



True Union Ball Check Valve

Specifications

- Sizes:** True Union : 1/2" - 2"
Single Union: 3" - 4"
- Models:** Socket, Threaded, Flanged (ANSI), Butt End
- Bodies:** PVC, CPVC, PP and PVDF
- Seats:** EPDM, FKM, PTFE
- Seals:** EPDM, FKM, PTFE
- Option:** Foot Valve

Sizes 1/2" - 4" PVC/EPDM/FKM Models
NSF-61 Certified

Standard Features (Sizes 1/2" - 2")

- Uniseat/seal of EPDM or FKM
- Ball is the only moving part. It unseats to permit flow in one direction but seals against seat to prevent back flow
- May be used vertically or horizontally
- Minimum shut-off of 5psi
- All sizes rated for full vacuum service
- Solid thermoplastic ball

Options:

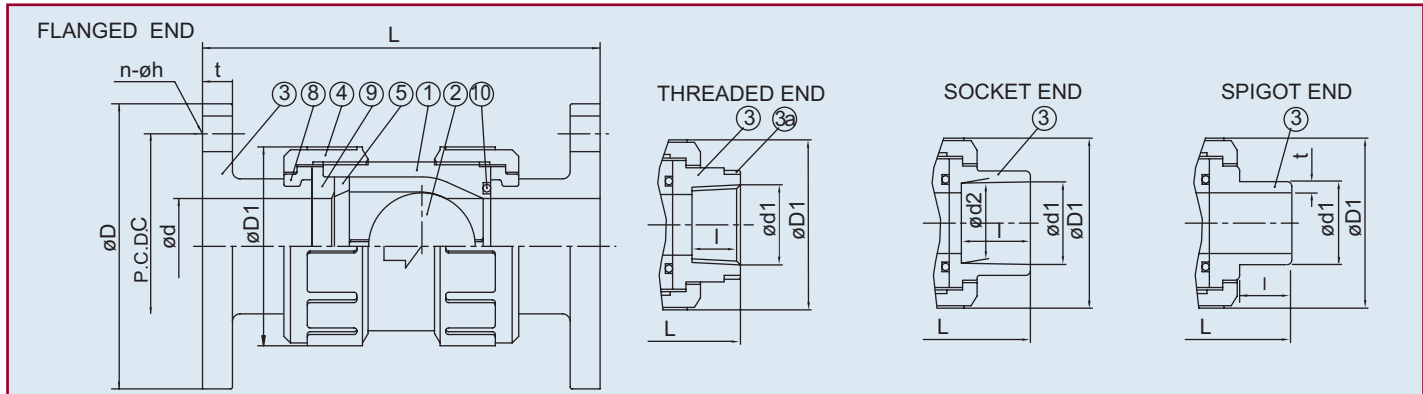
- PTFE coated FKM uniseat/seal
- Spring-loaded ball to assist ball in seating faster

Parts List – True Union (Sizes 1/2" - 2")

PARTS			
NO.	DESCRIPTION	PCS.	MATERIAL
1	Body	1	PVC, CPVC, PP, PVDF
2	Ball	1	PVC, CPVC, PP, PVDF
3	End Connector	2	PVC, CPVC, PP, PVDF
4	Union Nut	2	PVC, CPVC, PP, PVDF
5	Stop Ring (A)	1	PVC, CPVC, PP, PVDF
8	Stop Ring (B)*	1	PVDF
9	Seat	1	EPDM, FKM, PTFE
10	O-Ring	1	EPDM, FKM, PTFE
3a	Ring**	1	Stainless Steel 304

* Used for flanged end.

** Used for CPVC body, threaded end; 1/2" - 1".



Dimensions (Sizes 1/2" - 2") (in.)

NOMINAL SIZE	FLANGED							THREADED							SOCKET												SPIGOT (BUTT END)				
	ANSI CLASS 150														PVC, CPVC				PP, PVDF (DIN)				PP, PVDF (IPS)				PP, PVDF				
	D	C	n	h	L	t		d1	/	L	d	D1	d1	d2	/	L	d1	d2	/	L	d1	/	L	d1	/	L	d1	/	t	t	L
1/2	15	3.50	2.38	4	0.62	5.12	0.47	1/2 - 14NPT	0.59	3.39	0.59	1.89	0.848	0.836	0.688	3.43	0.768	0.760	0.57	3.19	0.83	0.87	3.31	0.787	0.728	0.098	0.075	4.00			
3/4	20	3.88	2.75	4	0.62	6.10	0.55	3/4 - 14NPT	0.67	4.06	0.79	2.36	1.058	1.046	0.719	3.86	0.965	0.957	0.63	3.70	1.03	1.00	4.43	0.984	0.866	0.106	0.075	4.35			
1	25	4.25	3.12	4	0.62	6.50	0.55	1 - 11-1/2NPT	0.79	4.45	0.98	2.76	1.325	1.310	0.875	4.37	1.240	1.232	0.71	4.13	1.30	1.13	4.35	1.260	0.866	0.118	0.094	4.75			
1-1/4	32	-	-	-	-	-	-	1-1/4 - 11-1/2NPT	0.87	5.00	1.22	3.78	1.670	1.655	0.938	4.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-1/2	40	5.00	3.88	4	0.62	7.56	0.63	1-1/2 - 11-1/2NPT	0.98	5.94	1.57	3.78	1.912	1.894	1.094	5.94	1.947	1.937	0.93	5.62	1.89	1.37	5.57	1.969	1.260	0.181	0.118	5.75			
2	50	6.00	4.75	4	0.75	8.43	0.63	2 - 11-1/2NPT	1.10	6.97	2.01	4.17	2.387	2.369	1.156	6.77	2.461	2.445	1.08	6.69	2.36	1.50	6.49	2.480	1.417	0.228	0.118	6.50			

Ball Check

Single Union



Parts List – Single Union (Sizes 3" – 4")

PARTS			
NO.	DESCRIPTION	PCS.	MATERIAL
1	Body	1	PVC, CPVC, PP, PVDF
2	Ball	1	PVC, CPVC, PP, PVDF
3	End Connector	1	PVC, CPVC, PP, PVDF
4	Union Nut	1	PVC, CPVC, PP, PVDF
5	Stop Ring [A]	1	PVC, CPVC, PP, PVDF
8	Flange	1	PVC, CPVC, PVDF
9	Stub	1	PVC, CPVC, PVDF
10	Stop Ring [B]*	1	PVDF
3a	Seat	1	EPDM, FKM, PTFE

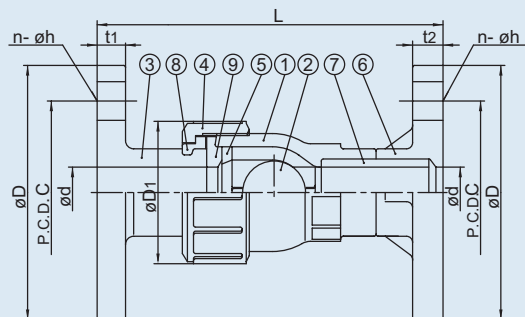
* Used for flanged end

Single Union Ball Check Valves

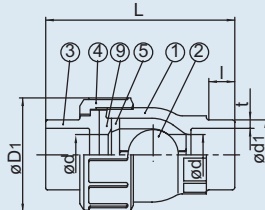
Dimensions (Sizes 3" – 4") (in.)

NOMINAL SIZE				FLANGED								SOCKET												THREADED			SPIGOT (BUTT END)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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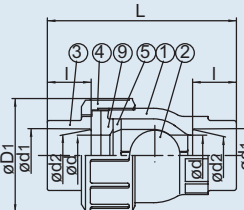
FLANGED END



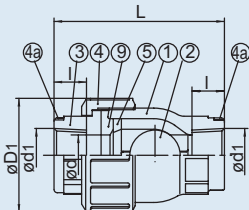
SPIGOT END



SOCKET END



THREADED END



True Union, Single Union, and Foot Valve Weight (lbs.)

NOMINAL SIZE		SOCKET	FLANGED
INCHES	mm		
1/2	15	0.22	0.66
3/4	20	0.44	1.10
1	25	0.66	1.54
1-1/2	40	1.54	2.20
2	50	2.20	3.31
3	80	6.17	9.92
4	100	14.99	24.25

Cv Values

NOMINAL SIZE		Cv
INCHES	mm	
1/2	15	6.5
3/4	20	17
1	25	25
1-1/2	40	86
2	50	130
3	80	280
4	100	500

Sample Specification

All ball check valves and foot valves shall be of solid thermoplastic construction, and shall be designed with an elastomeric uniseat/seal for tight shut-off under pressure. Sizes 1/2" through 2" shall be of true union design, while 3" & 4" shall be single union design. The same seal shall function as both the ball seat and the union seal. PVC shall conform to ASTM D1784 Cell Classification 12454A, CPVC shall conform to ASTM D1784 Cell Classification 23567A, PP shall conform to ASTM D4101 Cell Classification PPO210B67272 and PVDF shall conform to ASTM D3222 Cell Classification Type II. Ball check valves and foot valves sizes 1/2"- 2" shall be rated 150psi at 70° F, 3" and 4" rated 100psi at 70° F, as manufactured by Asahi/America, Inc.

Part Numbers

Ball Check Valves

Body	Elastomer	Connection	1/2" - 2"	3" - 4"
PVC	EPDM	Soc	1210***	1210***
PVC	EPDM	Thd	1210***	1211***
PVC	EPDM	Flg	1212***	1212***
PVC	FKM	Soc	1213***	1213***
PVC	FKM	Thd	1213***	1214***
PVC	FKM	Flg	1215***	1215***
CPVC	EPDM	Soc	1216***	1216***
CPVC	EPDM	Thd	1216***	1217***
CPVC	EPDM	Flg	1218***	1218***
CPVC	FKM	Soc	1219***	1219***
CPVC	FKM	Thd	1219***	1220***
CPVC	FKM	Flg	1221***	1221***
PP	FKM	DIN Soc	1276***	1276***
PP	FKM	IPS Soc	1226***	1226***
PP	FKM	Thd	1227***	1227***
PP	FKM	Butt	1228***	1228***
PP	FKM	Flg	1229***	1229***
PVDF	FKM	DIN Soc	1290***	1290***
PVDF	FKM	IPS Soc	1230***	1230***
PVDF	FKM	Thd	1231***	1231***
PVDF	FKM	Butt	1232***	1232***
PVDF	FKM	Flg	1233***	1233***

Swing Check Valves

Body	Seat	Connection	3/4" - 8"
PVC	EPDM	Flg	1201***
PP	EPDM	Flg	1202***
PVDF	Teflon	Flg	1203***

Wafer Check Valves

Body	Connection	4" - 12"
PVC	with out spring	111201***
PVC	with spring	111206***

Ball Foot Valves

Body	Elastomer	Connection	1/2" - 2"
PVC	EPDM	Soc	1235***
PVC	EPDM	Thd	1236***
PVC	EPDM	Flg	1237***
PVC	FKM	Soc	1238***
PVC	FKM	Thd	1239***
PVC	FKM	Flg	1240***

Globe Valves

Body	Elastomer	Connection	1/2" - 4"
PVC	EPDM	Soc	1260***
PVC	EPDM	Thd	1261***
PVC	EPDM	Flg	1262***
PP	EPDM	DIN Soc	1264***
PP	EPDM	IPS Soc	1267***
PP	EPDM	Thd	1265***
PP	EPDM	Flg	1266***

Globe Control Valves

Body	Elastomer	Actuated	1/2" - 4"
PVC	Flg	Pneumatic	2501***
PVC	Flg	Electric	2201***
PP	Flg	Pneumatic	2502***
PP	Flg	Electric	2202***
PTFE	Flg	Pneumatic	2503***
PTFE	Flg	Electric	2203***
PVDF	Flg	Pneumatic	2504***
PVDF	Flg	Electric	2204***

Gate Valves

Body	Elastomer	Connection	1/2" - 4"
PVC	EPDM	Soc	1260***
PVC	EPDM	Thd	1261***
PVC	EPDM	Flg	1262***
PP	EPDM	DIN Soc	1264***
PP	EPDM	IPS Soc	1267***
PP	EPDM	Thd	1265***
PP	EPDM	Flg	1266***