

Type 20 True Union Ball Valves



SERIES: Type 20

SIZES: 1/2" to 4"

ENDS: Socket, Threaded or Flanged

SEATS: PTFE

SEALS: EPDM or FKM (Viton®)



PVC

Chemline's **Type 20** is a general purpose True Union ball valve available in PVC and CPVC. The Type 20 have features of high-end valves without the high price.

They are competitively priced for pools, fountains, irrigation and fertigation applications.

Features

True Union Design

- Installation and maintenance is fast and inexpensive
- Valves may be rotated 360° to position handle

Fully Blocking

- Downstream union nut may be safely disassembled for piping maintenance while valve is closed off under full pressure

Double Stem O-Rings

- Reduces the possibility of stem leakage

150 psi Working Pressure

Easy to Actuate

- Electric or pneumatic actuation is available using ISO standard mounting kits

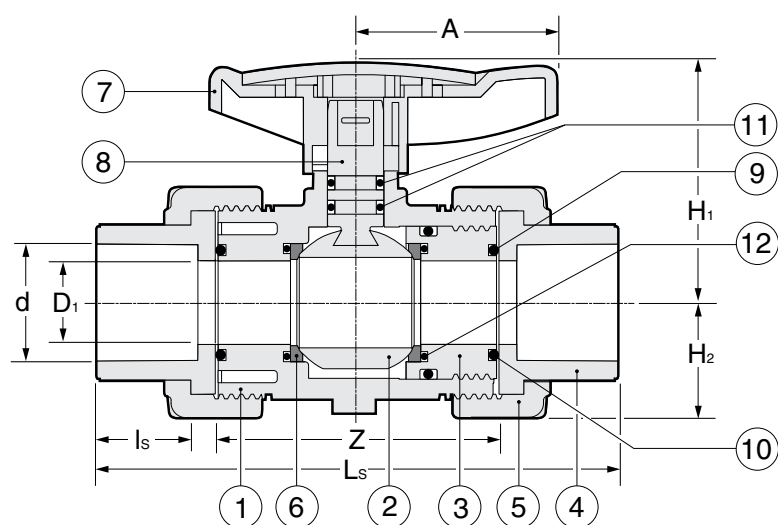
Panel Mountable

- Optional threaded inserts in valve base allow valve to be securely anchored to panel or support



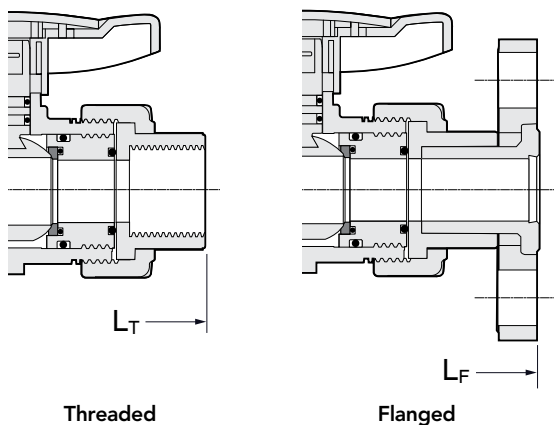
CPVC

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Socket Ends

Alternate End Connections



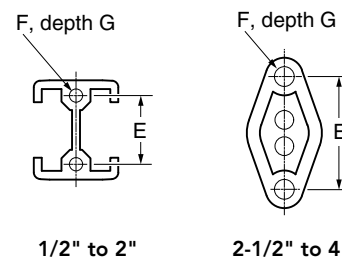
Threaded

Flanged

PARTS

No.	Part	Pcs.	Materials
1	Body	1	PVC, CPVC
2	Ball	1	PVC, CPVC
3	Carrier	1	PVC, CPVC
4	End Connector	2	PVC, CPVC
5	Union Nut	2	PVC, CPVC
6	Ball Seat	2	PTFE
7	Handle	1	ABS
8	Stem	1	PVC, CPVC
9	Face O-Ring	1	EPDM, FKM (Viton®)
10	Carrier O-Ring	1	EPDM, FKM (Viton®)
11	Stem O-Ring	2	EPDM, FKM (Viton®)
12	Seat Cushion	2	EPDM, FKM (Viton®)

Bottom View



1/2" to 2"

2-1/2" to 4"

DIMENSIONS INCHES

Size	A	D ₁	D ₂	d	H ₁	H ₂	L _s	L _s	L _T	L _F ¹	Z	E	F UNC	G
1/2"	1.8	0.51	1.81	0.84	1.9	0.93	0.89	4.57	4.57	6.7	2.44	1.18	10-24	0.31
3/4"	2.1	0.75	2.20	1.05	3.0	1.14	1.01	5.24	5.24	7.6	2.83	1.30	10-24	0.31
1"	2.3	0.98	2.60	1.31	2.3	1.38	1.14	5.91	5.91	8.5	3.15	1.57	1/4-20	0.47
1-1/4"	2.6	1.22	3.23	1.66	6.0	1.67	1.33	6.61	6.61	9.4	3.43	1.85	5/16-18	0.43
1-1/2"	2.7	1.57	3.86	1.90	2.7	1.99	1.38	6.81	6.81	10.1	3.70	2.13	5/16-18	0.47
2"	3.2	1.97	4.72	2.37	2.0	2.40	1.52	8.11	8.11	11.5	4.41	2.76	5/16-18	0.59
2-1/2"	6.7	2.95	6.38	2.87	2.9	3.23	1.77	10.00	10.00	14.5	5.79	1.95	5/16-18	0.59
3"	4.7	2.95	6.38	3.50	9.0	3.23	1.89	10.31	10.31	14.9	5.79	1.95	5/16-18	0.59
4"	5.5	3.94	8.66	4.49	3.5	4.37	2.26	12.24	12.24	17.2	6.97	2.83	3/8-16	0.59

¹ Dimension L_F is approximate for welded flanged valves. Before ordering, please specify a specific L_F if required.

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WORKING PRESSURES PSI									NET WEIGHTS LBS.	Cv VALUES	
Size	PVC			CPVC					PVC Socket	CPVC Socket	USGPM Flow at 1 psi ΔP
	20°C 68°F	40°C 104°F	50°C 122°F	20°C 68°F	40°C 104°F	50°C 122°F	60°C 140°F	80°C 176°F			
1/2"	150	95	75	150	115	100	80	45	0.4	0.4	8
3/4"	150	95	75	150	115	100	80	45	0.6	0.6	15
1"	150	95	75	150	115	100	80	45	0.9	1.0	29
1-1/4"	150	95	75	150	115	100	80	45	1.4	1.5	75
1-1/2"	150	95	75	150	115	100	80	45	2.2	2.3	90
2"	150	95	75	150	115	100	80	45	3.6	4.1	140
2-1/2"	150	95	75	150	115	100	80	45	8.1	8.6	330
3"	150	95	75	150	115	100	80	45	8.1	8.7	480
4"	150	95	75	150	115	100	80	45	16.6	17.2	600

Temperature Range: PVC 0 to 50°C (32 to 122°F), CPVC 0 to 80°C (32 to 176°F)

OPTIONS & ACCESSORIES

- Electric or Pneumatic Actuation
- Base Mount Threaded Inserts – for panel mounting
- Valve Tags – stainless steel or plastic

ORDERING EXAMPLE

Chemline Type 20 True Union Ball Valve		20	A	005	E	S
Body Material		A – PVC C – CPVC				
Size		005 – 1/2" 007 – 3/4" 010 – 1" 012 – 1-1/4" 015 – 1-1/2" 020 – 2" 025 – 2-1/2" 030 – 3" 040 – 4"				
Seals		E – EPDM V – FKM (Viton®)				
Ends		S – Socket T – Threaded F – Flanged				

Example: Chemline Type 20 PVC True Union Ball Valve, 1/2", EPDM seals, socket end connectors

Type 20.DS.08.19.24