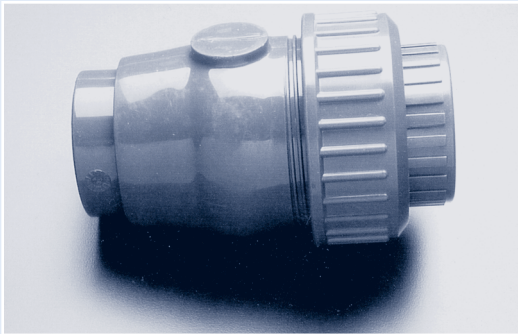


Ball Check Valve & Foot Valve Strainer Kits

FEATURES

- All Engineered Thermoplastic - PVC, CPVC, PP and PVDF construction
- Excellent flow characteristics
- Union end connector allows for maintenance
- Viton® or EPDM O-Rings
- Valve will operate with equal effectiveness in horizontal or vertical position
- Ball supported by guide ribs to give full flow with minimum turbulence and chatter
- Easily converted to foot valve with installation of strainer kit
- Floating ball design for positive seal
- Single union design permits removal of valve body for service



Ball check valves are used to prevent backflow. These valves can be installed vertically or horizontally.

Fluid Flow Coefficient

Valve Size (in)	Valve Size (mm)	Cv*
1/2	15	5
3/4	20	10
1	25	19
1-1/4	32	37
1-1/2	40	56
2	50	101
3	75	251

*U.S. Gallons per minute @ 1 psi

Maximum Suggested Design Pressure (PSI) @ 73°F

Nom Size (in)	Nom Size (mm)	PVC CPVC	PP PVDF
1/2	15	150	150
3/4	20	150	150
1	25	150	150
1-1/4	32	150	150
1-1/2	40	150	150
2	50	150	150
3	75	150	150

Temperature Correction Factors

Operating Temp (°F)	Factors			
	PVC	CPVC	PP	PVDF
70	1.00	1.00	1.00	1.00
80	0.90	0.96	0.97	0.95
90	0.75	0.92	0.91	0.87
100	0.62	0.85	0.85	0.80
110	0.50	0.77	0.80	0.75
115	0.45	0.74	0.77	0.71
120	0.40	0.70	0.75	0.68
125	0.35	0.66	0.71	0.66
130	0.30	0.62	0.68	0.62
140	0.22	0.55	0.65	0.58
150	N.R.	0.47	0.57	0.52
160	N.R.	0.40	0.50	0.49
170	N.R.	0.32	0.26	0.45
180	N.R.	0.25	*	0.42
200	N.R.	0.18	N.R.	0.36
210	N.R.	0.15	N.R.	0.33
240	N.R.	N.R.	N.R.	0.25
280	N.R.	N.R.	N.R.	0.18

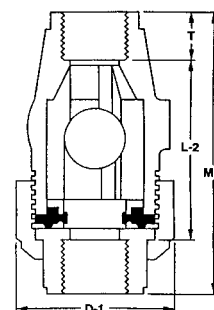
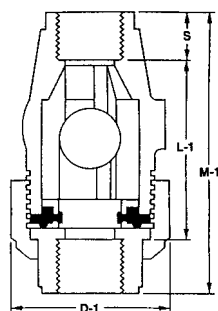
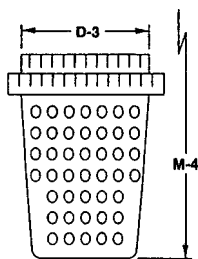
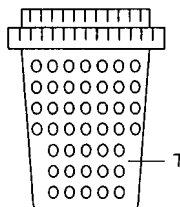
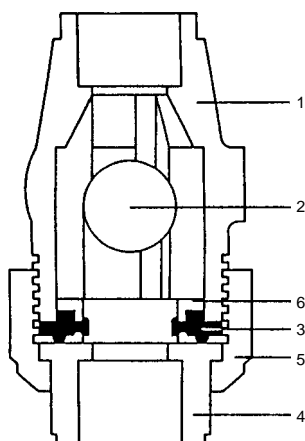
* Recommended for intermittent drainage pressure not exceeding 20 psi
N.R. - Not Recommended

Ball Check Valve & Foot Valve Strainer Kits Specifications

Components and Materials

Part No.	Component	Qty	Material
1	Body	1	PVC, CPVC, PP, PVDF
2	Ball	1	PVC, CPVC, PP, PVDF
3	Ball Seat	1	Viton®
4	Connector	1	PVC, CPVC, PP, PVDF
5	Union Nut	1	PVC, CPVC, PP, PVDF
6	Stop Ring	1	PVC, CPVC, PP, PVDF
7	Strainer	1	PVC, CPVC, PP, PVDF

Viton® is a registered trademark of Dupont Dow Elastomers.



Ball Check Valve Strainer Kit- Part Numbers

Size/No	07	08	09	10	11	12	14
Material	1/2"/15mm	3/4"/20mm	1"/25mm	1-1/4"/32mm	1-1/2"/40mm	2"/50mm	3"/75mm
PVC	31810007	31810008	31810009	31810010	31810011	31810012	31810014
CPVC	32810007	32810008	32810009	32810010	32810011	32810012	32810014

Ball Check Valve - Part Numbers

Material	Size/No.	07	08	09	10	11	12	14
	Type/Size	1/2"/15mm	3/4"/20mm	1"/25mm	1-1/4"/32mm	1-1/2"/40mm	2"/50mm	3"/75mm
PVC/EPDM	Socket	31817007	31817008	31817009	31817010	31817011	31817012	31817014
	Threaded	31818007	31818008	31818009	31818010	31818011	31818012	31818014
PVC/VITON	Socket	31801007	31801008	31801009	31801010	31801011	31801012	31801014
	Threaded	31800007	31800008	31800009	31800010	31800011	31800012	31800014
CPVC/VITON	Socket	32801007	32801008	32801009	32801010	32801011	32801012	32801014
	Threaded	32800007	32800008	32800009	32800010	32800011	32800012	32800014
PP/VITON	Socket	34801007	34801008	34801009	34801010	34801011	34801012	34801014
	Threaded	34800007	34800008	34800009	34800010	34800011	34800012	34800014

Dimensions

Valve Size	M1		M2		M4		D1		D3		S		T		End to End				
															L1 Socket		L2 Threaded		
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
1/2"	15	3.87	98.30	3.68	93.47	5.58	141.73	1.99	50.55	2.39	60.71	0.83	21.08	0.83	21.08	2.19	55.63	2.18	55.37
3/4"	20	4.68	118.87	4.24	107.70	6.19	157.23	2.43	61.72	2.86	72.64	1.00	25.40	0.76	19.30	2.60	66.04	2.79	70.87
1"	25	5.04	128.02	4.80	121.92	7.29	185.17	2.80	71.12	3.29	83.57	1.14	28.96	0.96	24.38	2.82	71.63	2.97	75.44
1-1/4"	32	5.92	150.37	5.90	149.86	9.04	229.62	3.78	96.01	4.28	108.71	1.25	31.75	0.98	24.89	3.62	91.95	3.87	98.30
1-1/2"	40	5.92	150.37	5.76	146.30	9.04	229.62	3.78	96.01	4.28	108.71	1.25	31.75	1.14	28.96	3.62	91.95	3.70	93.98
2"	50	7.18	182.37	6.59	167.39	11.14	282.96	4.17	105.92	4.77	121.16	1.52	38.61	1.22	30.99	4.24	107.70	4.43	112.52
3"	50	8.62	218.95	8.55	217.17	0.00	0.00	7.17	182.12	0.00	0.00	1.91	48.51	1.94	49.28	4.81	122.17	4.69	119.13