

Feed Check Valves

Description

These valves are a development of screw-down stop valves and the design makes use of a conventional angle pattern stop valve to which is connected a separate inlet branch which houses the check valve. this check inlet branch is of unique design in that the check valve head and its guide are arranged below the face of the connecting flange enabling the branch to be withdrawn without disturbing the feed piping. with the stop valve closed this feature permits speedy examination and maintenance of the check valve seating when the boiler is under steam.



Sizes and pipe connections

Bronze feed check valve

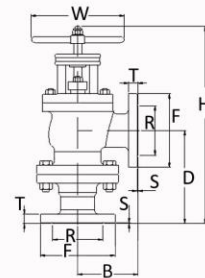
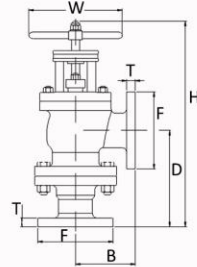
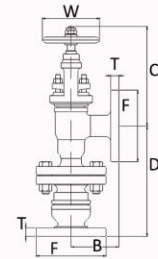
size	connection		F	T	B	D	C (open)	W
	inlet	outlet						
1"	BS.10 Table F	BS.10 Table F	121	14	80.5	186	179	92

Cast iron feed check valve

size	connection		F	T	B	D	W	H (open)
	inlet	outlet						
1½"	BS.10 Table F	BS.10 Table F	140	17	124	188	175	413
2"	BS.10 Table F	BS.10 Table F	165	19	130	205	175	435
3"	BS.10 Table F	BS.10 Table F	203	22	153	267	224	558

Cast steel feed check valve

size	connection		F	T	B	D	W	H (open)
	inlet	outlet						
1½"	BS.10 Table H	BS.10 Table H	140	17	124	188	175	413
2"	BS.10 Table H	BS.10 Table H	165	19	130	205	175	435
3"	BS.10 Table H	BS.10 Table H	203	22	153	267	224	558



Dimensions are approximate and in mm.

Feed Check Valves

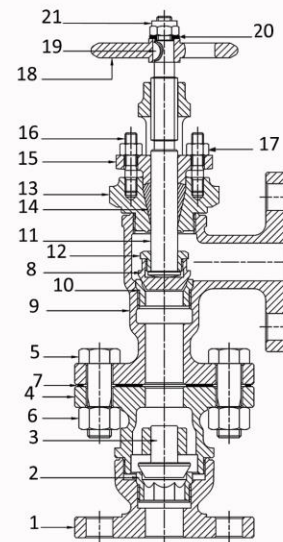
Limiting Conditions

Body material	Feed line pressure (bar)	Temperature (°C)
Bronze	11	Steam at saturation temp.
Cast iron	13.1	195
Cast steel	25	210

Material

Bronz body feed check valve

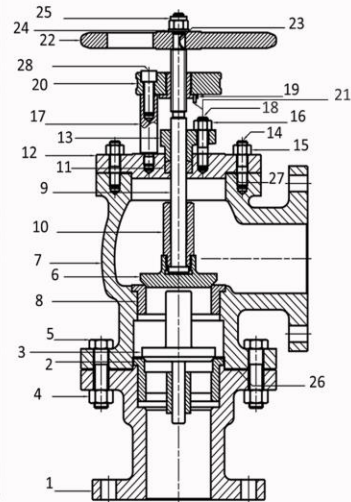
Num.	Part Name	Material
1	Check valve body	Bronze
2	Check valve seat ring	Stainless steel
3	Check valve disk	Stainless steel
4	Check valve bonnet	Bronze
5	Hex. Head screw	Steel
6	Hex. nut	Steel
7	Gasket	Compress fiber with binder
8	Feed valve disk	Stainless steel
9	Feed valve body	Bronze
10	Feed valve seat ring	Stainless steel
11	Stem	Brass
12	disk nut	Brass
13	Feed valve bonnet	Bronze
14	Gland packing	Teflon packing
15	Gland flange	Bronze
16	Stud	Steel
17	Hex. nut	Steel
18	Hand wheel	Cast iron (GG25)
19	woodruff key	Steel
20	washer	Steel
21	Hex. nut	Steel



Feed Check Valves

Cast iron and cast steel Body feed check valve

Num.	Part name	Cast iron check valve Material	Cast steel check valve Material
1	Check valve Body	Cast iron (GG25)	Cast steel (A216-WCB)
2	Check valve Seat Ring	Nickel alloy	Nickel alloy
3	Check valve Disk	Stainless steel	Stainless steel
4	Hex. Nut	Steel	Steel
5	Hex. Head screw	Steel	Steel
6	Feed valve disk	Stainless steel	Stainless steel
7	Feed valve body	Cast iron (GG25)	Cast steel (A216-WCB)
8	Feed valve seat ring	Stainless steel	Stainless steel
9	Stem	Stainless steel	Stainless steel
10	Disk Nut	Brass	Brass
11	Packing	Teflon packing	Teflon packing
12	Feed valve bonnet	ST 52	ST 52
13	Gland flange	Bronze	Bronze
14	Stud	Steel	Steel
15	Hex. Nut	Steel	Steel
16	Hex. Nut	Steel	Steel
17	Yoke Pedestal	ST37	ST37
18	Stud	Steel	Steel
19	Yoke Bushing	Brass	Brass
20	Yoke	ST 52	ST 52
21	Pin	Alloy steel	Alloy steel
22	Hand wheel	Cast iron (GG25)	Cast iron (GG25)
23	Woodruff Key	Steel	Steel
24	Washer	Steel	Steel
25	Nut	Steel	Steel
26	Gasket	Compress fiber with binder	Compress fiber with binder
27	Gasket	Compress fiber with binder	Compress fiber with binder
28	Hex. Socket head cap screw	Steel	Steel
29	Serial no. plaque	Stainless steel	Stainless steel



Feed check valve

Installation

- these valves are installed after the pump and before the boiler.
- feed check valves must be installed with the spindle vertical without vibrations.
- it is recommended to use the appropriate filter before the feed check valve.
- note that when you install gaskets sealing flange to cover the entire surface.
- washers that are used to feed check valve must be wired to be crushed under the pressure and with a lack of sealing will not damage the pump.
- when clamping flanges, make sure they do not tolerate.

How to order

connection size

working pressure and temperature: (bar,C)

