VALMATIC VALVES



VALMATIC

APPLICATION

Sterilizer - Condensate Discharge Valve, Back Pressure Receiver - Automatic Blow-Off, Pulp and Paper Mills

SPECIFICATION

Design Standard ASME B16.5, EN1092-1:2001 Pressure Rating PN16, PN40, ANSI 150, ANSI 300

End Connection Wafer Type (1"-10"), Flanged End Type (1"-20")

Metal Seat - ANSI Class IV, V Leakage Class

Ball & Seat tungsten carbide coated - ANSI Class V

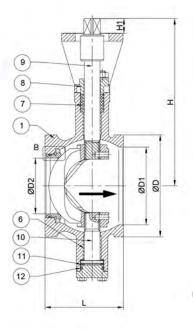
Soft Seat - ANSI Class V, VI

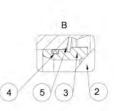
Flow Characteristic **Equal Persentage**

Working Temperature Up to 160°C Standard (Others upon request)

MATERIALS

PARTS	FIG. 21V2	FIG. 21V6	FIG. 21V7
1. Body	A216WCB	A351-CF8	A351-CF8M
2. Segmented Ball	A351-CF8 + Cr	A351-CF8 + Cr	A351-CF8 + Cr
3. Seat	St.Steel 304 + STL	St.Steel 304 + STL	St.Steel 316 + STL
4. O-Ring	Viton + Graphite	Viton + Graphite	Viton + Graphite
5. Spring	St.Steel 316	St.Steel316	St.Steel 316
6. Bearing	St.Steel 304 + PTFE	St.Steel304 + PTFE	St.Steel304 + PTFE
7. Packing	PTFE + Graphite	PTFE + Graphite	PTFE + Graphite
8. Gland	CF8	CF8	CF8
9. Upper Shaft	A351-CF8	A351-CF8	A351-CF8
10. Lower Shaft	A351-CF8	A351-CF8	A351-CF8
11. Gasket	PTFE	PTFE	PTFE
12. O-Ring	Viton	Viton	Viton





SEGMENTED CONTROL VALVE

FIG 21V

DIMENSIONS (mm)

Size	Inch	1	11/4	1½	2	21/2	3	4	5	6	8	10
	mm	25	32	40	50	65	80	100	125	150	200	250
L		62	62	62	75	90	100	115	129	160	200	240
Н		179	184	189	197	217	231	243	292	335	362	421
H1		14	14	14	17	17	22	22	22	27	27	36
ØD		68	78	85	100	120	130	158	184	216	268	322
ØD1		38	44	50	60	75	99	118	140	167	210	264
ØD2		20	24	30	40	52	71	85	100	126	158	204





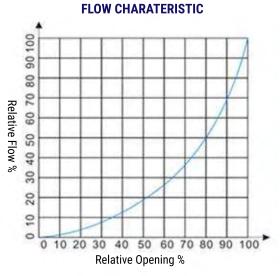
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MAXIMUM ALLOWABLE DIFFERENTIAL PRESSURE AND RATED CV PN40 / ANSI 300

SIZE (mm)	Max. Shut off D.P. (Bar)	Max. Control D.P. (Bar)	Rated CV
25	50	35	27
32	50	35	47
40	50	35	70
50	50	35	135
65	50	35	210
80	50	35	390
100	40	25	560
125	40	25	790
150	40	25	1130
200	35	25	1860
250	35	20	2900

EQUAL PERCENTAGE INHERENT FLOW CHARATERISTIC



VALMATIC SEGMENTED CONTROL VALVE



Normal temperature metal seat design: Hexagonal spring to pre-tightened seat, providing multipoint equal contact forces and good sealing property even in low differential pressure conditions









Features: Low torque, Operating stability, Precise control property.

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VALVE SIZE AND ACTUATOR TABLE SELECTION (FOR PN16 RATING)

Piston Type Actuator

Si	ze	Double Acting	Air Press. (5 Bar)	Single Acting	Air Press. (5 Bar	
Inch	mm	Model	Nm	Model	Nm	
- 1	25	ZS36-63	48	ZDS45-100	60	
14	32	ZS36-63	48	ZDS45-100	60	
1½	40	ZS36-80	76	ZDS45-125	94	
2	50	ZS45-80	96	ZDS45-125	94	
21/2	65	ZS45-80	96	ZDS45-125	94	
3	80	ZS45-100	150	ZDS55-125	115	
4	100	ZS45-100	150	ZDS55-125	115	
5	125	ZS55-100	180	ZDS63-160	214	
6	150	ZS55-125	280	ZDS63-200	335	
8	200	ZS63-160	488	ZDS63-200	335	
10	250	ZS63-200	838	ZDS80-250	665	



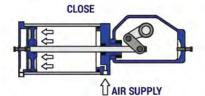
Single Acting Piston Actuator

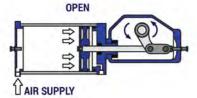


Double Acting Piston Actuator

MECHANICAL MOVEMENT- PISTON ACTUATOR

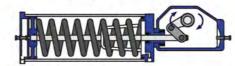
DOUBLE ACTING ACTUATOR





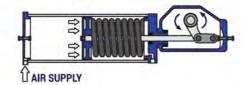
SINGLE ACTING ACTUATOR

CLOSE



NO AIR SUPPLY

OPEN



I-Tork Scotch and Yoke Type Actuator

ze	Double Acting	Air Press. (5 Bar)		Single Acting	Air Press. (5 Bar)	
mm	Model	0°	90°	Model	0°	90°
25	PD50	54	38	PS70	57	38
32	PD70	149	104	PS85	101	67
40	PD70	149	104	PS100	163	106
50	PD70	149	104	PS100	163	106
65	PD70	149	104	PS125	309	202
80	PD85	277	194	PS125	309	202
100	PD85	277	194	PS125	309	202
125	PD85	277	194	PS160	579	390
150	PD100	449	314	PS160	579	390
200	PD125	860	602	PS200	1115	729
250	PD160	1668	1168			
	mm 25 32 40 50 65 80 100 125 150 200	mm Model 25 PD50 32 PD70 40 PD70 50 PD70 65 PD70 80 PD85 100 PD85 125 PD85 150 PD100 200 PD125	mm Model 0° 25 PD50 54 32 PD70 149 40 PD70 149 50 PD70 149 65 PD70 149 80 PD85 277 100 PD85 277 125 PD85 277 150 PD100 449 200 PD125 860	mm Model 0° 90° 25 PD50 54 38 32 PD70 149 104 40 PD70 149 104 50 PD70 149 104 65 PD70 149 104 80 PD85 277 194 100 PD85 277 194 125 PD85 277 194 150 PD100 449 314 200 PD125 860 602	mm Model 0° 90° Model 25 PD50 54 38 PS70 32 PD70 149 104 PS85 40 PD70 149 104 PS100 50 PD70 149 104 PS100 65 PD70 149 104 PS125 80 PD85 277 194 PS125 100 PD85 277 194 PS125 125 PD85 277 194 PS160 150 PD100 449 314 PS160 200 PD125 860 602 PS200	mm Model 0° 90° Model 0° 25 PD50 54 38 PS70 57 32 PD70 149 104 PS85 101 40 PD70 149 104 PS100 163 50 PD70 149 104 PS100 163 65 PD70 149 104 PS125 309 80 PD85 277 194 PS125 309 100 PD85 277 194 PS125 309 125 PD85 277 194 PS160 579 150 PD100 449 314 PS160 579 200 PD125 860 602 PS200 1115

