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Multi Port Ball Valves

CHEMLINE Plastics Limited
Your Pipeline To Quality

The Chemline MT Series Multi Port Ball Valve incorporates all the quality features of the Type 21 ISOLATOR True Union type. One Multi Port valve eliminates the need for two standard ball valves and a tee in many cases.

A choice of two flow patterns is available. Both offer two centre-to-side port flow paths. Center position is shut-off for L-Port and "straight through" for X-Port.

PVC, CPVC, PVDF

SERIES: MT

SIZES: 1/2" – 4"

ENDS: Threaded, Socket, Flanged

SEATS: Teflon® PTFE

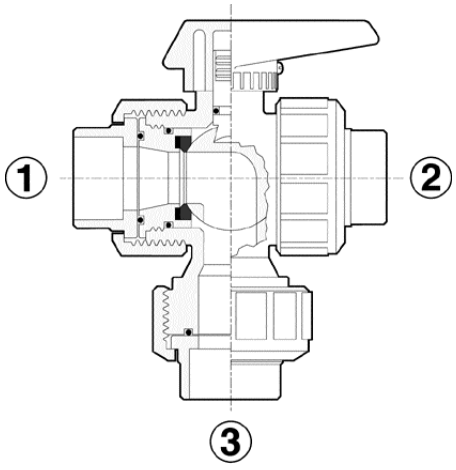
SEALS: EPDM, Viton†

Choice of Two Flow Patterns

All Ports True Union

Features

- **Compact all-moulded construction**
- **Bidirectional flow is permitted**

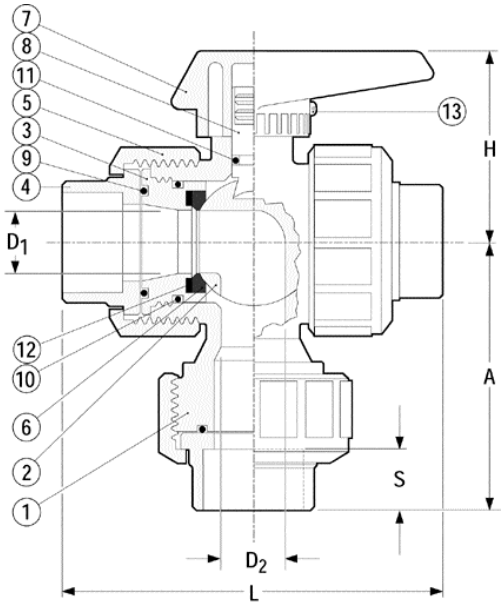




Three Positions of L-Port Operation:
1. Port ① and ③ open, as illustrated
2. Shutoff – handle turned 90°
3. Port ② and ③ open – handle turned 180°

Three Positions of X-Port Operation:
1. Port ① and ③ open, as illustrated
2. Flow through ① and ② – handle turned 90°
3. Port ② and ③ open – handle turned 180°
4. No Shutoff is possible with X-Port

Multi Port Ball Valves



PARTS

▲Recommended Spare P

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

PVC and CPVC valves are fitted with EPDM seals (parts 9 to 12) as standard, PVDF valves with Viton

DIMENSIONS INCHES

WEIGHT LB.

Cv VALUES

Size	D_1	D_2	L Threaded	L Socket	L Flanged*	H	A Threaded	A† Socket	A† Flanged*	PVC	CPVC	PVDF	USGPM Flow at 1 psi △P
1/2"	0.6	0.6	3.96	3.86	5.63	2.0	3.0	3.1	3.9	.55	.58	.65	7.4
3/4"	0.8	0.8	4.65	4.53	6.77	2.3	3.6	3.6	4.7	.93	.98	1.1	10.
1"	1.0	1.0	5.35	5.28	7.36	2.7	4.4	4.3	5.4	1.5	1.5	1.7	23.
1-1/2"	1.5	1.3	6.69	6.65	8.35	3.4	6.1	6.1	6.9	3.3	3.3	3.7	43.
2"	1.8	1.5	7.76	7.56	9.21	3.8	7.0	6.9	7.9	4.5	4.5	5.5	59.
3"	2.7	2.3	10.39	11.10	12.0	5.1	9.3	9.6	10.1	8.6	13.0	14.5	130.
4"	3.5	3.1	14.17	13.90	14.7	6.6	11.8	11.6	12.0	29.7	29.7	35.6	260.

*Factory Flanged lengths.

Socket valve weights.

WORKING PRESSURES PSI

Size	PVC	CPVC				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 - 60°C –4 - 140°F	80°C 176°F	90°C 194°F	100°C 212°F
1/2"- 2"	150	150	120	85	55	150	120	110	85
3"- 4"	150	150	90	60	45	150	105	90	75

Temperature Ranges: PVC 0 to 60°C (32 to 140°F), **CPVC** 0 to 95°C (32 to 203°F), **PVDF** –40 to 100°C (–40 to 210°F).

VACUUM RATING

- 29.9 inches mercury

ORDERING EXAMPLE

Chemline Multi Port Ball Valve	MT	A	015	E	S
Body Material	**A** - PVC	**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** - Viton	**C** - CPE	**B** - Nitrile	**P** - Teflon®
Ends	**S** - Socket	**T** - Threaded	**F** - Flanged	**B** - Butt	

Example: Chemline Multi Port Ball Valve, standard L-Port, PVC, 1-1/2", with EPDM seals, socket ends. For optional X-Port ball add "-x" to end of item number.

OPTIONS & ACCESSORIES

- **X-Port Ball** – See front page
- **Alternate O-Ring Seals** of Viton, CPE Nitrile, Teflon®, etc.
- **Electrically Actuated** – Refer to separate data sheets
- **Pneumatically Actuated** – Refer to separate data sheet
- **Stem Extension** – Made to any lengt
- **Handle Lockout**
- **Limit Switches** – NEMA 4, SPDT
- **Butt Fusion Ends** – For connection to Chemline PP and PVDF piping system