# SPECIAL ARTICULATED VACUUM CUP HOLDERS WITH COMPACT STROKE

Marble and glass sheets are usually handled with cups that take them from a horizontal plane and place them vertically or vice-versa.
These special cup holders with compact stroke have been designed to minimise the lever forces between the cup and the automation fixing bush during the rotation of the sheets, as well as their sliding on the cups.
They share all the technical features of the other previously described special cup holders but their overall dimensions are reduced to minimum by housing the articulated joint in the cup support, thus reducing the steel stem and the spring stroke length and modifying the brass bush, in order to allow it to be screwed directly onto the automation.
Moreover, a special non-slip plastic coating fixed onto the cup support prevents the lifted load from slipping.
The actual springing stroke is:
- For height C= 29 mm   13 mm
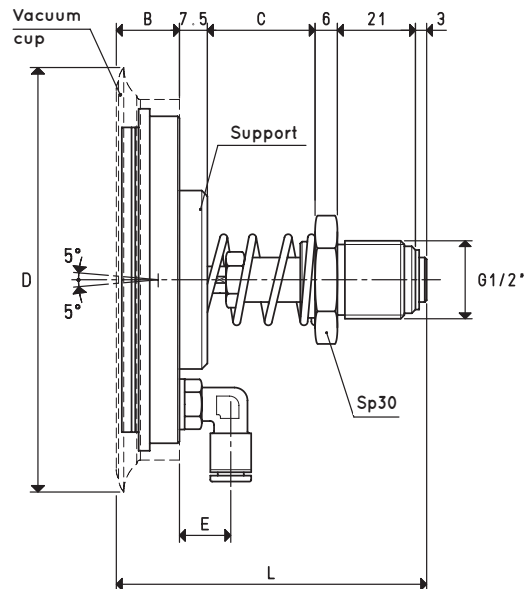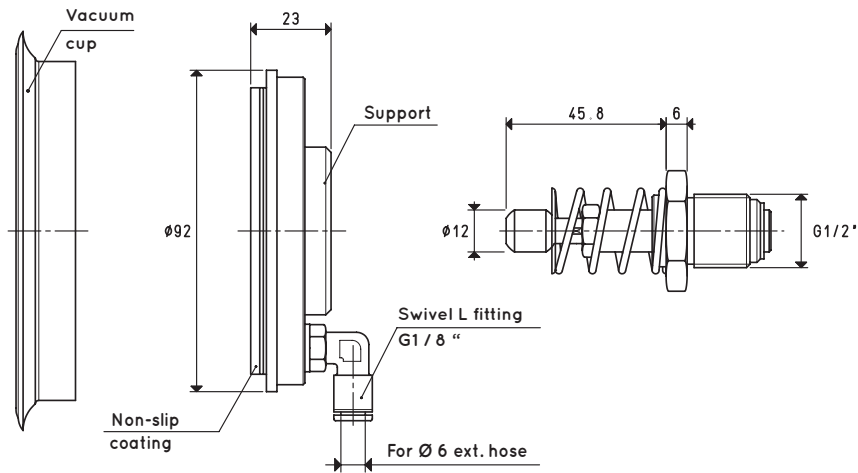
VERSION 06 110 42

VACUUM CUP HOLDERS WITH L QUICK COUPLER FOR PLASTIC HOSE Ø 4 X 6

Item	Force Kg	B	C	D Ø	E Ø	L	For vacuum cup item	Support included item	Weight Kg
06 110 42	23.74	17	29	114	13	83.5	01 110 10 M	00 06 59	0.49

Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.
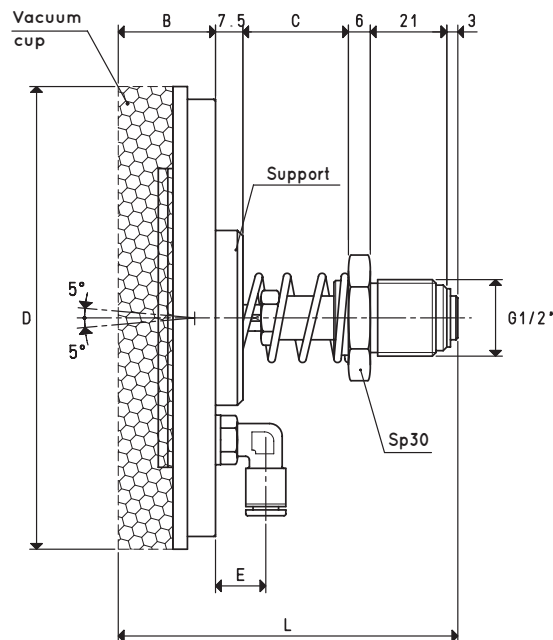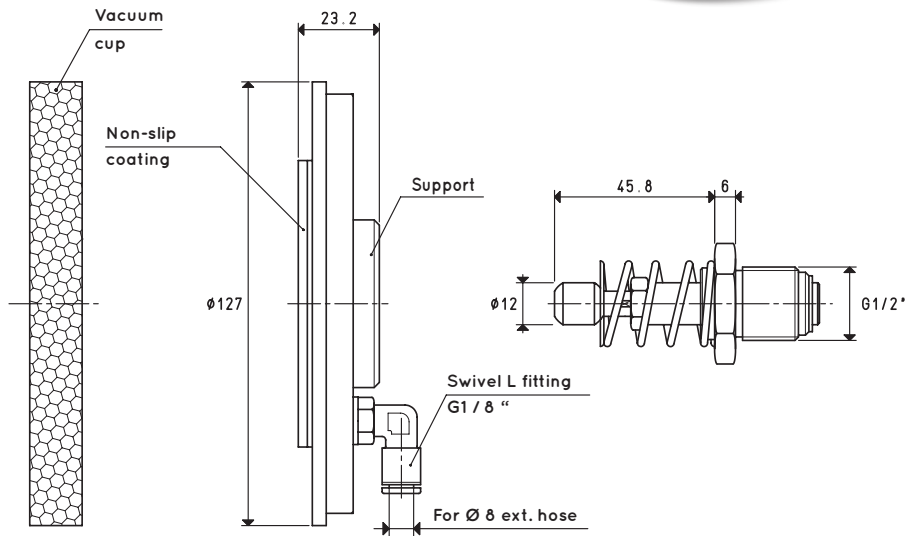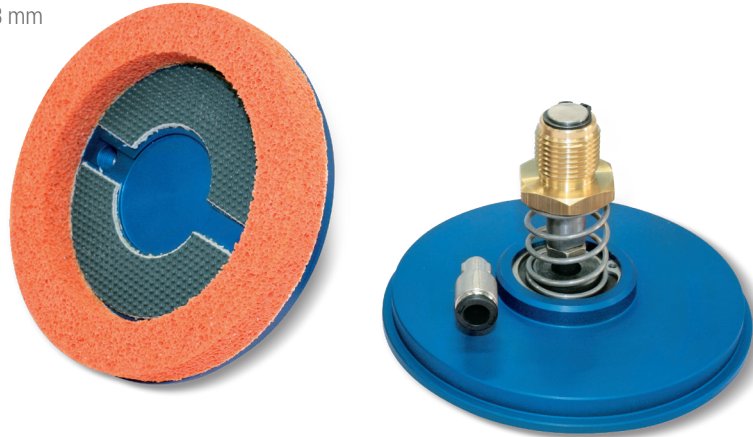
Note: The force of the vacuum cups indicated in the table represents 1/3 of the value of the theoretical force calculated at a level of vacuum of -75 KPa and a factor of safety 3.

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

SPECIAL ARTICULATED VACUUM CUP HOLDERS WITH COMPACT STROKE

The actual springing stroke is:
- For height C= 29 mm   13 mm

Vacuum cup

Non-slip coating

23.2

Ø127

Support

Swivel L fitting G1 / 8 "

For Ø 8 ext. hose

45.8   6

Ø12

G1/2'

Vacuum cup

B   7.5   C   6   21   3

D

5°
5°

Support

G1/2'

Sp30

E

L

VERSION 06 127 42

VACUUM CUP HOLDERS WITH L QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8

Item	Force Kg	B	C	D Ø	E Ø	L	For vacuum cup item	Support included item	Weight Kg
06 127 42	17.50	26.7	29	127	13.5	93.2	01 127 15	00 06 61	0.76

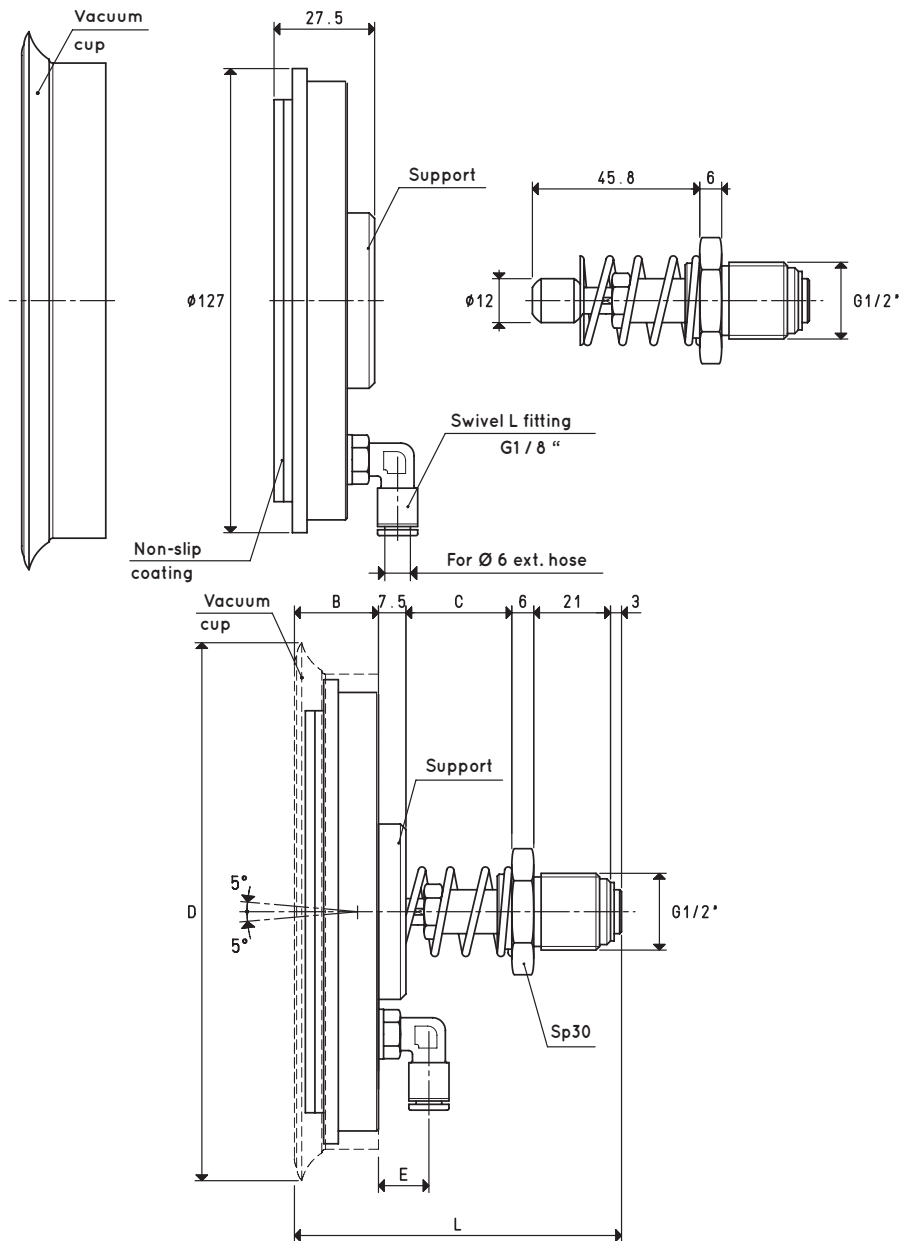Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.

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

SPECIAL ARTICULATED VACUUM CUP HOLDERS WITH COMPACT STROKE

The actual springing stroke is:
- For height C= 29 mm   13 mm

Vacuum cup

27.5

Support

45.8   6

Ø12

G1/2"

Ø127

Swivel L fitting
G1/8 "

Non-slip
coating

For Ø 6 ext. hose

Vacuum cup

B   7.5   C   6   21   3

Support

5°
5°

D

G1/2"

Sp30

E

L

VERSION 06 150 42

VACUUM CUP HOLDERS WITH L QUICK COUPLER FOR PLASTIC HOSE Ø 4 X 6

Item	Force Kg	B	C	D Ø	E Ø	L	For vacuum cup item	Support included item	Weight Kg
06 150 42	45.00	23	29	154	13	89.5	01 150 10 M	00 06 60	0.94

Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.

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