



3 Way / 4 Way Plug Valve

Overview

Three-way and four-way plug valves enable multi-directional flow control with a single valve. The three-way type diverts, mixes, or switches flow between one inlet and two outlets (L/T-port). The four-way type provides complete flow reversal or crossover between two independent lines. Both offer a key advantage: simplifying complex piping, allowing rapid, reliable switching with fewer leaks.



Feature

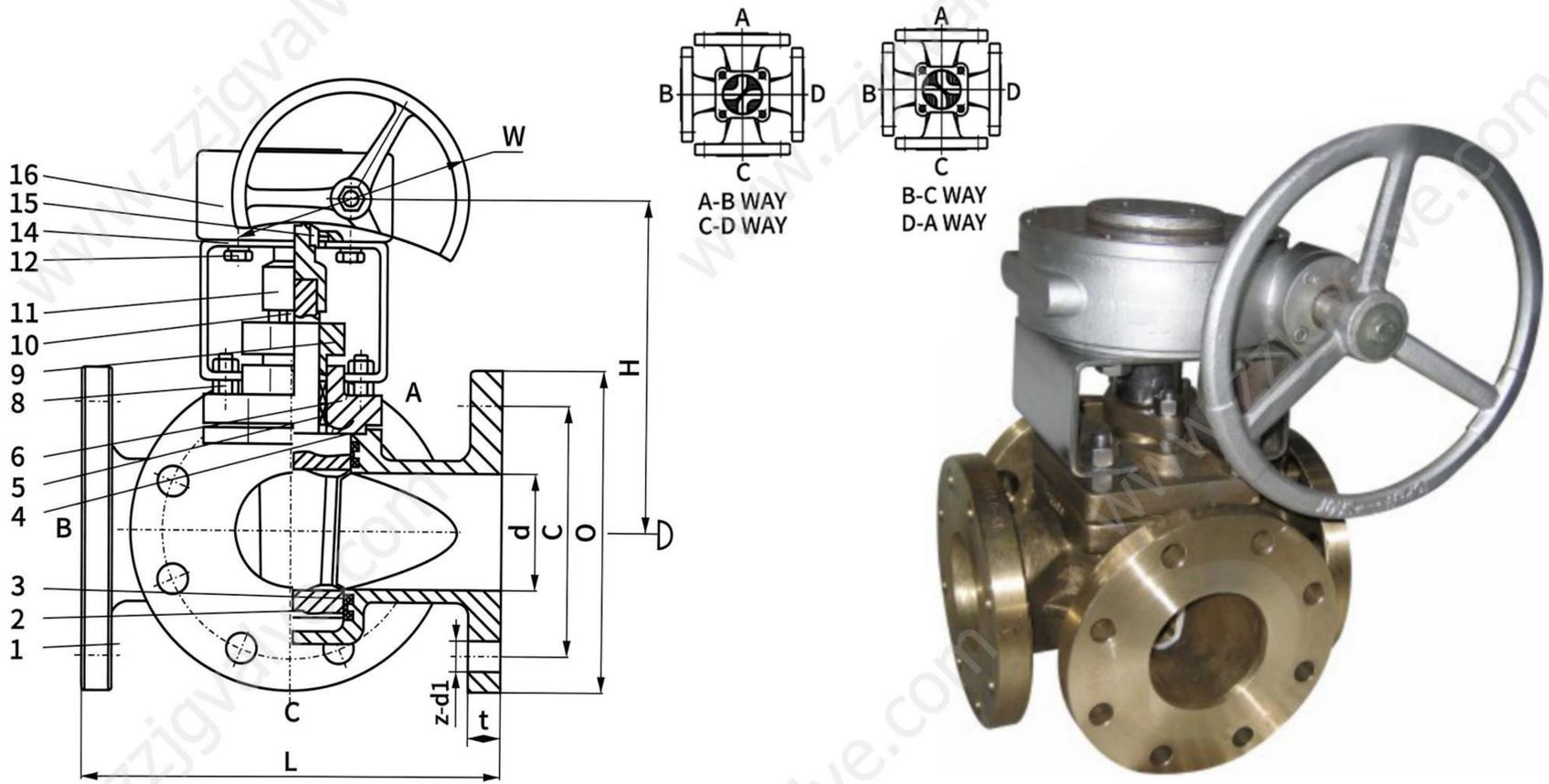
1. Superior Design for reliable sealing and performance in a compact form.
2. High Customization through selectable flow patterns (L/T-port), materials (cast iron/steel/stainless), and sealing types (hard/lubricated).
3. Engineered Flexibility, allowing precise matching of components like flange specs to specific project needs.

TECHNICAL SPECIFICATION	
Structural style	BB-BG
Driving mode	Wrench wheel, worm&worm gear, pneumatic, electric-actuated
Design standard	API599、API 6D、GB/T22130
Design criteria	ASME B16.10、GB12221、EN558
Connecting flange	ASME B16.5、HB20592、EN1092
Test and inspection	API598、API6D、GB/T13927、EN12266

Pressure	Shell test (MPa)	Sealing test (MPa)	Pressure	Shell test (MPa)	Sealing test (MPa)
150	3.0	2.2	1.6	2.4	1.76
300	7.7	5.62	2.5	3.75	2.75
600	15.4	11.23	4.0	6.0	4.4
900	23.0	16.85	6.4	9.6	7.04
			10.0	15.0	11.0
			16.0	24.0	17.6



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MAIN PARTS MATERIALS

NO.	Part name	Material
1	Body	B148-C95800
2	Plug	B148-C95800
3	Seat	PTFE
4	Gasket	PTFE
5	Packing	PTFE
6	Bonnet	B148-C95800
7	Bolt	A193-B8M
8	Nut	A194-8M
9	Gland	B148-C95800
10	Bolt	A193-B8M
11	Connecting sleeve	AISI-1045
12	Bolt	AISI-1035
13	Gasket	AISI-1066
14	Yoke	CS
15	Pin	AISI-1045
16	Worm	A536 60-40-18+other





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MULTIPOINT VALVES

ZZJG VALVE Multiport Sleeved Plug Valves bring economy and more compact system design to thousands of applications.

BI-DIRECTIONAL FLOW

In the diagrams the color indicates the path of fluid flow, Bi-directional flow permits more system design options.

3-WAY ARRANGEMENTS

Only the Type A plug will shut off the flow. With the Type Ax, C, and D plugs, there is always flow between the bottom port and one of the side ports.

4-WAY AND 5-WAY VALVES

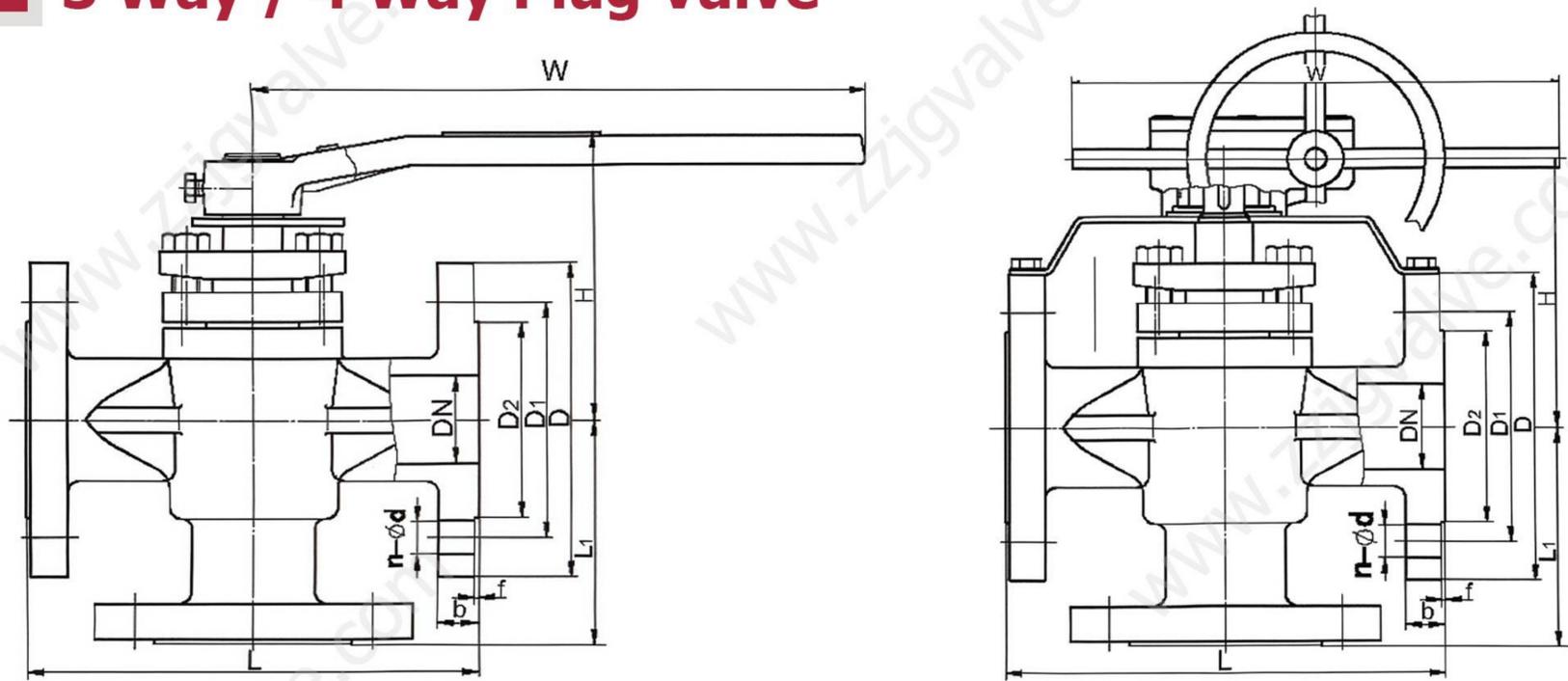
For optimum system flexibility 4-way and 5-way multiported valves are available. For details such as sizes available and dimensional information visit www.plugvalveworld.com or contact the factory.

	Type A	Type AX	Type C	Type C Pos. 1&2 Only	Type C Pos. 2&3 Only	Type D	Type D Pos. 1&2 Only	Type D Pos. 2&3 Only
0° Position								
90° Position								
180° Position								





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Main Dimensions

Nominal Diameter		Standard Value								Reference Value		
DN (mm)	NPS (inch)	L	L1	D	D1	D2	f	b	n-φd	W	H	G(kg)
CLASS150												
15	1/2	108	76	89	60.5	35	2	11	4-φ15	120	85	2.8
20	3/4	117	76	98	70	43	2	11	4-φ15	140	95	4.2
25	1	127	89	108	79.5	51	2	12	4-φ15	140	105	6.3
32	1 1/4	140	98	117	89	64	2	13	4-φ15	200	115	7.3
40	1 1/2	165	105	127	98.5	73	2	15	4-φ15	250	125	10.5
50	2	178	114	152	120.5	92	2	16	4-φ19	250	140	15.4
65	2 1/2	190	124	178	139.5	105	2	18	4-φ19	300	150	23.9
80	3	203	130	190	152.5	127	2	19	4-φ19	300	185	25.2
100	4	229	152	229	190.5	157	2	24	8-φ19	350	200	47.6
125	5	254	170	254	216	186	2	24	8-φ22	200*	275	54.6
150	6	267	190	279	241.5	216	2	26	8-φ22	200*	455	95.2
200	8	292	229	343	298.5	270	2	29	8-φ22	240*	495	161
250	10	330	311	406	362	324	2	31	12-φ25	280*	555	273

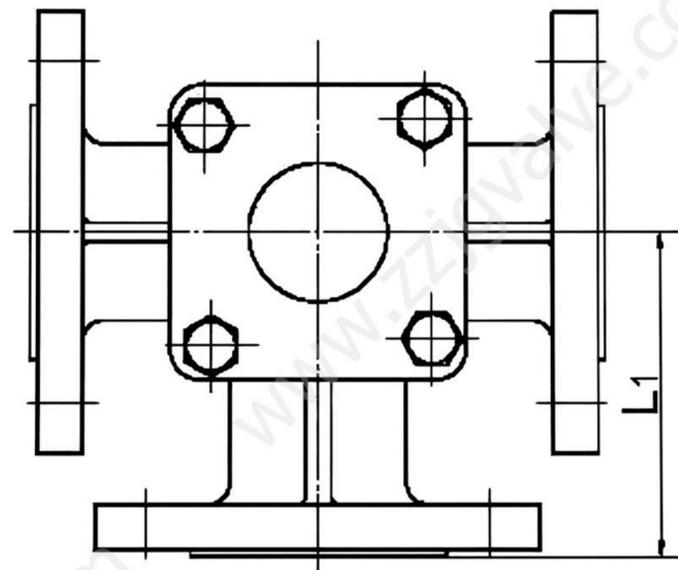
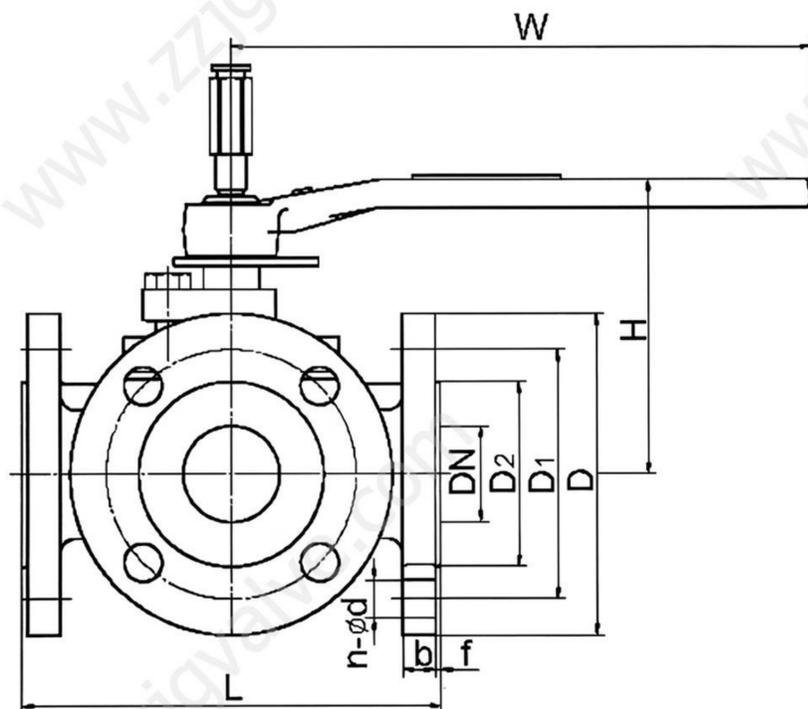
Gear operator for those of NPS>6

Nominal Diameter		Standard Value								Reference Value		
DN (mm)	NPS (inch)	L	L1	D	D1	D2	f	b	n-φd	W	H	G(kg)
CLASS300												
15	1/2	140	76	95	66.5	35	2	15	4-φ15	160	85	3.5
20	3/4	152	76	117	82.5	43	2	16	4-φ19	160	95	5.6
25	1	165	95	124	89	51	2	18	4-φ19	200	105	7
32	1 1/4	178	102	133	98.5	64	2	19	4-φ19	250	115	8.4
40	1 1/2	190	111	156	114.5	73	2	21	4-φ22	250	125	11.9
50	2	216	121	165	127	92	2	23	8-φ19	300	140	18.2
65	2 1/2	241	130	190	149	105	2	26	8-φ22	300	150	21
80	3	283	141	210	168.5	127	2	29	8-φ22	350	185	33.6
100	4	305	171	254	200	157	2	32	8-φ22	350	200	37.8
125	5	381	190	279	235	186	2	35	8-φ22	400	225	56
150	9	403	216	318	270	216	2	37	12-φ22	200*	460	91
200	8	419	254	381	330	270	2	42	12-φ25	240*	495	203
250	10	457	311	445	387.5	324	2	48	16-φ29	280*	560	357

Gear operator for those of NPS>6



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RF FACE (LEVER)

Main Dimensions

Nominal Diameter		Standard Value								Reference Value	
DN (mm)	NPS (inch)	L	L1	D	D1	D2	f	b	n-Φd	W	H
CLASS150 Regular Patten											
25	1	184	92	108	79.5	51	2	12	4-Φ15	140	105
40	1 1/2	235	118	127	98.5	73	2	15	4-Φ15	250	125
50	2	241	121	152	120.5	92	2	16	4-Φ19	250	140
80	3	362	131	190	152.5	127	2	19	4-Φ19	300	185
100	4	400	200	229	190.5	157	2	24	8-Φ19	350	200

Nominal Diameter		Standard Value								Reference Value	
DN (mm)	NPS (inch)	L	L1	D	D1	D2	f	b	n-Φd	W	H
CLASS300 Regular Patten											
25	1	191	95	124	89	51	2	18	4-Φ19	200	105
40	1 1/2	241	121	156	114.5	73	2	21	4-Φ22	250	125
50	2	248	124	165	127	92	2	23	8-Φ19	300	140
80	3	375	188	210	168.5	127	2	29	8-Φ22	350	185
100	4	413	207	254	200	157	2	32	8-Φ22	350	200

