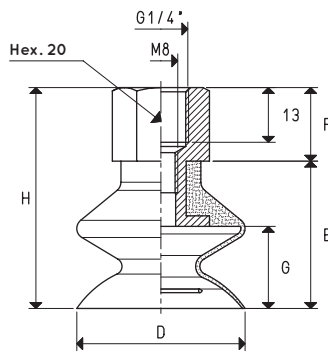# VACUUM CUPS WITH ONE BELLOWS WITH VULCANISED SUPPORT

The cups described on this page, unlike the previous ones, are vulcanised onto an aluminium hexagonal support with a male or female threaded connector, inside of which there is an M8 threaded hole for the possible insertion of a calibrated grub screw (see page 1.129).

The main feature of these bellows cups is that they quickly crumple up during the grip, thus lifting the load for a few centimetres, independently of the movements of the lifting frame; this quick movement avoids that the load beneath, remains stuck to the lifted one.

Due to this feature, they are particularly suited for handling thin metal sheets, glass sheets, chipboard or compressed wood panels, laminated plastic etc.

Thanks to their great flexibility, they can also be used to compensate flatness errors or for gripping on inclined surfaces.

The cups 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 CUPS WITH ONE BELLOWS WITH WITH VULCANISED FEMALE SUPPORT

Item	Force Kg	Volume cm³	D Ø	E	F	G	H	Bellows stroke mm	Support material	Weight g
08 40 30 *	3.14	16.2	40	35	17	18	52	12	aluminium	32.4
08 50 30 *	4.90	27.9	50	37	17	20	54	13	aluminium	40.9
08 60 30 *	7.06	46.8	60	39	17	21	56	14	aluminium	53.6
08 85 30 *	14.08	107.2	85	50	17	31	67	21	aluminium	122.0

* Complete the code indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon
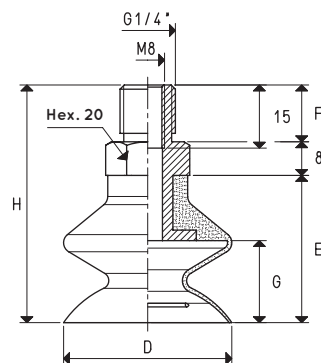
VACUUM CUPS WITH ONE BELLOWS WITH WITH VULCANISED MALE SUPPORT

Item	Force Kg	D Ø	E	F	G	H	Support material	Weight g
08 40 30 M *	3.14	40	35	13.5	18	56.5	aluminium	29.1
08 50 30 M *	4.90	50	37	13.5	20	58.5	aluminium	39.0
08 60 30 M *	7.06	60	39	13.5	21	60.5	aluminium	51.2
08 85 30 M *	14.08	85	50	13.5	31	71.5	aluminium	115.0

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