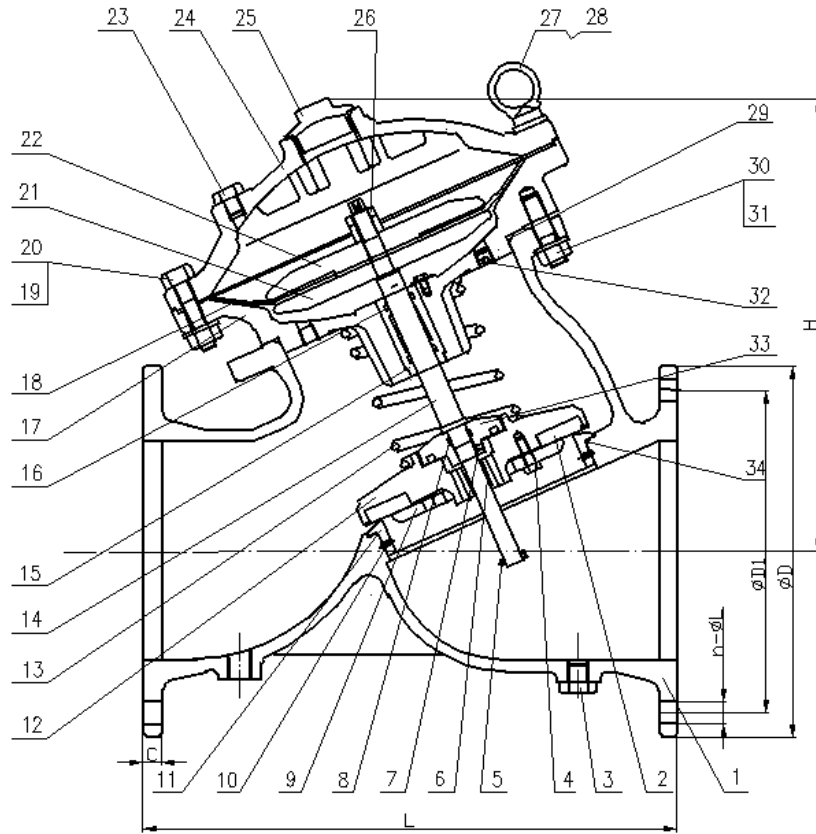


SJZ Metalsin Tech Co Ltd

PUMP CONTROL VALVE / SLOW SHUT CONTROL VALVE

1. Technical Drawing



2.1 Dimensions of Pump Control Valves to ANSI/AWWA Standards

DN		Dimensions (mm)					
Inch	mm	L	H	D	D1	C	n-ΦL
2"	50	206	170	152	120.5	16	4-Φ19.1
2.5"	65	211	195	178	139.5	17.5	4-Φ19.1
3"	80	249	215	191	152.5	19	4-Φ19.1
4"	100	320	255	229	190.5	24	8-Φ19.1
6"	150	414	360	279	241.5	25.5	8-Φ22.2
8"	200	500	450	343	298.5	28.5	8-Φ22.2
10"	250	605	550	406	362	30.5	12-Φ25.4
12"	300	724	645	483	432	32	12-Φ25.4
16"	400	991	790	597	540	36.5	16-Φ28.5

*For sizes 2" ~16", ASME B16.1 Class 125

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2.2 Dimensions of Pump Control Valves to EN/BS Standards

DN		PN	Dimensions (mm)							
Inch	mm		L	H	D	D1	d	C	T	n-ΦL
2"	50	10/16	203	170	165	125	99	19	3	4-Φ19
2.5"	65	10/16	216	195	185	145	118	19	3	4-Φ19
3"	80	10/16	241	215	200	160	132	19	3	8-Φ19
4"	100	10/16	292	255	220	180	156	19	3	8-Φ19
5"	125	10/16	330	290	250	210	184	19	3	8-Φ19
6"	150	10/16	356	360	285	240	211	19	3	8-Φ23
8"	200	10	495	450	340	295	266	20	3	8-Φ23
		16	495		340	295	266	20	3	12-Φ23
10"	250	10	622	550	405	350	319	22	3	12-Φ23
		16	622		405	355	319	22	3	12-Φ28
12"	300	10	698	645	460	400	370	24.5	4	12-Φ23
		16	698		460	410	370	24.5	4	12-Φ28
14"	350	10	787	700	505	460	429	24.5	4	16-Φ23
		16	787		520	470	429	26.5	4	16-Φ28
16"	400	10	914	790	565	515	480	24.5	4	16-Φ28
		16	914		580	525	480	28	4	16-Φ31
18"	450	10	978	850	615	565	530	25.5	4	20-Φ28
		16	978		640	585	548	30	4	20-Φ31
20"	500	10	978	900	670	620	582	26.5	4	20-Φ28
		16	978		715	650	609	31.5	4	20-Φ34
24"	600	10	1295	1030	780	725	682	30	5	20-Φ31
		16	1295		840	770	720	36	5	20-Φ37

*For sizes 2" ~24", EN 1092-2 PN10/PN16.

3.1 KV Rates for ANSI/AWWA Pump Control Valves

DN	50	65	80	100	125	150	200	250	300	350	400
Kv	41	53	105	175	285	402	730	1160	1400	1770	3010

3.2 KV Rates for BS/DIN Pump Control Valves

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
Kv	41	53	105	175	285	402	730	1160	1400	1770	3010	3225	3395	4272

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4. Material Specification

Part No.	Part	Standard Specification	Options
1	Valve body	ASTM A536,65-45-12	
2	Gasket	EPDM	
3	Plug	AISI 304	
4	Bolt	AISI 304	
5	Cotter Pin	AISI 304	
6	Bushing	C89833	
7	Screw	AISI 304	
8	O-Ring	NBR	
9	Plate	ASTM A536,65-45-12	
10	Screw	AISI 304	
11	Valve Seat	AISI 304	
12	Disc	ASTM A536,65-45-12	
13	Spring	AISI 304	
14	Valve Stem	AISI 304	
15	Bushing	C89833	
16	O-Ring	NBR	
17	Cover	ASTM A536,65-45-12	
18	Diaphragm	EPDM	
19	Bolt	AISI 304	
20	Nut	AISI 304	
21	Washer	ASTM A536,65-45-12	
22	Plate	ASTM A536,65-45-12	
23	Plug	AISI 304	
24	Bonnet	ASTM A536,65-45-12	
25	Plug	AISI 304	
26	Nut	AISI 304	
27	Eyenu	AISI 304	
28	Bolt	AISI 304	
29	O-Ring	NBR	
30	Nu	AISI 304	
31	Stud	AISI 304	
32	Plug	AISI 304	
33	Small Disc	ASTM A536,65-45-12	
34	O-Ring	NBR	

5. Flow Characteristics for Pump Control Valves

