

### Features

- ☆ 1.5 bellow & flat vacuum pad
- ☆ Transfer objects in the vertical plane steadily and safely, there is good lifting force.
- ☆ Strong adsorptive power, good wear resistance.

### Applications

- ◇ Stamping equipment
- ◇ Flat steel plate
- ◇ Glass
- ◇ Carton box transferring
- ◇ Steel plate supplying
- ◇ Automotive panels
- ◇ Plywood
- ◇ Sheet metal stamping



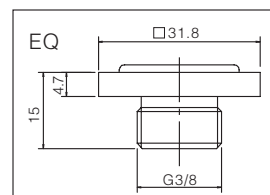
### How to Order

#### SBF80 PU F – 12F – EQ – KI1230–A18 – BH–G1/2

① Model	② Material ( Shore hardness )	④ Connection thread	⑤ Quick mount adaptor*
SBF30 φ30	PU Poly urethane(60° )	18-F G1/8 Female thread (SBF30,40,50,60,80,100)	EQ Quick mount adaptor*
SBF40 φ40		14-F G1/4 Female thread (SBF30,40,50,60,80,100)	- No
SBF50 φ50		38-F G3/8 Female thread (SBF30,40,50,60,80,100)	
SBF60 φ60		12-F G1/2 Female thread (SBF60,80,100)	
SBF80 φ80	③ Filter F With filter(PE)	14-M G1/4 Male thread (SBF30,40,50,60,80,100)	
SBF100 φ100	- No	M10M M10 × 1.5 Male thread(SBF30,40,50,60,80)	

\*Only for SBF60 SBF80 SBF100

\*Refer to the fittings for vacuum pads on page166–169



### Accessories

#### KI1230–A18 BH–G1/2

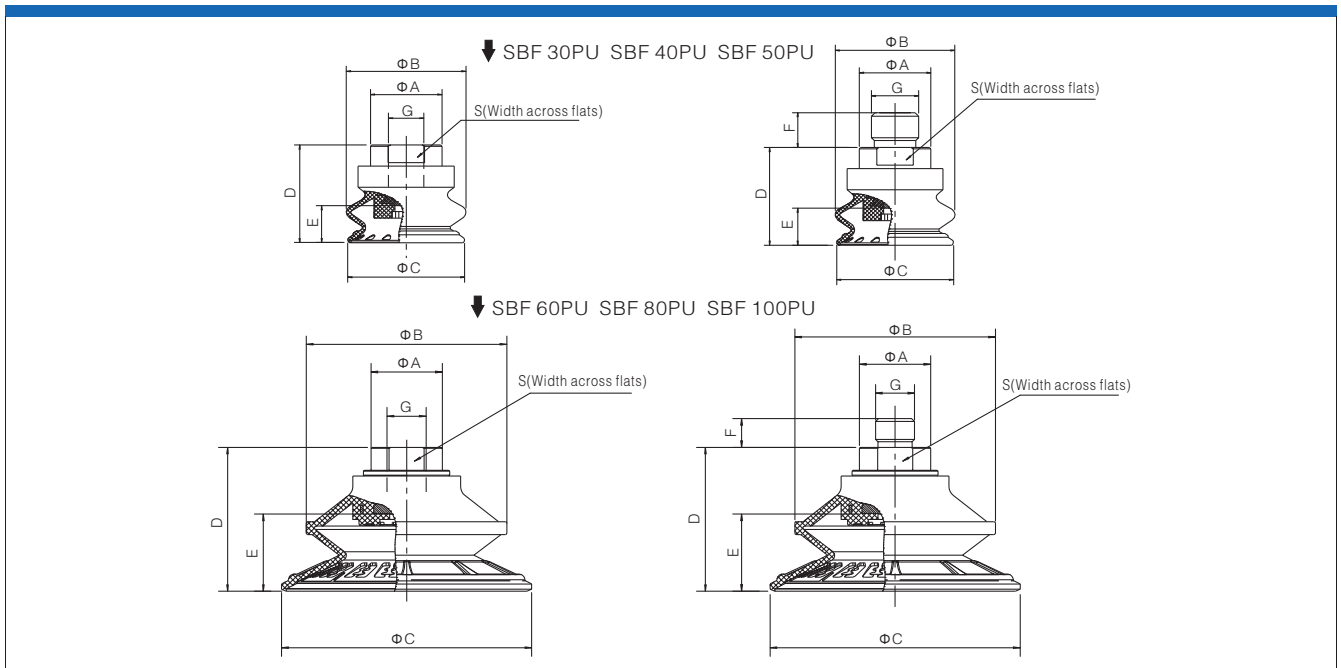
⑥ Spring plunger		⑦ Ball Joint	
Model	Buffer stroke(mm)		
KE1810–A16, KE1810–L–A14, KE1810–V–A16	10	BH–G1/8	
KE1820–A16, KE1820–L–A14, KE1820–V–A16	20		
KE1830–A16, KE1830–L–A14, KE1830–V–A16	30		
KE1850–A16, KE1850–L–A14, KE1850–V–A16*	50		
KI1810–A16, KI1810–L–A16, KI1810–V–A16	10		
KI1820, KI1820–L–A16, KI1820–V–A16*	20		
KI1830–A16, KI1830–L–A16, KI1830–V–A16	30		
KI1850–A16, KI1850–L–A16, KI1850–V–A16*	50		
KE1210–L–A20, KE1210–A20	10		BH–G1/2
KE1220–L–A20, KE1220–A20	20		
KE1230–L–A20, KE1230–A20	30		
KE1250–L–A20, KE1250–A20	50		
KI1210–L–A20, KI1210–A18, KI1210–A22	10		
KI1220–L–A20, KI1220–A18, KI1220–A22	20		
KI1230–L–A20, KI1230–A18, KI1230–A22	30		
KI1250–L–A20, KI1250–A18, KI1250–A22	50		

\*Not available with ball joint.

### Recommended(Max.)lifting force(N)

Model	Volume cm <sup>3</sup>	Vertical lifting force(N)			Parallel lifting force(N)		
		–20kPa	–60kPa	–90kPa	–20kPa	–60kPa	–90kPa
SBF 30	6	11	60.2	91	8.4	30.5	76
SBF 40	7.2	17.5	93	119.8	11.3	63.8	110.8
SBF 50	11	25	128.5	157.8	20.5	94	144
SBF 60	22	87.3	156.2	189.2	67	125.6	165.8
SBF 80	59.5	118.6	210.5	252.6	89	167.8	221.2
SBF 100	103.5	149	269.5	310.4	111.8	209.8	276.5

## Dimensions (mm)



(mm)

Model	ΦA	ΦB	ΦC	D	E	F	G	S Width across flats
SBF 30PU-18F	19.8	32	32	28	7	-	G1/8 Female thread	17
SBF 30PU-14F	19.8			28		-	G1/4 Female thread	17
SBF 30PU-38F	-			44		-	G3/8 Female thread	17
SBF 30PU-14M	19.8			28		10	G1/4 Male thread	17
SBF 30PU-M10M	16.8			28		12	M10x1.5 Male thread	17
SBF 40PU-18F	19.8	32	42	29	9	-	G1/8 Female thread	17
SBF 40PU-14F	19.8			29		-	G1/4 Female thread	17
SBF 40PU-38F	-			45		-	G3/8 Female thread	17
SBF 40PU-14M	19.8			29		10	G1/4 Male thread	17
SBF 40PU-M10M	16.8			29		12	M10x1.5 Male thread	17
SBF 50PU-18F	24.8	40	51.5	37	11.5	-	G1/8 Female thread	22
SBF 50PU-14F	24.8			37		-	G1/4 Female thread	22
SBF 50PU-38F	24.8			37		-	G3/8 Female thread	22
SBF 50PU-14M	24.8			37		10	G1/4 Male thread	22
SBF 50PU-M10M	24.8			37		12	M10x1.5 Male thread	22
SBF 60PU-18F	24	50	64	41.5	15	-	G1/8 Female thread	21
SBF 60PU-14F	24			41.5		-	G1/4 Female thread	21
SBF 60PU-38F	24			41.5		-	G3/8 Female thread	21
SBF 60PU-12F	29			41.5		-	G1/2 Female thread	26
SBF 60PU-14M	24			41.5		10	G1/4 Male thread	21
SBF 60PU-M10M	24	41.5	12	M10x1.5 Male thread	21			
SBF 80PU-18F	24	68	84	49.5	22.5	-	G1/8 Female thread	21
SBF 80PU-14F	24			49.5		-	G1/4 Female thread	21
SBF 80PU-38F	24			49.5		-	G3/8 Female thread	21
SBF 80PU-12F	29			49.5		-	G1/2 Female thread	26
SBF 80PU-14M	24			49.5		10	G1/4 Male thread	21
SBF 80PU-M10M	24	49.5	12	M10x1.5 Male thread	21			
SBF 100PU-18F	24	83	103	55	20.5	-	G1/8 Female thread	22
SBF 100PU-14F	24			55		-	G1/4 Female thread	22
SBF 100PU-38F	24			55		-	G3/8 Female thread	22
SBF 100PU-12F	27			55		-	G1/2 Female thread	24
SBF 100PU-14M	24			55		10	G1/4 Male thread	22