1

ROUND FLAT VACUUM CUPS WITH SUPPORTS

These cups have been designed in particular for handling metal sheets, glass, wooden panels, machined marble and granite and other similar materials.

The shape of their lips allows a firm grip of the surface of the load to be handled, eliminating any oscillation and significantly reducing the air volume contained within, thus allowing quicker grip and release. These cups are provided with cleats which, besides avoiding the load to bend in correspondence of the gripping point, also have the purpose of increasing the friction surface with the vertically lifted load, preventing it from slipping. They are normally available in the three standard compounds but can be supplied in special compounds listed on pg. 31 and in a minimum amount to be defined in the order, upon request.

These cups can be cold fitted with no adhesives onto their anodised aluminium support equipped with a threaded hole in the centre to allow its fastening to the automation and, upon request, can be supplied with a side hole with gas threading for the suction fitting.
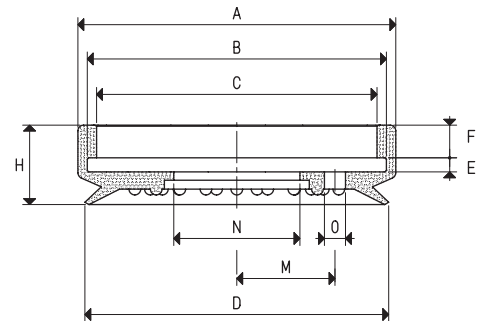
These cups are extremely easy to replace; simply request the cup indicated in the table in the desired compound when requesting the spare part.
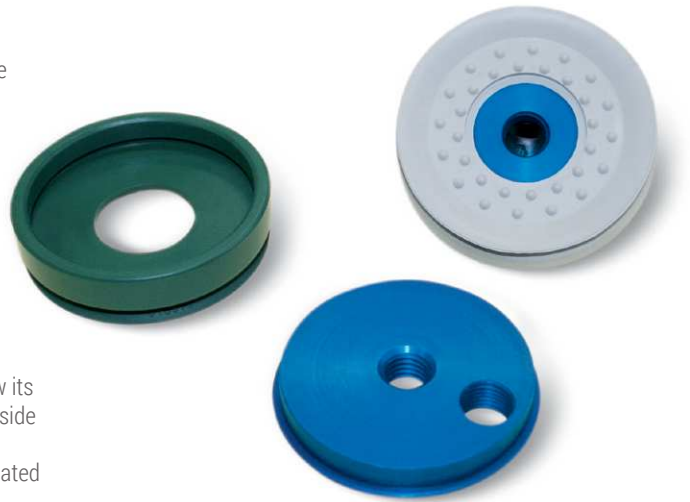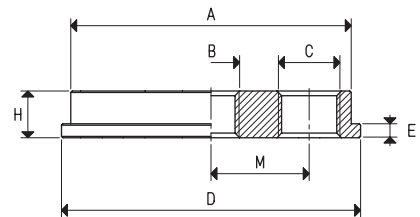
VACUUM CUPS

Item	Force Kg	Volume cm³	A Ø	B Ø	C Ø	D Ø	E	F	H	M	N Ø	O Ø
01 65 15 *	8.29	9.1	68	63	59	65	3	7	17	--	27	--
01 65 16 *	8.29	9.1	68	63	59	65	3	7	17	21	27	4.5

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


SUPPORTS

Item	A Ø	B Ø	C Ø	D Ø	E	H	M	For vacuum cup item	Support material	Weight g
00 08 32	60	M12	--	64	3	10	--	01 65 15	aluminium	80.6
00 08 424	60	G1/4"	--	64	3	10	--	01 65 15	aluminium	80.6
00 02 36	60	M8	G1/4"	64	3	10	21	01 65 16	aluminium	78.1
00 06 13	60	M12	G1/4"	64	3	10	21	01 65 16	aluminium	77.1

VACUUM CUPS WITH SUPPORT

Item	Force Kg	A Ø	B Ø	C Ø	D Ø	F	H	M	O Ø	Vacuum cup item	Support item	Weight g
08 65 15 *	8.29	69	M12	--	65	10	17	--	--	01 65 15	00 08 32	102.0
08 65 15 1/4" *	8.29	69	G1/4"	--	65	10	17	--	--	01 65 15	00 08 424	102.0
08 65 16 *	8.29	69	M8	G1/4"	65	10	17	21	4.5	01 65 16	00 02 36	100.0
08 65 17 *	8.29	69	M12	G1/4"	65	10	17	21	4.5	01 65 16	00 06 13	98.5

* Complete the code indicating the compound: B= BENZ rubber; N= natural para rubber; S = silicon
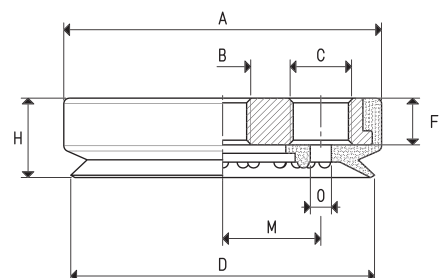
Note: The force of the vacuum cups indicated in the table represents 1/3 of the value of the theoretical force calculated at a level of vacuum of -75 KPa and a factor of safety 3.

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