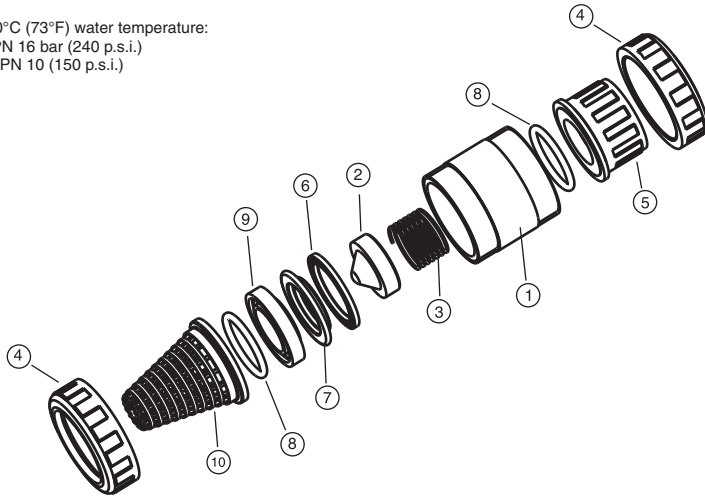


Check Valve - Spring Series

Characteristics

Working pressure at 20°C (73°F) water temperature:

- D16 - D63 (3/8"-2"): PN 16 bar (240 p.s.i.)
- D75 - D110 (2½"-4"): PN 10 (150 p.s.i.)



Components

Description	Material
1. Body	PVC / CPVC
2. Cone	PVC / CPVC
3. Spring	Inox. Steel AISI 302
4. Union nut	PVC / CPVC
5. End connector	PVC / CPVC
6. Cone o-ring	PVC / CPVC
7. Body o-ring	EPDM / Viton®
8. End connector o-ring	EPDM / Viton®
9. Seal-carrier	PVC / CPVC
10. Screen	PP

ENGLISH

Assembly Instructions

Solvent socket or threaded unions

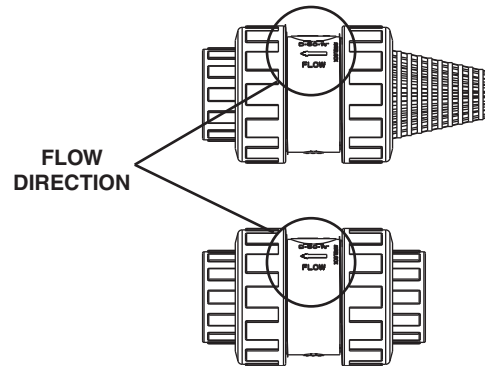
Loosen the union nuts (4) and separate these and the end connectors (5) from the valve body. Pass the pipe through the nuts and then place the bushes over the ends of the pipe. The solvent unions should be glued onto the pipe using a PVC adhesive and pressure should not be applied to the system until a drying period of at least 1 hour per 14.5 psi of working pressure has elapsed. In the case of threaded unions, PTFE tape should be applied to the male threads. The pipes can now be attached to the valve by hand tightening down the nuts.

Installation may be vertically and horizontally

Foot valve

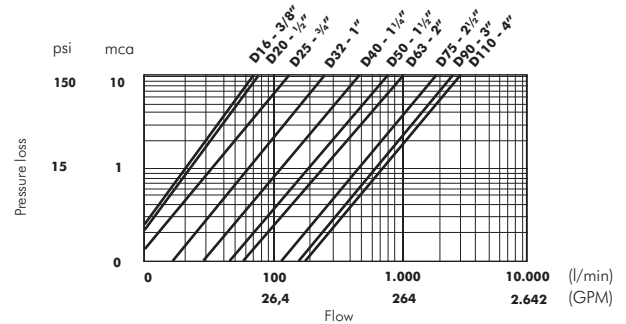
Use the screen instead of the end connector of the fluid entrance to transform the check valve into a foot valve.

Foot valves are a particular type of check valves which are installed on the base of an aspiration pipe of a pump to prevent the impulsion pipe from emptying. The valve must be installed between the pump and the tank in order to let the fluid access the pump and stopping it when returning to the tank. The entry of the valve is protected by a screen filter to prevent the entry of unwanted elements which could exist in the tank or deposit.

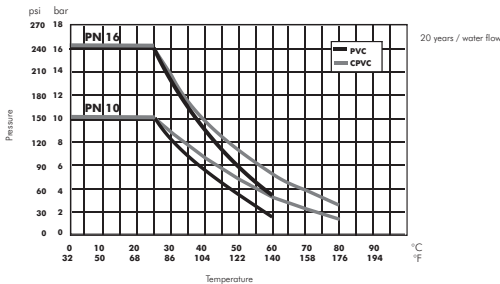


Pressure loss diagram

Check valve



Pressure / temperature diagramm



Relative flow chart

	Cv	Kv
D20 - ½"	68	5
D25 - ¾"	133	9
D32 - 1"	208	15
D40 - 1¼"	383	27
D50 - 1½"	667	47
D63 - 2"	850	60
D75 - 2½"	1533	107

Kv= l/min at 1 bar
 Cv= GPM at 1 psi

Pressure loss diagram

Foot valve

D16 - 3/8"		D20 - 1/2"		D25 - 3/4"		D32 - 1"		D40 - 1 1/4"		D50 - 1 1/2"		D63 - 2"		D75 - 2 1/2"		D90 - 3"		D110 - 4"	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
0.42	0.34	0.44	0.34	0.54	0.17	0.35	0.13	3.15	0.13	25.85	0.38	39.80	0.70	50.00	0.40	83.50	0.45	77.2	0.46
0.85	0.52	0.92	0.58	1.06	0.22	1.13	0.18	5.20	0.12	20.70	0.27	34.50	0.48	44.20	0.29	74.80	0.39	67.5	0.36
1.35	0.58	1.60	0.19	1.65	0.15	1.62	0.15	7.35	0.16	17.50	0.19	27.50	0.28	36.50	0.23	64.90	0.31	60.1	0.30
2.08	0.28	2.05	0.18	2.18	0.18	2.02	0.14	9.38	0.21	12.30	0.11	21.15	0.17	30.90	0.20	50.38	0.21	49.6	0.22
2.44	0.34	2.48	0.22	3.21	0.29	2.59	0.14	12.17	0.31	8.86	0.09	12.65	0.09	25.50	0.15	43.08	0.18	41.1	0.18
2.80	0.60	3.10	0.30	3.91	0.38	3.07	0.15	15.05	0.43	3.22	0.09	6.25	0.08	20.35	0.12	35.22	0.14	31.5	0.14
-	-	3.53	0.35	4.32	0.44	3.51	0.16	-	-	-	-	-	-	12.30	0.11	28.75	0.11	24.6	0.13
-	-	-	-	-	-	4.20	0.20	-	-	-	-	-	-	6.27	0.11	18.02	0.08	15.8	0.01
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.28	0.11	7.9	0.08

A= Flow (m³/h)
 B= Pressure loss (bar)