

DC Series True Union Ball Check Valve



SERIES: DC

SIZES: 1/2" to 2"

ENDS: Socket, Threaded or Flanged

SEALS: EPDM or FKM (Viton®)

Chemline DC Series PVC and CPVC True Union Ball Check valve is a popular type of non-return valve for smaller pipe sizes. It has good flow capacity and will handle many slurry and suspended solid services. This valve works in both horizontal and vertical lines.

Features

True Union Design

- Easy installation and maintenance

Moulded Elastomer Seat and High Surface Finish Ball

- For a secure seal even with low pressure

Self Cleaning Internals

- Suitable for many unclean services



PVC



CPVC

DC Series True Union Ball Check Valves



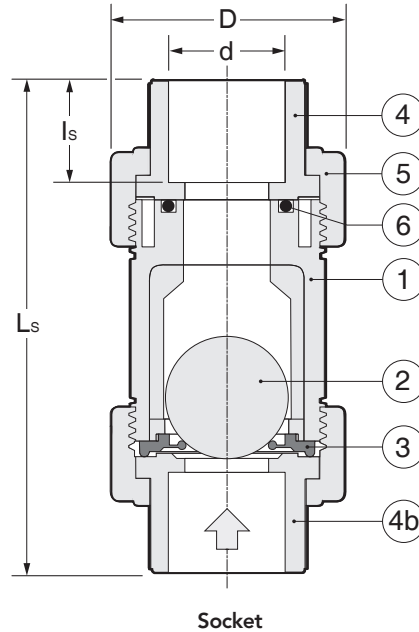
PARTS

▲ Recommended Spare Parts

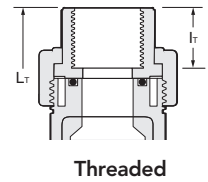
No.	Part	Pcs.	Materials
1	Body	1	PVC, CPVC
2	Ball	1	PVC, CPVC
3▲	Seat	1	EPDM, FKM (Viton®)
4	Top End Connector	2	PVC, CPVC
4b	Bottom (Inlet) End Connector	2	PVC, CPVC
5	Union Nut	2	PVC, CPVC
6▲	Face O-Ring	1	EPDM, FKM (Viton®)

PRESSURE TO OPEN/CLOSE PSI

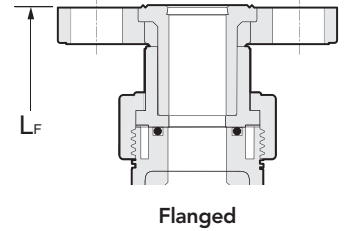
Size	Min. ΔP to Open Vertical	Min. ΔP to Close Vertical
1/2"	5.0	0.43
3/4"	5.0	0.43
1"	5.0	0.43
1-1/4"	5.0	0.43
1-1/2"	5.0	0.43
2"	5.0	0.43



Alternate Ends



Threaded



Flanged

DIMENSIONS INCHES

Size	D	d	Socket		Threaded		Flanged ¹
			L _s	L _s	L _T	L _T	L _F
1/2"	2.20	0.84	4.92	0.89	4.92	0.89	7.05
3/4"	2.20	1.05	4.92	1.01	4.92	1.01	7.28
1"	2.60	1.31	5.55	1.14	5.55	1.14	8.14
1-1/4"	3.86	1.66	6.69	1.33	6.69	1.33	9.48
1-1/2"	3.86	1.90	6.69	1.38	6.69	1.38	9.98
2"	4.72	2.37	8.03	1.52	8.03	1.52	11.42

¹ Flanged valves have cemented-on flanges. Dimension L_F is approximate. Before ordering, please specify a specific L_F if required.

NET WEIGHTS LBS. Cv VALUES WORKING PRESSURES PSI

Size			USGPM Flow @ 1 psi ΔP	PVC				CPVC			
	PVC	CPVC		20°C 68°F	30°C 94°F	40°C 105°F	50°C 120°F	20°C 68°F	40°C 105°F	60°C 140°F	80°C 170°F
1/2"	0.4	0.4	5	150	120	100	75	150	100	75	45
3/4"	0.4	0.5	15	150	120	100	75	150	100	75	45
1"	0.7	0.7	29	150	120	100	75	150	100	75	45
1-1/4"	1.8	1.9	75	150	120	100	75	150	100	75	45
1-1/2"	1.9	1.9	90	150	120	100	75	150	100	75	45
2"	3.4	3.5	140	150	120	100	75	150	100	75	45

Maximum Temperature: 60°C (140°F)

ORDERING EXAMPLE

Chemline DC Series True Union Ball Check	DC	A	015	E	S
Material	A – PVC	C – CPVC			
Size	005 – 1/2"	007 – 3/4"	010 – 1"		
	012 – 1-1/4"	015 – 1-1/2"	020 – 2"		
Seals	E – EPDM	V – FKM (Viton®)			
Ends	S – Socket	T – Threaded	F – Flanged		

Example: Chemline DC Series True Union Ball Check, 1-1/2", with EPDM seals, socket ends

INSTALLATION RECOMMENDATIONS

- Install at least 5 pipe diameters from fittings or valves
- Install at least 10 pipe diameters from pump outlet
- Maximum recommended fluid velocity 5 m/s (16 ft/sec.)