VBL Series (Long Bellows)

Features and Strengths

Similar advantages to that of the normal bellows cups but can cope with an increased degree of height compensation and is particularly good for handling fragile objects.
A note of caution, these cups are not suitable for high level vacuum applications.

Suitable for Handling

- Fragile Objects
- General Food Products
- Glass
- Eggs
- Bread

Order No.

VBL20 ① N ② F ③ - M518MF ④ EV ⑤ - L510T ⑥

▶ See pages 31, 60~67.

① Diameter

VBL15	– Ø15
• **VBL20**	– Ø20
VBL30	– Ø30
VBL35M	– Ø35
VBL40	– Ø40
VBL40B	– Ø40
VBL50	– Ø50

② Material

• **N**	– NBR
S	– Silicon
WS	– White Silicon
HS	– High Temp. Silicon
CS	– Conductive (Special mat'l)
U	– Urethane
A	– Mark free

④ Thread size

M5M	– M5 male (VBL15)
18M	– G1/8" male (VBL30, VBL40)
14M	– G1/4" male (VBL30, VBL40, VBL50)
38M	– G3/8" male (VBL50)
• **M518MF**	– M5 female and G1/8" male (VBL20)
M518MFB*	– M5 female and G1/8" male (VBL20)
18F	– G1/8" female (VBL20, VBL30, VBL40, VBL50)
18FB*	– G1/8" female (VBL30, VBL40)
M5X5F	– M5X5 female (VBL20)
18X5F	– 5XG1/8" female (VBL30, VBL40, VBL50)

Remark : VBL30, 40, 50 fittings are including mesh filter
* Only for silicon material

③ Filter

No Mark	– Standard
• F	– With Filter(PE) VBL30, VBL40 VBL50

⑤ Valves

no mark	– Standard
• EV	– Vacuum efficiency valve (See page :16) (VBL20, VBL30, VBL40, VBL50)

VOBL 35X90 ① WS ② F - ③ 12F

① Material

N	– NBR
S	– Silicon
• **WS**	– White Silicon
HS	– High Temp. Silicon
CS	– Conductive
U	– Urethane
A	– Mark free

② Filter

No Mark	– Standard
• **F**	– With Filter(PE)

③ Thread size

• **12F**	– G1/2" female

Specifications subject to change without notice.

Accessories order No.

L510T

⑥

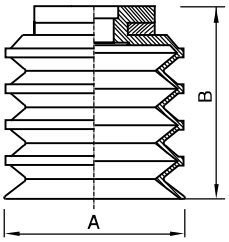
⑥Level compensator	
Model	Stroke
L510	10
• **L510T**	10
L520	20
L520T, L520TF	20
L1805F	5
L1805M	5
L1810T	10
L1810TS, L1810TSE	10
L1815T, L1815	15
L1820T, L1820TS	20
L1820TN	20
L1830	30
L1830T, L1830TS	30
L1850	50
L1850T	50

Recommended (max.) lifting forces

Model	Volume (cm^3)	Lifting Force (kg) – Perpendicular	
		−20 kPa	−60 kPa
VBL15	1.95	0.29	0.6
VBL20	4	0.03	0.06
VBL30	13	0.06	0.16
VBL35M	21	0.08	0.19
VBL40	27	0.11	0.22
VBL40B	26	1.03	2.1
VBL50	55	0.17	0.43
VOBL35X90	43	2.5*	3.2*

* Lifting force with PE filter

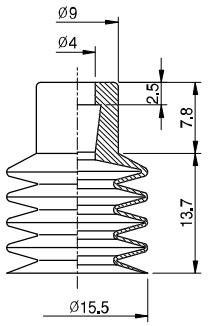
Dimensional Information



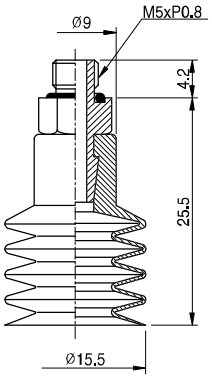
◀ VBL20, VBL30, VBL40, VBL50 [mm]

Model	A	B
VBL20	20	23
VBL30	30	32
VBL40	40	42
VBL50	50	52

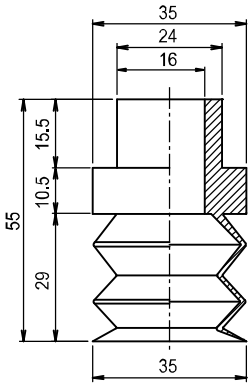
VBL15



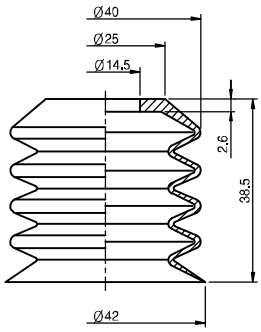
VBL15M5M

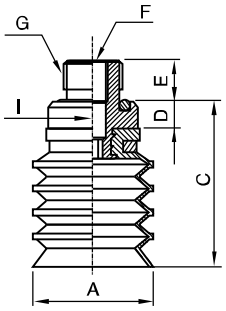


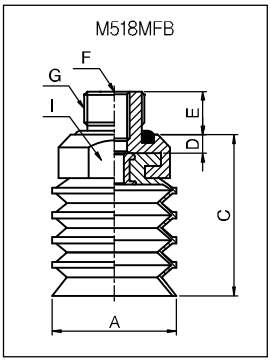
VBL35M



VBL40B





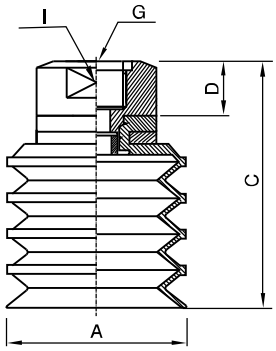


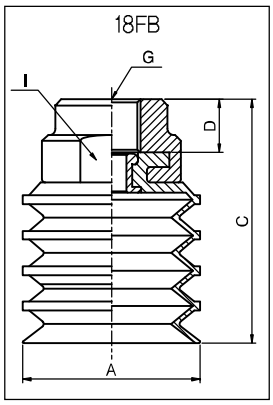
▲ Male thread [mm]

Model	A	C	D	E	F	G	I
VBL20-M518MF	20	24.5	1.5	6	M5	G1/8″	SW12.2
VBL20-M518MFB*	20	26	3	7	M5	G1/8″	SW16
VBL30-18M	30	37	5	7	–	G1/8″	SW17
VBL30-14M	30	38	6	9	–	G1/4″	SW17
VBL40-18M	40	47	5	7	–	G1/8″	SW17
VBL40-14M	40	48	6	9	–	G1/4″	SW17
VBL50-14M	50	58	6	9	–	G1/4″	SW24
VBL50-38M	50	58	6	10	–	G3/8″	SW24

* Only for silicon material

Dimensional Information

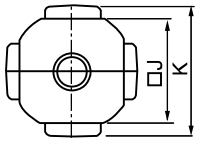


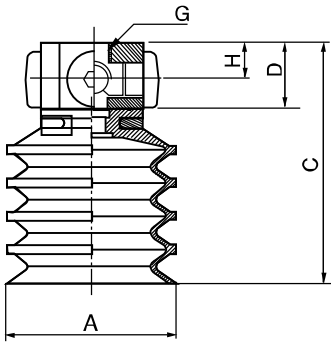


◀ Female thread [mm]

Model	A	C	D	G	I
VBL20-18F	20	31	8	G1/8″	SW15
VBL30-18F	30	40	8	G1/8″	SW17
VBL30-18FB*	30	41	9	G1/8″	SW21
VBL40-18F	40	50	8	G1/8″	SW17
VBL40-18FB*	40	51	9	G1/8″	SW21
VBL50-18F	50	60	9	G1/8″	SW24

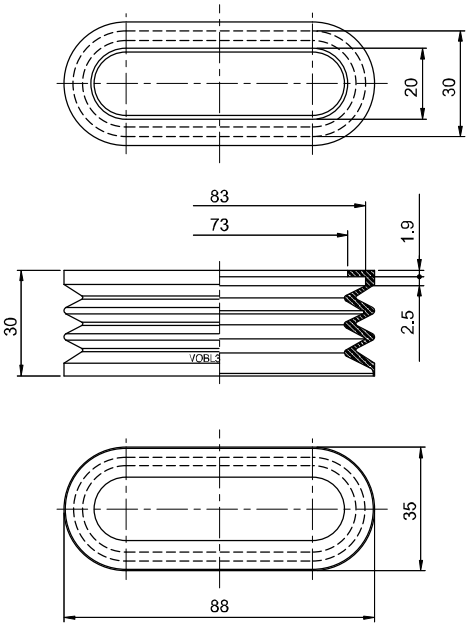
* Only for silicon material



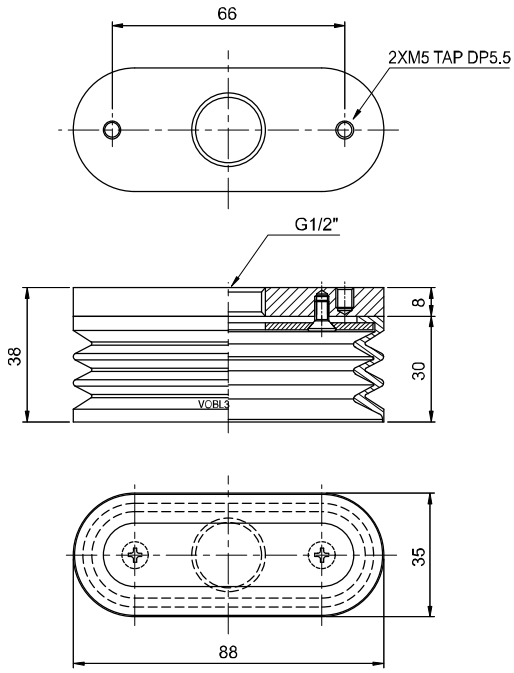


◀ Female thread x 5 [mm]

Model	A	C	D	G	H	□J	K
VBL20-M5×5F	20	32	9	M5X5	5	15	22
VBL30-18×5F	30	50	18	G1/8″X5	10	22	30
VBL40-18×5F	40	60	18	G1/8″X5	10	22	30
VBL50-18×5F	50	70	18	G1/8″X5	10	28	36



VOBL 35X90



VOBL 35X90-12F