



CHEMLINE TYPE 23 MULTI-PORT BALL VALVES



SERIES: Type 23

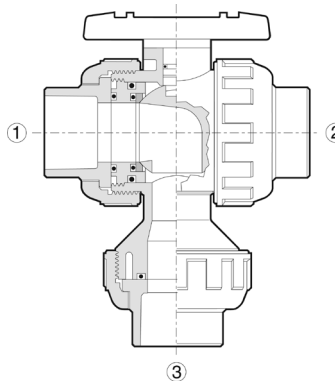
SIZES: 1/2" – 4"

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

SEATS: PTFE

SEALS²: EPDM, FKM (Viton®), CPE³

CRN
Registered
Chemline



Features

Choice of Flow Patterns

Integral Actuator Mounting Platform

- Actuation is easy. Electric or pneumatic actuators may be mounted in the field⁵

Fully Blocking

- Downstream union nut may be safely disassembled for piping maintenance while valve is closed off under full system pressure
- Handle works as a tool for accessing internal parts

Safety Shear Stem Design

- Stem has double o-rings
- Designed to hold full pressure even if stem breaks due to excessive torque

High Chemical Resistant Material

- PVC and CPVC compounds have an "A" chemical resistance rating as per ASTM D-1784

CRN Registration numbers by province

- Ontario: OC11045.5
- Newfoundland: OC11045.50
- Saskatchewan/Manitoba/Quebec: OC11045.56
- New Brunswick: OC11045.57
- Nova Scotia: OC11045.58
- P.E.I.: OC11045.59
- British Columbia: not required
- Alberta: not required⁷

Three Positions of L-Port Operation:

1. Port ① & ③ open, as illustrated
2. Shut-off – handle turned 90°
3. Port ② & ③ open – handle turned 180°

Three Positions of X-Port⁶ Operation:

- No Shut-off is possible with X-Port
1. Port ① & ③ open, as illustrated
 2. Flow through ① & ② – handle turned 90°
 3. Port ② & ③ open – handle turned 180°

Two Positions of 90° Operation:

- Required for pneumatic actuation
1. Port ① & ③ open, as illustrated
 2. Port ② & ③ open – handle turned 90°

Two Positions of T-Port Operation:

1. Port ①, ② & ③ open
2. Shut-off – handle turned 90°

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

² Other seal materials are available special order.

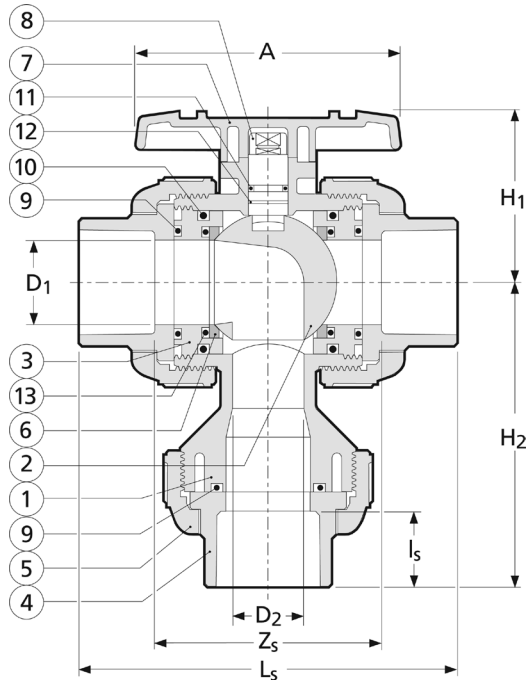
³ CPE=Chlorinated Polyethylene.

⁴ PVC valves with EPDM or FKM (Viton®) seals are certified under NSF/ANSI Standard 61 for contact with drinking water.

⁵ For operation with pneumatic actuators, 90° operating ball is recommended.

⁶ Available 1/2" to 2" only.

⁷ Not required for non-expandable fluids.



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®)

¹PVC, 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		Socket		Threaded		PVC	CPVC	PP	PVDF	
	L _s	Z _s	I _s	H ₂	L _T	H ₂	L _F	H ₂	PVC	CPVC	PP	PVDF					
1/2"	4.45	2.70	0.88	3.08	4.02	2.89	5.63	3.70	0.4	0.4	0.4	0.9	7.4				
3/4"	5.08	3.08	1.00	3.56	4.72	3.48	6.77	4.50	0.9	0.9	0.4	0.9	10.				
1"	5.75	3.50	1.13	4.32	5.16	4.13	7.36	5.24	1.3	1.3	0.9	1.5	23.				
1-1/2"	7.24	4.49	1.38	5.71	6.42	5.53	8.35	6.50	2.9	3.1	2.0	3.7	43.				
2"	8.23	5.23	1.50	6.66	7.76	6.61	9.21	7.34	5.5	6.0	3.7	6.8	59.				
3"	11.10	7.35	1.88	9.59	10.39	9.25	11.97	10.06	13.2	13.2	7.7	14.3	130.				
4"	13.90	9.87	2.00	11.58	14.17	11.77	14.65	12.01	29.8	30.9	18.7	34.2	260.				

¹ Factory Flanged lengths.

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 Multi Port 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®) C – CPE N – Nitrile A – Aflas®					
Ends	S – Socket T – Threaded F – Flanged B – Butt ² CF – ChemFlare™					
Ball Type	Blank – L-Port X – X-Port T – T-Port 90 – 90° Operation					

OPTIONS & ACCESSORIES

- **Alternate Flow Patterns** – See front page
- **Alternate O-Ring Seals**
- **Electrically or Pneumatically Actuated** – Refer to separate data sheets
- **Stem Extension** made to any length
- **Limit Switches** – For open and/or closed position indication
- **Handle Lockout** – Field mountable
- **Municipal Operating Nut**
- **Lubrication-free** – Factory clean room assembled

Example: Chemline Type 23 Multi Port 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.