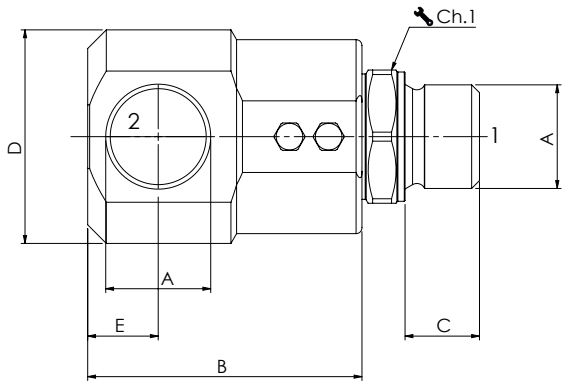
①	Nm
BSPP 1/4	20
BSPP 3/8	35
BSPP 1/2	60
BSPP 3/4	115
BSPP 1	140

mm (Inches)

GG90140 GG90380 GG90120

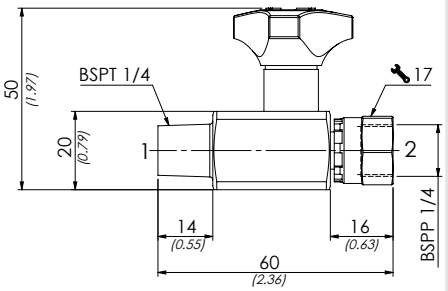


GG90340 GG90100



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

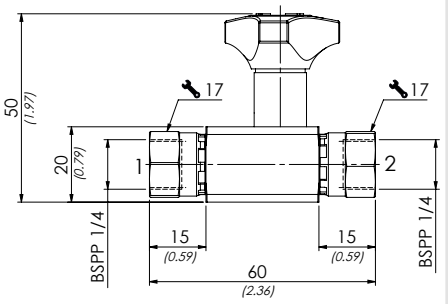
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PRESSIONE MAX IN ROTAZIONE MAX ROTATION PRESSURE bar-PSI	VELOCITÀ MAX DI ROTAZIONE MAX ROTATION SPEED rev-min	B	C	D	E	L	Ch. 1	Peso Approx Approx weight kg-lbt
GG90140	**BSPP 1/4**	**25** (6.6)	**400** (5800)	**200** (2900)	**212**	**50** (1.97)	**11** (0.43)	**33,5** (1.32)	**11** (0.43)	**69** (2.71)	**19**	**0,31** (0.68)
GG90380	**BSPP 3/8**	**35** (9.2)			**173**	**54** (2.13)	**14** (0.55)	**37,5** (1.48)	**13** (0.51)	**76** (2.99)	**24**	**0,41** (0.90)
GG90120	**BSPP 1/2**	**60** (15.8)	**300** (4350)	**150** (2175)	**160**	**63** (2.48)	**15** (0.59)	**39,5** (1.56)	**14** (0.55)	**87** (3.43)	**27**	**0,52** (1.15)
GG90340	**BSPP 3/4**	**100** (26.4)			**120**	**70** (2.76)	**19** (0.75)	**54,5** (2.15)	**18** (0.71)	**100** (3.94)	**34**	**0,96** (2.11)
GG90100	**BSPP 1**	**180** (47.5)		**100** (1450)	**100**	**80** (3.15)	**21** (0.83)	**59** (2.32)	**25** (0.98)	**113** (4.45)	**41**	**1,25** (2.75)



mm
(Inches)

CODICE ORDINAZIONE
ORDERING CODE

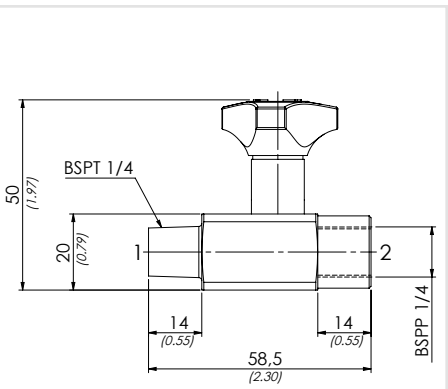
SOV1400



mm
(Inches)

CODICE ORDINAZIONE
ORDERING CODE

SOV1400FF



mm
(Inches)

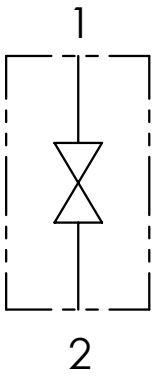
CODICE ORDINAZIONE
ORDERING CODE

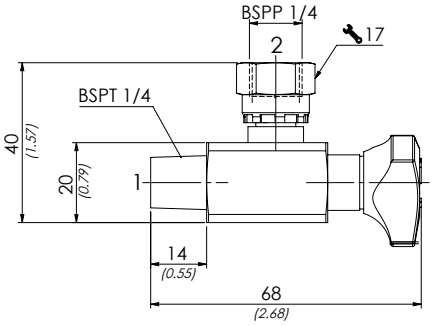
SOV1400MF

DATI TECNICI / TECHNICAL DATA

Olio idraulico Mineral oil	**ISO 6743/4** DIN 51524
Viscosità olio Oil viscosity	**15-250 mm²/s** 45 to 2000 ssu (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 - Classe 19/17/14**
Temperatura dell'olio Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente Environment temperature	**-20°C +50°C** -4°F + 122°F
Pressione max (bar) Max pressure (PSI)	**400** (5800)
Peso Approx (kg) Approx weight (lb)	**0,15** (0.33)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





mm
(Inches)

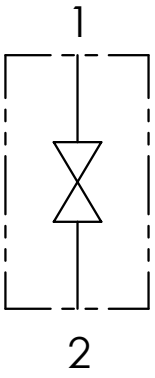
CODICE ORDINAZIONE
ORDERING CODE

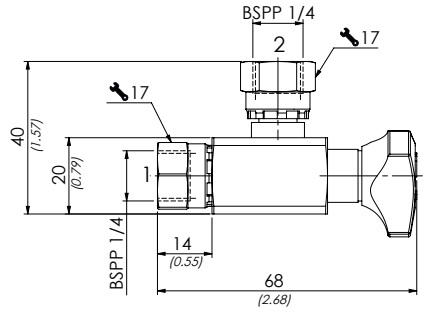
SOV1490

DATI TECNICI / TECHNICAL DATA

Olio idraulico Mineral oil	**ISO 6743/4** DIN 51524
Viscosità olio Oil viscosity	**15-250 mm²/s** 45 to 2000 ssu (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 - Classe 19/17/14**
Temperatura dell'olio Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente Environment temperature	**-20°C +50°C** -4°F + 122°F
Pressione max (bar) Max pressure (PSI)	**400** (5800)
Peso Approx (kg) Approx weight (lb)	**0,15** (0.33)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

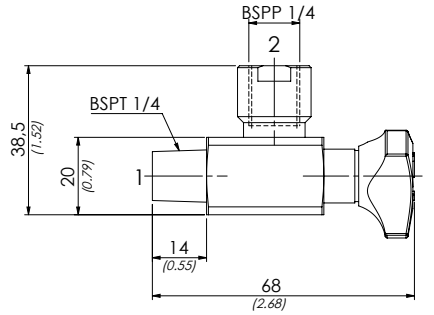




mm
(Inches)

CODICE ORDINAZIONE
ORDERING CODE

SOV1490FF



mm
(Inches)

CODICE ORDINAZIONE
ORDERING CODE

SOV1490MF

MNP-BSPP MINIPRESE PROVA PRESSIONE
TEST COUPLINGS FOR PRESSURE CHECKING

CODICE ORDINAZIONE
ORDERING CODE

01	02
MNP	

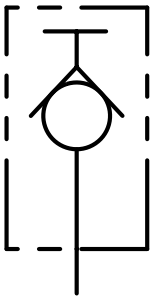
01	MINIPRESE PROVA PRESSIONE (TEST COUPLINGS FOR PRESSURE CHECKING)		**MNP**
02	DIMENSIONE (SIZE)	BSPP 1/8	**180**
		BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**

DATI TECNICI / TECHNICAL DATA

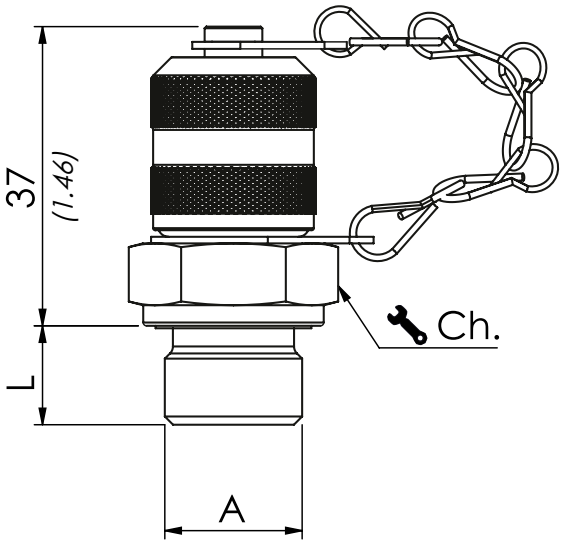
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



MINIPRESE
TEST COUPLINGS
M16X2



[mm / (Inches)]

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PRESSIONE MAX MAX PRESSURE bar-PSI	Ch. mm	L	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	PESO APPROX (kg) APPROX WEIGHT (lbt)
MNP180	**BSPP 1/8**	**630** (9135)	**17**	**8** (0.31)	**20** (14.6)	**0,07** (0.16)
MNP140	**BSPP 1/4**		**19**	**12** (0.47)	**30** (22)	**0,08** (0.18)
MNP380	**BSPP 3/8**		**22**	**12** (0.47)	**60** (44)	**0,10** (0.22)
MNP120	**BSPP 1/2**		**27**	**14** (0.55)	**80** (58.6)	**0,13** (0.29)

Aggiornamento - Update
20V-2020

CODICE ORDINAZIONE
ORDERING CODE

01	02
MNP	

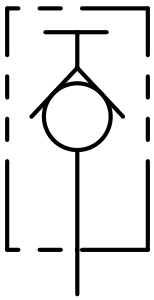
01	MINIPRESE PROVA PRESSIONE (TEST COUPLINGS FOR PRESSURE CHECKING)		**MNP**
02	DIMENSIONE (SIZE)	NPTF 1/8	**180N**
		NPTF 1/4	**140N**
		NPTF 3/8	**380N**
		NPTF 1/2	**120N**

DATI TECNICI / TECHNICAL DATA

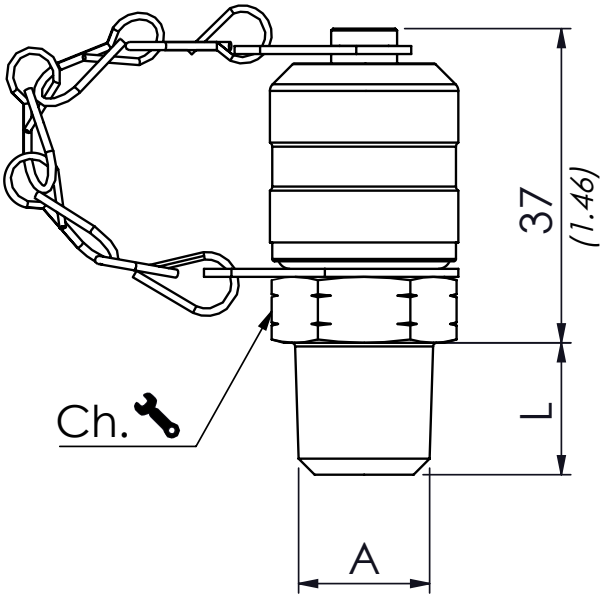
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



MINIPRESE
TEST COUPLINGS
M16X2



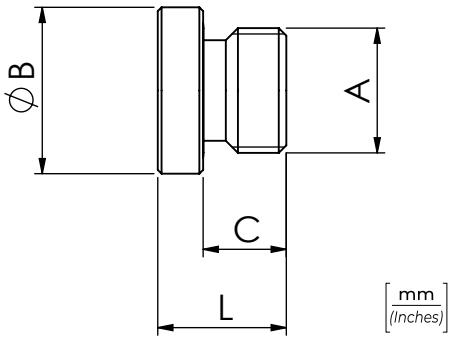
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

CODICE CODE	A	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	Ch. mm	L	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	PESO APPROX (kg) APPROX WEIGHT (lbt)
MNP180N	**NPTF 1/8**	**630** (9135)	**17**	**10** (0.39)	**20** (14.6)	**0,07** (0.16)
MNP140N	**NPTF 1/4**		**19**	**12** (0.47)	**30** (22)	**0,08** (0.18)
MNP380N	**NPTF 3/8**		**22**	**14** (0.55)	**60** (44)	**0,10** (0.22)
MNP120N	**NPTF 1/2**		**27**		**80** (58.6)	**0,13** (0.29)

CODICE ORDINAZIONE
ORDERING CODE

01	02
MNP	

01	TAPPI (PLUGS)	**83500001**	**BSPP 1/8**
		83500002	**BSPP 1/4**
		83500003	**BSPP 3/8**
		83500004	**BSPP 1/2**
		83500005	**BSPP 3/4**



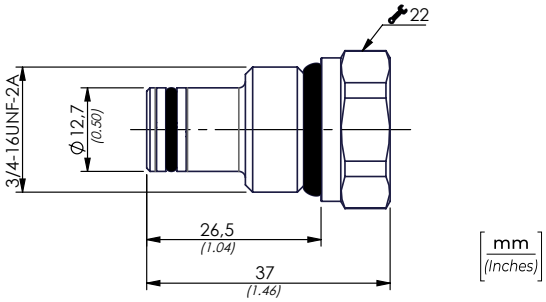
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

A	B	C	L	**PESO APPROX** (kg) APPROX WEIGHT (lbt)
BSPP 1/8	**15** (0.59)	**9** (0.35)	**13** (0.51)	**0,01** (0.022)
BSPP 1/4	**19** (0.75)	11 (0.43)	**16** (0.63)	**0,015** (0.033)
BSPP 3/8	**22** (0.87)	**11** (0.43)	**17** (0.67)	**0,03** (0.066)
BSPP 1/2	**27** (1.06)	**14** (0.55)	**20** (0.79)	**0,05** (0.11)
BSPP 3/4	**32** (1.26)			**0,07** (0.15)

TAPPO A - A PLUG

Peso approssimativo
(Approx weight)
0,07 kg (0.15 lb)

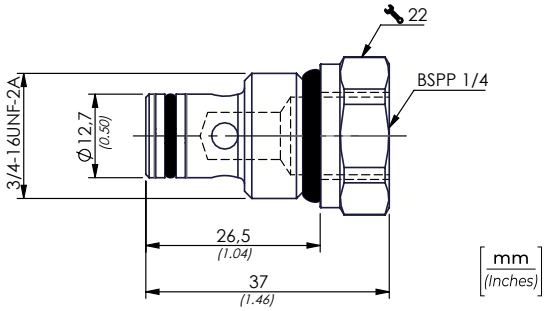
CODICE ORDINAZIONE - ORDERING CODE **11200001**



TAPPO B - A PLUG

Peso approssimativo
(Approx weight)
0,05 kg (0.11 lb)

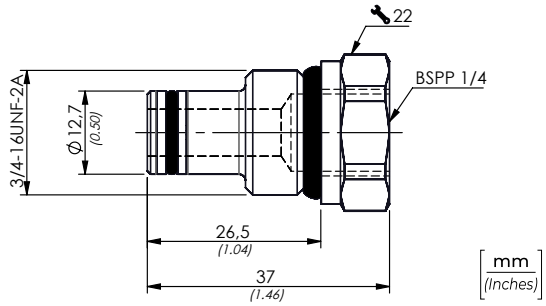
CODICE ORDINAZIONE - ORDERING CODE **12000162**



TAPPO C - A PLUG

Peso approssimativo
(Approx weight)
0,05 kg (0.11 lb)

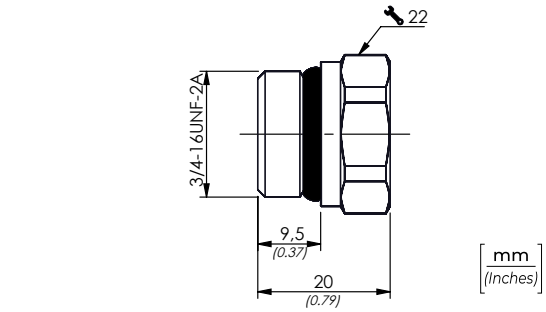
CODICE ORDINAZIONE - ORDERING CODE **12000182**



TAPPO D - A PLUG

Peso approssimativo
(Approx weight)
0,05 kg (0.11 lb)

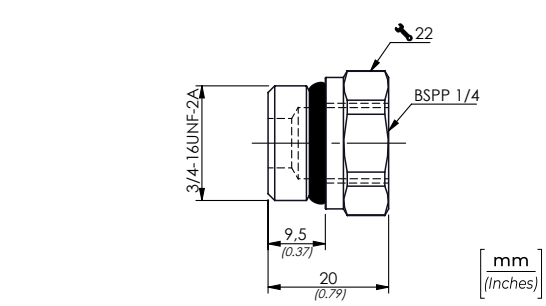
CODICE ORDINAZIONE - ORDERING CODE **12000184**



TAPPO E - A PLUG

Peso approssimativo
(Approx weight)
0,04 kg (0.088 lb)

CODICE ORDINAZIONE - ORDERING CODE **12000183**



APPLICAZIONI
APPLICATIONS

MACCHINARI AGRICOLI
AGRICULTURE AND SERVICE

ARATRI
PLOUGHS

FRESATRICI
ROTARY TILLERS

AUTOMEZZI RACCOLTA RIFIUTI
WASTE MACHINES

ERPICI ROTANTI
POWER HARROWS

MACCHINARI FORESTALI
FOREST MACHINES

TRINCIATRICI
MULCHERS

ROTOPRESSE
ROUND BALERS

MACCHINARI DA SEMINA
SEEDING MACHINES

BRACCI DECESPUGLIATORI
BOOM MOWERS

MACCHINARI SPARGISALE
SALT SPREADERS

ATOMIZZATORI
SPRAYERS

MACCHINARI INDUSTRIALI
INDUSTRIAL AND SERVICE MACHINERIES

SMONTAGOMME
TIRE CHANGERS

PRESSE
PRESSES

INSTALLAZIONI INDUSTRIALI
INDUSTRIAL INSTALLATIONS

NASTRI INDUSTRIALI
INDUSTRIAL TAPES

INSTALLAZIONI SOLARI ED EOLICHE
SOLAR AND WIND INSTALLATIONS

MACCHINARI MOVIMENTAZIONE TERRA E COSTRUZIONI
EARTH MOVING AND CONSTRUCTION MACHINERIES

GRU MOBILI
MOBILE CRANES

MINI PALE
SKID LOADERS

RUSPE
DOZERS

TRASPORTI INERTI
MINI DUMPERS

ESCAVATORI E MINI-ESCAVATORI
EXCAVATORS AND MINI-EXCAVATORS

MACCHINARI PER ASFALTI
ASPHALT MACHINES

CARICATORI CINGOLATI
CRAWLER CARRIES

ACCESSORI
ATTACHMENTS

APPLICAZIONI
APPLICATIONS

MACCHINARI PER TRASPORTO E SOLLEVAMENTO
LIFTING AND TRANSPORT MACHINERIES

MINI GRU
MINI CRANES

CARRELLI ELEVATORI
FORKLIFTS

MINI ELVEVATORI
MINI PICKERS

SCARRABILI MULTIBENNA
SKIP LOADERS

SOLLEVATORI POSTERIORI
TAIL LIFTS

SOLLEVATORI PER AUTO
CAR LIFTERS

GRU PER CAMION
TRUCK CRANES

SCARRABILI A GANCIO
HOOK LOADERS

PIATTAFORME AEREE
AERIAL PLATFORMS

UTENSILI
TOOLS

COMPONENTI IDRAULICI
HYDRAULIC COMPONENTS

MINI CENTRALINE
MINI-POWER PACKS

DISTRIBUTORI IDRAULICI
DCVS

IMPIANTI IDRAULICI
HYDRAULIC SYSTEMS

RICAMBI
SPARE PARTS

Aggiornamento - Update
20V-2020

2020 20V

- CATALOGO / CATALOGUE -

ACCIAIO INOSSIDABILE
STAINLESS STEEL

Valvole unidirezionali in linea, rubinetti a 2 e 3 vie, esclusori manometro, mini prese di pressione, pompe a mano e serbatoi.

Unidirectional flow control valves, ball valves 2 and 3 ways, pressure gauge shut-off valves, test coupling for pressure checking, hand pump and tank.

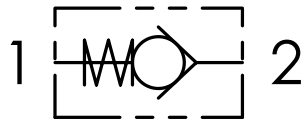
Oleoweb
HYDRAULIC VALVES AND COMPONENTS

Fluidi	Fluids	
Acetone	Acetone	**R**
Acetiene	Acetylene	**R**
Birra	Beer	**R**
Benzene	Benzene	**R**
Benzina	Benzine	**R**
Bitume	Bitumen	**R**
Cloroformio	Chloroform	**R**
Caffe	Coffee	**LR**
Olio Diesel	Diesel oil	**R**
Dimetilchetone	Dimethyl Ketone	**R**
Cloruro di Ferro	Ferric Chloride	**R**
Succo di frutta	Friut Juices	**R**
Gasolio	Gasoline	**R**
Gelatina	Gelatine	**R**
Glucosio	Glucose	**R**
Glicerina	Glycerine	**R**
Glicole	Glycol	**R**
Grasso	Grease	**R**
Inchiostro	Ink	**R**
Cherosene	Kerosene	**R**
Cloruro di magnesio	Magnesium Chloride	**LR**
Margarina	Margarine	**R**
Mercurio	Mercury	**R**
Latte	Milk	**R**
Nafta	Naphta	**R**
Naptalina	Naphtalene	**LR**
Olio di oliva	Olive oil	**R**
Olio di paraffina	Paraffin oil	**R**
Fenolo liquido	Phenol aqueous	**R**
Solfato di potassio	Potassium sulphate	**LR**
Acqua di mare	Sea water	**R**
Olio di silicone	Silicone oil	**R**
Cloruro di sodio 10%	Sodium chloride 10%	**LR**
Nitrato di sodio 10%	Sodium nitrate 10%	**R**
Solvente	Solvent	**R**
Urea liquido	Urea aqueous	**LR**
Vaselina	Vaseline	**R**
Olio vegetale	Vegetable oil	**R**
Acqua fredda	Water cold	**R**
Acqua distillata	Water distilled	**R**
Acqua calda	Water hot	**R**
Cloruro di zinco	Zinc Chloride 10 %	**LR**

Legenda/Legend		
Resistente	Resistant	**R**
Resistenza limitata	Limited Resistance	**LR**
Non Resistente	Not resistant	**-**

ACCIAIO INOSSIDABILE
STAINLESS STEEL

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



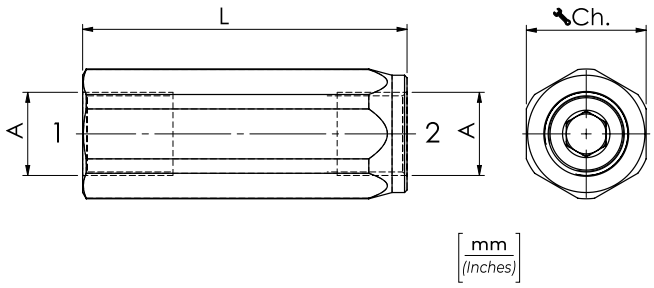
CODICE ORDINAZIONE
ORDERING CODE

01	02	03	04
XVUR			

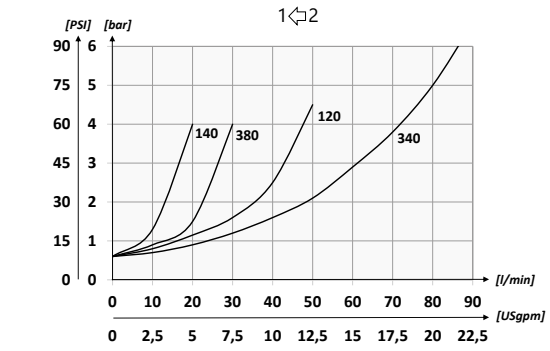
01	VALVOLE UNIDIREZIONALI A COLONNETTA F/F (F/F CHECK HOUSING VALVES)		**XVUR**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
		BSPP 1-1/4	**114**
		BSPP 1-1/2	**112**
03	TENUTA (SEALING)	Tenuta a cono (Poppet sealing)	**SP**
04	MOLLA (SPRING)	**1 bar** Standard (14.5 PSI)	**1**

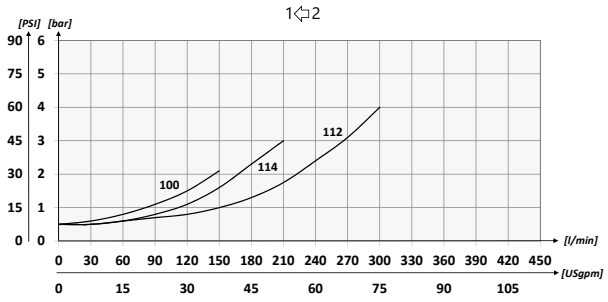
DATI TECNICI / TECHNICAL DATA

PARTICOLARE / COMPONENT	MATERIALE / MATERIAL
Corpo / Manifold	1.4404 (AISI 316L)
Molla / Spring	1.4404 (AISI 316L)
Otturatore / Poppet	1.4404 (AISI 316L)
Spingimolla / Spring Spacer	1.4404 (AISI 316L)



PERFORMANCES





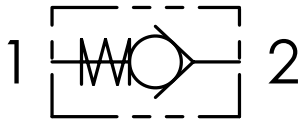
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	L	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
XVUR140	**BSPP 1/4**	**15** (4.0)	**400** (5800)	**55** (2.17)	**19**	**0,10** (0.22)
XVUR380	**BSPP 3/8**	**30** (7.9)		**65** (2.56)	**24**	**0,18** (0.40)
XVUR120	**BSPP 1/2**	**50** (13.2)		**75** (2.95)	**27**	**0,23** (0.50)
XVUR340	**BSPP 3/4**	**90** (23.8)		**86,5** (3.41)	**35**	**0,45** (1)
XVUR100	**BSPP 1**	**150** (39.6)	**50** (5075)	**110** (4.33)	**54**	**0,73** (1.6)
XVUR114	**BSPP 1-1/4**	**200** (52.8)		**123** (4.84)	**59**	**1,5** (3.3)
XVUR112	**BSPP 1-1/2**	**300** (79.2)		**138** (5.43)	**69**	**1,85** (4.07)

XVUR-SAE VALVOLE UNIDIREZIONALI A COLONNETTA F/F
F/F CHECK HOUSING VALVES

ACCIAIO INOSSIDABILE
STAINLESS STEEL

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

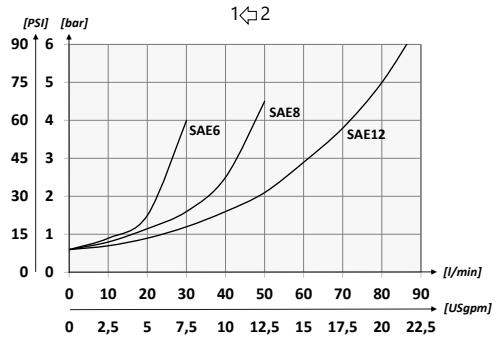


CODICE ORDINAZIONE
ORDERING CODE

01	02	03	04
XVUR		SP	

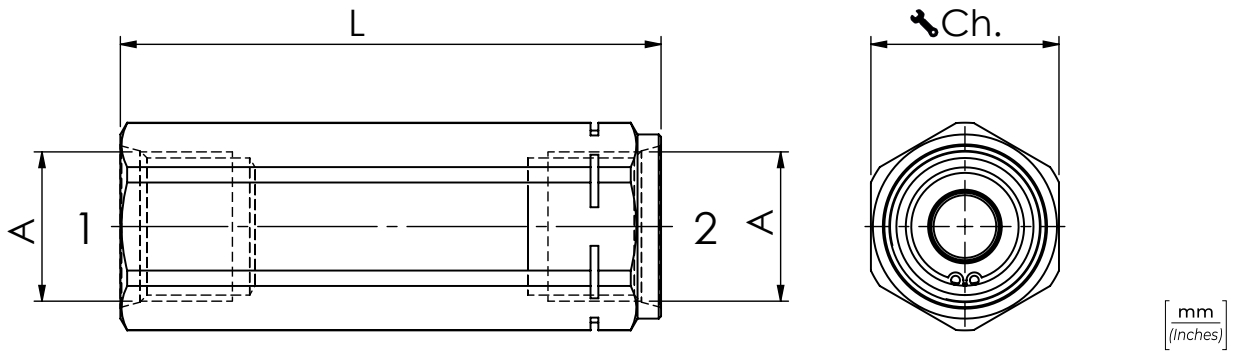
01	VALVOLE UNIDIREZIONALI A COLONNETTA F/F (F/F CHECK HOUSING VALVES)		**XVUR**
02	DIMENSIONE (SIZE)	9/16-18UNF	**6**
		3/4-16UNF	**8**
		1-1/16-12UNF	**12**
03	TENUTA (SEALING)	Tenuta a cono (Poppet sealing)	**SP**
04	MOLLA (SPRING)	**0,5 bar** Standard (7.25 PSI)	**0,5**

PERFORMANCES



DATI TECNICI / TECHNICAL DATA

PARTICOLARE / COMPONENT	MATERIALE / MATERIAL
Corpo / Manifold	1.4404 (AISI 316L)
Molla / Spring	1.4404 (AISI 316L)
Otturatore / Poppet	1.4404 (AISI 316L)
Spingimolla / Spring Spacer	1.4404 (AISI 316L)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	L	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
XVUR6	**9/16-18UNF**	**30** (7.9)	**400** (5800)	**58** (2.28)	**19**	**0,09** (0.20)
XVUR8	**3/4-16UNF**	**50** (13.2)		**69** (2.71)	**24**	**0,18** (0.40)
XVUR12	**1-1/16-12UNF**	**90** (23.8)		**88,5** (3.48)	**35**	**0,45** (1)

Aggiornamento - Update
20V-2020

XVUR-NPTF VALVOLE UNIDIREZIONALI A COLONNETTA F/F
F/F CHECK HOUSING VALVES

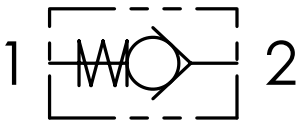
ACCIAIO INOSSIDABILE
STAINLESS STEEL

CODICE ORDINAZIONE
ORDERING CODE

01	02	03	04
XVUR		SP	

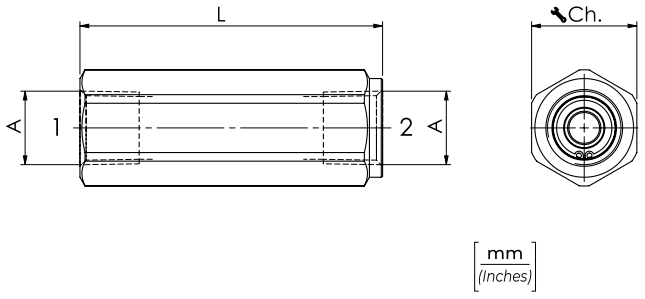
01	VALVOLE UNIDIREZIONALI A COLONNETTA F/F (F/F CHECK HOUSING STAINLESS)		**XVUR**
02	DIMENSIONE (SIZE)	1/4 NPTF	**140N**
		3/8 NPTF	**380N**
		1/2 NPTF	**120N**
		3/4 NPTF	**340N**
		1 NPTF	**100N**
		1-1/4 NPTF	**114N**
		1-1/2 NPTF	**112N**
		2 NPTF	**200N**
03	TENUTA (SEALING)	Tenuta a cono (Poppet sealing)	**SP**
04	MOLLA (SPRING)	**0,5 bar** Standard (7.25 PSI)	**0,5**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

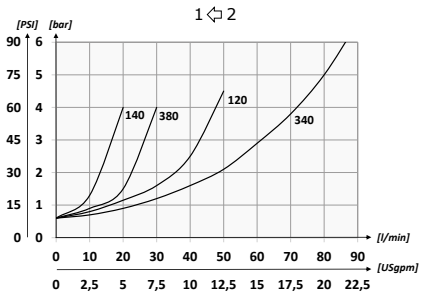


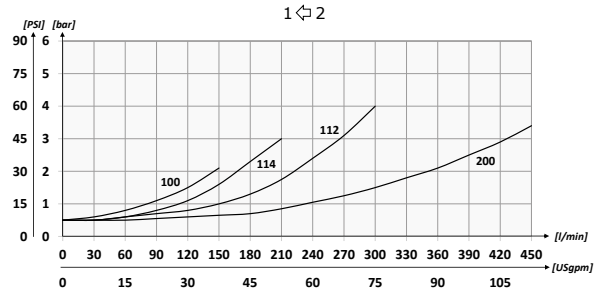
DATI TECNICI / TECHNICAL DATA

PARTICOLARE / COMPONENT	MATERIALE / MATERIAL
Corpo / Manifold	1.4404 (AISI 316L)
Molla / Spring	1.4404 (AISI 316L)
Otturatore / Poppet	1.4404 (AISI 316L)
Spingimolla / Spring Spacer	1.4404 (AISI 316L)



PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

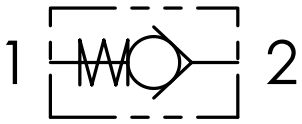
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	L	CH.	PESO APPROX (kg) APPROX WEIGHT (lb)
XVUR140N	**1/4 NPTF**	**15** (4)	**400** (5800)	**58** (2.28)	**19**	**0,10** (0.22)
XVUR380N	**3/8 NPTF**	**30** (7.9)		**69** (2.72)	**24**	**0,18** (0.40)
XVUR120N	**1/2 NPTF**	**50** (13.2)		**75** (2.95)	**27**	**0,23** (0.50)
XVUR340N	**3/4 NPTF**	**90** (23.8)		**88,5** (3.48)	**35**	**0,45** (1)
XVUR100N	**1 NPTF**	**150** (39.6)	**350** (5075)	**110** (4.33)	**41**	**0,75** (1.7)
XVUR114N	**1-1/4 NPTF**	**200** (52.8)		**120** (4.72)	**54**	**1,5** (3.3)
XVUR112N	**1-1/2 NPTF**	**300** (79.2)		**138** (5.43)	**59**	**2,6** (5.7)
XVUR200N	**2 NPTF**	**430** (113.5)			**69**	**3** (6.60)

YVUR-BSPP

VALVOLE UNIDIREZIONALI A COLONNETTA F/F, SOLO CORPO IN ACCIAIO INOX
F/F CHECK HOUSING VALVES, ONLY STAINLESS STEEL BODY

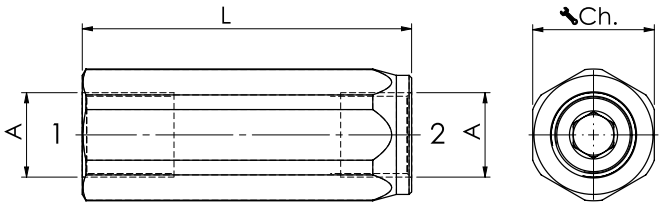
CORPO IN ACCIAIO INOSSIDABILE
STAINLESS STEEL BODY

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

PARTICOLARE / COMPONENT	MATERIALE / MATERIAL
Corpo / Manifold	1.4404 (AISI 316L)
Molla / Spring	1.0116 (OTEVA 70)
Otturatore / Poppet	1.5715 (Ng2)
Spingimolla / Spring Spacer	1.0737 (AVPb)



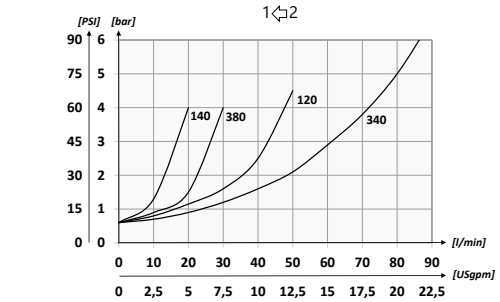
mm
(Inches)

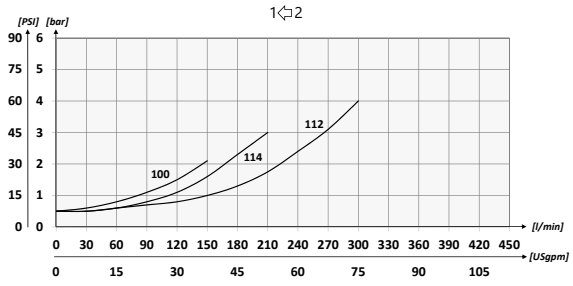
CODICE ORDINAZIONE
ORDERING CODE

01	02	03	04
YVUR			

01	VALVOLE UNIDIREZIONALI A COLONNETTA F/F, SOLO CORPO IN ACCIAIO INOX (F/F CHECK HOUSING VALVES, ONLY STAINLESS STEEL BODY)		**YVUR**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
		BSPP 1-1/4	**114**
		BSPP 1-1/2	**112**
03	TENUTA (SEALING)	Tenuta a cono (Poppet sealing)	**SP**
04	MOLLA (SPRING)	**1 bar** Standard (14.5 PSI)	**1**
		3 bar Standard (43.5 PSI)	**3**
		4,5 bar Standard (65.25 PSI)	**4,5**
		6 bar Standard (87 PSI)	**6**

PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	L	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
YVUR140	**BSPP 1/4**	**15** (4.0)	**400** (5800)	**55** (2.17)	**19**	**0,10** (0.22)
YVUR380	**BSPP 3/8**	**30** (7.9)		**65** (2.56)	**24**	**0,18** (0.40)
YVUR120	**BSPP 1/2**	**50** (13.2)		**75** (2.95)	**27**	**0,23** (0.50)
YVUR340	**BSPP 3/4**	**90** (23.8)		**86,5** (3.41)	**35**	**0,45** (1)
YVUR100	**BSPP 1**	**150** (39.6)	**50** (5075)	**110** (4.33)	**41**	**0,73** (1.6)
YVUR114	**BSPP 1-1/4**	**200** (52.8)		**123** (4.84)	**55**	**1,5** (3.3)
YVUR112	**BSPP 1-1/2**	**300** (79.2)		**138** (5.43)	**60**	**1,85** (4.07)

Aggiornamento - Update
20V-2020

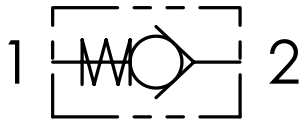
CORPO IN ACCIAIO INOSSIDABILE
STAINLESS STEEL BODY

CODICE ORDINAZIONE / ORDERING CODE

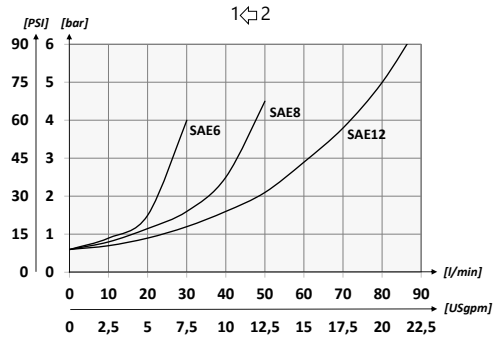
01	02	03	04
YVUR		**SP**	

01	VALVOLE UNIDIREZIONALI A COLONNETTA F/F, SOLO CORPO IN ACCIAIO INOX (F/F CHECK HOUSING VALVES, ONLY STAINLESS STEEL BODY)		**YVUR**
02	DIMENSIONE (SIZE)	9/16-18UNF	**6**
		3/4-16UNF	**8**
		1-1/16-12UNF	**12**
03	TENUTA (SEALING)	Tenuta a cono (Poppet sealing)	**SP**
04	MOLLA (SPRING)	**0,5 bar** Standard (7.25 PSI)	**0,5**
		3 bar Standard (43.5 PSI)	**3**
		4,5 bar Standard (65.25 PSI)	**4,5**
		6 bar Standard (87 PSI)	**6**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

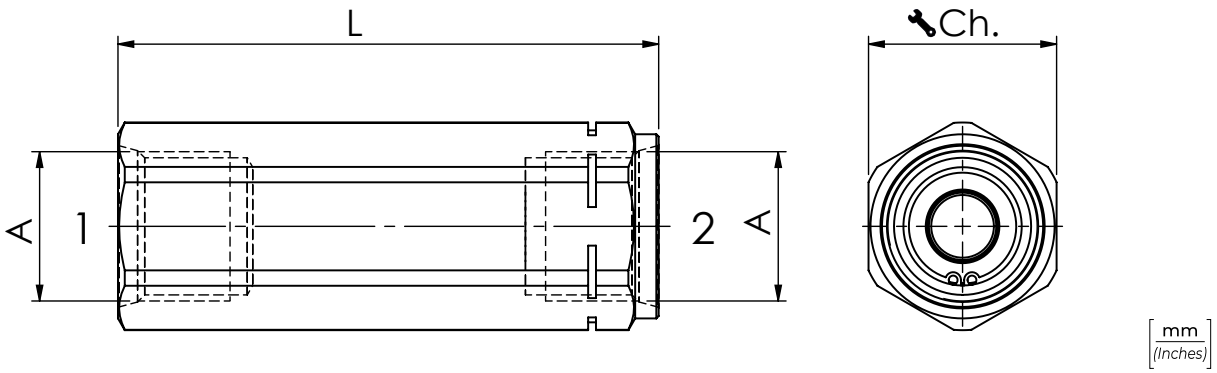


PERFORMANCES



DATI TECNICI / TECHNICAL DATA

PARTICOLARE / COMPONENT	MATERIALE / MATERIAL
Corpo / Manifold	1.4404 (AISI 316L)
Molla / Spring	1.0116 (OTEVA 70)
Otturatore / Poppet	1.5715 (Ng2)
Spingimolla / Spring Spacer	1.0737 (AVPb)



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

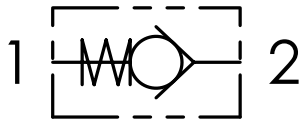
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX MAX PRESSURE bar-PSI	L	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
YVUR6	**9/16-18UNF**	**15** (4)	**400** (5800)	**58** (2.28)	**19**	**0,09** (0.20)
YVUR8	**3/4-16UNF**	**30** (7.9)		**69** (2.71)	**24**	**0,18** (0.40)
YVUR12	**1-1/16-12UNF**	**90** (23.8)		**88,5** (3.48)	**35**	**0,45** (1)

YVUR-NPTF

VALVOLE UNIDIREZIONALI A COLONNETTA F/F, SOLO CORPO IN ACCIAIO INOX
F/F CHECK HOUSING VALVES, ONLY STAINLESS STEEL BODY

CORPO IN ACCIAIO INOSSIDABILE
STAINLESS STEEL BODY

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



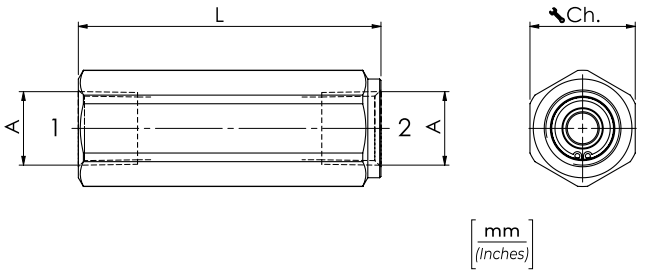
CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
YVUR		SP	

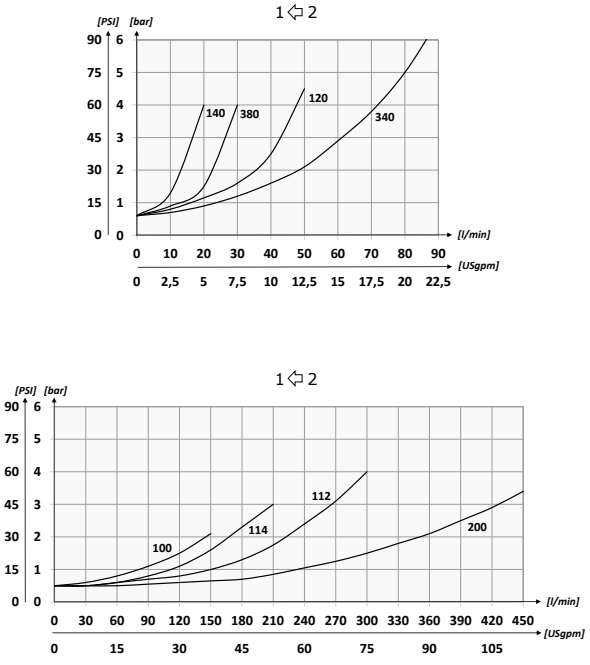
01	VALVOLE UNIDIREZIONALI A COLONNETTA F/F, SOLO CORPO IN ACCIAIO INOX (F/F CHECK HOUSING VALVES, ONLY STAINLESS STEEL BODY)		**YVUR**
02	DIMENSIONE (SIZE)	1/4 NPTF	**140N**
		3/8 NPTF	**380N**
		1/2 NPTF	**120N**
		3/4 NPTF	**340N**
		1 NPTF	**100N**
		1-1/4 NPTF	**114N**
		1-1/2 NPTF	**112N**
		2 NPTF	**200N**
03	TENUTA (SEALING)	Tenuta a cono (Poppet sealing)	**SP**
04	MOLLA (SPRING)	**0,5 bar** Standard (7.25 PSI)	**0,5**
		3 bar (43.5 PSI)	**3**
		4,5 bar (65.25 PSI)	**4,5**
		6 bar (87 PSI)	**6**

DATI TECNICI / TECHNICAL DATA

PARTICOLARE / COMPONENT	MATERIALE / MATERIAL
Corpo / Manifold	1.4404 (AISI 316L)
Molla / Spring	1.0116 (OTEVA 70)
Otturatore / Poppet	1.5715 (Ng2)
Spingimolla / Spring Spacer	1.0737 (AVPb)



PERFORMANCES



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	L	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
YVUR140N	**1/4 NPTF**	**5** (1.3)	**400** (5800)	**58** (2.28)	**19**	**0,10** (0.22)
YVUR380N	**3/8 NPTF**	**15** (4)		**69** (2.72)	**24**	**0,18** (0.40)
YVUR120N	**1/2 NPTF**	**30** (7.9)		**75** (2.95)	**27**	**0,23** (0.50)
YVUR340N	**3/4 NPTF**	**90** (23.8)		**88,5** (3.48)	**35**	**0,45** (1)
YVUR100N	**1 NPTF**	**150** (39.6)	**350** (5075)	**110** (4.33)	**41**	**0,75** (1.7)
YVUR114N	**1-1/4 NPTF**	**200** (52.8)		**120** (4.72)	**55**	**1,5** (3.3)
YVUR112N	**1-1/2 NPTF**	**300** (79.2)		**138** (5.43)	**60**	**2,6** (5.7)
YVUR200N	**2 NPTF**	**430** (113.5)			**75**	**3** (6.60)

Aggiornamento - Update
20V-2020

XRAS2-BSPP VALVOLE A SFERA A 2 VIE
2 WAYS BALL VALVES

Oleoweb VALVES & SOLUTIONS

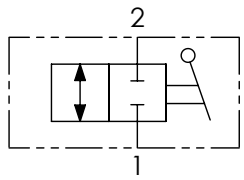
ACCIAIO INOSSIDABILE
STAINLESS STEEL

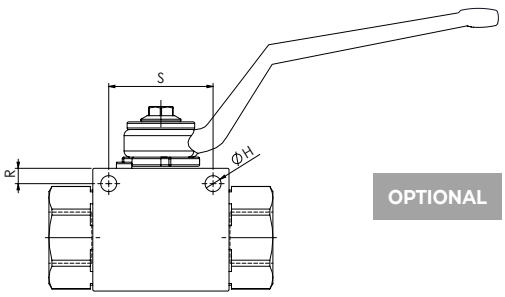
CODICE ORDINAZIONE
ORDERING CODE

01	02	03
XRAS2		

01	VALVOLE A SFERA A 2 VIE (2 WAYS BALL VALVES)		**XRAS2**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
03	OPTIONAL	Fori di fissaggio (Fixing ports)	**P**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

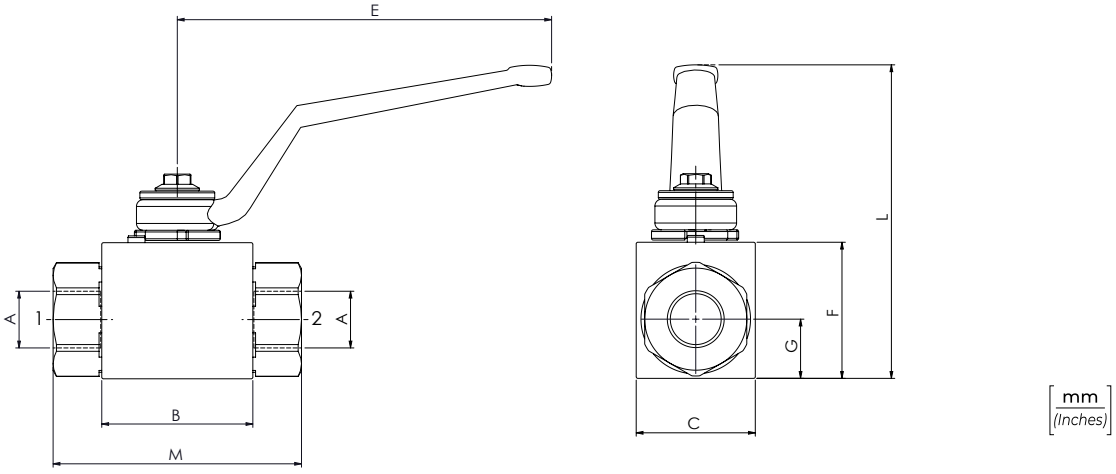




OPTIONAL

DATI TECNICI / TECHNICAL DATA

PARTICOLARE / COMPONENT	MATERIALE / MATERIAL
Corpo / Manifold	1.4404 (AISI 316L)
Adattatori / Adapter	1.4404 (AISI 316L)
Sfera / Ball	1.4404 (AISI 316L)
Vite regolatrice / Stern	1.4404 (AISI 316L)
Battuta sfera / Ball seat	POM
Leva / Handle	1.4301 (AISI 304)
Fermo inferiore / Lower washer	1.4301 (AISI 304)
Fermo Superiore / Upper washer	1.4301 (AISI 304)
Anello vite / Stern ring	POM
Spina / Spine	1.4301 (AISI 304)
Anello seeger / Component	1.4301 (AISI 304)
O-ring adattatori / Adapter o-ring	NBR
O-ring vite / Stern o-ring	NBR
Vite / Screw	DIN 6921 A2



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	E	F	G	H	L	M	R	S	PESO APPROX APPROX WEIGHT kg-lbt
XRAS2140	**BSPP 1/4**	**25** (6.6)		**42,4** (1.67)	**30** (1.18)		**35** (1.38)	**14,5** (0.57)		**91,5** (3.60)	**71** (2.80)			**0,5** (1.1)
XRAS2380	**BSPP 3/8**	**35** (9.2)	**500** (7250)	**44,4** (175)	**35** (1.38)	**110** (4.33)	**40** (1.57)	**17,5**(0.69)	**5,2** (0.20)	**96,5** (3.80)	**73** (2.87)	**4,5** (0.18)	**34** (1.34)	**0,7**(1.5)
XRAS2120	**BSPP 1/2**	**60** (15.8)		**48,4** (1.91)	**37** (1.46)		**43** (1.69)	**18** (0.71)		**99,5** (3.92)	**83** (3.27)	**5** (0.20)	**36** (1.42)	**0,8** (1.8)
XRAS2340	**BSPP 3/4**	**100** (26.4)	**400** (5800)	**62,5** (2.46)	**45** (1.77)	**180** (7.09)	**55** (2.17)	**23,5** (0.93)	**6,2** (0.24)	**106,5** (4.19)	**95** (3.74)	**6** (0.24)	**50** (1.97)	**1,5** (3.3)
XRAS2100	**BSPP 1**	**150** (39.6)	**350** (5075)	**66,5** (2.62)	**55** (2.17)		**65** (2.56)	**29,5** (1.16)		**116,5** (4.59)	**112** (4.41)			**2,3** (5)

XRAS3-BSPP VALVOLE A SFERA A 3 VIE
3 WAYS BALL VALVES

Oleoweb VALVES & SOLUTIONS

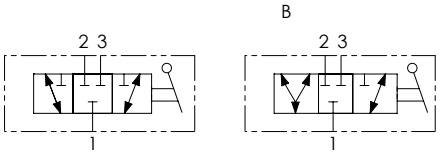
ACCIAIO INOSSIDABILE
STAINLESS STEEL

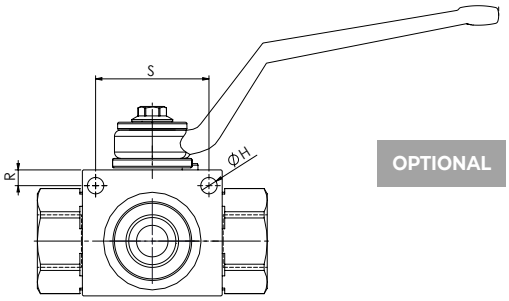
CODICE ORDINAZIONE
ORDERING CODE

01	02	03
XRAS3		

01	VALVOLE A SFERA A 3 VIE (3 WAYS BALL VALVES)		**XRAS3**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
03	OPTIONAL	Fori di fissaggio (Fixing ports)	**P**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

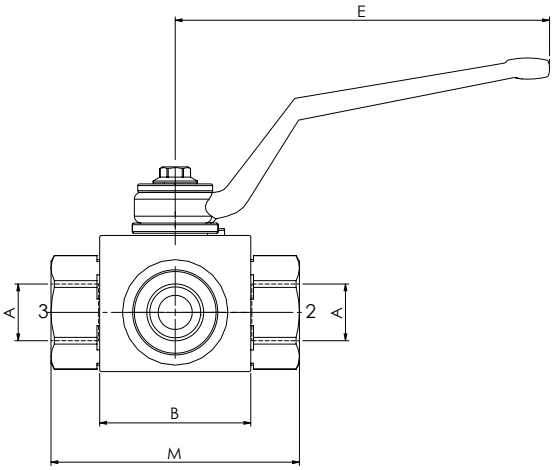


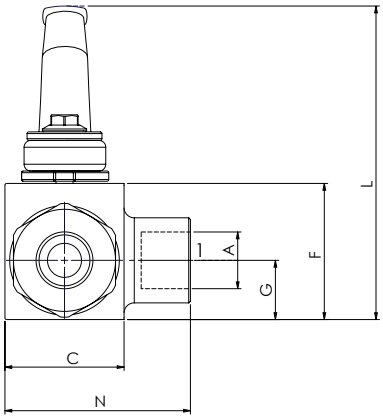


OPTIONAL

DATI TECNICI / TECHNICAL DATA

PARTICOLARE / COMPONENT	MATERIALE / MATERIAL
Corpo / Manifold	1.4404 (AISI 316L)
Adattatori / Adapter	1.4404 (AISI 316L)
Sfera / Ball	1.4404 (AISI 316L)
Vite regolatrice / Stern	1.4404 (AISI 316L)
Battuta sfera / Ball seat	POM
Leva / Handle	1.4301 (AISI 304)
Fermo inferiore / Lower washer	1.4301 (AISI 304)
Fermo Superiore / Upper washer	1.4301 (AISI 304)
Anello vite / Stern ring	POM
Spina / Spine	1.4301 (AISI 304)
Anello seeger / Component	1.4301 (AISI 304)
O-ring adattatori / Adapter o-ring	NBR
O-ring vite / Stern o-ring	NBR
Vite / Screw	DIN 6921 A2





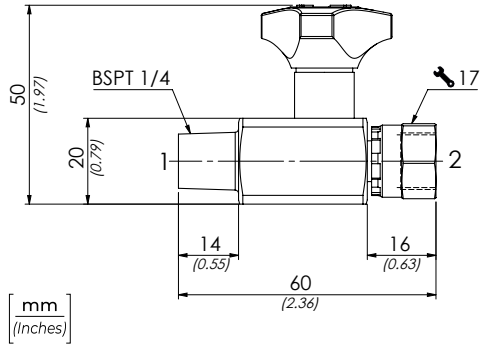
mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	E	F	G	H	L	M	N	R	S	PESO APPROX APPROX WEIGHT kg-lbt
XRAS3140	**BSPP 1/4**	**25** (6.6)	**400** (5800)	**42,4** (1.67)	**30** (1.18)	**110** (4.33)	**35** (1.38)	**14,5** (0.57)	**5,2** (0.20)	**91,5** (3.60)	**71** (2.80)	**48,5** (1.91)	**4,5** (0.18)	**34** (1.34)	**0,6** (1.3)
XRAS3380	**BSPP 3/8**	**35** (9.2)		**44,4** (175)	**35** (1.38)		**40** (1.57)	**17,5**(0.69)		**96,5** (3.80)	**73** (2.87)	**54,5** (2.15)	**5** (0.20)	**36** (1.42)	**0,7**(1.5)
XRAS3120	**BSPP 1/2**	**60** (15.8)	**350** (5075)	**48,4** (1.91)	**37** (1.46)		**43** (1.69)	**18** (0.71)		**99,5** (3.92)	**83** (3.27)	**58,5** (2.30)	**6** (0.24)	**50** (1.97)	**0,8** (1.8)
XRAS3340	**BSPP 3/4**	**100** (26.4)		**62,5** (2.46)	**45** (1.77)	**180** (7.09)	**55** (2.16)	**23,5** (0.93)	**6,2** (0.24)	**106,5** (4.19)	**95** (3.74)	**75** (2.95)			**1,6** (3.5)
XRAS3100	**BSPP 1**	**150** (89.6)		**66,5** (2.62)	**55** (2.17)		**65** (2.56)	**29,5** (1.16)		**116,5** (4.59)	**112** (4.41)	**87,5** (3.44)			**2,4** (5.3)

Aggiornamento - Update 20V-2020

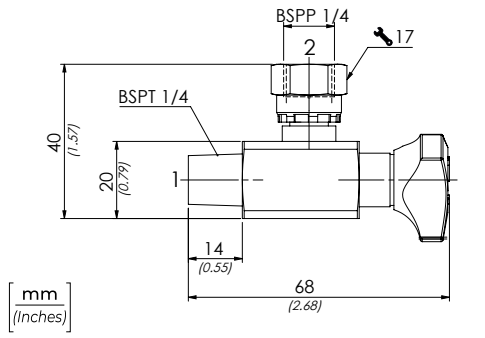
RUBINETTI ESCLUSIONE MANOMETRO IN LINEA
IN-LINE PRESSURE GAUGE SHUT-OFF VALVES



CODICE ORDINAZIONE
ORDERING CODE

XSOV1400

RUBINETTI ESCLUSIONE MANOMETRO A 90°
90° PRESSURE GAUGE SHUT-OFF VALVES



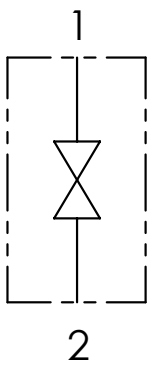
CODICE ORDINAZIONE
ORDERING CODE

XSOV1490

DATI TECNICI / TECHNICAL DATA

PARTICOLARE / COMPONENT	**MATERIALE / MATERIAL**
Corpo / Manifold	1.4404 (AISI 316L)
Adattatori / Adapter	1.4404 (AISI 316L)
Vite regolatrice / Stern	1.4404 (AISI 316L)
Volantino / Handknob	Plastica / Plastic
Guarnizioni / O-rings	Viton (FKM)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



XMNP-BSPP MINIPRESE PROVA PRESSIONE
TEST COUPLINGS FOR PRESSURE CHECKING

Oleoweb VALVES & SOLUTIONS

ACCIAIO INOSSIDABILE
STAINLESS STEEL

CODICE ORDINAZIONE
ORDERING CODE

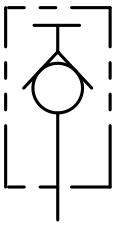
01	02
XMNP	

01	MINIPRESE PROVA PRESSIONE (TEST COUPLINGS FOR PRESSURE CHECKING)		**XMNP**
02	DIMENSIONE (SIZE)	BSPP 1/8	**180**
		BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**

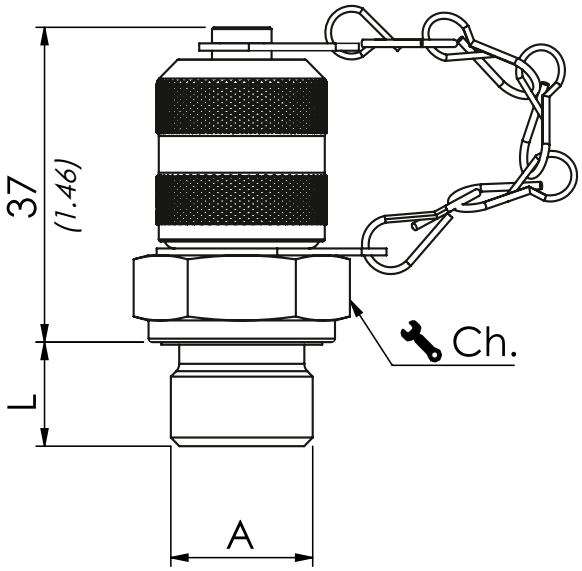
DATI TECNICI / TECHNICAL DATA

PARTICOLARE / COMPONENT	**MATERIALE / MATERIAL**
Corpo / Manifold	1.4404 (AISI 316L)
Cappuccio di protezione / Safety cap	1.4404 (AISI 316L)
Guarnizioni / O-rings	Viton (FKM)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



MINIPRESE
TEST COUPLINGS
M16X2



mm
(Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PRESSIONE MAX MAX PRESSURE bar-PSI	Ch. mm	L	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	PESO APPROX APPROX WEIGHT kg-lbt
XMNP180	**BSPP 1/8**	**630** (9135)	**17**	**8** (0.31)	**20** (14.6)	**0,07** (0.16)
XMNP140	**BSPP 1/4**		**19**	**12** (0.47)	**30** (22)	**0,08** (0.18)
XMNP380	**BSPP 3/8**		**22**	**12** (0.47)	**60** (44)	**0,10** (0.22)
XMNP120	**BSPP 1/2**		**27**	**14** (0.55)	**80** (58.6)	**0,13** (0.29)

Aggiornamento - Update
20V-2020

XMNP-NPTF MINIPRESE PROVA PRESSIONE
TEST COUPLINGS FOR PRESSURE CHECKING

ACCIAIO INOSSIDABILE
STAINLESS STEEL

CODICE ORDINAZIONE
ORDERING CODE

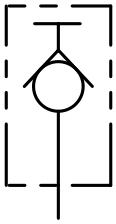
01	02
XMNP	

01	MINIPRESE PROVA PRESSIONE (TEST COUPLINGS FOR PRESSURE CHECKING)		**XMNP**
02	DIMENSIONE (SIZE)	NPTF 1/8	**180N**
		NPTF 1/4	**140N**
		NPTF 3/8	**380N**
		NPTF 1/2	**120N**

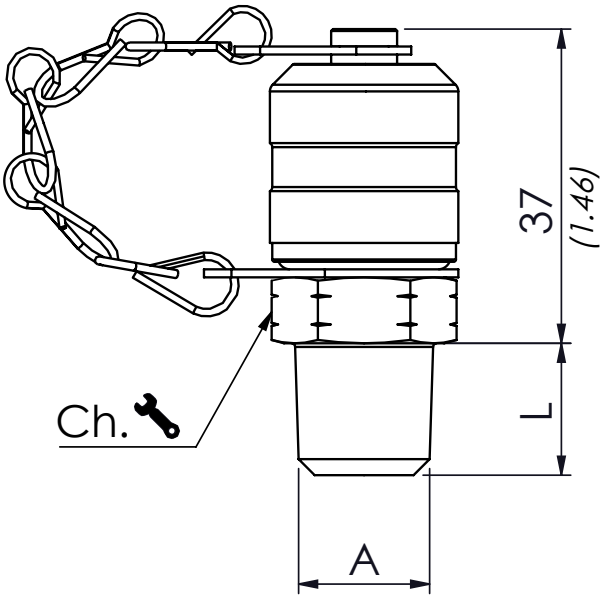
DATI TECNICI / TECHNICAL DATA

PARTICOLARE / COMPONENT	**MATERIALE / MATERIAL**
Corpo / Manifold	1.4404 (AISI 316L)
Cappuccio di protezione / Safety cap	1.4404 (AISI 316L)
Guarnizioni / O-rings	Viton (FKM)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



MINIPRESE
TEST COUPLINGS
M16X2



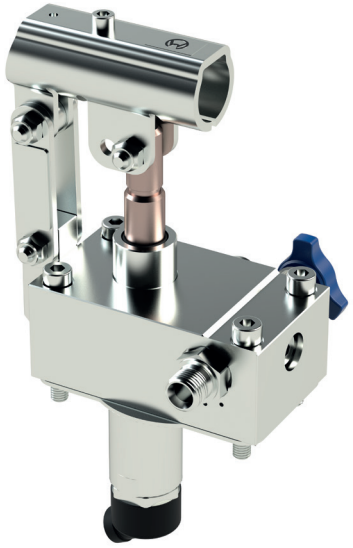
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PRESSIONE MAX MAX PRESSURE bar-PSI	Ch. mm	L	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	PESO APPROX (kg) APPROX WEIGHT (lbt)
XMNP180N	**NPTF 1/8**	**630** (9135)	**17**	**10** (0.39)	**20** (14.6)	**0,07** (0.16)
XMNP140N	**NPTF 1/4**		**19**	**12** (0.47)	**30** (22)	**0,08** (0.18)
XMNP380N	**NPTF 3/8**		**22**	**14** (0.55)	**60** (44)	**0,10** (0.22)
XMNP120N	**NPTF 1/2**		**27**	**14** (0.55)	**80** (58.6)	**0,13** (0.29)

XPMS POMPA A MANO DOPPIO POMPAGGIO PER CILINDRO A SEMPLICE EFFETTO
DOUBLE PUMPING HAND PUMP FOR SINGLE ACTING CYLINDER

Oleoweb VALVES & SOLUTIONS

ACCIAIO INOSSIDABILE
STAINLESS STEEL



LA POMPA VIENE FORNITA CON LEVA DI AZIONAMENTO L=600 mm

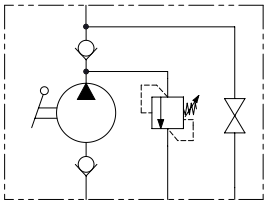
THE PUMP IS SUPPLIED WITH ACTING LEVER 23.6 IN LONG

CODICE ORDINAZIONE / ORDERING CODE

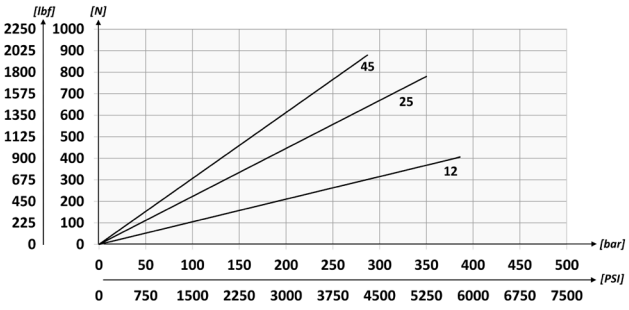
01	02	03
XPMS		**RV**

01	POMPA A MANO DOPPIO POMPAGGIO PER CILINDRO A SEMPLICE EFFETTO (DOUBLE PUMPING HAND PUMP FOR SINGLE ACTING CYLINDER)				**XPMS**
02	CILINDRATA (DISPLACEMENT)	A	B	C	
	12 cm^3 (0.73 in^3)	**253** (9.96)	**166** (6.54)	**34** (1.34)	**12**
	25 cm^3 (1.53 in^3)	**273** (10.75)	**172** (6.77)	**34** (1.34)	**25**
	45 cm^3 (2.75 in3)	**283** (11.14)	**172** (6.77)	**40** (1.57)	**45**
03	Con rubinetto di scarico e valvola di massima pressione (With unloading valve and relief valves)				**RV**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

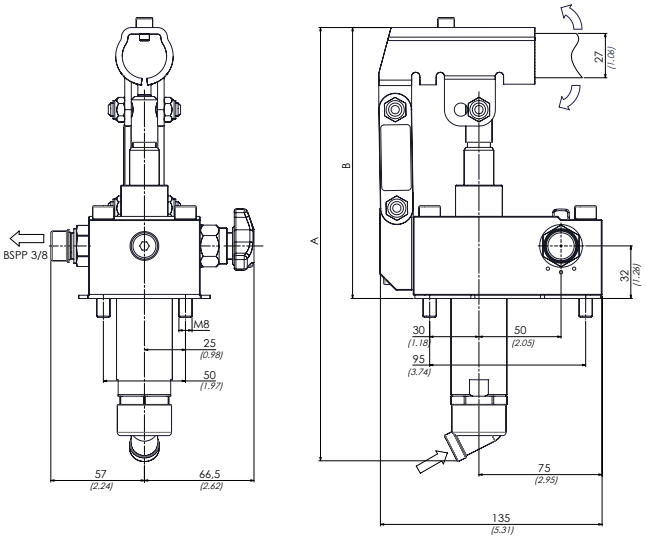


SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER



DATI TECNICI / TECHNICAL DATA

PARTICOLARE / COMPONENT	MATERIALE / MATERIAL
Corpo / Manifold	1.4404 (AISI 316L)
Stelo / Rod	1.4542 (AISI 630) + Niploy
Altri particolari Other components	1.4404 (AISI 316L)
Guarnizioni / O-rings	SILICONE



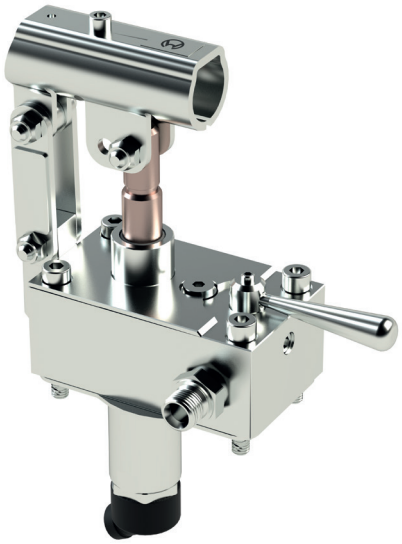
[mm (Inches)]

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PRESSIONE OTTIMALE OPTIMAL PRESSURE bar-PSI	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
XPMS12	**220** (3190)	**380** (5510)	**3,7** (8.15)
XPMS25	**120** (1740)	**350** (5075)	
XPMS45	**80** (1160)	**280** (4060)	

Aggiornamento - Update 20V-2020

ACCIAIO INOSSIDABILE
STAINLESS STEEL



LA POMPA VIENE FORNITA CON GUARNIZIONE SAGOMATA + VITI DI FISSAGGIO + LEVA DI AZIONAMENTO L=600 mm

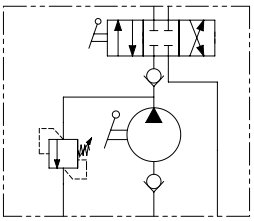
THE PUMP IS SUPPLIED WITH SHAPED SEAL, FIXING SCREWS AND ACTING LEVER 23.6 inch LONG

CODICE ORDINAZIONE / ORDERING CODE

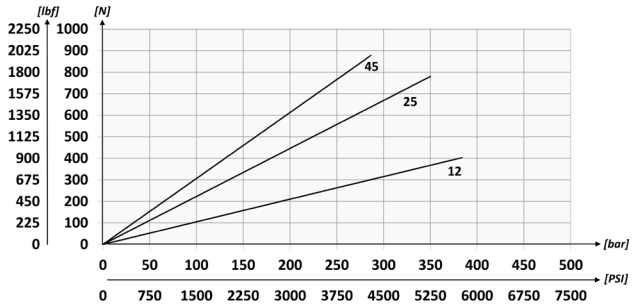
01	02	03
XPMI		**RV**

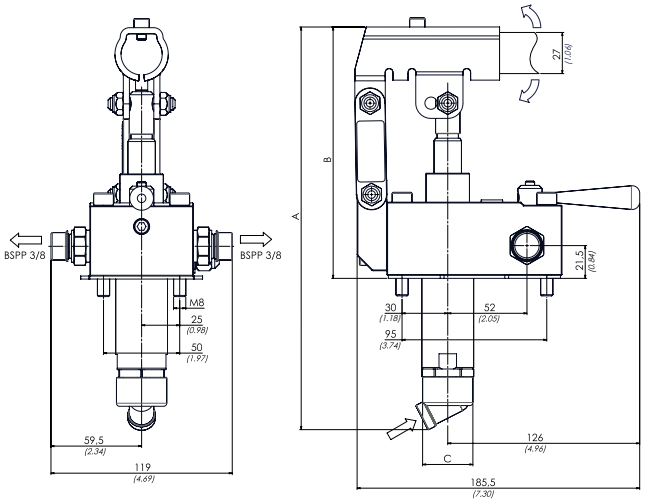
01	POMPA A MANO DOPPIO POMPAGGIO PER CILINDRO A DOPPIO EFFETTO - CENTRO CHIUSO (DOUBLE PUMPING HAND PUMP FOR DOUBLE ACTING CYLINDER - CLOSED CENTER)				**XPMI**
02	CILINDRATA (DISPLACEMENT)	A	B	C	
	12 cm³ (0.73 in³)	**253** (9.96)	**166** (6.54)	**34** (1.34)	**12**
	25 cm³ (1.53 in³)	**273** (10.75)	**172** (6.77)	**34** (1.34)	**25**
	45 cm³ (2.75 in³)	**283** (11.14)	**172** (6.77)	**40** (1.57)	**45**
03	Con valvola di massima pressione (With relief valves)				**RV**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER





mm
(Inches)

DATI TECNICI / TECHNICAL DATA

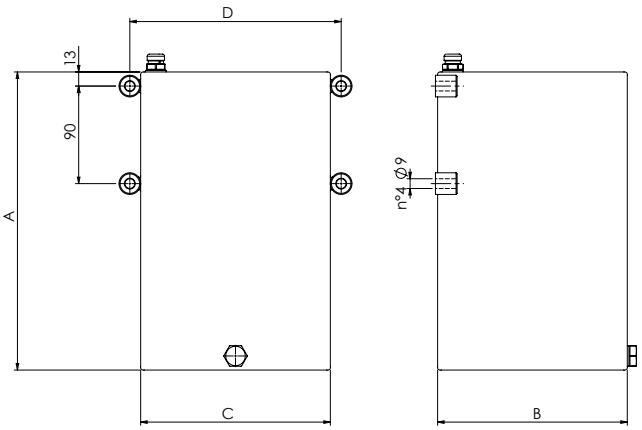
PARTICOLARE / COMPONENT	MATERIALE / MATERIAL
Corpo / Manifold	1.4404 (AISI 316L)
Stelo / Rod	1.4542 (AISI 630) + Niploy
Altri particolari Other components	1.4404 (AISI 316L)
Guarnizioni / O-rings	SILICONE

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PRESSIONE OTTIMALE (bar) OPTIMAL PRESSURE (PSI)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)
XPMI12	**220** (3190)	**380** (5510)	**4,20** (9.25)
XPMI25	**120** (1740)	**350** (5075)	
XPMI45	**80** (1160)	**280** (4060)	

SERBATOIO IN ACCIAIO INOX 316, IL SERBATOIO È COMPRENSIVO DI TAPPO SFIATO E TAPPO SCARICO

STEEL RESERVOIR INOX 316, THE RESERVOIR IS INCLUDING THE AIR BLEEDING PLUG

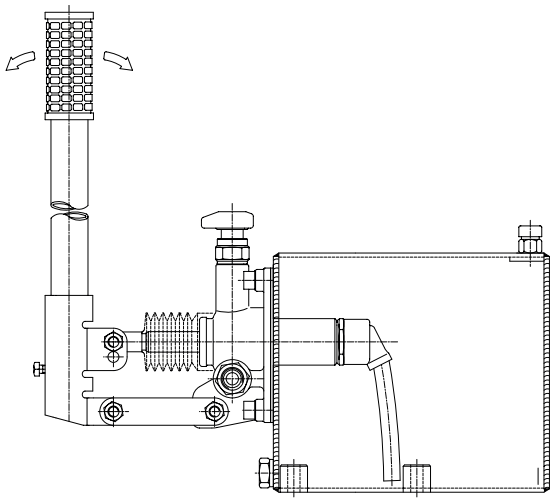


mm
(Inches)

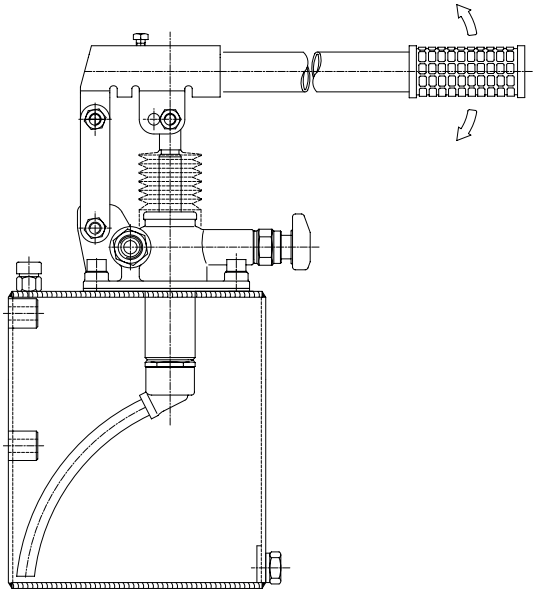
DATI TECNICI / TECHNICAL DATA

PARTICOLARE / COMPONENT	MATERIALE / MATERIAL
Corpo / Manifold	1.4404 (AISI 316L)

MONTAGGIO ORIZZONTALE / HORIZZONTAL MOUNTING



MONTAGGIO VERTICALE / VERTICAL MOUNTING



CODICE ORDINAZIONE
ORDERING CODE

01

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

	TIPO TYPE	CAPACITÀ CAPACITY	A	B	C	D	PESO APPROX (kg) APPROX WEIGHT (lbt)
01	**XTNK1**	**1 Lt.** - 61 in.³	**120** (4.72)	**150** (5.91)	**100** (3.94)	**120** (4.72)	**2,1** (4.6)
	XTNK2	**2 Lt.** - 122 in.³	**185** (7.28)				**2.8** (6.1)
	XTNK3	**3 Lt.** - 183 in.³	**255** (10.04)				**3.4** (7.4)
	XTNK5	**5 Lt.** - 305 in.³	**200** (7.87)	**175** (6.89)		**195** (7.68)	**4.6** (10.1)
	XTNK7	**7 Lt.** - 427 in.³	**275** (10.83)				**5,5** (12.1)
	XTNK10	**10 Lt.** - 610 in.³	**380** (14.96)				**7.0** (15.4)

Aggiornamento - Update
20V-2020

HYDRAULIC VALVES MAINTENANCE BOOKLET

This handbook is directed to specialized and competent staff that may not replace in any case the knowledge and competence of the installer. The Producer disclaims any responsability for damage to persons and objects due to a bad or improper installation of the valves. **Oleoweb Srl** is geared to a continuos reserch and development of its products and therefore reserves the right to change at any time and without notice all the technical characteristics deemed necessary. This manual will undergo changes and additions, but shall in no circumstances be regarded as outdated. This manual and the technical documentation of Oleoweb Srl are intended to provide additional technical information to competet users of the departement and/or employees.

COMPETENT PERSON
It's a person that has sufficient knowledge of the field due to technical worth of training and experience. The User, however, is the only responsible for the choice of the product and its accessories. It is therefore important that the user analyses the problems of its application, running adequate tests. The same user is also responsible for the implementation of security and warnings required by existing laws.

ENGRAVING
Oleoweb's valves can be simply identified through the stamp placed on the valve:
- Corporate Logo
- Hydraulic circuit
- Article code
- Month and year of manufacture (extension code)

MANUFACTURE MONTH	MANUFACTURE YEAR										
	2020	2021	2022	2023	2024	2025	2026	2028	2029	2030	2031
JANUARY	20M	21M	22M	23M	24M	25M	26M	28M	29M	30M	31M
FEBRUARY	20N	21N	22N	23N	24N	25N	26N	28N	29N	30N	31N
MARCH	20P	21P	22P	23P	24P	25P	26P	28P	29P	30P	31P
APRIL	20Q	21Q	22Q	23Q	24Q	25Q	26Q	28Q	29Q	30Q	31Q
MAY	20R	21R	22R	23R	24R	25R	26R	28R	29R	30R	31R
JUNE	20S	21S	22S	23S	24S	25S	26S	28S	29S	30S	31S
JULY	20T	21T	22T	23T	24T	25T	26T	28T	29T	30T	31T
AUGUST	20U	21U	22U	23U	24U	25U	26U	28U	29U	30U	31U
SEPTEMBER	20V	21V	22V	23V	24V	25V	26V	28V	29V	30V	31V
OCTOBER	20Z	21Z	22Z	23Z	24Z	25Z	26Z	28Z	29Z	30Z	31Z
NOVEMBER	20X	21X	22X	23X	24X	25X	26X	28X	29X	30X	31X
DECEMBER	20Y	21Y	22Y	23Y	24Y	25Y	26Y	28Y	29Y	30Y	31Y

USE OF THE VALVES
Oleoweb valves are destined from **Oleoweb** to manufacturers of hydraulic power equipment.
Given the wide application of hydraulic valves and given the fact that it's not always possible to know the final destination of the product, this manual has been produced only on the basis of know generic application.

LIMITATIONS OF USE
Oleoweb Srl warns each user/customer or manufacturer not to employ valves in the following applications:
- Environments where there is danger of explosion and fire;
- Vehicles and aeronautical or space equipment;
- Steering systems and equipment for vehicles due to carry person, things and animals;
- Brake systems, blocking and deadlock in general;
- Equipment and installation of application in the military, nuclear, medical and hospital department

HOWEVER, THE TECHNICAL DEPARTMENT IN OLEOWEB SRL, AFTER REQUEST OF THE USER, MAY EVALUATE CASE-BY-CASE APPLICATIONS AND GIVE IT'S AUTHORIZATION.

MECHANICAL SPECIFICATIONS
- Do not tamper with any type of valve: a simple loosing of valve could cause the free fall of loads or failure of structures.
- All operations of installation, assembly, maintenance and removal of valves and components applied to it must be executed with the utmost respect of safety standars. During these operations, within the hydraulic circuit there must never be pressure (pressure zero) and there should not be any type of cargo on the structures of the equipment or the machinery to which the valve is applied (load zero).

ELECTRICAL SPECIFICATION
- All electrical connections and disconnections must be carried out by skilled and competent staff.
- Before making any action or intervention on the valve, this must be disconnected from its power source.

SECURITY SPECIFICATION
- Use safety protection;
- Work under very clean conditions;
- Work under maximum security conditions;
- Use tools and service desks always in suitable and clean conditions;
- During the start-up operations, normal work, maintenance, adjustment, leaking, intervention and drive of valves and various elements of control, sUDDEN SPILLS AND LEAKS OF HYDRAULIC FLUID MAY OCCUR, WHICH CAN REACH TEMPERATURES SUCH AS TO CAUSE BURNS TO THE SKIN.
- Hydraulic fluid may be dangerous to health as in contact with skin and eyes and can cause serious damage. Follow scrupulously the protection and security provisions imposed by the manufacturer of the hydraulic fluid listed on the technical and toxicological schedule of the product. Hydraulic fluid may be a pollutant product. It's good practice therefore to avoid loss of hydraulic fluid using tanks to collect and protect against accidental spills and leakage of hydraulic fluid using also oil-absorbing products. Quick changes in temperature may affect both the characteristics and the duration of the product, so it is essential to protect it from these situations.

MOUNTING
- A fitting and proper installation are essential factors for the smooth functioning of an hydraulic plant. Dust and dirt are the worst enemies of hydraulic.
- During installation you have to concentrate on the utmost clean by conducting the main operations in a clean and non-dusty room. Valves must be mounted in such a way as to allow easy access to controls, inspections, maintenance and repair, it is also equally essential that they are mounted in an accidental bumps protected area and repaired by random physical contact, as the temperature reached during the operation can cause burns.

HANDLING
Hydraulic valves are products to handle with care and attention. Characteristic of those valve is to have protuberances subject to breakage.

STORAGE
Hydraulic valves must be stored in a protected place, possibly closed, away from dust, dirt, humidity and bad weather conditions, with a minimum temperature of -15°C and not exceeding +50°C. In addition, valves are provided with protective plastic caps into their holes routes to avoid the loss of hydraulic fluid left in the valve after testing and not allow access to foreign bodies, which could be very dangerous for the smooth functioning and for the duration of the valve. It is therefore essential not remove these caps if not before mounting the valve.

DISPOSAL OF THE VALVES
Hydraulic valves are constructed primarily of aluminum alloy, steel alloy and plastic; therefore they can be disposed of as normal materials sending them for recycling with the only advice to make a complete emptying of the hydraulic fluid they may contain.

DISPOSAL OF THE HYDRAULIC FLUID
Hydrauilic fluids are subject to special disposal requirements: therefore comply with the directions and instructions of producers and abide by the laws in force in the country of use.

DO NOT THROW THE REPLACED FLUID IN THE ENVIROMENT

MAINTENANCE
The good installation and care during installation and putting into operation ensures a long duration of the oilhydraulic plant without drawbacks or need of special care maintenance. The principle basic is the need to frenquently monitor the quality and status of the fluid that transmits power and ensure that there are no impurities in the circuit: the good condition of the fluid is reported the reliability of any oilhydraulic machine. Indeed, among the leading causes of out of service or fault, you can report the equipment block as a result of seizing or braking due to wear and aging of the fluid that transmits power, with consequent loss of its chemical and physical properties. It's now certain that the main cause of all these drawbacks is due to the presence of hosts and microparticles circulating continuously in the fluid and which constitute grounds for wear. A large quantity of these microparticles, if left circulating in the system, acts as an abrasive mixture scraping the surfaces with which it comes into contact and dragging in cycle further contaminant particles; damage are, of course, the more severe the more sophisticated the installed equipment is.
From the putting in motion of the installation, maintenance is basically made of small operations that, to be truly effective, must be carried out with regularity. It is therefore extremely important that these operations of control and verification are planned and reported on sheets of machinery or plant.

EXTERIOR CLEANING
It allows easy location of any losses and therefore immediate intervention.

CONTINUOUS MONITORING OF THE TEMPERATURE
Alteration of the fluid because of the temperature is a cause of pollution and degradation of the plant. The creation of particles inside the oil is particularly favoured by the heat: the rate of oxidation can be considered almost constant up to 60°C, doubling starting from this point to each increment of 10°C. The presence of sludge and sediment in the oil, because of a roiled appearance, reports it's degradation.

REPLACEMENT OF THE FLUID
Ensure over time better working conditions, with frequent monitoring of the fluid and its periodic replacement. On average, after the first 100 hours of work, then every 2000 hours or once a year. For each exchange replace also the filters and clean the tank. Before running the exchange of hydraulic fluid, completely clear the plant from it.

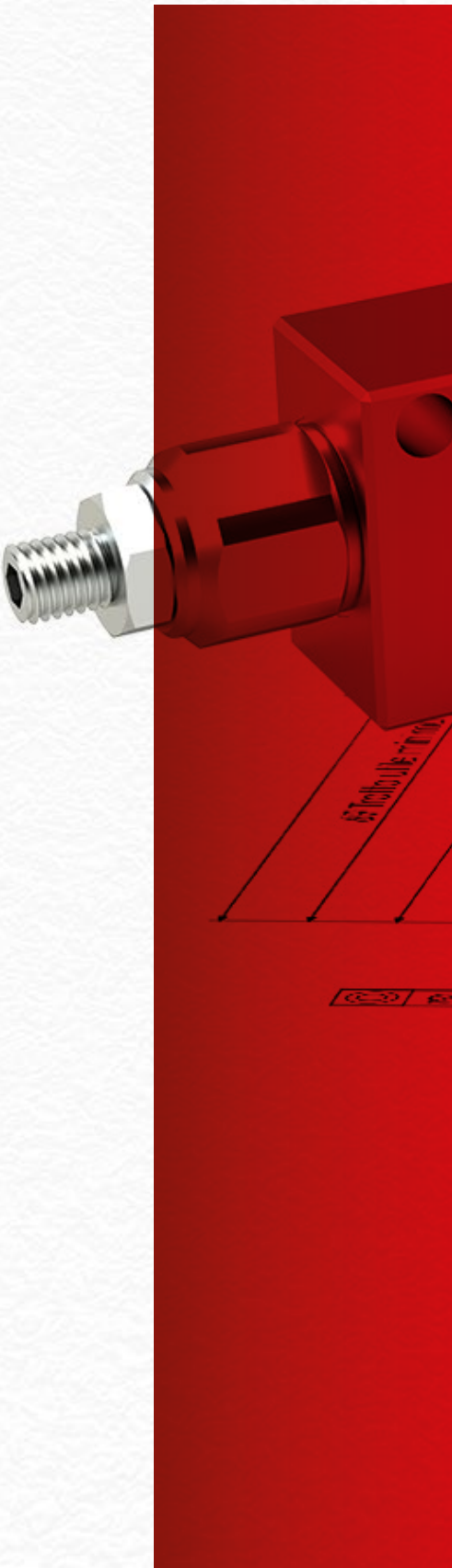
GUARANTEE

GUARANTEE TERMS
The products we manufacture are guaranteed against possible failures due to manufacturing defects or materials used. The duration of the guarantee will be 12 months after the shipment from our premises. Any intervention of revision within the guarantee period must be carried out by Technical Assistance authorized by us, or at our establishment where products must be sent in free port with appropriate packaging. It will be considered lapsed in case of inproper use, tampering, amendment and/or repair carried out by non authorized staff.

TECHNICAL ASSISTANCE AFTER GUARANTEE PERIOD
Oleoweb Srl is available for repairs of their products even when the period of guarantee has already run out.
Oleoweb Srl will carry out the repair also after several years of use (provided it is still cost convenient). The availability of spare parts made on Oleoweb drawing is guaranteed up to 5 years by ceased production. The cost of repair of our no longer under warranty products is normally calculated on the actual cost.
Any price request must be made expressly on delivery of the goods that have to be repaired. If the estimate will not be accepted, we will be anyway charging the costs we incurred for its formulation.
Every product sent back for the revision must be accompanied by:
1. Law Regular and complete transport document.
2. Defect identifying letter and reference of a Technical Manager for any clarifications.

2020 **- 20V**

THE ITALIAN QUALITY IN HYDRAULIC



Oleoweb
HYDRAULIC VALVES AND COMPONENTS

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ORGANIZATION WITH A
ISO 9001-2015
MANAGEMENT SYSTEM