

Features

- ☆ 1.5 bellow vacuum pad
- ☆ The vacuum pad can be horizontal adjustment, It is suitable for transferring objects with height difference
- ☆ It is particularly good for use on curved surface and for separating thin sheets of materials.

Applications

- ◇ Veneer sheet
- ◇ Steel plate
- ◇ Carton box
- ◇ Thin sheet
- ◇ Electronic components



How to Order

SB12 N F - 18F EH - KE1820-A16 -BH-G1/8

① ② ③ ④ ⑤ ⑥ ⑦

① Model

SB5	φ5	SB30	φ30
SB6X	φ6	SB40	φ40
SB8	φ8	SB50	φ50
SB10	φ10	SB75	φ75
SB12	φ12	SB110	φ110
SB15	φ15	SB150	φ150
SB17	φ17		
SB20	φ20		

③ Filter

F	With filter(PE) (SB30,40,30,50,75,110)
-	No

② Material (Shorehardness)

N	NBR(55°)
S	Silicone(50°)
WS	White silicone(50°)
CS	Conductive(Special mat'l)(50°)
PU	Poly urethane(60°)*

*Only for SB15,SB20,SB30, SB40, SB50,SB75

⑤ Vacuum efficiency valve

EH	Vacuum efficiency valve (SB17,20,30,40, 50)
-	No

④ Connection thread

18-F	G1/8 Female thread (SB17,SB20,SB30,SB40,SB50,SB75)
5 x 18F	5 x G1/8 Female thread (SB30,SB40,SB50)
18-FL	G1/8 Female thread (SB30,SB40)
14-F	G1/4 Female thread (SB75)
38-F	G3/8 Female thread (SB75)
12-F	G1/2 Female thread (SB75,SB110,SB150)
M5-M	M5 Male thread (SB5,SB8,SB10,SB12,SB15)
M5/18MF	M5 Female thread and G1/8 Male thread (SB17,SB20)
M5/18-MFL	M5 Female thread and G1/8 Male thread (SB17, SB20)
5 x M5-F	5 x M5Female thread (SB17, SB20)
18-M	G1/8 Male thread (SB30,SB40)
14-M	G1/4 Male thread (SB30, SB40,SB50)
38-M	G3/8 Male thread (SB50)

*Refer to the fittings for vacuum pads on page 166 - 169
Remark:SB30~150 fittings are including mesh filter, only for silicon material.

Accessories

KE1820-A16 BH-G1/8

⑥ ⑦

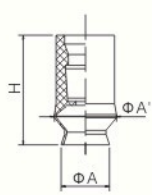
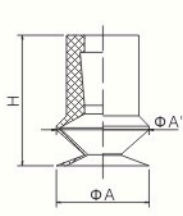
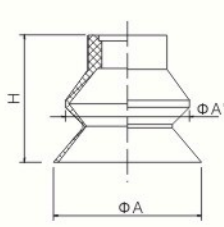
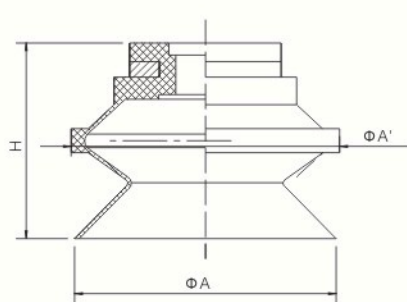
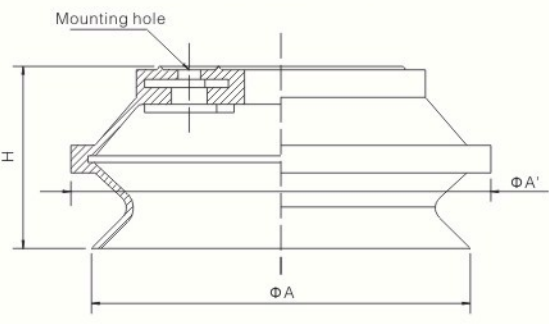
⑥ Spring plunger		⑦ Ball Joint
Model	Buffer stroke(mm)	
KE510-A12, KE510-Y-A12	10	-
KE520-A12, KE20-Y-A12	20	
KI506-R-A8, KI506-B-A8, KI506-E-A8, KI506-S-A8	06	
KI510-R-A8, KI510-B-A8, KI510-E-A8, KI510-S-A8	10	
KI525-R-A8, KI525-B-A8, KI525-E-A8, KI525-S-A8	25	
KI507-V-A10	7	
KI515-V-A10	15	
KI520-V-A10	20	
KE1810-A16, KE1810-L-A14, KE1810-V-A16	10	
KE1820-A16, KE1820-L-A14, KE1820-V-A16	20	
KE1830-A16, KE1830-L-A14, KE1830-V-A16	30	BH-G1/8
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	

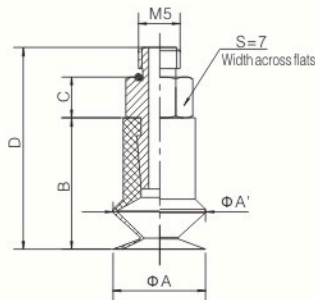
*Not available with ball joint.

Recommended(Max.)lifting force(N)

Model	Volume cm ³	Vertical lifting force(N) 		
		-20kPa	-60kPa	-90kPa
SB5	0.05	0.295	0.786	0.99
SB6X	0.09	0.5	1.076	1.375
SB8	0.15	0.786	1.7	2.45
SB10	0.48	1.7	3.5	5.1
SB12	0.59	2.2	4.2	7.2
SB15	1.1	3.3	6	8.9
SB17	1.5	3.93	7.82	9.7
SB20	2.7	5.8	10.6	15
SB30	10	13	25	28
SB40	15	22.5	42	50.2
SB50	32	34	65	83
SB75	110	74	166.4	226
SB110	310	136.5	343	460.5
SB150	650	295	686	883

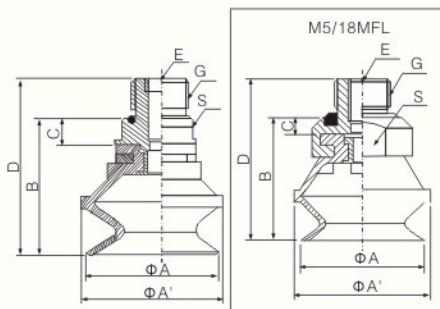
Dimensions (mm)

▼SB6X 					▼SB5 SB8 SB10 SB12 SB15 					▼SB17 				
▼SB20 SB30 SB40 SB50 					▼SB75 SB110 SB150 									
(mm)					(mm)									
Model	ΦA	ΦA'	H		Model	ΦA	ΦA'	H	Mounting hole					
SB6X	7	9	13.5		SB20	22	24	19	—					
SB5	5.8	6.2	9.2		SB30	34	36	26	—					
SB8	8.8	9.6	11.9		SB40	43	46	28	—					
SB10	11	12	16		SB50	53	58	35	—					
SB12	12	14	16.5		SB75	78	83	37	4-φ6.5 circle diameter φ35					
SB15	15.5	17.5	19.5		SB110	115	124	54	8-φ6 circle diameter φ55					
SB17	18.5	16.6	15.6		SB150	155	166	71	8-φ6 circle diameter φ70.5					



Male thread connection(mm)

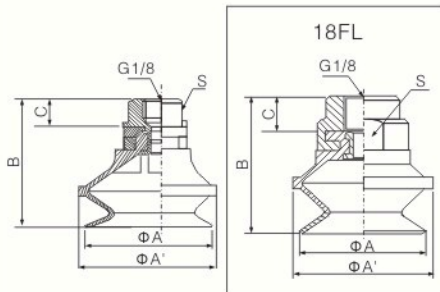
Model	ΦA	ΦA'	B	C	D
SB5-M5	5.6	6.2	9.2	4	16.7
SB8-M5	8.8	9.6	11.9	4	19.4
SB10-M5	11	12	16	5	25
SB12-M5	12	14	16.5	5	25.5
SB15-M5	15.5	17.5	19.5	5	28.5



Male thread connection(mm)

Model	ΦA	ΦA'	B	C	D	E	G	S
SB17-M5/18MF	18.5	16.6	17.1	1.5	23.1	M5	G1/8	S12
SB20-M5/18MF	22	24	20.5	1.5	26.5	M5	G1/8	S12
SB20-M5/18MFL*	22	24	22	3	29	M5	G1/8	S16
SB30-18M	34	36	31	5	38	-	G1/8	S17
SB30-14M	34	36	32	6	41	-	G1/4	S17
SB40-18M	43	46	33	5	40	-	G1/8	S17
SB40-14M	43	46	34	6	43	-	G1/4	S17
SB50-14M	53	58	41	6	50	-	G1/4	S24
SB50-38M	53	58	41	6	51	-	G3/8	S24

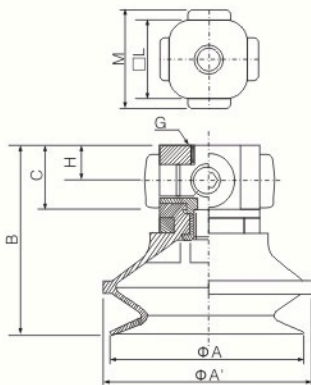
*only for S(Silicone)material



Female thread connection(mm)

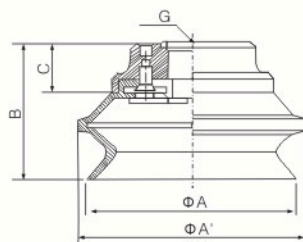
Model	ΦA	ΦA'	B	C	S
SB17-18F	18.5	16.6	23.6	8	S15
SB20-18F	22	24	27	8	S15
SB30-18F	34	36	34	8	S17
SB30-18FL*	34	36	35	9	S21
SB40-18F	43	46	36	8	S17
SB40-18FL*	43	46	37	9	S21
SB50-18F	53	58	44	9	S24

*only for S(Silicone)material



Female thread connection × 5(mm)

Model	ΦA	ΦA'	B	C	G	H	□L	M
SB17-5xM5F	18.5	16.6	24.6	9	5xM5	5	15	22
SB20-5x5F	22	24	28	9	5xM5	5	15	22
SB30-5x18F	34	36	34	18	5xG1/8	10	22	30
SB40-5x18F	43	46	46	18	5xG1/8	10	22	30
SB50-5x18F	53	58	53	18	5xG1/8	10	28	36



Female thread connection × 5(mm)

Model	ΦA	ΦA'	B	C	G
SB75-18F	78	83	50	18	G1/8
SB75-14F	78	83	50	18	G1/4
SB75-38F	78	83	50	18	G3/8
SB75-12F	78	83	50	18	G1/2
SB110-12F	115	124	63	15	G1/2
SB150-12F	155	166	78	14	G1/2