

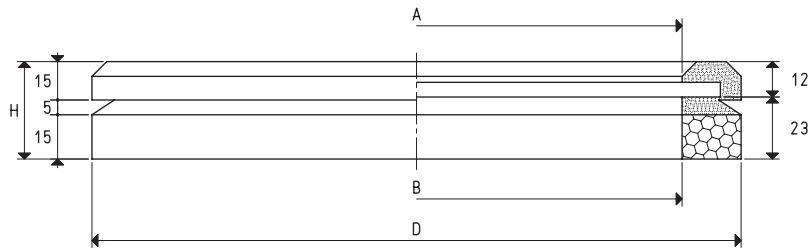


# ROUND FLAT FOAM RUBBER VACUUM CUPS WITH SUPPORT

The detail that sets these cups apart from the previously described cups is its lip, made of nitrile rubber, combined with foam rubber in the GERANIUM compound or neoprene compound. This shape allows for gripping on very rough or even grooved surfaces. They are especially suitable for gripping and handling cement objects with surfaces finished with fret, marble and bush-hammered or flamed granites.

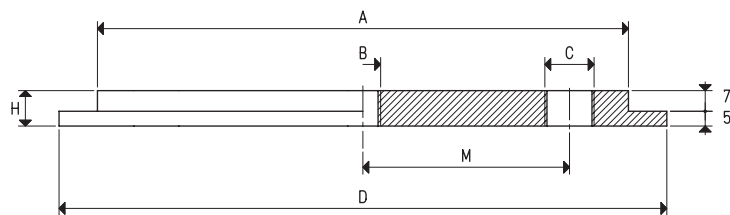
The working temperature range is between -40°C and +80°C for OF GERANIUM foam rubber and between -20°C and +80°C for NF neoprene.

The support is made with anodised aluminium and is provided with a threaded hole in the centre for fastening them to the automation, and a side threaded hole for vacuum connection. The cup is cold fitted on it without the use of adhesives. To replace, simply request the single vacuum cup indicated in the table in the desired compound.



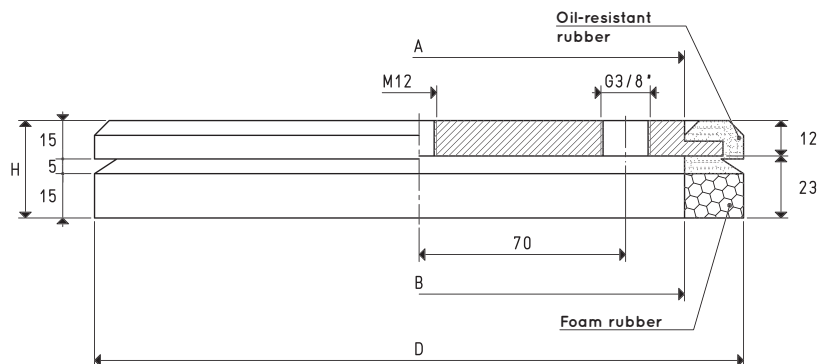
## VACUUM CUPS

Item	Force Kg	Volume cm <sup>3</sup>	A Ø	B Ø	D Ø	H	Compound
<b>01 220 10 OF</b>	63.6	585.0	180	180	220	35	geranium foam rubber
<b>01 220 10 NF</b>	63.6	585.0	180	180	220	35	neoprene foam rubber



## SUPPORT

Item	A Ø	B Ø	C Ø	D Ø	H	M	Support material	For vacuum cup item	Weight Kg
<b>00 08 37</b>	180	M12	G3/8"	206	12	70	aluminium	01 220 10	0.95



## VACUUM CUPS WITH SUPPORT

Item	Force Kg	A Ø	B Ø	D Ø	H	Vacuum cup item	Support item	Weight Kg
<b>08 220 10 OF</b>	63.6	180	180	220	35	00 08 37	01 220 10 OF	0.98
<b>08 220 10 NF</b>	63.6	180	180	220	35	00 08 37	01 220 10 NF	0.97

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