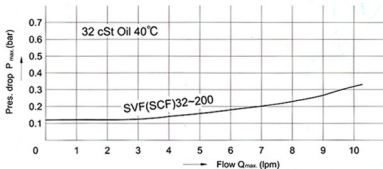


PRE-FILL VALVES (Flange-clamped type)

Specifications:

Model	Flow Q_{max}	Pres. P_{max}	Pilot Ratio	Flange bolts		Pipe Size	Weight kg(lb)
	lpm (USgpm)	bar (PSI)	P control /P cyl.	Number	Nor. Dia.		
SVF- 32-21C	160(42.27)	400 (5,800)	3.6	4	M16	2B	1.3(2.86)
SVF- 50-21C	400(105.98)		3.8	6	M16/M24*	3B	2.9(6.39)
SVF- 63-21C	630(166.44)		4.2	8	M16/M24*	3.5B/4B	4.5(9.91)
SVF- 80-21C	1,000(264.19)		4.3	8	M16/M24*	4B	6.2(13.66)
SVF-100-21C	1,600(422.70)		4.3	8	M22/M30*	5B	12.3(27.09)
SVF-125-21C	2,500(660.48)		4.3	12	M24/M30*	8B	23.0(50.66)
SVF-160-21C	4,000 (1,056.76)	250 (3,600)	4.2	16	M30	10B	50.0(110.13)
SVF-200-21C	7,000 (1,849.33)		4.1	20	M30	12B	130.0(286.34)
Note: * For working pressure up to 400 bar (5,800PSI)							
SCF- 32-22C	160(42.27)	250 (3,600)	3.6	4	M16	2B	1.3(2.86)
SCF- 50-22C	400(105.98)		3.8	6	M16	3B	2.9(6.39)
SCF- 63-22C	630(166.44)		4.2	8	M16	3.5B/4B	4.5(9.91)
SCF- 80-22C	1,000(264.19)		4.3	8	M16	4B	6.2(13.66)
SCF-100-22C	1,600(422.70)		4.3	8	M22	5B	12.3(27.09)
SCF-125-22C	2,500(660.48)		4.3	12	M24	8B	23.0(50.66)

Flow Curve:



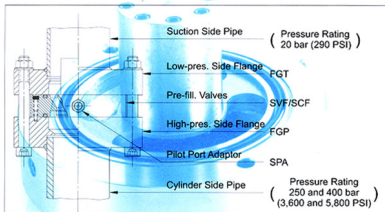
PRE-FILL VALVES (Flange-clamped type)



SYMBOL

Features:

- Small size , and easy to install.
- Low pressure loss with high flow capacity.
- Compact and robust.
- Steel body with steel components.
available with 8 models for selection options.
- Ductile iron body with steel Components.
available with 6 models for selection options.
- Good for directly intergrated onto the cylinder cap side.



Pre-fill valve

Ordering Code

SVF - 100 - 21C

① ② ③

- ① Series
SVF-Steel body
SCF-Ductile iron body
- ② Size
SVF- 32-200
SCF- 32-125
- ③ Design Number
SVF- 21C
SCF- 22C



Pipe Flange

Ordering Code

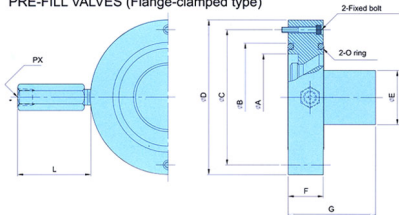
FGP - 100 - 2 - M22 / 5B

① ② ③ ④ ⑤

- ① Series
FGP-High-pres. side flange
FGT-Low-pres. side flange
- ② Size
- ③ Pressure range
2: 250 bar (3,600 PSI)
4: 400 bar (5,800 PSI)
- ④ Normal bolt diameter
- ⑤ Normal pipe diameter

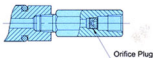


PRE-FILL VALVES (Flange-clamped type)



Model	$\varnothing A$	$\varnothing B$	$\varnothing C$	$\varnothing D$	$\varnothing E$	$\varnothing F$	$\varnothing G$	L	PX	Fixed Bolt	O-ring
SVF-32,SCF-32	48 (1.89)	63 (2.48)	—	82 (3.23)	32 (1.26)	28 (1.10)	55 (2.17)	62 (2.44)	PT1/4"	—	1517-6
SVF-50,SCF-50	72 (2.83)	90 (3.54)	112 (4.41)	128 (5.04)	45 (1.77)	29 (1.14)	72 (2.83)			M 4X30	G 85
SVF-63,SCF-63	87 (3.43)	105 (4.13)	125 (4.92)	143 (5.63)	50 (1.97)	33.5 (1.32)	84 (3.31)			M 5X35	G 95
SVF-80,SCF-80	108 (4.25)	130.5 (5.14)	150 (5.91)	169 (6.65)	57 (2.24)	38.5 (1.52)	100 (3.94)			M 5X40	G120
SVF-100,SCF-100	130 (5.12)	155 (6.10)	185 (7.28)	212 (8.35)	70 (2.76)	44 (1.73)	122 (4.80)			M 6X45	G145
SVF-125,SCF-125	170 (6.69)	200 (7.87)	226 (8.90)	248 (9.76)	89 (3.50)	51 (2.01)	155 (6.10)			M 6X60	G185
SVF-160,SCF-160	218 (8.58)	250 (9.84)	284 (11.18)	310 (12.20)	120 (4.72)	70 (2.76)	233 (9.17)	70 (2.76)	PT3/8"	M 8X70	G235
SVF-200,SCF-200	272 (10.71)	310 (12.20)	355 (13.98)	390 (15.35)	145 (5.71)	95 (3.74)	268 (10.55)	85 (3.35)	PT1/2"	M10X95	G295

Pre-fill Valves Pilot Port adaptor



Model	Orifice	Plug
SVF(SCF)-32,50	$\varnothing 0.7(.03)$	PT1/8"
SVF(SCF)-63	$\varnothing 0.8(.03)$	
SVF(SCF)-80	$\varnothing 1.0(.04)$	
SVF(SCF)-100	$\varnothing 1.2(.05)$	
SVF(SCF)-125,160	$\varnothing 1.5(.06)$	
SVF(SCF)-200	$\varnothing 1.8(.07)$	PT1/8"

DIMENSIONS

mm

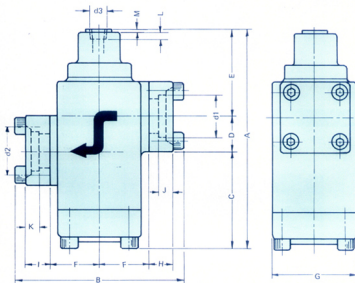


SG-16.24.32.48



Graphic Symbol

Model	Rated flow l/min	Max. Operating Pressure kgf/cm ²	Cracking Pressure kgf/cm ²	Valves Size	Mass kg
SG-16	400	250	0.12	2"	30
SG-24	900		0.14	3"	55
SG-32	1600		0.16	4"	100
SG-48	3200		0.16	6"	240



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	d1	d2	d3
SG-16	332	242	136	49.5	133	70	120	35	18	15	20	21	5	61	61	3/8PT
SG-24	396	294	165	62	155	95	150	40	40	20	20	25	2	90.5	90.5	3/8PT
SG-32	556	358	215	97.5	255	120	210	30	40	15	20	25	23	75	75	20
SG-48	727	476	285	145	296	165	310	67	37	40	18	21	12	124	167	28

■ Ordering Code

SG

-

24

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R



Series No	Valve Size	Mounting Angle
Pre-fill Valves (Flange Mounting)	16: 2"	None: 180°
	24: 3"	R: Angle (90°)
	32: 4"	L: Mounting 270°

SG-16



SG-32



MODEL	DESCRIPTION	PAGE
SG-16	Pre-fill Valves (In-line Mounting 180°)	285
SG-24	Pre-fill Valves (In-line Mounting 180°)	285
SG-24-R	Pre-fill Valves (Angle 90°)	286
SG-24-L	Pre-fill Valves (Mounting 270°)	286
SG-32	Pre-fill Valves (In-line Mounting 180°)	287
SG-32-R	Pre-fill Valves (Angle 90°)	287

SG-24



SG-24-R

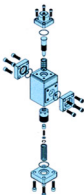
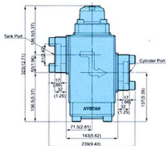


SG-24-L

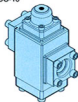


SG-16

Pre-fill Valves (In-line Mounting 180°)

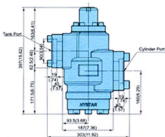


SG-16

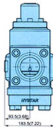


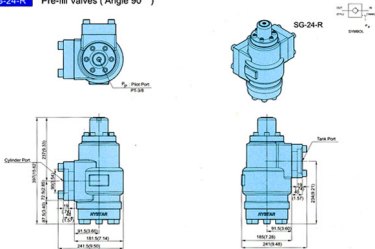
SG-24

Pre-fill Valves (In-line Mounting 180°)



SG-24



SG-24-R Pre-fill Valves (Angle 90°)**SG-24-L Pre-fill Valves (Mounting 270°)**