

Type 23 Multiport Ball Valves



SERIES: Type 23

SIZES: 1/2" to 4"

ENDS: Socket, Threaded, Flanged, Butt¹ or ChemFlare™

SEATS: PTFE

SEALS: EPDM or FKM (Viton®)



The Chemline Type 23 Multiport Ball Valve has a vertical third port. It eliminates the need for two standard ball valves and a tee in many cases. A choice of flow patterns is available. L-Port is supplied standard.

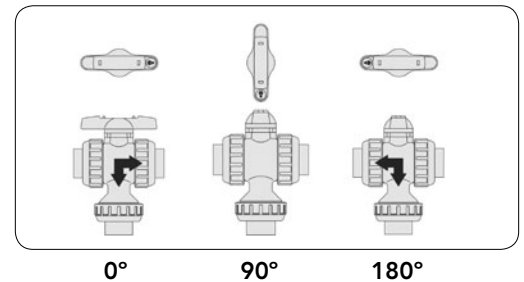
Features

Choice of Flow Patterns

L-Port (standard) Ball – 180° Operation

Bottom port common, with 3 positions, 2 flow patterns

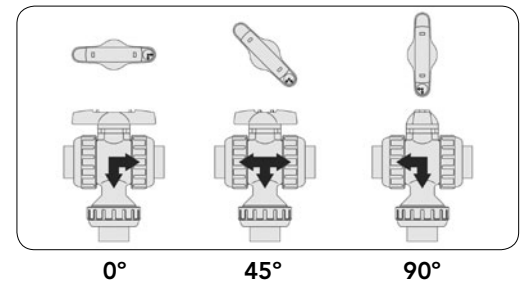
- 0° = bottom to right port only, full port
- 90° = all ports closed
- 180° = bottom to left port only, full port



Double L-Port Ball – 90° Operation

Bottom port common, 3 positions, 3 flow patterns

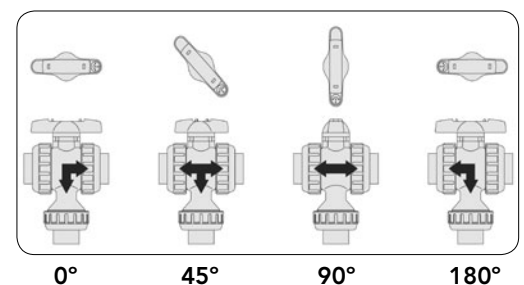
- 0° = bottom to right port only, full port
- 45° = all ports open, reduced port
- 90° = bottom to left port only, full port



X-Port Ball – 90° or 180° Operation

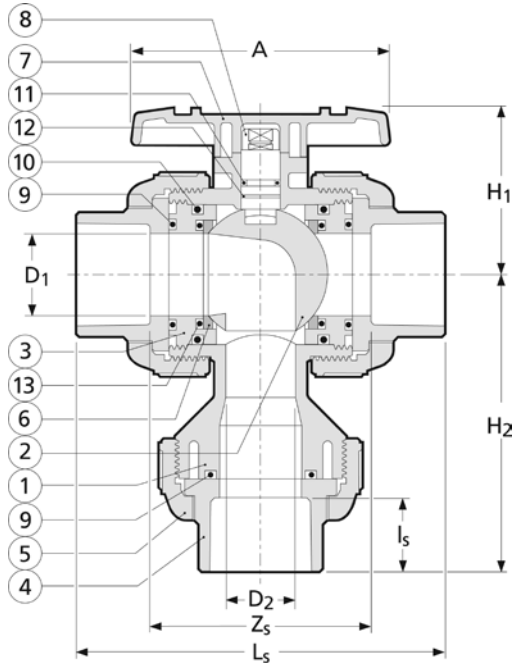
Either side port common, 3 or 4 positions, 4 flow patterns

- 0° = bottom to right port only, reduced port
- 45° = all ports open, reduced port
- 90° = left to right ports only, reduced port
- 180° = bottom to left port only, reduced port



¹ Butt ends for fusion to Chemline metric PP, PVDF or ECTFE (Halar®) piping

Type 23 Multiport Ball Valves



PARTS

▲ Recommended Spare Parts

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

¹ PVC, CPVC and PP valves are fitted with EPDM seals (Parts 9 to 12) as standard, PVDF valves with FKM (Viton®)

DIMENSIONS INCHES

WEIGHT LB.

Cv VALUES

Size	End Connections														End Connections				USGPM Flow at 1 psi ΔP
	Socket			Threaded		Flanged ¹		Spigot/Butt		End Connections									
	PVC/CPVC							PP/PVDF		Socket		Threaded							
	A	D ₁	D ₂	H ₁	L _s	Z _s	I _s	H ₂	L _T	H ₂	L _F	H ₂	L _B	H ₂	PVC	CPVC	PP	PVDF	
1/2"	3.6	0.59	0.59	2.03	4.45	2.70	0.88	3.08	4.02	2.89	6.57	4.14	4.88	3.27	0.4	0.4	0.4	0.9	7.4
3/4"	3.9	0.79	0.79	2.34	5.08	3.08	1.00	3.56	4.72	3.48	7.46	4.75	5.67	3.90	0.9	0.9	0.4	0.9	10.
1"	4.3	0.98	0.98	2.68	5.75	3.50	1.13	4.32	5.16	4.13	8.38	5.63	6.06	4.53	1.3	1.3	0.9	1.5	23.
1-1/2"	5.2	1.57	1.26	3.50	7.24	4.49	1.38	5.71	6.42	5.53	10.55	7.37	6.85	6.02	2.9	3.1	2.0	3.7	43.
2"	6.3	2.01	1.69	4.04	8.23	5.23	1.50	6.66	7.76	6.61	11.67	8.38	8.82	7.01	5.5	6.0	3.7	6.8	59.
3"	9.5	3.07	2.70	5.51	11.10	7.35	1.88	9.59	10.39	9.25	15.73	11.90	11.61	9.69	13.2	13.2	7.7	14.3	130.
4"	11.8	3.94	3.54	7.01	13.90	9.87	2.00	11.58	14.17	11.77	18.84	14.05	12.72	11.85	29.8	30.9	18.7	34.2	260.

¹ Glued on flanges, dimensions may vary, consult Chemline before ordering

WORKING PRESSURES PSI

VACUUM RATING • 29.9 inches mercury

Size	PVC		CPVC			PP				PVDF			
	0-50°C 32-122°F	0-50°C 32-122°F	60°C 140°F	80°C 176°F	90°C 194°F	-20-30°C -4-86°F	50°C 122°F	60°C 140°F	80°C 176°F	-20-60°C -4-140°F	80°C 176°F	90°C 194°F	100°C 212°F
1/2"–2"	150	150	120	90	60	150	90	90	60	150	125	110	90
3"–4"	150	150	90	60	45	150	75	75	45	150	105	90	75

Temperature Ranges: PVC 0 to 50°C (32 to 122°F), CPVC 0 to 95°C (32 to 203°F), PP -20 to 80°C (-4 to 176°F), PVDF -40 to 100°C (-40 to 212°F)

ORDERING EXAMPLE

Chemline Multiport Ball Valves	23	A	015	E	S	-
Body Material	A – PVC B – PP	C – CPVC K – PVDF				
Size	005 – 1/2" 015 – 1-1/2"	007 – 3/4" 020 – 2"	010 – 1" 030 – 3"	040 – 4"		
Seals	E – EPDM V – FKM (Viton®)					
Ends	S – Socket T – Threaded F – Flanged B – Butt ² CF – ChemFlare™					
Ball Type	Blank – L-Port X – X-Port LL – Double L-Port					

OPTIONS & ACCESSORIES

- Electrically or Pneumatically Actuated
- Refer to separate data sheets

Example: Chemline Type 23 Multiport Ball Valve, standard L-Port, PVC, 1-1/2", with EPDM seals, socket ends. ²PP, PVDF and ECTFE (Halar®) metric butt fusion ends (1/2" to 4") connect to Chemline PP, PVDF and ECTFE (Halar®) piping systems.

Type 23.DS.10.12.22