Bell Hydromatics

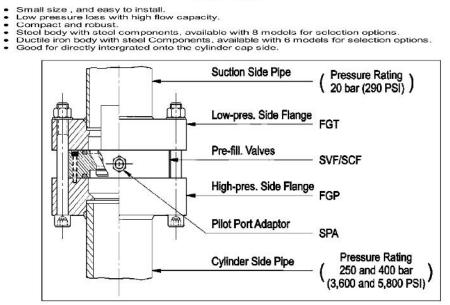
Pre Fill Valve







Features



Pre-fill valve

Ordering Code

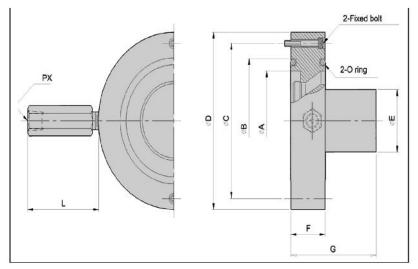
SVF	100	21C	
Series No.	Size	Design Number	
SVF – Steel body	SVF - 32~200	SVF - 21C	
SCF – Ductile iron body	SCF - 32~125	SCF - 22C	

Pipe Flange

Ordering Code

FGP	100	2	M22	5B Normal pipe diameter	
Series No.	Size	Pressure range	Normal bolt diameter		
FGP – High – pres. side flange		2: 250 bar (3,600 PSI)			
FGT -Low – pres. side flange		4: 400 bar (5,800 PSI)			

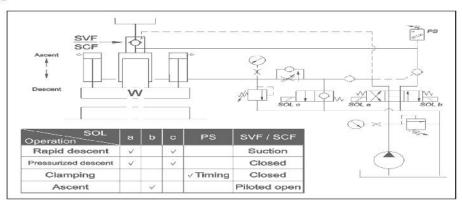
Dimensions



Model	ФА	ФВ	ФС	ФD	ΦЕ	ΦF	ФС	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	G 120
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	G 145
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 6×60	G 185
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	310	355	390	145	95	268	85	PT1/2"	M 10X95	G295



Reference



- Example for model selection: Given 1 .Main cylinder dia.:350mm. 2.Ascending cylinder:2-B063XR035(mm).
- 3.Weight of platen: 1500kg.
- 1.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).

Flanges

