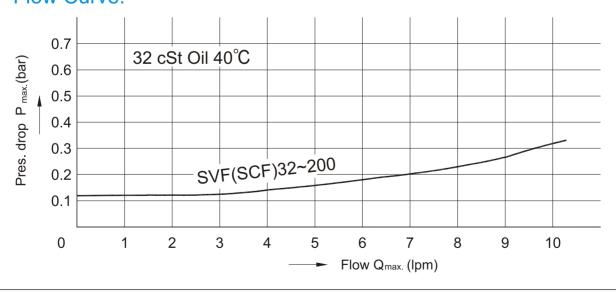
PRE-FILL VALVES (Flange-clamped type)

Specifications:

	Flow Q max.	Pres. P _{max.}	Pilot Ratio	Flange bolts			Weight	
Model	Ipm (USgpm)	bar (PSI)	P control /P cyl.	Number Nor. Dia.		Pipe Size	kg(lb)	
SVF- 32-21C	160(42.27)		3.6	4	M16	2B	1.3(2.86)	
SVF- 50-21C	400(105.98)	400 (5,800)	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	4.2	16	M30	10B	50.0(110.13)	
SVF-200-21C	7,000 (1,849.33)	(3,600)	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)		3.6	4	M16	2B	1.3(2.86)	
SCF- 50-22C	400(105.98)	250 (3,600)	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)

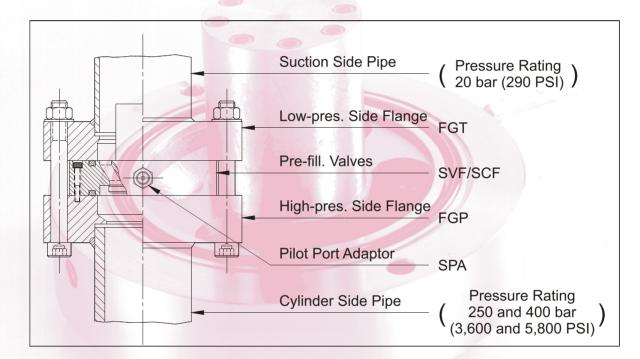
Low-gres, side. Pliot port. High-gres, side.

SYMBOL



- · 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)

- 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

<u>/2</u>\

3

4



1 Series

FGP-High-pres. side flange FGT-Low-pres. side flange

2 Size

Pressure range 2: 250 bar (3,600 PSI)

4: 400 bar (5,800 PSI)

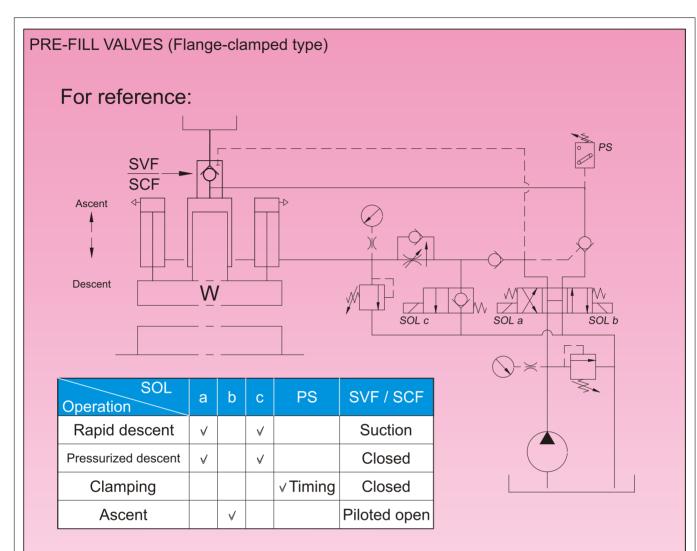
Normal bolt diameter

5

Normal pipe diameter







Example for model selection:

Given

1.Main cylinder dia.:350mm.

- 3. Weight of platen: 1500kg.
- 2.Ascending cylinder: 2-B Ø 63XR Ø 35(mm).
- 4.Pump capacity:25 lpm(6 USgpm).

Analysis

Area of main cylinder:961.625cm².

Two ascending cylinder area:43.081cm².

Ascent speed:580cm/min(96.6mm/sec).

Flow thru pre-fill valve to tank :558 lpm(135 USgpm).

Selectable model:SVF-63-21C

or SCF-63-22C

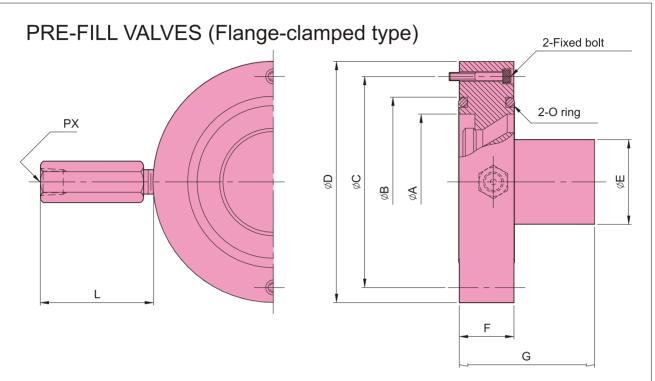
The induced pressure in ascending cylinder is 36 bar(520 PSI).

For a free descending operation, the flow capacity.

630 lpm(152 USgpm) for SVF(SCF)-63, will allow a descending

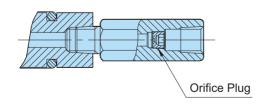
speed at 650cm/min(108mm/sec).

DIMENSIONS



Model	Ø A	Ø B	Ø C	Ø D	ØΕ	Ø F	ØG	L	РХ	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)			_	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)		62 2.44) PT1/4"	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)	62		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)		(2.44)		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	Ø0.7(.03)	
SVF(SCF)-63	Ø0.8(.03)	
SVF(SCF)-80	Ø1.0(.04)	PT1/8"
SVF(SCF)-100	Ø1.2(.05)	
SVF(SCF)-125,160	ø1.5(.06)	
SVF(SCF)-200	ø1.8(.07)	PT1/8"

