



ROUND VACUUM CUPS WITH BALL VALVE, SELF-LOCKING SUPPORT AND RELEASE BUTTON, FOR GLASS

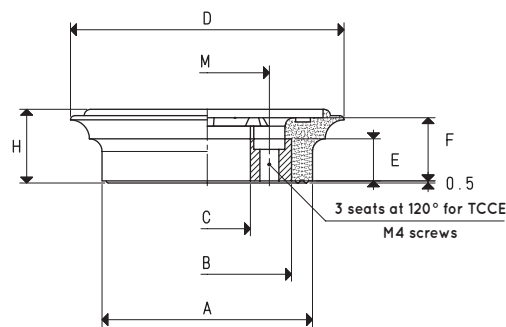
Glass machinery manufacturers require increasingly accurate and safe clamping machines. This has led us to the creation of this series of cups.

The specially designed shape of this cup guarantees a firm grip. The other main feature is the utmost precision in the height, whose nominal size has a tolerance of only five hundredths of millimetre.

They are composed of:

- A sturdy anodised aluminium support with a wide surface at the base limited by a seal whose purpose is to fix it to the bearing surface.
- A standard round flat cup which is cold-assembled onto the upper part of the support for gripping the load.
- A ball valve that opens up creating vacuum, only when activated by the load to be gripped.
- A release button that allows placing the support even with the vacuum inserted.
- Two quick couplings for vacuum connection.

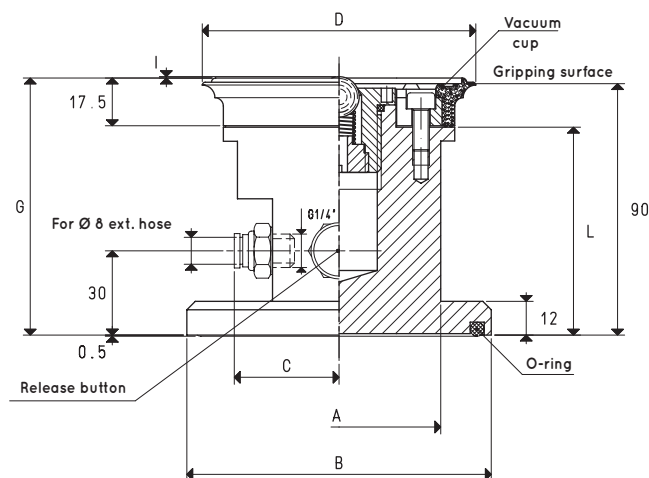
The detection of vacuum, for gripping and releasing the support from the bearing surface and for gripping and release of glass can be made via three-way vacuum valves or solenoid valves.



SPARE VACUUM CUP

Item	Force Kg	Volume cm ³	A Ø	B Ø	C Ø	D Ø	E	F	H	M Ø	Support material	Weight g
08 85 11 A	12	7.7	70	60	40.5	85	10	15	17.5	49.5	steel	92

Compound: A = oil-resistant rubber



VACUUM CUPS WITH BALL VALVE, SELF-LOCKING SUPPORT AND RELEASE BUTTON

Item	Force Kg	A Ø	B Ø	C	D Ø	G	I	L	Vacuum cup item	O-ring item	Weight Kg
21 85 11/90 A	12.0	70	98	42	85	92.5	1	75	08 85 11 A	00 16 06	1.090

Compound: A = oil-resistant rubber

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.

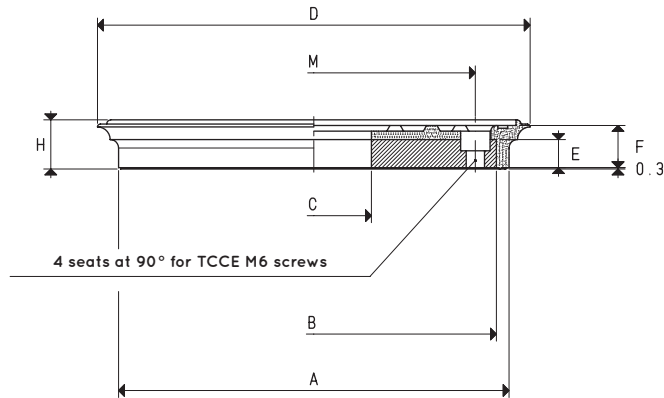
Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{\text{mm}}{25.4}$; pounds = $\frac{\text{g}}{453.6} = \frac{\text{Kg}}{0.4536}$



ROUND VACUUM CUPS WITH BALL VALVE, SELF-LOCKING SUPPORT AND RELEASE BUTTON, FOR GLASS

3D drawings are available on vuototecnica.net

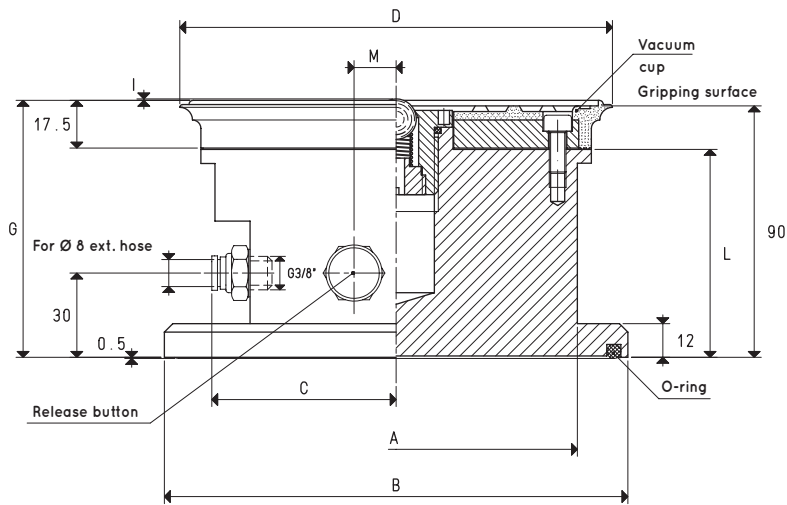
1



SPARE VACUUM CUP

Item	Force Kg	Volume cm ³	A Ø	B Ø	C Ø	D Ø	E	F	H	M Ø	Support material	Weight Kg
08 150 11 A	42.7	47.1	139	130	41.0	150	10	15	17.5	115.0	steel	1.0

Compound: A = oil-resistant rubber



VACUUM CUPS WITH BALL VALVE, SELF-LOCKING SUPPORT AND RELEASE BUTTON

Item	Force Kg	A Ø	B Ø	C	D Ø	G	I	L	M	Vacuum cup item	O-ring item	Weight Kg
21 150 11/90 A	42.7	129	165	73	150	92.5	1	75	15	08 150 11 A	00 16 08	3.938

Compound: A = oil-resistant rubber

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 = $\frac{\text{g}}{453.6} = \frac{\text{Kg}}{0.4536}$