

Type 23 Multiport Ball Valves



SERIES: Type 23

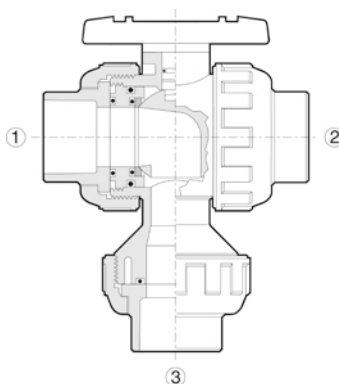
SIZES: 1/2" – 4"

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

SEATS: PTFE

SEALS²: EPDM, FKM (Viton®), CPE³

CRN
Registered
Consult Chemline







JJ DOWNS INDUSTRIAL PLASTICS INC.



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Type 23 Multiport Ball Valve incorporates all the quality features of the Type 21 True Union type. One multiport valve eliminates the need for two standard ball valves and a tee in many cases.

A choice of several flow patterns is available. L-Port is supplied standard. X-Port offers flow straight through ports ① and ②. T-Port connects all three ports simultaneously.

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°

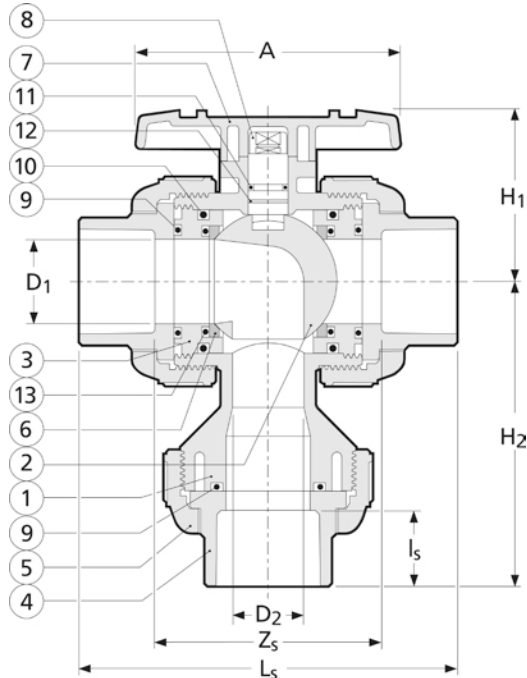
¹ Butt ends for fusion to metric PP, PVDF or ECTFE (Halar®) piping.

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.

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		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	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	5.63	3.70	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	6.77	4.50	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	7.36	5.24	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	8.35	6.50	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	9.21	7.34	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	11.97	10.06	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	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 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®)	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			

Example: 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 PP, PVDF and ECTFE (Halar®) piping systems.

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