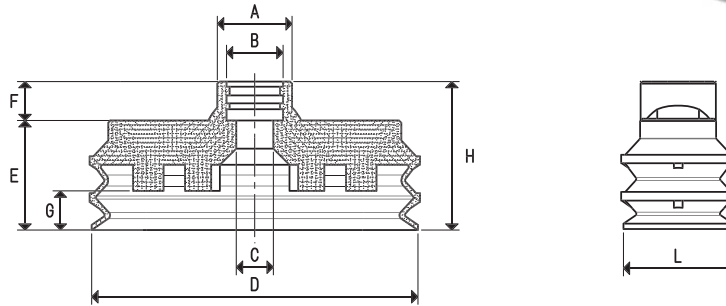




# ELLIPTICAL BELLOWS VACUUM CUPS WITH MALE SUPPORTS

3D drawings are available on [vuotecnica.net](http://vuotecnica.net)

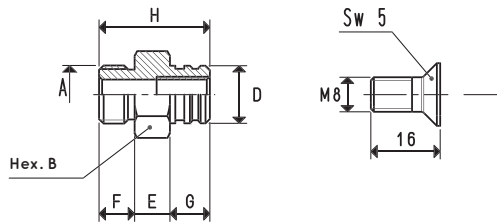
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## VACUUM CUPS

Item	Force Kg	A Ø	B Ø	C Ø	D	E	F	G bellows stroke	H	L	Volume cm <sup>3</sup>
VOS 08 25 *	0.51	10.0	7.3	1.3	25.0	12.4	6.0	3.0	18.4	8.0	0.852
VOS 15 45 *	1.56	17.2	13.0	4.0	45.0	18.6	10.0	6.5	28.6	15.0	4.978
VOS 25 75 *	4.30	17.2	13.0	9.0	75.0	25.2	9.0	8.5	34.2	25.0	23.083

\* Complete the code indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon

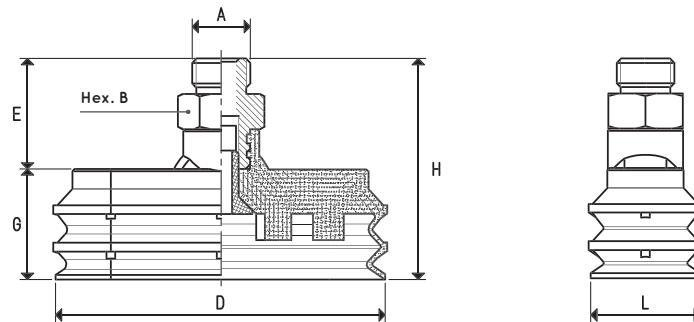


screw  
item **00 08 347** for supp. **00 08 402**

**Note:** Supplied automatically also with the screw when ordering the item relative to the support

## MALE SUPPORTS

Item	A Ø	B Ø	D Ø	E	F	G	H	Support material	For vacuum cup item	Weight g
<b>00 08 344</b>	G1/8"	14	7.3	7	7	5.5	19.5	aluminium	VOS 08 25	18.5
<b>00 08 346</b>	G1/4"	17	13.0	8	8	9.0	25.0	aluminium	VOS 15 45	25.0
<b>00 08 402</b>	G1/4"	17	13.0	8	8	9.0	25.0	aluminium	VOS 25 75	30.7



## VACUUM CUPS WITH MALE SUPPORT

Item	Force Kg	A Ø	B Ø	D	E	G	H	L	Vacuum cup item	Support item	Weight g
VOS 08 25 M *	0.51	G1/8"	14	25.0	20.0	12.4	32.4	8.0	VOS 08 25	00 08 344	20.0
VOS 15 45 M *	1.56	G1/4"	17	45.0	26.0	18.6	44.6	15.0	VOS 15 45	00 08 346	31.4
VOS 25 75 M *	4.30	G1/4"	17	75.0	25.0	25.2	50.2	25.0	VOS 25 75	00 08 402	47.3

\* Complete the code indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon

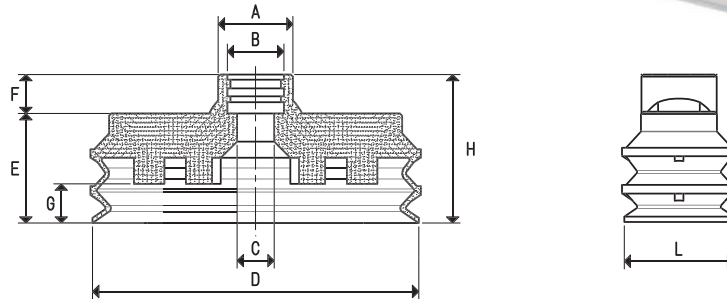
Note: The force of the vacuum cups indicated in the table represents 1/3 of the value of the theoretical force calculated at a level of vacuum of -75 KPa and a factor of safety 3.

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity)

inch =  $\frac{\text{mm}}{25.4}$ ; pounds =  $\frac{\text{g}}{453.6} = \frac{\text{Kg}}{0.4536}$

Adapters for GAS - NPT threading available on page 1.130

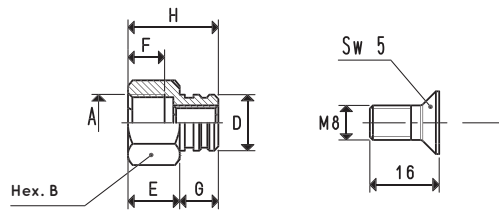
# ELLIPTICAL BELLOWS VACUUM CUPS WITH FEMALE SUPPORTS



## VACUUM CUPS

Item	Force Kg	A Ø	B Ø	C Ø	D	E	F	G bellows stroke	H	L	Volume cm <sup>3</sup>
VOS 08 25 *	0.51	10.0	7.3	1.3	25.0	12.4	6.0	3.0	18.4	8.0	0.852
VOS 15 45 *	1.56	17.2	13.0	4.0	45.0	18.6	10.0	6.5	28.6	15.0	4.978
VOS 25 75 *	4.30	17.2	13.0	9.0	75.0	25.2	9.0	8.5	34.2	25.0	23.083

\* Complete the code indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon

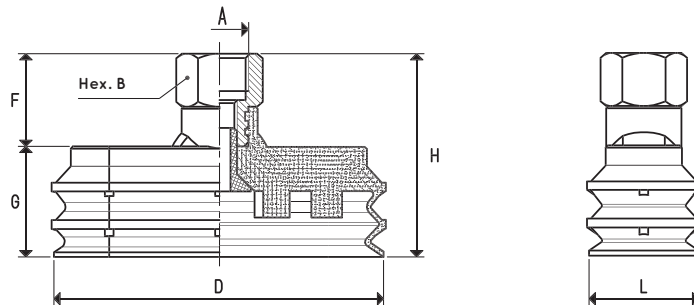


screw  
item 00 08 347 for supp.00 08 403

**Note:** Supplied automatically also with the screw when ordering the item relative to the support

## FEMALE SUPPORTS

Item	A Ø	B	D Ø	E	F	G	H	Support material	For vacuum cup item	Weight g
00 08 343	G1/8"	14	7.3	10	8.0	5.5	15.5	aluminium	VOS 08 25	16.8
00 08 345	G1/4"	17	13.0	12	8.5	9.0	21.0	aluminium	VOS 15 45	19.9
00 08 403	G1/4"	17	13.0	12	8.5	9.0	21.0	aluminium	VOS 25 75	25.6



## VACUUM CUPS WITH FEMALE SUPPORT

Item	Force Kg	A Ø	B	D	F	G	H	L	Vacuum cup item	Support item	Weight g
VOS 08 25 F *	0.51	G1/8"	14	25.0	16.0	12.4	28.4	8.0	VOS 08 25	00 08 343	18.3
VOS 15 45 F *	1.56	G1/4"	17	45.0	22.0	18.6	40.6	15.0	VOS 15 45	00 08 345	26.3
VOS 25 75 F *	4.30	G1/4"	17	75.0	21.0	25.2	46.2	25.0	VOS 25 75	00 08 403	42.2

\* Complete the code indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon

Note: The force of the vacuum cups indicated in the table represents 1/3 of the value of the theoretical force calculated at a level of vacuum of -75 KPa and a factor of safety 3.

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity)      inch =  $\frac{\text{mm}}{25.4}$  ; pounds =  $\frac{\text{g}}{453.6} = \frac{\text{Kg}}{0.4536}$       Adapters for GAS - NPT threading available on page 1.130