MODELS 106-PG / S106-PG SINGLE CHAMBER, HYDRAULICALLY OPERATED VALVE

KEY FEATURES

- Anti-cavitation option is ideal for high pressure drop situations
- Available in globe and angle style

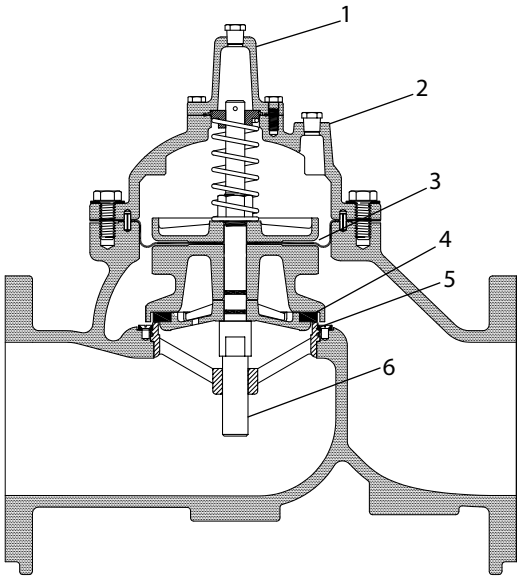
PRODUCT OVERVIEW

The 106-PG series control valve is designed to suit a large variety of applications such as pressure, flow or level control. This hydraulically operated valve introduces or releases water from the control chamber above the diaphragm to effectively maintain accurate water control

Refer to Main Valve Options on page 62 and Pilots & Accessories on page 207 to further customize the valve to suit specific applications.

PRODUCT LINE DRAWING

1. Removable Stem Cap
2. ASTM A536 Ductile Iron Construction
3. Diaphragm EPDM
4. EPDM Resilient Disc
5. AISI 316 Stainless Steel Seat
6. AISI 316 Stainless Steel Stem
7. NSF 61 Fusion Bonded Epoxy Coating



ALTERNATIVE MODELS

A106-PG Angle

106-PG Threaded

SELECTION

Automatic control valves operate by introducing or exhausting water from above the diaphragm at controlled rates. A pressure differential is required and is either inlet to outlet or inlet to atmosphere, depending on the application. Valves are sized to provide an appropriate pressure drop for each application. Most valves require a minimum of 10 psi / 0.7 bar pressure drop to operate. This applies mostly to valves that have the bonnet vented to downstream. With minimum of 5 psi / 0.35 bar downstream pressure, many valves can be made to open fully by venting the bonnet to atmosphere.

Singer control valves are designed for use with clean potable water. Applications for other media are possible. Consult with Singer Valve.

VALVE SIZES & MATERIALS

Valve Styles				
	Ductile		Stainless Steel	
Available Sizes	**Threaded**	**Flanged**	**Threaded**	**Flanged**
Globe	1 in to 3 in (25-80 mm)	1-1/2 in to 36 in (40-900 mm)	1/2 in to 2 in (15-50 mm)	1-1/2 in to 6 in (40-150 mm)
Angle	1 in to 3 in (25-80 mm)	2 in to 12 in, 16 in (50-300 mm, 400 mm)	N/A	N/A

Valve Components				
	Ductile		Stainless Steel	
	Standard	**Optional**	**Standard**	**Optional**
1. Valve Body, Cover	65-45-12 Ductile Iron	-	316 Stainless Steel	-
2. Seat Ring	316 Stainless Steel	-	316 Stainless Steel	-
3. Disc Retainer	B16 Brass / B62 Bronze / A536 Ductile Iron	316 Stainless Steel	316 Stainless Steel	-
4. Stem	316 Stainless Steel	-	316 Stainless Steel	-
5. Stem Nut	B16 Brass	316 Stainless Steel	316 Stainless Steel	-
6. Spring	316 Stainless Steel	-	316 Stainless Steel	-
7. Guide Bushings	B16 Brass or SAE 660 Bronze	316 Stainless Steel	316 Stainless Steel	-
8. Diaphragm	EPDM	Buna-N / Viton (limited sizes)	EPDM	Buna-N / Viton (limited sizes)
9. Resilient Disc	EPDM	Buna-N / Viton (limited sizes)	EPDM	Buna-N / Viton (limited sizes)
10. Coating	NSF61 Approved Fusion Bonded Epoxy Thickness 10-14 mils (250 – 350 microns)	Consult factory	-	-
11. Fasteners	18-8 Stainless Steel	316 Stainless Steel	18-8 Stainless Steel	316 Stainless Steel

Careful consideration of the possibility of cavitation must be given. Anti-cavitation trim is available to control the cavitation, reduce noise and prevent damage. Refer to 106-AC (page 78) or consult with Singer Valve.

The 106-PG single chambered valve is the basic valve used in practically every model bearing the 106 description. The pilot systems are designed to meet the functional and performance requirements of specific applications. Sizing is ultimately determined by the specific application.

AVAILABLE OPTIONS

Further customize the valve by adding any of the available options below.

MAIN VALVE OPTIONS, REFER TO PAGE 62

Position Indicators (Available for install at Singer Valve or as a field modification)

- Model X107 stem mounted position indicators
- Model X129 limit switch assembly with Single Pole Double Throw limit switch (Double Pole Double Throw optional)
- Model X156 position transmitter (4 to 20 mA)

Oxy-Nitride Stem

Internal Drop Check

External Spring Lift

Grooved Ends

Reclaim Water

PILOTS & ACCESSORIES, REFER TO PG. 207

MATERIALS OF CONSTRUCTION

Individual components can be upgraded from ductile iron, bronze and brass to stainless steel, for most sizes. Consult with Singer Valve.

MODEL PGM

Provides a fully operational back-up system in the event of a diaphragm or pilot failure. See page 46.

ANTI-CAVITATION TRIM

Model 106-AC allows very high pressure drops in one valve, while retaining the standard 106 valve features. See page 78.

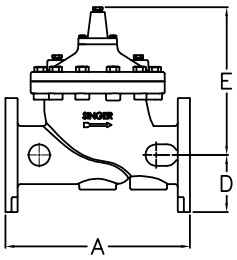
ORDERING INSTRUCTIONS

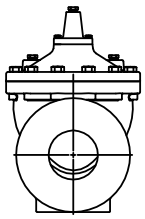
Refer to page 244 for the order form and ordering instructions.

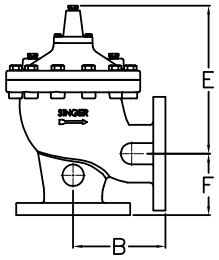
ANSI VALVE DATA (US UNITS)

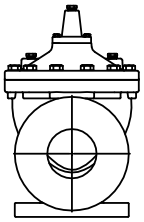
Size	DWG	Standard	Flat Diaphragm System									
Inches	**REF**	**ANSI**	**1/2 in**	**3/4 in**	**1 in**	**1-1/4 in**	**1-1/2 in**	**2 in**	**2-1/2 in**	**3 in**	**4 in**	**6 in**	**8 in**
Globe Dimensions			All figures shown in inches unless otherwise stated										
Lay Length	A	FNPT	Available in Stainless Steel only. See page 65.	Available in Stainless Steel only. See page 65.	6.75	6.75	6.75	9.38	11.00	13.50	-	-	-
Centerline to Bottom	D	FNPT			2.50	2.50	2.50	2.75	3.38	3.68	-	-	-
Lay Length	A	150F			-	-	8.50	9.38	11.00	12.00	15.00	20.00	25.38
Centerline to Bottom	D	150F			-	-	2.75	3.00	3.50	3.75	4.60	5.60	7.63
Lay Length	A	300F			-	-	9.00	10.00	11.63	13.25	15.63	21.00	26.38
Centerline to Bottom	D	300F			-	-	3.25	3.25	3.75	4.13	5.09	6.34	7.88
Angle Dimensions													
Center Inlet to Discharge	B	FNPT			3.38	3.38	3.38	4.69	5.50	6.63	-	-	-
Center Discharge to Inlet	F	FNPT			3.00	3.00	3.00	3.25	4.00	4.63	-	-	-
Center Inlet to Discharge	B	150F			-	-	-	4.75	5.50	6.06	7.50	10.00	12.75
Center Discharge to Inlet	F	150F			-	-	-	3.25	4.00	4.06	5.00	6.00	8.00
Center Inlet to Discharge	B	300F			-	-	-	5.00	5.88	6.43	7.88	10.50	13.25
Center Discharge to Inlet	F	300F			-	-	-	3.50	4.31	4.43	5.31	6.50	8.50
Common Dimensions (Globe & Angle)													
Width	C				4.88	4.88	6.13	6.50	8.19	9.25	10.88	16.75	21.63
Height (To Stem Cap) Globe	E				4.38	4.38	4.38	4.75	7.50	8.00	9.15	11.75	14.91
Height (To Stem Cap) Angle	E				4.38	4.38	4.38	4.75	7.50	8.00	9.15	11.75	14.91
Body Port Tapping		FNPT			3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	1/2
Stem Cap Plug		MNPT			3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Cover Port Tapping		FNPT			3/8	3/8	3/8	3/8	3/8	3/8	3/8	1/2	1/2
Valve Stroke					1/2	1/2	1/2	9/16	15/16	1-1/8	1-7/16	1-11/16	2-7/8
Displaced Bonnet Volume (Gallons)					0.007	0.007	0.007	0.02	0.1	0.1	0.2	0.6	1.7
Approximate Shipping Weight (Lbs)					20	20	20	40	65	100	175	400	650
Flow Capacities (USGPM) Globe & Angle													
C_v - Globe					28	30	32	55	80	110	200	460	800
C_v - Angle					24	24	26	63	90	135	230	535	950
Continuous (Globe)					49	93	125	210	300	460	800	1800	3100
Intermittent (Globe)					61	120	160	260	375	575	1000	2250	3875
Momentary (Globe)					110	170	250	470	670	1030	1800	4000	7000
Maximum Pressure Ratings (Ductile Only)													
PSI[1]		FNPT			400	400	400	400	400	400	-	-	-
PSI		150F			-	-	250	250	250	250	250	250	250
PSI[1]		300F			-	-	400	400	400	400	400	400	400
Maximum Temperature													
Fahrenheit					180°	180°	180°	180°	180°	180°	180°	180°	180°

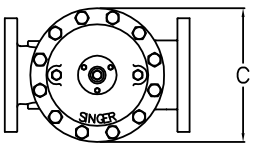
[1]Valves rated and stamped 400 psi as standard. Valves rated and stamped 600 psi on request.









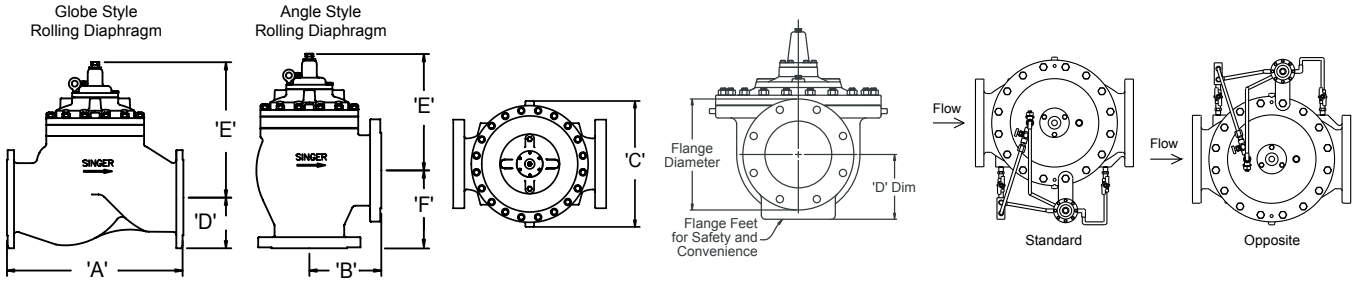


See pilot system information, page 207.
For additional Engineering notes, see page 242.

ANSI VALVE DATA (US UNITS)

Size	DWG	Standard	Rolling Diaphragm System								
Inches	**REF**	**ANSI**	**6 in**	**8 in**	**10 in**	**12 in**	**14 in**	**16 in**	**20 in**	**24 in**	**36 in**
Globe Dimensions			**All figures shown in inches unless otherwise stated.**								
Lay Length	A	FNPT	-	-	-	-	-	-	-	-	-
Centerline to Bottom	D	FNPT	-	-	-	-	-	-	-	-	-
Lay Length	A	150F	20.00	25.38	29.75	34.00	31.00	41.38	52.00	61.50	76.00
Centerline to Bottom	D	150F	5.60	7.63	8.56	9.50	10.50	11.75	14.43	17.13	23.50
Lay Length	A	300F	21.00	26.38	31.12	35.50	32.50	43.50	53.62	63.25	78.00
Centerline to Bottom	D	300F	6.34	7.88	9.31	10.25	11.50	12.75	15.75	19.65	25.50
Angle Dimensions											
Center Inlet to Discharge	B	FNPT	-	-	-	-	-	-	-	-	-
Center Discharge to Inlet	F	FNPT	-	-	-	-	-	-	-	-	-
Center Inlet to Discharge	B	150F	-	-	11.50	13.75	-	18.00	-	-	-
Center Discharge to Inlet	F	150F	-	-	12.50	12.50	-	15.69	-	-	-
Center Inlet to Discharge	B	300F	-	-	12.19	14.50	-	18.81	-	-	-
Center Discharge to Inlet	F	300F	-	-	13.19	13.25	-	16.50	-	-	-
Common Dimensions (Globe & Angle)											
Width	C		12.75	16.09	22.13	26	26	32	35	49.68	64.5
Height (To Stem Cap) Globe	E		15.43	20.19	23.31	26.75	26.8	31.4	35.5	45.75	61
Height (To Stem Cap) Angle	E		-	-	20	23.75	-	28.5	-	-	-
Body Port Tapping		FNPT	3/8	1/2	3/4	3/4	3/4	3/4	3/4	3/4	1
Stem Cap Plug		MNPT	3/8	3/8	3/4	3/4	3/4	3/4	3/4	3/4	1
Cover Port Tapping		FNPT	1/2	1/2	3/4	3/4	3/4	3/4	3/4	3/4	1
Valve Stroke			1-11/16	2-7/8	3-1/4	3-3/4	3-3/4	4-3/4	5-9/16	6	9
Displaced Bonnet Volume (Gallons)			0.50	1.00	1.50	2.30	2.30	6.75	9.00	14.75	43.00
Approximate Shipping Weight (Lbs)			350	650	900	1300	1400	2300	3450	5000	13500
Flow Capacities (USGPM) Globe & Angle											
C_v - Globe			460	800	1300	2100	2575	3300	5100	7600	16340
C_v - Angle			-	-	1400	2450	-	4000	-	-	-
Continuous (Globe)			1800	3100	4900	7000	8500	11000	17500	25000	55470
Intermittent (Globe)			2250	3875	6100	8800	11500	14250	21700	31200	69338
Momentary (Globe)			4000	7000	11000	16000	19000	25000	39000	56200	124700
Maximum Pressure Ratings (Ductile Only)											
PSI[1]		FNPT	-	-	-	-	-	-	-	-	-
PSI		150F	250	250	250	250	250	250	250	250	250
PSI[1]		300F	400	400	400	400	400	400	400	400	400
Maximum Temperature											
Fahrenheit			180°	180°	180°	180°	180°	180°	180°	180°	180°

[1]Valves rated and stamped 400 psi as standard. Valves rated and stamped 600 psi on request.

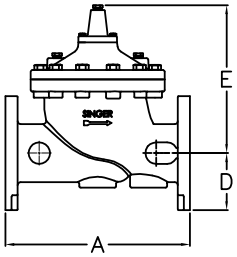


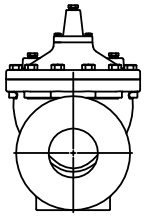
See pilot system information, page 207.
For additional Engineering notes, see page 242.

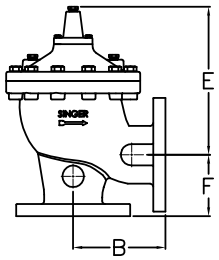
ANSI VALVE DATA (METRIC UNITS)

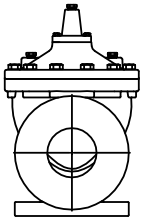
Size	DWG	Stnd	Flat Diaphragm System									
mm	REF	ANSI	15 mm	20 mm	25 mm	32 mm	40 mm	50 mm	65 mm	80 mm	100 mm	150 mm	200 mm
Globe Dimensions			All figures show in mm unless otherwise stated										
Lay Length	A	FNPT	Available in Stainless Steel only. See page 65.	Available in Stainless Steel only. See page 65.	171	171	171	238	279	343	-	-	-
Centerline to Bottom	D	FNPT			64	64	64	70	86	93	-	-	-
Lay Length	A	150F			-	-	216	238	279	305	381	508	645
Centerline to Bottom	D	150F			-	-	70	76	89	95	117	142	200
Lay Length	A	300F			-	-	229	254	295	337	397	533	670
Centerline to Bottom	D	300F			-	-	83	83	95	105	129	161	200
Angle Dimensions													
Center Inlet to Discharge	B	FNPT			86	86	86	119	140	168	-	-	-
Center Discharge to Inlet	F	FNPT			76	76	76	83	102	118	-	-	-
Center Inlet to Discharge	B	150F			-	-	-	121	140	154	191	254	324
Center Discharge to Inlet	F	150F			-	-	-	83	102	103	127	152	203
Center Inlet to Discharge	B	300F			-	-	-	127	149	163	200	267	337
Center Discharge to Inlet	F	300F			-	-	-	89	109	113	135	165	216
Common Dimensions (Globe & Angle)													
Width	C				124	124	156	165	208	235	276	425	549
Height (to stem cap) Globe	E				111	111	111	121	191	203	232	298	379
Height (to stem cap) Angle	E				111	111	111	121	191	203	232	298	379
Body Port Tapping	FNPT	in			3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	1/2
Stem Cap Plug	MNPT	in			3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Cover Port Tapping	FNPT	in			3/8	3/8	3/8	3/8	3/8	3/8	3/8	1/2	1/2
Valve Stroke		mm			13	13	13	14	25	29	37	43	73
Displaced Bonnet Volume (Litres)					0.03	0.03	0.03	0.1	0.3	0.3	0.8	2.1	6.3
Approximate Shipping Weight (Kilograms)					9	9	9	18	29	45	79	181	295
Flow Capacities (L/s) Globe & Angle													
Kv - Globe					6.6	7.1	7.6	13	19	26	47	110	190
Kv - Angle					5.7	5.7	6.2	15	21	32	55	127	225
Continuous (Globe)					3	6	8	13	19	29	50	114	196
Intermittent (Globe)					4	8	10	16	24	36	63	142	244
Momentary (Globe)					7	11	16	30	42	65	114	252	442
Maximum Pressure Ratings (Ductile Only)													
Bar[1]		FNPT			27.6	27.6	27.6	27.6	27.6	27.6	-	-	-
Bar		150F			-	-	17	17	17	17	17	17	17
Bar[1]		300F			-	-	27.6	27.6	27.6	27.6	27.6	27.6	27.6
Maximum Temperature													
Celcius					82°	82°	82°	82°	82°	82°	82°	82°	82°

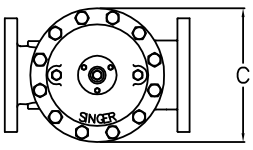
[1]Valves rated and stamped 27.6 bar as standard. Valves rated and stamped 41 bar on request









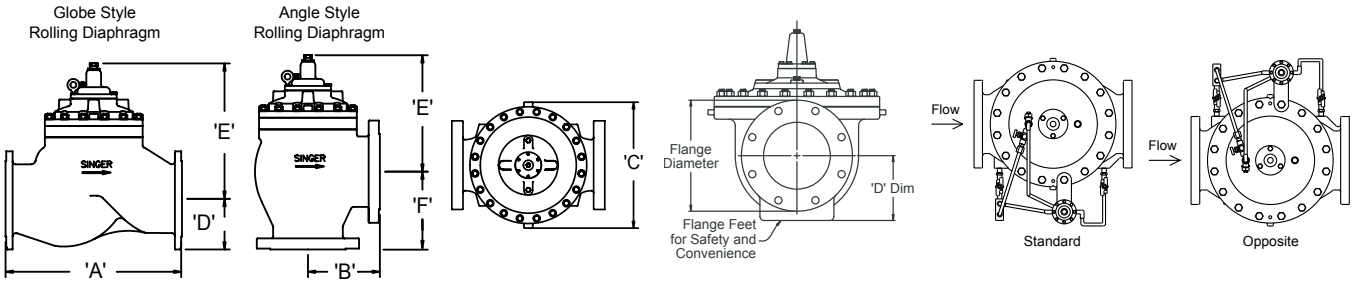


See pilot system information, page 207.
For additional Engineering notes, see page 242.

ANSI VALVE DATA (METRIC UNITS)

Size	DWG	Standard	Rolling Diaphragm System								
mm	REF	ANSI	150 mm	200 mm	250 mm	300 mm	350 mm	400 mm	500 mm	600 mm	900 mm
Globe Dimensions			All figures shown in mm unless otherwise stated.								
Lay Length	A	FNPT	-	-	-	-	-	-	-	-	-
Centerline to Bottom	D	FNPT	-	-	-	-	-	-	-	-	-
Lay Length	A	150F	508	645	756	864	787	1051	1321	1562	1930
Centerline to Bottom	D	150F	142	200	217	241	267	298	367	435	597
Lay Length	A	300F	533	670	790	902	826	1105	1362	1607	1981
Centerline to Bottom	D	300F	161	200	236	260	292	324	400	499	648
Angle Dimensions											
Center Inlet to Discharge	B	FNPT	-	-	-	-	-	-	-	-	-
Center Discharge to Inlet	F	FNPT	-	-	-	-	-	-	-	-	-
Center Inlet to Discharge	B	150F	-	-	292	349	-	457	-	-	-
Center Discharge to Inlet	F	150F	-	-	318	318	-	399	-	-	-
Center Inlet to Discharge	B	300F	-	-	310	368	-	478	-	-	-
Center Discharge to Inlet	F	300F	-	-	335	337	-	419	-	-	-
Common Dimensions (Globe & Angle)											
Width	C		324	409	562	660	660	813	889	1262	1623
Height (To Stem Cap) Globe	E		392	513	592	679	681	798	902	1162	1550
Height (To Stem Cap) Angle	E		-	-	508	603	-	724	-	-	-
Body Port Tapping	FNPT	Inches	3/8	1/2	3/4	3/4	3/4	3/4	3/4	3/4	1
Stem Cap Plug	MNPT	Inches	3/8	3/8	3/4	3/4	3/4	3/4	3/4	3/4	1
Cover Port Tapping	FNPT	Inches	1/2	1/2	3/4	3/4	3/4	3/4	3/4	3/4	1
Valve Stroke		mm	43	73	83	95	95	120	141	150	229
Displaced Bonnet Volume (Litres)			2	4	6	9	9	26	34	56	163
Approximate Shipping Weight (Kilograms)			160	250	480	590	635	1043	1565	2268	6124
Flow Capacities (L/s) Globe & Angle											
K_v - Globe			110	190	310	500	610	780	1210	1800	3875
K_v - Angle			-	-	332	581	-	948	-	-	-
Continuous (Globe)			114	196	309	442	536	694	1104	1577	3500
Intermittent (Globe)			142	244	385	555	726	899	1370	1968	4375
Momentary (Globe)			252	442	694	1009	1199	1577	2460	3546	7867
Maximum Pressure Ratings (Ductile Only)											
Bar[1]		FNPT	-	-	-	-	-	-	-	-	-
Bar		150F	17	17	17	17	17	17	17	17	17
Bar[1]		300F	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
Maximum Temperature											
Celcius			82°	82°	82°	82°	82°	82°	82°	82°	82°

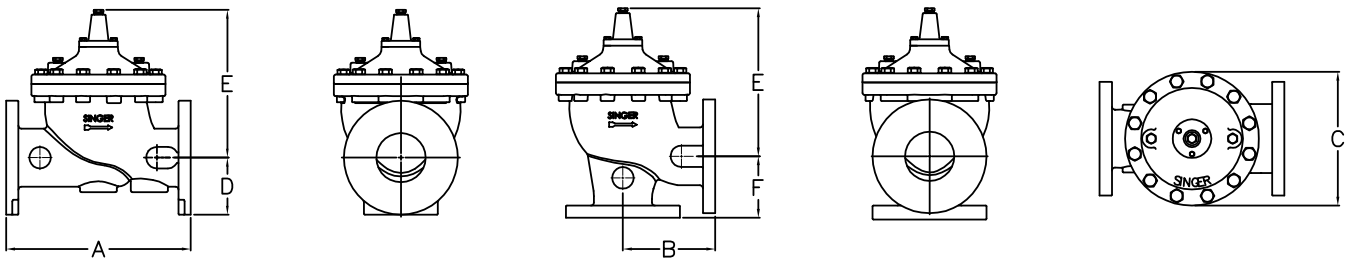
[1]Valves rated and stamped 27.6 bar as standard. Valves rated and stamped 41 bar on request



See pilot system information, page 207.
For additional Engineering notes, see page 242.

Size	DWG	Stnd	Flat Diaphragm System										
mm	REF	ISO	15 mm	20 mm	25 mm	32 mm	40 mm	50 mm	65 mm	80 mm	100 mm	150 mm	200 mm
Globe Dimensions			All figures show in mm unless otherwise stated										
Lay Length	A	BSPT	Available in Stainless Steel only. See page 65.	Available in Stainless Steel only. See page 65.	171	171	171	238	279	343	-	-	-
Centerline to Bottom	D	BSPT			64	64	64	70	86	93	-	-	-
Lay Length	A	PN10 / PN16			-	-	229	238	279	318	381	508	645
Centerline to Bottom	D	PN10 / PN16			-	-	83	76	89	100	117	142	200
Lay Length	A	PN25 / PN40			-	-	229	238	279	318	397	533	670
Centerline to Bottom	D	PN25 / PN40			-	-	83	76	89	100	129	161	200
Angle Dimensions													
Center Inlet to Discharge	B	BSPT			86	86	86	119	140	168	-	-	-
Center Discharge to Inlet	F	BSPT			76	76	76	83	102	118	-	-	-
Center Inlet to Discharge	B	PN10 / PN16			-	-	-	121	140	163	191	254	324
Center Discharge to Inlet	F	PN10 / PN16			-	-	-	83	102	113	127	152	203
Center Inlet to Discharge	B	PN25 / PN40			-	-	-	121	140	163	200	267	337
Center Discharge to Inlet	F	PN25 / PN40			-	-	-	83	102	113	135	165	216
Common Dimensions (Globe & Angle)													
Width	C				124	124	156	165	208	235	276	425	549
Height (To Stem Cap) Globe	E				111	111	111	121	191	203	232	298	379
Height (To Stem Cap) Angle	E				111	111	111	121	191	203	232	298	379
Body Port Tapping	FNPT	Inches			3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	1/2
Stem Cap Plug	MNPT	Inches			3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Cover Port Tapping	FNPT	Inches			3/8	3/8	3/8	3/8	3/8	3/8	3/8	1/2	1/2
Valve Stroke		mm			13	13	13	14	25	29	37	43	73
Displaced Bonnet Volume (Litres)					0.03	0.03	0.03	0.1	0.3	0.3	0.8	2.1	6.3
Approximate Shipping Weight (Kilograms)					9	9	9	18	29	45	79	181	295
Flow Capacities (L/s) Globe & Angle													
K_v - Globe					6.6	7.1	7.6	13	19	26	47	110	190
K_v - Angle					5.7	5.7	6.2	15	21	32	55	123	225
Continuous (Globe)					3	6	8	13	19	29	50	114	196
Intermittent (Globe)					4	8	10	16	24	36	63	142	244
Momentary (Globe)					7	11	16	30	42	65	114	252	442
Maximum Pressure Ratings (Ductile Only)													
Bar[1]		BSPT			27.6	27.6	27.6	27.6	27.6	27.6	-	-	-
Bar		PN16			-	-	16	16	16	16	16	16	16
Bar[1]		PN25			-	-	25	25	25	25	25	25	25
Maximum Temperature													
Celcius					82°	82°	82°	82°	82°	82°	82°	82°	82°

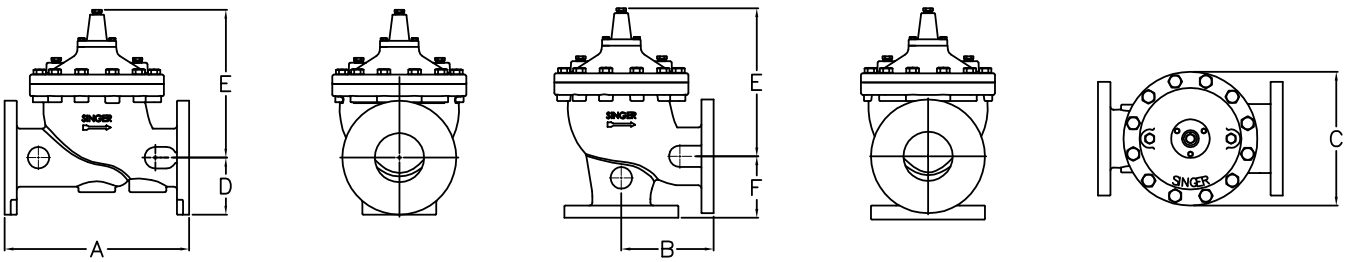
[1]Valves rated and stamped 27.6 bar as standard. Valves rated and stamped 41 bar on request



See pilot system information, page 207.
For additional Engineering notes, see page 242.

ISO VALVE DATA (METRIC UNITS)

Size	DWG	Standard	Rolling Diaphragm System								
MM	REF	ISO	150 mm	200 mm	250 mm	300 mm	350 mm	400 mm	500 mm	600 mm	900 mm
Globe Dimensions			All figures shown in mm unless otherwise stated								
Lay Length	A	BSPT	-	-	-	-	-	-	-	-	-
Centerline to Bottom	D	BSPT	-	-	-	-	-		-	-	-
Lay Length	A	PN10 / PN16	508	645	756	864	787	1051	1321	1562	1930
Centerline to Bottom	D	PN10 / PN16	142	200	217	241	267	298	367	435	597
Lay Length	A	PN25 / PN40	533	670	790	864	826	1105	1362	1607	1981
Centerline to Bottom	D	PN25 / PN40	161	200	243	241	292	324	400	499	648
Angle Dimensions											
Center Inlet to Discharge	B	BSPT	-	-	-	-	-	-	-	-	-
Center Discharge to Inlet	F	BSPT	-	-	-	-	-	-	-	-	-
Center Inlet to Discharge	B	PN10 / PN16	-	-	292	349	-	457	-	-	-
Center Discharge to Inlet	F	PN10 / PN16	-	-	318	318	-	399	-	-	-
Center Inlet to Discharge	B	PN25 / PN40	-	-	310	349	-	478	-	-	-
Center Discharge to Inlet	F	PN25 / PN40	-	-	335	318	-	419	-	-	-
Common Dimensions (Globe & Angle)											
Width	C		324	409	562	660	660	813	889	1262	1422
Height (To Stem Cap) Globe	E		346	455	592	679	681	798	902	1162	1550
Height (To Stem Cap) Angle	E		-	-	508	603	-	724	-	-	-
Body Port Tapping	FNPT	Inches	3/8	1/2	3/4	3/4	3/4	3/4	3/4	3/4	1
Stem Cap Plug	MNPT	Inches	3/8	3/8	3/4	3/4	3/4	3/4	3/4	3/4	1
Cover Port Tapping	FNPT	Inches	1/2	1/2	3/4	3/4	3/4	3/4	3/4	3/4	1
Valve Stroke		mm	43	73	83	95	95	120	141	150	229
Displaced Bonnet Volume (Litres)			2	4	6	9	9	26	34	56	163
Approximate Shipping Weight (Kilograms)			160	250	480	590	635	1043	1565	2268	6124
Flow Capacities (L/s) Globe & Angle											
Kv - Globe			110	190	310	500	610	780	1210	1800	3875
Kv - Angle			-	-	332	581	-	948	-	-	-
Continuous (Globe)			114	196	309	442	536	694	1104	1577	3500
Intermittent (Globe)			142	244	385	555	726	899	1370	1968	4375
Momentary (Globe)			252	442	694	1009	1199	1577	2460	3546	7867
Maximum Pressure Ratings (Ductile Only)											
Bar		BSPT	-	-	-	-	-	-	-	-	-
Bar		PN16	16	16	16	16	16	16	16	16	16
Bar		PN25	25	25	25	25	25	25	25	25	25
Maximum Temperature											
Celcius			82°	82°	82°	82°	82°	82°	82°	82°	82°



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