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SPECIAL BELLOWS CUPS WITH SUPPORTS

These bellows cups crumple up when in contact with surface to be gripped and in presence of a vacuum, thus creating a quick lifting movement independently from the automation. This rapid movement prevents the load beneath from remaining stuck to the lifted one. Thanks to their great flexibility, they can also be used to compensate flatness errors or for gripping on inclined surfaces.

The cups shown on this page are the ideal solution for our customers; in fact, they have been designed for handling biscuits, stickers, crackers, sheets, labels, small metal and plastic objects, cardboard, paper and plastic bags,delicate products, chocolate and regular eggs, laminated plastic, etc. Their nickel-plated brass or anodised aluminium supports are provided with a threaded male or female pin to enable suction and to fasten them to the automation.

These cups can be manually assembled onto their supports without any adhesives, simply by pressing them in. They are provided in standard compounds and, upon request, can be provided in minimum quantities and in other special compounds, listed on pg. 31, to be defined in the order.
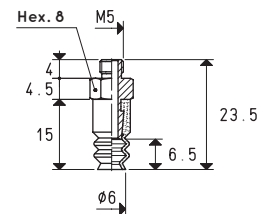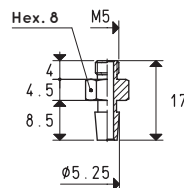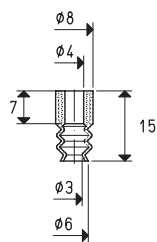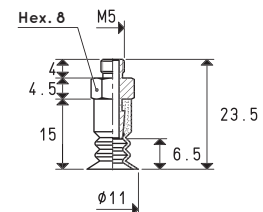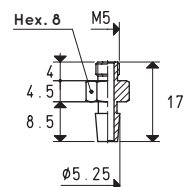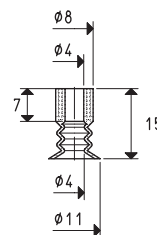
Vacuum cup item	Force Kg	Bellows stroke mm	Volume mm³	Support item	Support material	Weight g	Vacuum cup with support item	Weight g
01 06 50 *	0.07	5	135	00 08 06	AVP	2.6	08 06 50 *	3.0

* Complete the code indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon
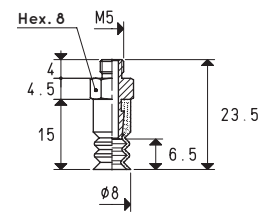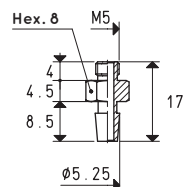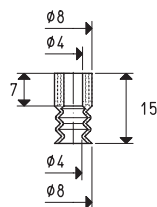
Vacuum cup item	Force Kg	Bellows stroke mm	Volume mm³	Support item	Support material	Weight g	Vacuum cup with support item	Weight g
01 08 50 *	0.12	5	155	00 08 06	AVP	2.6	08 08 50 *	3.1

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

Vacuum cup item	Force Kg	Bellows stroke mm	Volume mm³	Support item	Support material	Weight g	Vacuum cup with support item	Weight g
01 11 50 *	0.23	6	178	00 08 06	AVP	2.6	08 11 50 *	3.2

* 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 = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6}$ = $\frac{Kg}{0.4536}$ Adapters for GAS - NPT threading available on page 1.130