VACUUM CUP HOLDERS



MICRO VACUUM CUP HOLDERS	PG.	2.01
MINI VACUUM CUP HOLDERS	PG.	2.02 ÷ 2.08
MINI VACUUM CUP HOLDERS FOR BELLOWS CUPS	PG.	2.09 ÷ 2.16
MINI VACUUM CUP HOLDERS WITH MALE AND FEMALE THREADED CONNECTORS	PG.	$2.17 \div 2.18$
MINI VACUUM CUP HOLDERS WITH BUILT-IN SPRING	PG.	
MINI VACUUM CUP HOLDERS WITH COMPACT STROKE	PG.	2.19 ÷ 2.21
MINI VACUUM CUP HOLDERS WITH BUILT-IN BUSH	PG.	
MINI VACUUM CUP HOLDERS WITH BUILT-IN BUSH, WITH MALE AND FEMALE THREADED CONNECTORS	PG.	
MINI VACUUM CUP HOLDERS WITH PLUNGER VALVE	PG.	
MINI VACUUM CUP HOLDERS WITH PLUNGER VALVE AND BUILT-IN BUSH	PG.	
MINI VACUUM CUP HOLDERS WITH NO SPRINGING	PG.	$2.35 \div 2.39$
MINI VACUUM CUP HOLDERS WITH BUILT-IN SHUT-OFF VALVE	PG.	
MINI ANTI-ROTATION VACUUM CUP HOLDERS	PG.	$2.41 \div 2.43$
MINI VACUUM CUP HOLDERS WITH MAGNETIC SENSOR	PG.	
MINI VACUUM CUP HOLDERS FIX	PG.	
BASIC VACUUM CUP HOLDERS		2.46 ÷ 2.62
BASIC VACUUM CUP HOLDERS FOR BELLOWS VACUUM CUPS		$2.63 \div 2.77$
BASIC VACUUM CUP HOLDERS WITH MALE AND FEMALE THREADED CONNECTORS	PG.	$2.78 \div 2.81$
BASIC VACUUM CUP HOLDERS WITH PLUNGER VALVE	PG.	2.82 ÷ 2.88
BASIC VACUUM CUP HOLDERS WITH NO SPRINGING	PG.	
BASIC VACUUM CUP HOLDERS WITH BUILT-IN SHUT-OFF VALVE		2.97
BASIC ARTICULATED VACUUM CUP HOLDERS		2.98 ÷ 2.101
BASIC ANTI-ROTATION VACUUM CUP HOLDERS		2.102
BASIC VACUUM CUP HOLDERS FIX		2.103
SPECIAL VACUUM CUP HOLDERS		2.104 ÷ 2.117
SPECIAL VACUUM CUP HOLDERS FOR BELLOWS VACUUM CUPS		2.118 ÷ 2.122
SPECIAL VACUUM CUP HOLDERS WITH MALE AND FEMALE THREADED CONNECTORS		2.123 ÷ 2.124
SPECIAL VACUUM CUP HOLDERS WITH PLUNGER VALVE		2.125 ÷ 2.129
SPECIAL VACUUM CUP HOLDERS WITH PUSH VALVE		2.130 ÷ 2.131
SPECIAL VACUUM CUP HOLDERS WITH BUILT-IN SHUT-OFF VALVE		2.132
SPECIAL ARTICULATED VACUUM CUP HOLDERS		2.133 ÷ 2.139
SPECIAL ARTICULATED VACUUM CUP HOLDERS WITHOUT GS ARTICULATED JOINT		2.140 ÷ 2.141
SPECIAL ARTICULATED VACUUM CUP HOLDERS WITH COMPACT STROKE		2.142 ÷ 2.144
SPECIAL STAINLESS STEEL ANTI-ROTATION VACUUM CUP HOLDERS		2.145
SPECIAL ANTI-ROTATION VACUUM CUP HOLDERS WITH MALE THREADED CONNECTOR		2.146
SPECIAL ANTI-ROTATION VACUUM CUP HOLDERS WITH SPHERICAL SWIVEL SUPPORT		2.147 ÷ 2.148
SPECIAL VACUUM CUP HOLDERS WITH DOUBLE SPRINGING		2.149 ÷ 2.157
SPECIAL ARTICULATED VACUUM CUP HOLDERS WITH DOUBLE SPRINGING		2.158 ÷ 2.164
SPHERICAL ARTICULATED JOINTS		2.165
SPHERICAL ARTICULATED JOINTS WITH AXIAL VACUUM CONNECTION		2.166
POSITIONABLE SPHERICAL ARTICULATED JOINTS WITH AXIAL VACUUM CONNECTION		2.167
VACUUM CUP HOLDER FIXING SUPPORTS	PG.	2.168 ÷ 2.170

N

3D drawings are available on vuototecnica.net

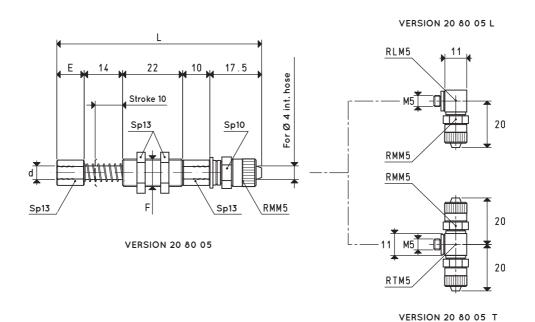


MICRO VACUUM CUP HOLDERS



- Extremely reduced size and weight
- Stainless steel stems and spring
- Self-lubricating bush built in the threaded sleeve ensuring a perfect sliding of the stem and durability
- Indicated for Pick & Place units and handling machines for unloading plastic objects from a mould press
- Available in various versions with or without coupling
- Suitable for all vacuum cups with male M5 support

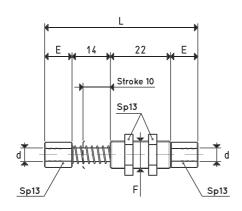




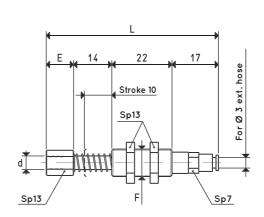
VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 4 X 6

Item	d Ø	E	F Ø	L	Weight g
20 80 05	M5	10	M10 x 0.75	73.5	20

Note: To order vacuum cup holders with L or T fittings, add the letter L or T to the code.



VERSION 20 80 05 SR



VERSION 20 80 05 RR

Item	d Ø	E	F Ø	L	Weight g
20 80 05 SR	M5	10	M10 x 0.75	56	14
20 80 05 RR	M5	10	M10 x 0.75	63	16



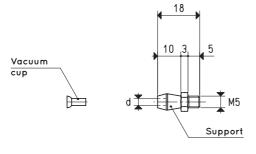
MINI VACUUM CUP HOLDERS

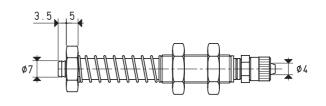
The main feature of the cup holders described on these pages is their reduced size, which results in a reduced weight and bulk. They allow use of even very small cups, guaranteeing, given the same diameter, the same performance as the larger series

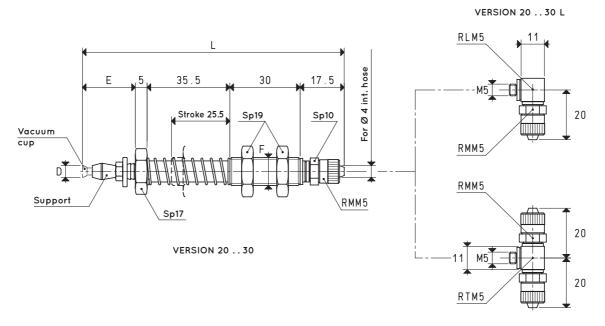
They are composed of:

- A brass stem for fastening the cup
- A threaded sleeve equipped with nuts, for mounting the vacuum up holder on the automation
- A spring to cushion the impact of the cup and to, at the same time, keep pressure pressure with the load to be lifted
- A quick coupling for connection with the suction hose









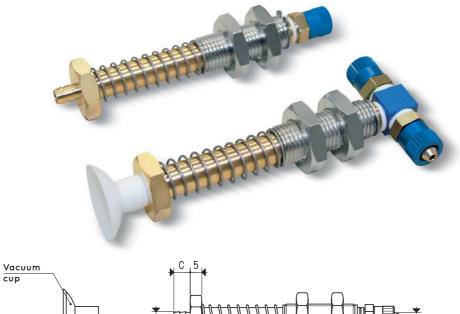
VERSION 20 . . 30 T

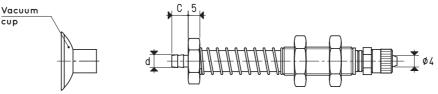
VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 4 X 6

ltem	Force Kg	d Ø	D Ø	E	F Ø	L	For vacuum cup item	Support included item	Weight g
20 04 30	0.03	2.90	4.0	21.0	M12 x 1.25	109.0	01 04 10	00 08 01	74
20 05 30	0.05	2.90	5.0	21.5	M12 x 1.25	109.5	01 05 10	00 08 01	74
20 06 30	0.07	2.90	6.0	21.5	M12 x 1.25	109.5	01 06 10	00 08 01	74
20 08 30	0.12	4.75	8.0	21.5	M12 x 1.25	109.5	01 08 10	00 08 02	74
20 09 30	0.15	4.75	9.0	20.5	M12 x 1.25	108.5	01 09 07	00 08 02	74

Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L or T fittings, add the letter L or T to the code.







RLM5 For Ø 4 int. hose 35.5 30 17.5 Ε 20 Stroke 25.5 Sp19 Sp10 Vacuum cup RMM5 RMM5 Sp17 20 VERSION 20

VERSION 20 T

RTM5

20

VERSION 20L

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

			•						
Item	Force Kg	С	d Ø	D Ø	E	F Ø	L	For vacuum cup item	Weight g
20 10 30	0.19	7.0	5.5	10.0	11.0	M12 x 1.25	99.0	01 10 10	70.0
20 12 30	0.28	7.0	5.5	12.0	11.0	M12 x 1.25	99.0	01 12 10	70.6
20 14 15	0.38	7.5	6.5	14.0	15.0	M12 x 1.25	103.0	01 14 15	70.5
20 14 30	0.38	7.0	5.5	14.0	10.0	M12 x 1.25	98.0	01 14 10	70.4
20 15 30	0.44	7.0	5.5	15.0	12.0	M12 x 1.25	100.0	01 15 10	70.7
20 17 30	0.60	7.0	5.5	17.0	11.0	M12 x 1.25	99.0	01 17 12	70.7
20 18 12	0.63	7.5	6.5	18.0	10.0	M12 x 1.25	98.0	01 18 12	70.8
20 18 30	0.63	7.0	5.5	18.0	12.0	M12 x 1.25	100.0	01 18 10	70.7
20 20 30	0.78	7.0	5.5	20.0	12.0	M12 x 1.25	100.0	01 20 10	70.8
20 22 30	0.95	7.0	5.5	22.0	13.0	M12 x 1.25	101.0	01 22 10	71.2

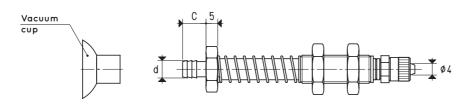
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.

To order vacuum cup holders with L or T fittings, add the letter L or T to the code.

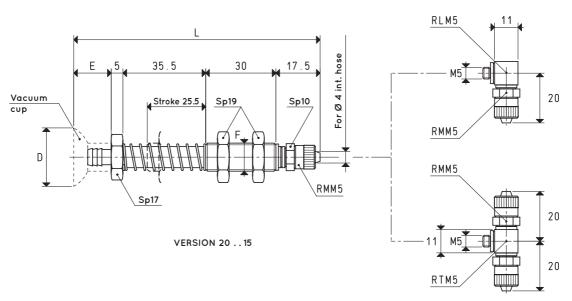
Note: The force of the vacuum cups indicated in the table represents 1/3 of the value of the theoretical force calculated at a level of vacuum of -75 KPa and a factor of safety 3. inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6}$ = $\frac{Kg}{0.4536}$ Transformation ratio: N (newton) = Kg x 9.81 (force of gravity)







VERSION 20 ... 15 L



VERSION 20 ... 15 T

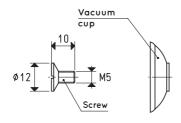
VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 4 X 6

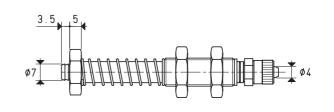
Item	Force Kg	С	d Ø	D Ø	E	F Ø	L	For vacuum cup item	Weight g
20 25 15	1.23	10	7.5	25	16	M12 x 1.25	104	01 25 15	76.0
20 30 15	1.76	10	7.5	30	17	M12 x 1.25	105	01 30 15	76.7
20 35 15	2.40	10	12.0	35	16	M12 x 1.25	104	01 35 15	76.6
20 40 15	3.14	10	12.0	40	18	M12 x 1.25	106	01 40 15	77.1
20 45 15	3.98	10	12.0	45	23	M12 x 1.25	111	01 45 15	80.6

Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L or T fittings, add the letter L or T to the code.

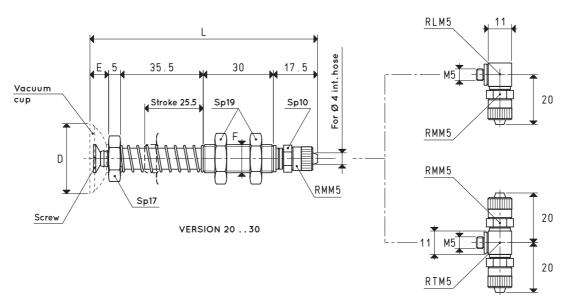








VERSION 20 .. 30 L



VERSION 20 .. 30 T

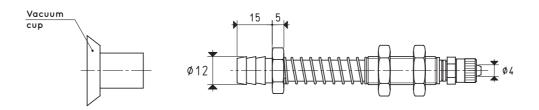
VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 4 X 6

Item	Force Kg	D Ø	E	F Ø	L	For vacuum cup item	Screw included item	Weight g
20 25 30	1.23	25.0	8	M12 x 1.25	96	01 25 10	00 20 12	75.2
20 30 30	1.76	30.0	8	M12 x 1.25	96	01 30 10	00 20 12	75.9
20 35 30	2.40	35.0	8	M12 x 1.25	96	01 35 10	00 20 12	76.4

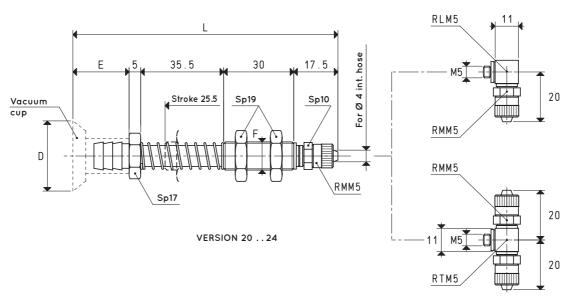
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L or T fittings, add the letter L or T to the code.







VERSION 20 . . 24 L



VERSION 20 . . 24 T

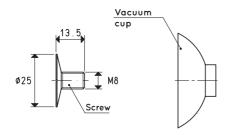
VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 4 X 6

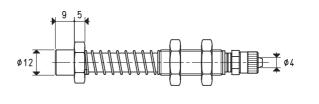
Item	Force Kg	D Ø	E	F Ø	L	For vacuum cup item	Weight g
20 27 24	1.43	27.0	24	M12 x 1.25	112	01 27 24	76.8
20 30 24	1.76	30.0	24	M12 x 1.25	112	01 30 24	76.9

Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L or T fittings, add the letter L or T to the code.

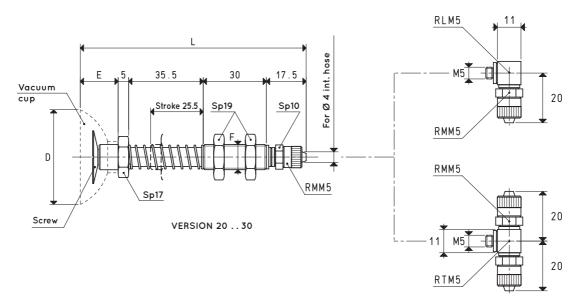








VERSION 20 . . 30 L



VERSION 20 .. 30 T

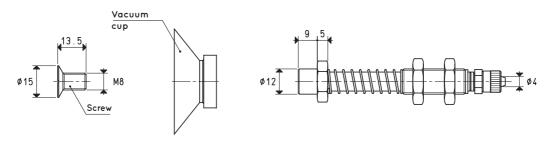
VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 4 X 6

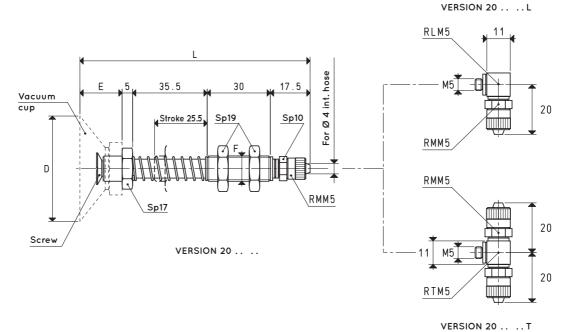
Item	Force Kg	D Ø	E	F Ø	L	For vacuum cup item	Screw included item	Weight g
20 45 30	3.98	45	18	M12 x 1.25	106	01 45 10	00 20 13	80.7
20 60 30	7.06	60	22	M12 x 1.25	110	01 60 10	00 20 13	88.9

Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L or T fittings, add the letter L or T to the code.







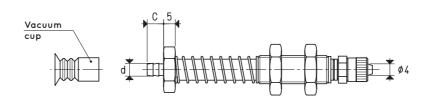


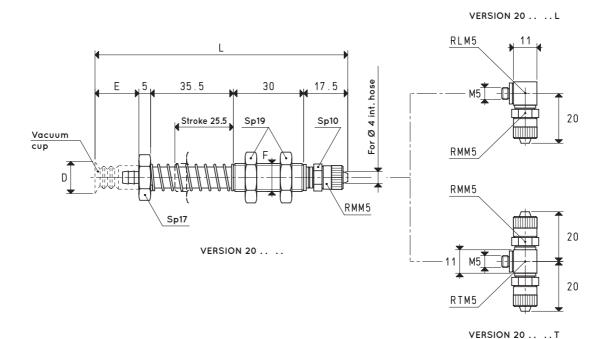
Item	Force Kg	D Ø	E	F Ø	L	For vacuum cup item	Screw included item	Weight g
20 50 20	4.90	50	20	M12 x 1.25	108	01 50 20	00 20 14	82.0
20 65 28	8.20	65	28	M12 x 1.25	116	01 65 28	00 20 14	89.7

Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L or T fittings, add the letter L or T to the code.







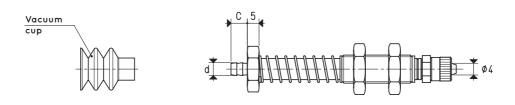


ltem	Force Kg	С	d Ø	D Ø	E	F Ø	L	For vacuum cup item	Weight g
20 06 50	0.07	7	5.5	6	15	M12 x 1.25	103	01 06 50	70.4
20 08 50	0.12	7	5.5	8	15	M12 x 1.25	103	01 08 50	70.5
20 11 16	0.23	7	5.5	11	20	M12 x 1.25	108	01 11 16	70.7
20 11 50	0.23	7	5.5	11	15	M12 x 1.25	103	01 11 50	70.6
20 16 30	0.50	7	5.5	16	20	M12 x 1.25	108	01 16 20	71.0

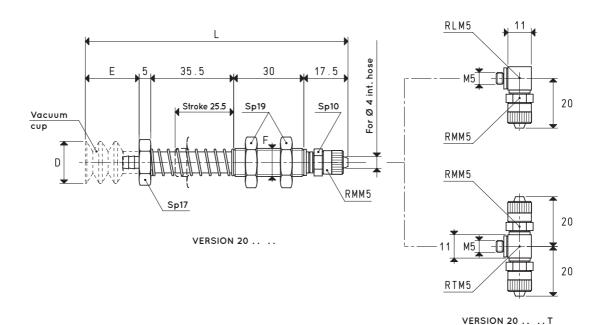
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L or T fittings, add the letter L or T to the code.

MINI VACUUM CUP HOLDERS FOR BELLOWS CUPS





VERSION 20 L

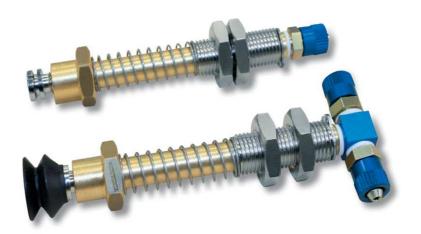


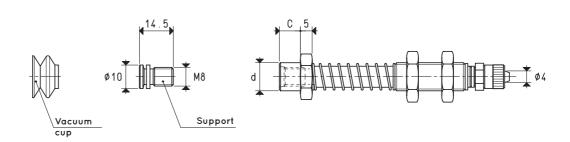
VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 4 X 6

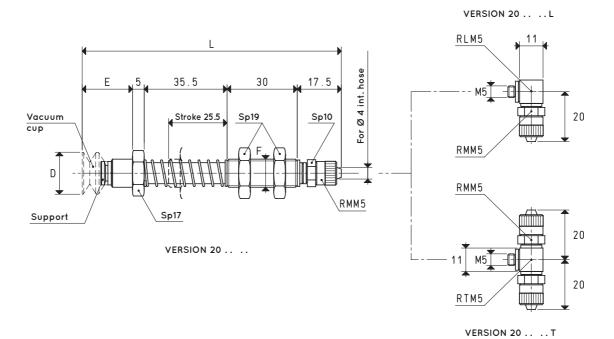
Item	Force Kg	С	d	D Ø	E	F	L	For vacuum cup item	Weight g
20 15 23	0.44	7.5	6.5	15	23	M12 x 1.25	111	01 15 23	71.3
20 18 23	0.63	7.5	6.5	18	23	M12 x 1.25	111	01 18 23	71.5
20 18 29	0.63	7.5	6.5	18	29	M12 x 1.25	117	01 18 29	71.8
20 18 35	0.63	7.5	6.5	18	35	M12 x 1.25	123	01 18 35	72.3

Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L or T fittings, add the letter L or T to the code.









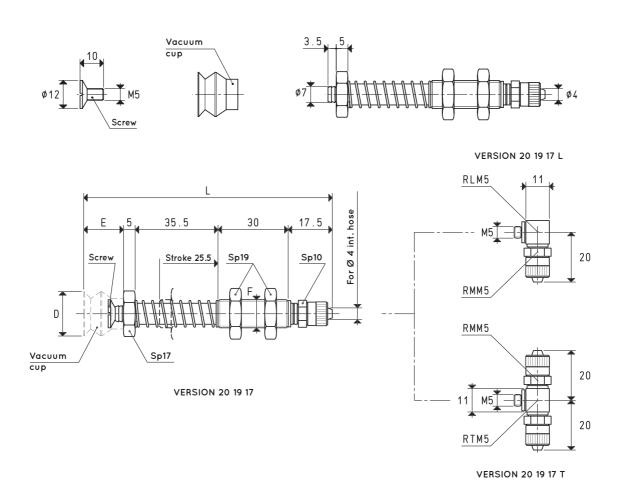
Item	Force Kg	С	d Ø	D Ø	E	F Ø	L	For vacuum cup item	Support included item	Weight g
20 18 50	0.63	9	12	18	21.5	M12 x 1.25	109.5	01 18 50	00 08 07	82.7
20 20 62	0.78	9	12	20	56.5	M12 x 1.25	144.5	01 20 60	00 08 07	86.2

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

To order vacuum cup holders with L or T fittings, add the letter L or T to the code.





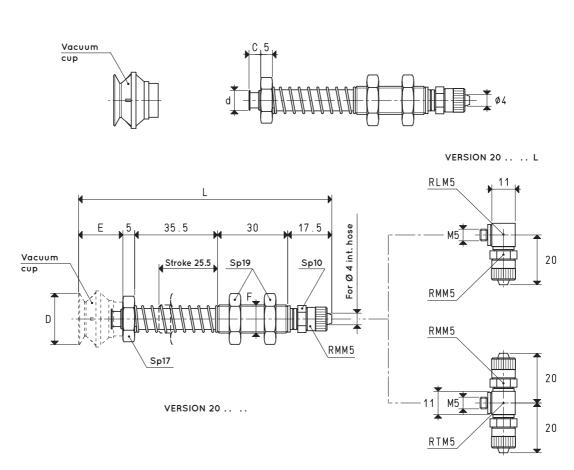


Item	Force Kg	D Ø	E	F Ø	L	For vacuum cup item	Screw included item	Weight g
20 19 17	0.70	19	17	M12 x 1.25	105	01 19 VEF	RSION 20 T	75.3

Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L or T fittings, add the letter L or T to the code.







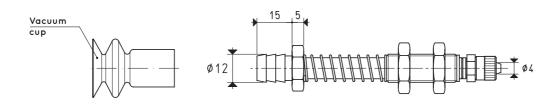
VERSION 20 T

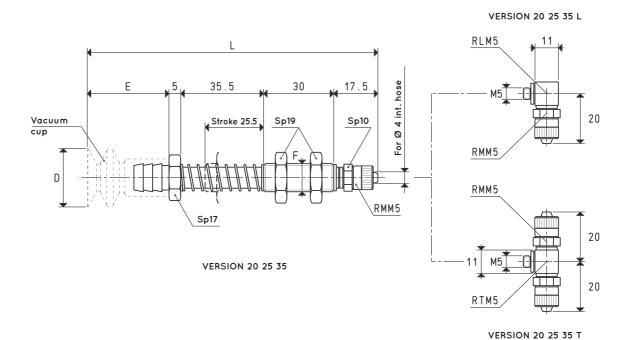
Item	Force Kg	С	d Ø	D Ø	E	F Ø	L	For vacuum cup item	Weight g
20 20 23	0.78	5	8.5	20	23	M12 x 1.25	111	01 20 23	73.8
20 22 19	0.95	5	8.5	22	19	M12 x 1.25	107	01 22 19	74.7
20 34 26	2.26	5	8.5	34	26	M12 x 1.25	114	01 34 26	77.7

Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L or T fittings, add the letter L or T to the code.







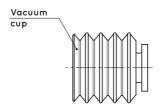


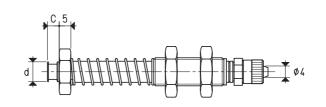
Item	Force Kg	D	E	F Ø	L	For vacuum cup item	Weight g
20 25 35	1.23	25	24	M12 x 1.25	112	01 25 35	79

Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L or T fittings, add the letter L or T to the code.

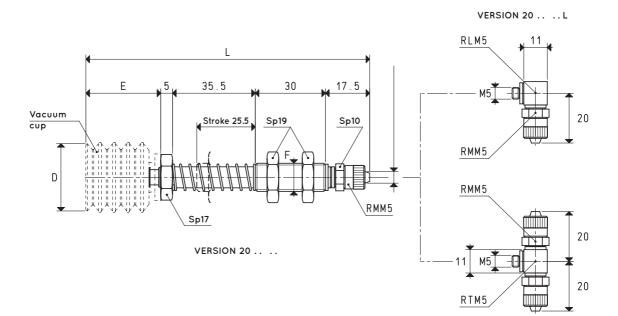








VERSION 20 T



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

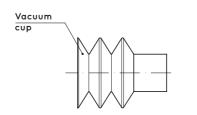
Item	Force Kg	С	d Ø	D Ø	E	F Ø	L	For vacuum cup item	Weight g
20 30 32	1.76	7.5	10	30	32	M12 x 1.25	120	01 30 32	79.6
20 40 42	3.14	7.5	10	40	42	M12 x 1.25	130	01 40 42	85.6
20 43 28	3.62	7.5	10	43	28	M12 x 1.25	116	01 43 28	83.0

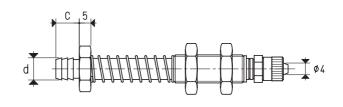
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L or T fittings, add the letter L or T to the code.



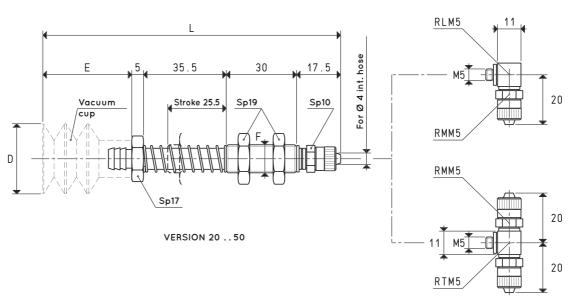
MINI VACUUM CUP HOLDERS FOR BELLOWS CUPS







VERSION 20 .. 50 L



VERSION 20 . . 50 T

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

Item	Force Kg	С	d Ø	D Ø	E	F Ø	L	For vacuum cup item	Weight g
20 30 50	1.76	10	9.5	30	38	M12 x 1.25	126	01 30 50	81.6
20 40 50	3.14	10	9.5	40	23	M12 x 1.25	111	01 40 50	78.6

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

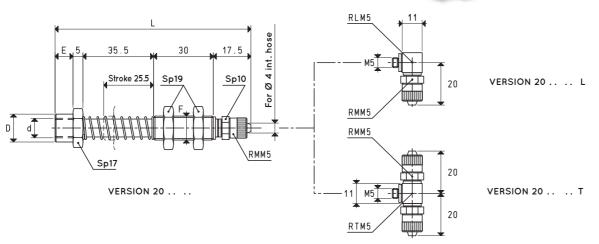
To order vacuum cup holders with L or T fittings, add the letter L or T to the code.

MINI VACUUM CUP HOLDERS WITH MALE AND FEMALE THREADED CONNECTORS



The cup holders described on these pages share the same features as the previously described ones, but differ for their brass stem, which has 1/8" and ¼" gas threaded female connection, for the exclusive installation of cups with male threaded support and for the vacuum connection, which can either be radial or axial, upon request.

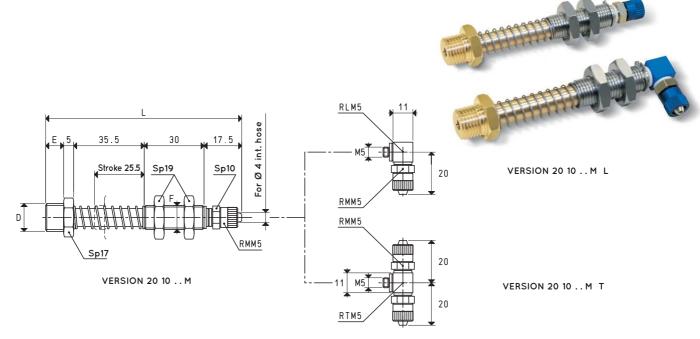




VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 4 X 6

ltem	d Ø	D Ø	E	F Ø	L	Weight g
20 06 35	M5	7.0	3.5	M12 x 1.25	91.5	74
20 07 35	M8	12.0	9	M12 x 1.25	97	76
20 10 38	G1/8"	14.0	9	M12 x 1.25	97	78
20 10 48	G1/4"	16.5	9	M12 x 1.25	97	78

Note: To order vacuum cup holders with L or T fittings, add the letter L or T to the code.



VACUUM CUP HOLDERS WITH STRAIGHT OUICK COUPLER FOR PLASTIC HOSE Ø 4 X 6

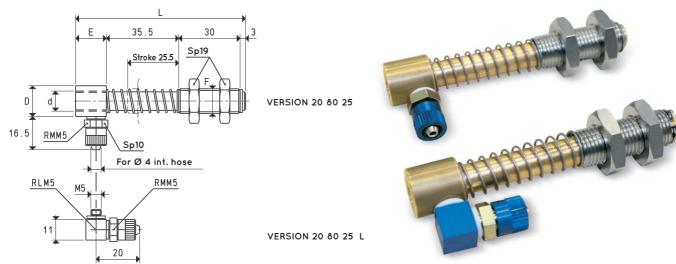
Item	D Ø	E	F Ø	L	Weight g
20 10 38 M	G1/8"	8	M12 x 1.25	96	78
20 10 48 M	G1/4"	10	M12 x 1.25	98	76

Note: To order vacuum cup holders with L or T fittings, add the letter L or T to the code.

inch = $\frac{\text{mm}}{25.4}$; pounds = $\frac{\text{g}}{453.6}$ = $\frac{\text{Kg}}{0.4536}$



MINI VACUUM CUP HOLDERS WITH MALE AND FEMALE THREADED CONNECTORS



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

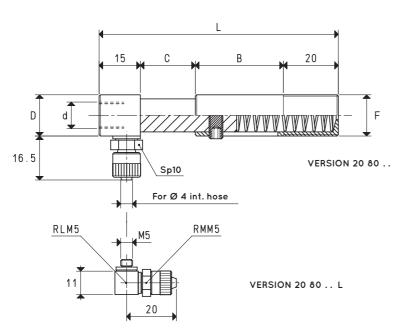
Item	d Ø	D Ø	E	F Ø	L	Weight g
20 80 25	G1/8"	15	15	M12 x 1.25	83.5	82

Note: To order vacuum cup holders with L fittings, add the letter L to the code.

MINI VACUUM CUP HOLDERS WITH BUILT-IN SPRING

For a further bulk and weight reduction, as well as to meet the requirements of discharge automations for plastic moulding press manufacturers, these cup holders are made with a built-in spring and an anodised aluminium cup fixing stem. Also these cup holders allow for the installation of cups with male threaded support only. The particular shape of the brass drive bush for fastening the cup holder to the automation prevents any rotation of the stem and, therefore, of the cup.

The vacuum connection is radial.





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

ltem	В	C stroke	d Ø	D Ø	F Ø	L	Weight g
20 80 15	22	15	G1/8"	15	M10 x 0.75	72	26
20 80 20	32	20	G1/8"	15	M15 x 1.00	87	42

Note: To order chrome-plated iron, add the letters FC to the item.

To order vacuum cup holders with L fittings, add the letter L to the code.

MINI VACUUM CUP HOLDERS WITH COMPACT STROKE

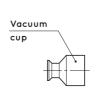


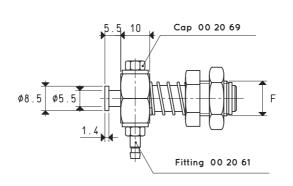
The shorter stroke and their particular shape allow for further bulk and weight reduction of these cup holders, with respect to the previous mini vacuum cup holders.

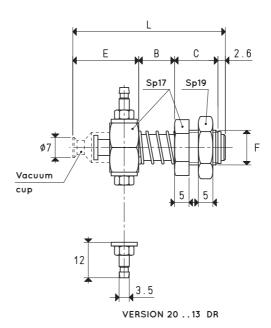
The components are practically the same, only the vacuum fittings are different, since in these cup holders they are a radial standard hose-end fitting or two fittings, upon request. They are particularly suited for small cups to be manually assembled with diameters ranging between 10 and 30 mm.



VERSION 20 07 13







VACUUM CUP HOLDERS WITH STRAIGHT COUPLER FOR PLASTIC HOSE

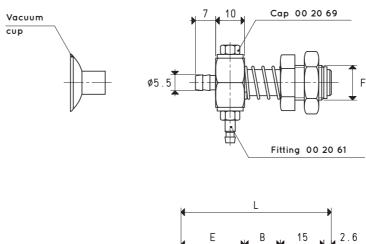
Item	Force Kg	B stroke	С	E	F Ø	L	For vacuum cup item	Weight g
20 07 13	0.09	12.4	15	23	M12 x 1.25	53	01 07 13	56.6

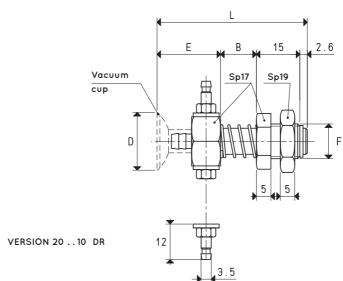
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cups with 2 fittings item 00 20 61 fittings, add the letters DR to code.

MINI VACUUM CUP HOLDERS WITH COMPACT STROKE



VERSION 20..10





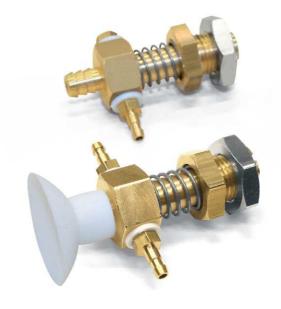
VACUUM CUP HOLDERS WITH STRAIGHT COUPLER FOR PLASTIC HOSE

Item	Force Kg	B stroke	D ∅	E	F Ø	L	For vacuum cup item	Weight g
20 10 10	0.19	12.4	10	21	M12 x 1.25	51	01 10 10	56.0
20 12 10	0.28	12.4	12	21	M12 x 1.25	51	01 12 10	56.6
20 15 10	0.44	12.4	15	22	M12 x 1.25	52	01 15 10	56.7
20 18 10	0.63	12.4	18	22	M12 x 1.25	52	01 18 10	56.7
20 20 10	0.78	12.4	20	22	M12 x 1.25	52	01 20 10	56.8
20 22 10	0.95	12.4	22	23	M12 x 1.25	53	01 22 10	57.2

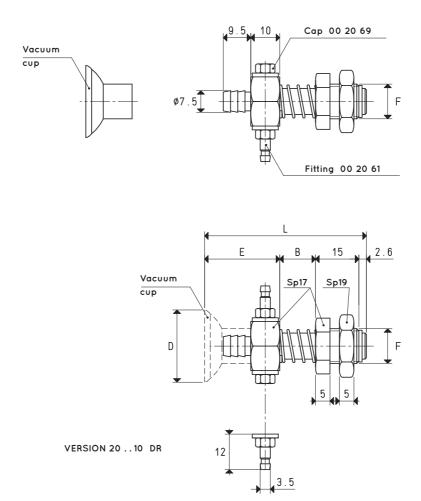
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.

To order vacuum cups with 2 fittings item 00 20 61 fittings, add the letters DR to code.





VERSION 20..10



Item	Force Kg	B stroke	D Ø	E	F Ø	L	For vacuum cup item	Weight g
20 25 10	1.23	12.4	25	26	M12 x 1.25	56	01 25 15	58.0
20 30 10	1.76	12.4	30	26	M12 x 1.25	56	01 30 15	58.7

Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cups with 2 fittings item 00 20 61 fittings, add the letters DR to code.



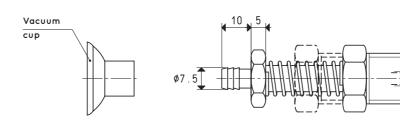
MINI VACUUM CUP HOLDERS WITH BUILT-IN BUSH

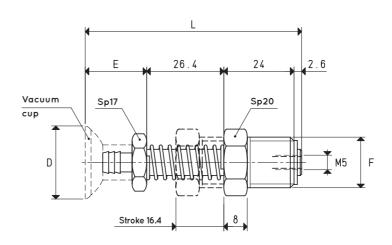
The reduced size and the particular shape of these cup holders allow them to be directly assembled to the vacuum manifold, saving time and eliminating pipes and fittings.

The hexagonal threaded bush for cup holder assembly with the vacuum manifold is equipped with a seal and has the task of driving and holding the brass stem for fixing the vacuum cup.



VERSION 20 . . 11





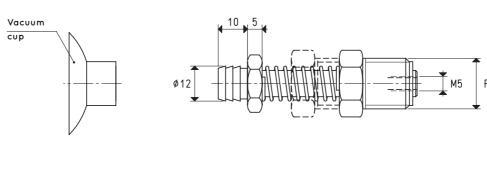
Item	Force Kg	D Ø	E	F Ø	L	For vacuum cup item	Weight g
20 25 11	1.23	25	21	G3/8"	74	01 25 15	70.0
20 30 11	1.76	30	22	G3/8"	75	01 30 15	70.7

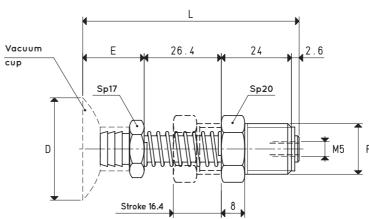
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.





VERSION 20 . . 11



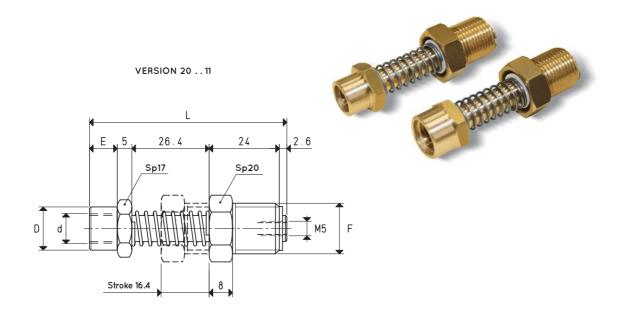


ltem	Force Kg	D Ø	E	F Ø	L	For vacuum cup item	Weight g
20 35 11	2.40	35	21	G3/8"	74	01 35 15	76.6
20 40 11	3.14	40	23	G3/8"	76	01 40 15	77.1
20 45 11	3.98	45	28	G3/8"	81	01 45 15	80.6

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

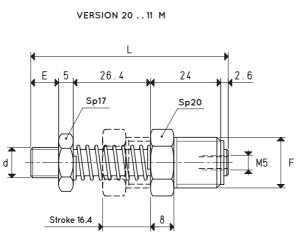


VACUUM CUP HOLDERS WITH BUILT-IN BUSH, WITH FEMALE THREADED CONNECTOR



Item	d Ø	D Ø	E	F Ø	L	Weight g
20 08 11	G1/8"	14.0	9	G3/8"	67	74
20 10 11	G1/4"	16.5	9	G3/8"	67	73

VACUUM CUP HOLDERS WITH BUILT-IN BUSH, WITH MALE THREADED CONNECTOR





ltem	d Ø	E	F Ø	L	Weight g
20 08 11 M	G1/8"	8	G3/8"	66	75
20 10 11 M	G1/4"	10	G3/8"	68	74

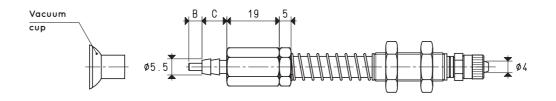
MINI VACUUM CUP HOLDERS WITH PLUNGER VALVE

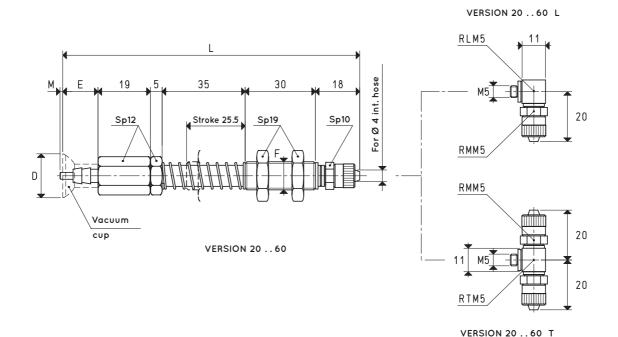


They share the same mechanical features at the other mini vacuum cup holders.

Their distinctive feature is the plunger valve solidly connected to a conical spear valve, which activates suction, and therefore creates vacuum, only when the cup comes into contact with the load to be lifted.







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

Item	Force Kg	В	С	D Ø	E	F Ø	L	M	For vacuum cup item	Weight g
20 12 60	0.28	4.5	8.5	12	11	M12 x 1.25	118	2	01 12 10	78.6
20 15 60	0.44	4.5	8.5	12	12	M12 x 1.25	119	1	01 15 10	78.7
20 18 60	0.63	4.5	8.5	12	12	M12 x 1.25	119	1	01 18 10	78.7

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

To order vacuum cup holders with L or T fittings, add the letter L or T to the code.

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.

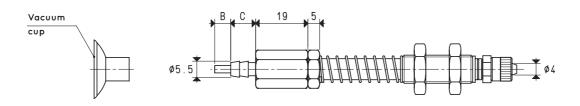
Transformation ratio: N (newton) = Kg x 9.81 (force of gravity)

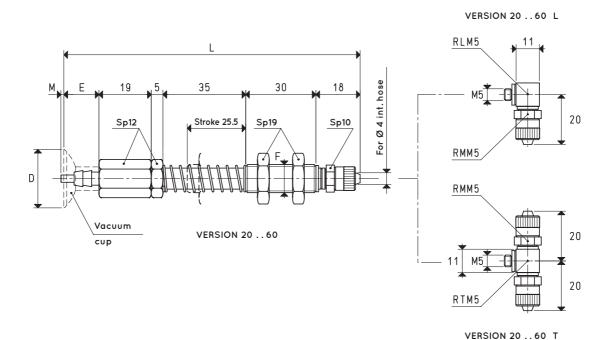
inch = $\frac{\text{mm}}{25.4}$; pounds = $\frac{\text{g}}{453.6}$ = $\frac{\text{Kg}}{0.4536}$



MINI VACUUM CUP HOLDERS WITH PLUNGER VALVE







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

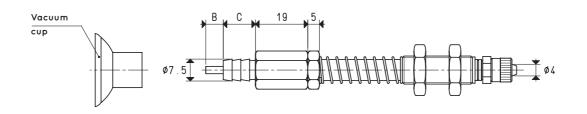
Item	Force Kg	В	С	D Ø	E	F Ø	L	М	For vacuum cup item	Weight g
20 20 60	0.78	5.5	8.5	20	12	M12 x 1.25	119	2	01 20 10	80.8
20 22 60	0.95	5.5	8.5	22	13	M12 x 1.25	120	1	01 22 10	81.2

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

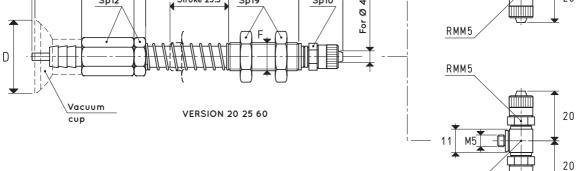
To order vacuum cup holders with L or T fittings, add the letter L or T to the code.







1 E 19 5 35 30 18 8 9 19 Sp10 Sp10 Sp10 RMM5



VERSION 20 25 60 T

RTM5

VERSION 20 25 60 L

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

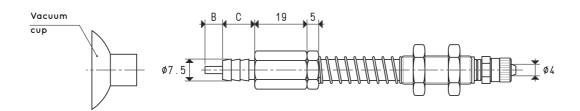
Item	Force Kg	В	С	D Ø	E	F Ø	L	For vacuum cup item	Weight g
20 25 60	1.23	6	11	25	16	M12 x 1.25	123	01 25 15	84

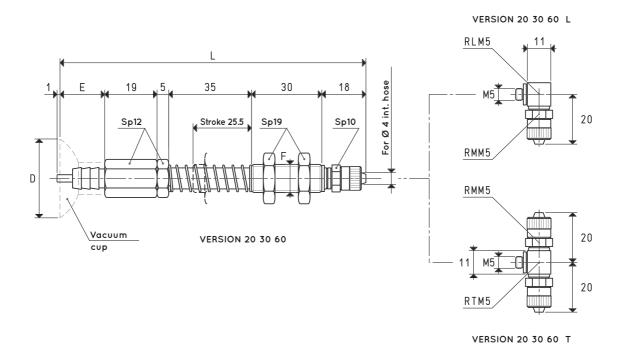
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L or T fittings, add the letter L or T to the code.



MINI VACUUM CUP HOLDERS WITH PLUNGER VALVE







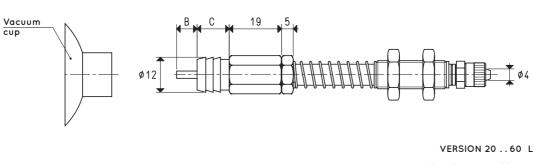
VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 4 X 6

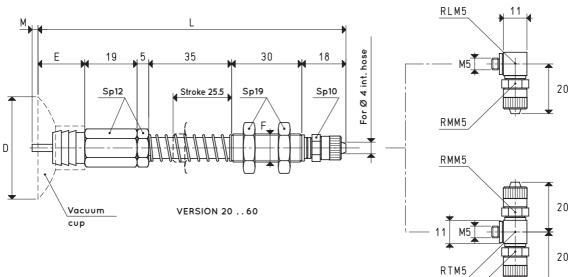
Item	Force Kg	В	С	D Ø	E	F Ø	L	For vacuum cup item	Weight g
20 30 60	1.76	7	11	30	17	M12 x 1.25	124	01 30 15	86.7

Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L or T fittings, add the letter L or T to the code.









Item	Force Kg	В	С	D Ø	E	F Ø	L	М	For vacuum cup item	Weight g
20 35 60	2.40	7	11	35	16	M12 x 1.25	123	2	01 35 15	90.6
20 40 60	3.14	7	11	40	18	M12 x 1.25	125		01 40 15	91.1

RMM5

VERSION 20 . . 60 T

Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L or T fittings, add the letter L or T to the code.

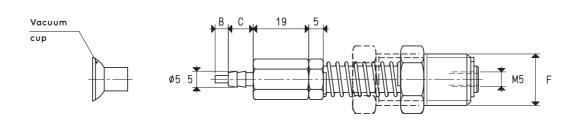


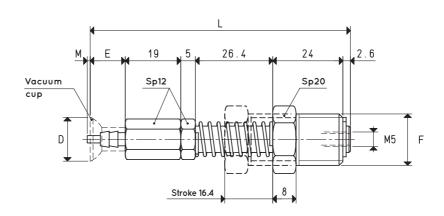
MINI VACUUM CUP HOLDERS WITH PLUNGER VALVE AND BUILT-IN BUSH

The technical and mechanical features are the same as for the mini vacuum cup holders with plunger valve described on the previous pages. Their distinctive feature is their threaded hexagonal bush, which allows them to be directly assembled to the vacuum manifold, thus saving time and eliminating pipes and fittings.



VERSION 20..65

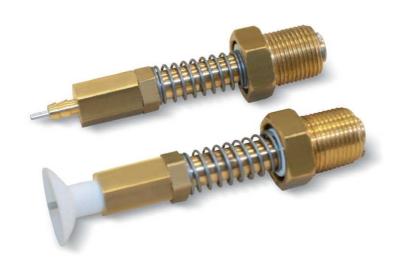




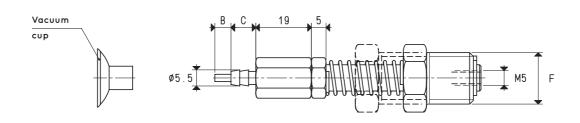
Item	Force Kg	В	С	D Ø	E	F Ø	L	М	For vacuum cup item	Weight g
20 12 65	0.28	4.5	8.5	12	11	G3/8"	88	2	01 12 10	76.6
20 15 65	0.44	4.5	8.5	15	12	G3/8"	88	1	01 15 10	76.7
20 18 65	0.63	4.5	8.5	18	12	G3/8"	88	1	01 18 10	76.7

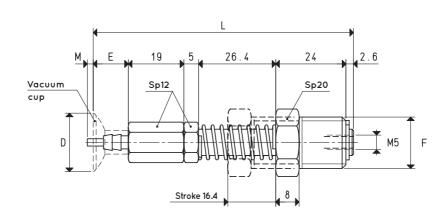
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.





VERSION 20..65





Item	Force Kg	В	С	D Ø	E	F Ø	L	M	For vacuum cup item	Weight g
20 20 65	0.78	5.5	8.5	20	12	G3/8"	89	2	01 20 10	76.8
20 22 65	0.95	5.5	8.5	22	13	G3/8"	90	1	01 22 10	77.2

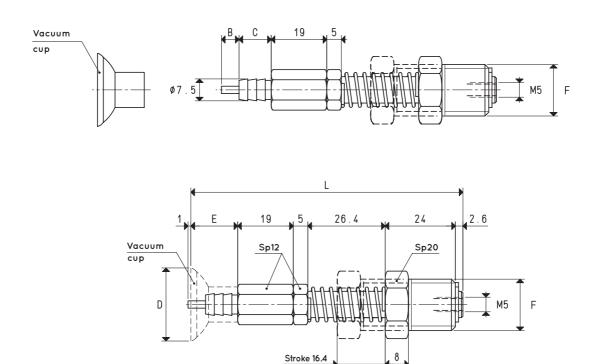
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.



MINI VACUUM CUP HOLDERS WITH PLUNGER VALVE AND BUILT-IN BUSH



VERSION 20 25 65



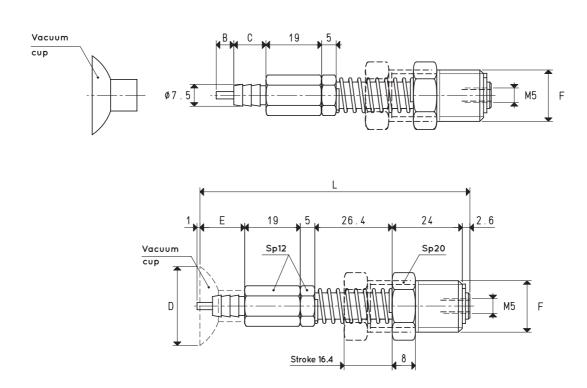
Item	Force Kg	В	С	D Ø	E	F Ø	L	For vacuum cup item	Weight g
20 25 65	1.23	6	11	25	16	G3/8"	93	01 25 15	80

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





VERSION 20 30 65



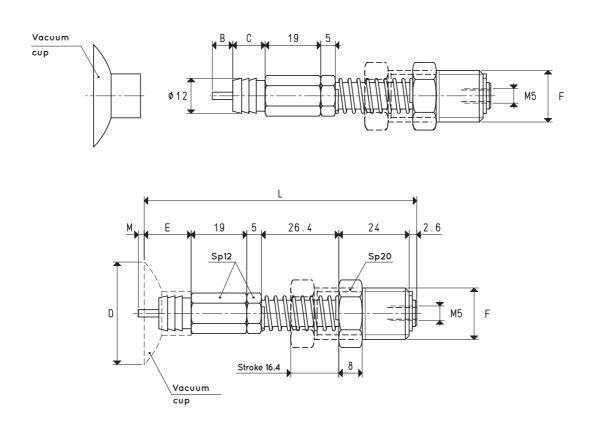
Item	Force Kg	В	С	D Ø	E	F Ø	L	For vacuum cup item	Weight g
20 30 65	1.76	7	11	30	17	G3/8"	94	01 30 15	82.7

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

MINI VACUUM CUP HOLDERS WITH PLUNGER VALVE AND BUILT-IN BUSH



VERSION 20 .. 65



ltem	Force Kg	В	С	D Ø	E	F Ø	L	М	For vacuum cup item	Weight g
20 35 65	2.40	7	11	35	16	G3/8"	93	2	01 35 15	82.6
20 40 65	3.14	7	11	40	18	G3/8"	95		01 40 15	83.1

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

MINI VACUUM CUP HOLDERS WITH NO SPRINGING

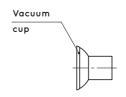


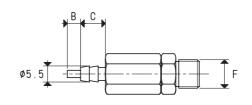
They have the same function as the mini vacuum cup holders with plunger valve but, for further bulk reduction, the cushioning spring, the threaded pipe with nuts for fixing to the automation and the quick coupler have been removed. This type of cup holder is to be directly assembled to the vacuum manifold.

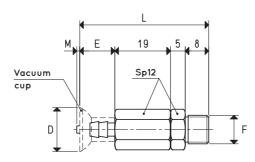
To allow quick assembly, its end is provided with a threaded male shank.



VERSION 20 . . 61







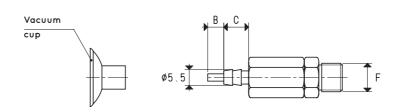
Item	Force Kg	В	С	D Ø	E	F Ø	L	М	For vacuum cup item	Weight g
20 12 61	0.28	4.5	8.5	12	11	G1/8"	43	2	01 12 10	24.6
20 15 61	0.44	4.5	8.5	15	12	G1/8"	44	1	01 15 10	24.7
20 18 61	0.63	4.5	8.5	18	12	G1/8"	44	1	01 18 10	24.7

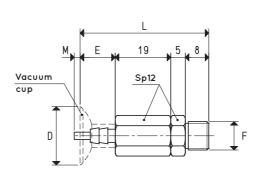
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.

MINI VACUUM CUP HOLDERS WITH NO SPRINGING



VERSION 20 .. 61





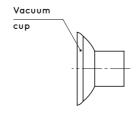
Item	Force Kg	В	С	D Ø	E	F Ø	L	М	For vacuum cup item	Weight g
20 20 61	0.78	5.5	8.5	20	12	G1/8"	44	2	01 20 10	26.8
20 22 61	0.95	5.5	8.5	22	13	G1/8"	45	1	01 22 10	27.2

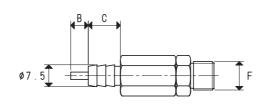
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.

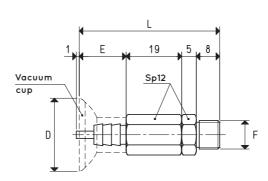




VERSION 20 25 61







Item	Force Kg	В	С	D Ø	E	F Ø	L	For vacuum cup item	Weight g
20 25 61	1.23	6	11	25	16	G1/8"	48	01 25 15	26

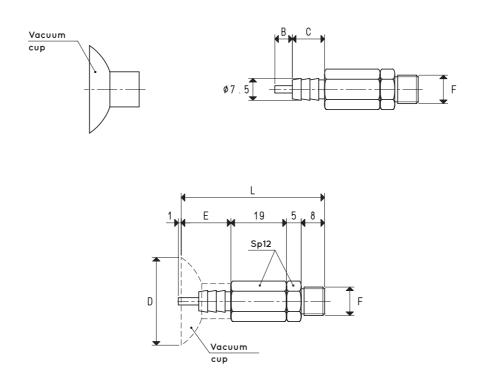
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.



MINI VACUUM CUP HOLDERS WITH NO SPRINGING



VERSION 20 30 61



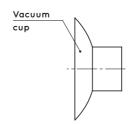
Item	Force Kg	В	С	D Ø	E	F Ø	L	For vacuum cup item	Weight g
20 30 61	1.76	7	11	30	17	G1/8"	49	01 30 15	28.6

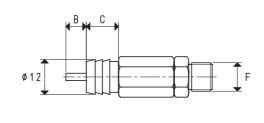
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.

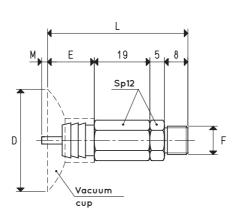




VERSION 20 .. 61







Item	Force Kg	В	С	D Ø	E	F Ø	L	М	For vacuum cup item	Weight Kg
20 35 61 20 40 61	2.40 3.14	7	11	35 40	16 18	G1/8" G1/8"	48 50	2	01 35 15 01 40 15	34.6 35.1

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



MINI VACUUM CUP HOLDERS WITH BUILT-IN SHUT-OFF VALVE

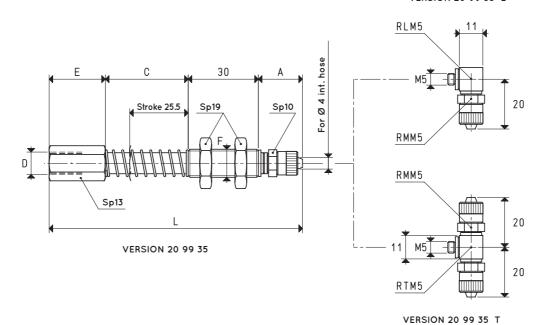
In addition to having all the other features of the mini vacuum cup holders, these also have a built-in shut-off valve. The function of the shut-off valve is to automatically close suction when the cup is not in contact with the surface of the load to be handled or in case of a faulty grip or of considerable transpiration, thus preventing the reduction of the level of vacuum on the remaining cups of the system that are regularly gripping a load.

The advantage of this is that the placement or the exclusion of the non-gripping cups is no longer binding.

Vacuum cups with a minimum diameter of 10 mm and maximum diameter of 50 mm can be assembled on these cup holders, provided they have a 1/8 "male threaded gas support.



VERSION 20 99 35 L



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

Item	Α	С	D Ø	E	F Ø	L	Weight g
20 99 35	17.5	35.5	G1/8"	24	M12 x 1.25	107	84

Minimum trigger flow = 1.5 m³/h

Minimum a level of vacuum = -250 mbar

MINI ANTI-ROTATION VACUUM CUP HOLDERS



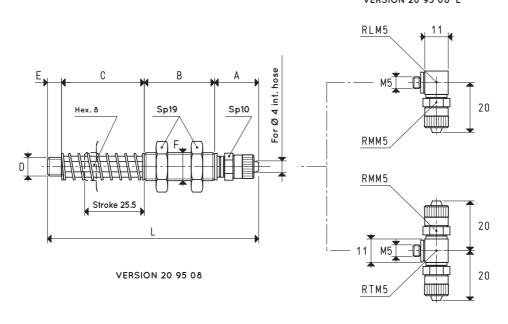
The technical features are the same as for the mini vacuum cup holders, with their distinctive features being their brass stem with hexagonal section and the steel drive bush with hexagonal hole. This prevents the stem from rotating on its axis, and, as a result, also the cup and its support from rotating.

They are suited for cups with male or female support with diameters ranging from 10 mm to 60 mm, but they have been specially designed for the installation of rectangular, concave and elliptical cups.



VERSION 20 95 08 L

VERSION 20 95 08 T



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

Item	A	В	С	D Ø	E	F Ø	L	Weight g
20 95 08	17.5	30	35.5	M8	6	M12 x 1.25	89	58



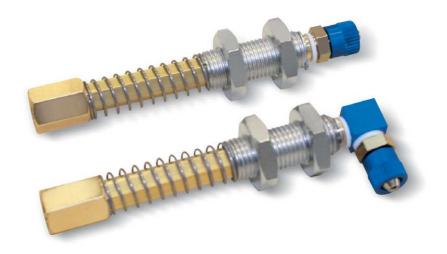


VERSION 20 95 28 L RLM5 For Ø 4 int. hose С 20 Sp19 Sp10 Hex.8 RMM5 RMM5 Sp12 Stroke 25.5 20 VERSION 20 95 28 20 RTM5 VERSION 20 95 28 T

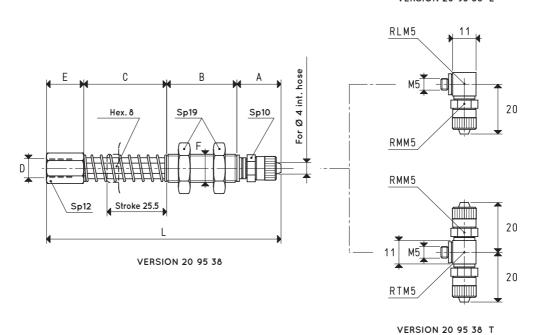
VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 4 X 6

Item	A	В	С	D Ø	E	F Ø	G	L	Weight g
20 95 28	17.5	30	35.5	G1/8"	8	M12 x 1.25	5	96	60





VERSION 20 95 38 L



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

ltem	A	В	С	D Ø	E	F Ø	L	Weight g
20 95 38	17.5	30	35.5	G1/8"	16	M12 x 1.25	99	68



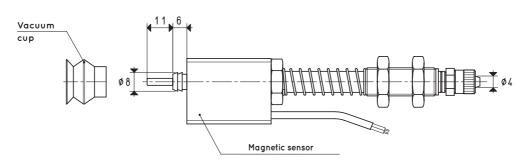
MINI VACUUM CUP HOLDERS WITH MAGNETIC SENSOR

These cup holders share the same technical features at the other mini vacuum cup holders.

They are equipped with a magnetic sensor built into the cup holders to provide an electric signal to the machine every time the vacuum cup performs gripping.

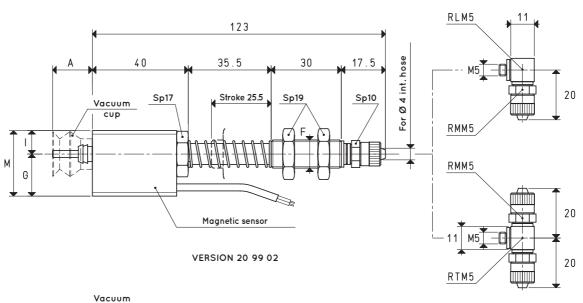
This is the reason why they are recommended to be used on piece counter handlers, boxing machines and in all those cases in which the presence of the gripped object is to be guaranteed. These cup holders have been designed for gripping chocolate, snacks, croissants and similar products and they are currently made in the version represented on this page. They can however be made with different vacuum cups upon request.

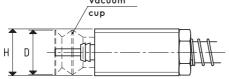




VERSION 20 99 02 L

VERSION 20 99 02 T





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

Item	Force Kg	A	D Ø	F Ø	G	Н	1	М	For vacuum cup item	Weight g
20 99 02	0.70	17	19	M12 x 1.25	18	20	10	28	01 19 17	163.3
20 99 03	1.23 1.76	16 17	25 35	M12 x 1.25 M12 x 1.25	18 18	20 20	10 10	28 28	01 25 15 01 30 15	161.3 162.0

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

To order vacuum cup holders with L or T fittings, add the letter L or T to the code.

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.

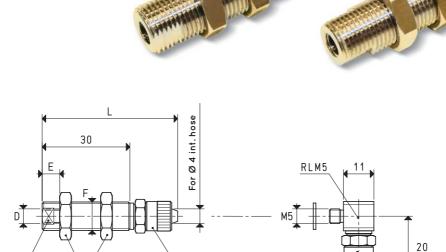
Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6}$ = $\frac{Kg}{0.4536}$

3D drawings are available on vuototecnica.net

MINI VACUUM CUP HOLDERS FIX







VERSION 20 70 01

VERSION 20 70 01 L

RMM5

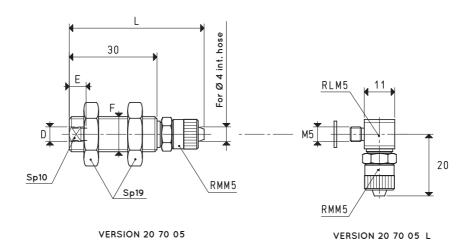
VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 4 X 6

Item	D ∅	E	F Ø	L	Weight g
20 70 01	M5	6	G1/8"	46	19

RMM5

Note: To order vacuum cup holders with L fittings, add the letter L to the code.

Sp8



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

Item	D Ø	E	F Ø	L	Weight g
20 70 05	M5	6	M12 x 1.25	46	45

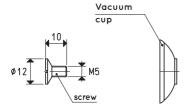


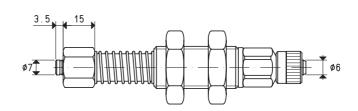
These cup holders are built in a simple and rational way, guaranteeing maximum sturdiness and duration. They are composed of:

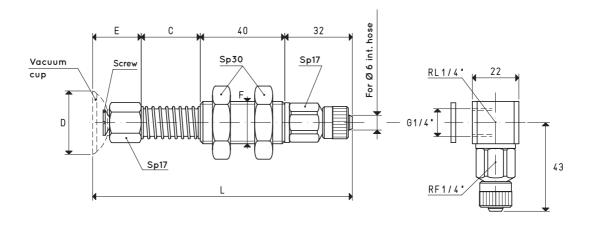
- A brass stem for fastening the cup
- A steel threaded sleeve equipped with two hexagonal nuts for a quick assembly of the cup to the automation
- A spring to cushion the impact of the cup and to, at the same time, keep pressure pressure with the load to be lifted
- A quick coupling for connection to the suction hose The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm









VERSION 02 .. 10

VERSION 02 .. 10 L

VACUUM CUP HOLDERS WITH STRAIGHT OUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8

VACUUM CUP I	VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8													
Item	Item Force *C D E F L For vacuum cup Screw included Weight Kg Ø Ø item item g													
02 25 10	1.23	28	25	23	M20	123	01 25 10	00 20 12	213.2	253.2	280.2			
02 30 10 02 35 10	1.76 2.40	28 28	30 35	23 23	M20 M20	123 123	01 30 10 01 35 10	00 20 12 00 20 12	213.9 214.4	253.9 254.4	280.9 281.4			

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

To order vacuum cup holders with L fittings, add the letter L to the code.

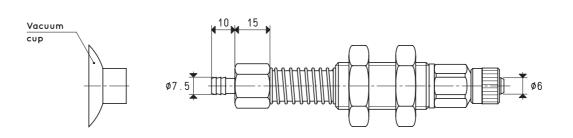
Note: The force of the vacuum cups indicated in the table represents 1/3 of the value of the theoretical force calculated at a level of vacuum of -75 KPa and a factor of safety 3. inch = $\frac{\text{mm}}{25.4}$; pounds = $\frac{\text{g}}{453.6}$ = $\frac{\text{Kg}}{0.4536}$ Transformation ratio: N (newton) = Kg x 9.81 (force of gravity)

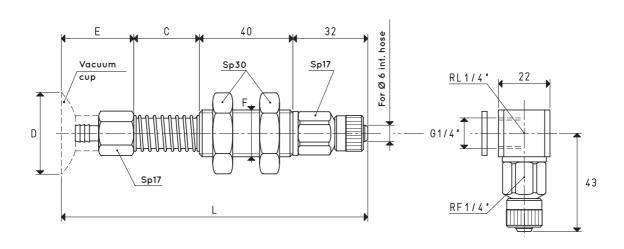
^{*} Also available with height C of 65 mm and 95 mm

The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm - For height C= 95 mm 49 mm 74 mm







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

VERSION 02 .. 15

C = 65 mm	C = 95 mm
Weight	Weight
П	Π

VERSION 02 .. 15 L

Item	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Weight g	Weight g	Weight g
02 25 15	1.23	28	25	31	M20	131	01 25 15	216.0	270.0	287.0
02 30 15	1.76	28	30	32	M20	132	01 30 15	216.7	270.7	287.7

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

To order vacuum cup holders with L fittings, add the letter L to the code.

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

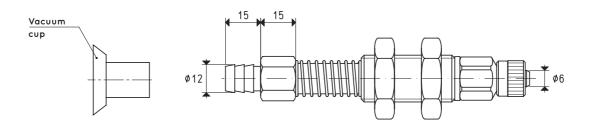
^{*} Also available with height C of 65 mm and 95 mm

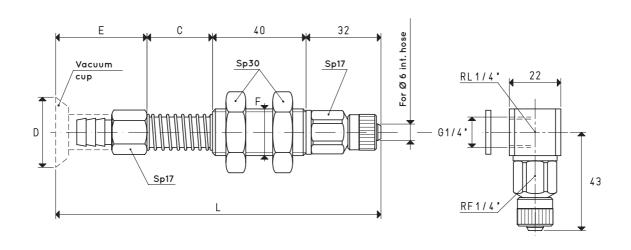


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm - For height C= 95 mm 49 mm 74 mm







VERSION 02 .. 24

VACUUM CUP I	VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8												
Item	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Weight g	Weight g	Weight g			
02 27 24 02 30 24	1.43 1.76	28 28	27 30	39 39	M20 M20	139 139	01 27 24 01 30 24	216.8 216.9	228.8 228.9	287.8 287.9			

VERSION 02 .. 24 L

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

To order vacuum cup holders with L fittings, add the letter L to the code.

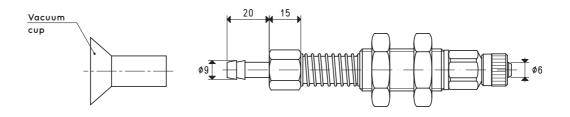
^{*} Also available with height C of 65 mm and 95 mm

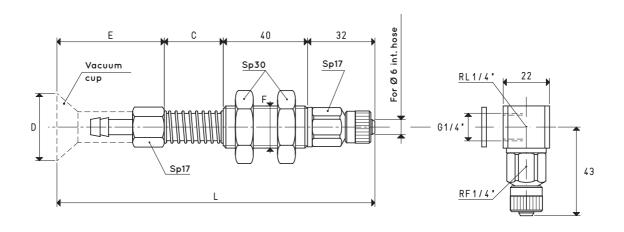


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm - For height C= 95 mm 49 mm







VERSION 02 32 36

VERSION 02 32 36 L

VACUUM CUP HOLDERS WITH STRAIGHT OUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8

VACUUM CUP I	VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8										
ltem	Item Force *C D E F L For vacuum cup Weight item										
02 32 36	2.00	28	32	51	M20	151	01 32 36	221.1	269.1	289.1	

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

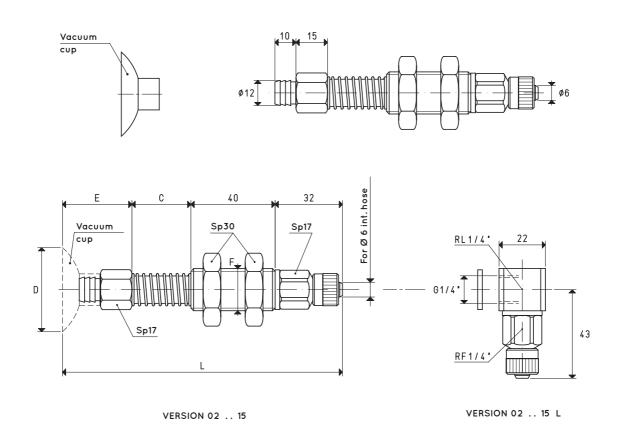
^{*} Also available with height C of 65 mm and 95 mm



The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm - For height C= 95 mm 49 mm 74 mm





VACUUM CUP I	VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8												
Item	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Weight g	Weight g	Weight g			
02 35 15 02 40 15	2.40 3.14	28 28	35 40	31 33	M20 M20	131 133	01 35 15 01 40 15	218.6 219.1	266.6 267.1	293.6 294.1			

Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L fittings, add the letter L to the code.

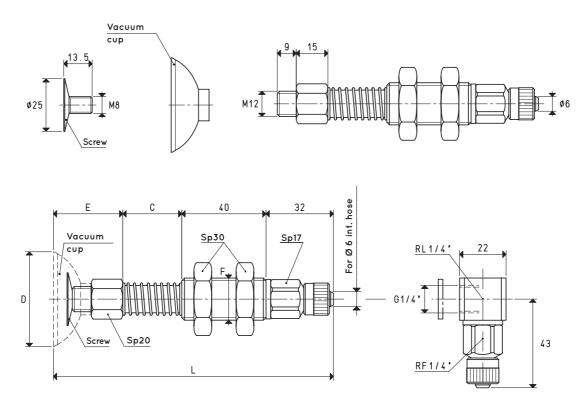
^{*} Also available with height C of 65 mm and 95 mm



The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm - For height C= 95 mm 49 mm 74 mm





VERSION 02 .. 10

VERSION 02 .. 10 L

VACUUM CUP I	VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8													
Item	Item Force *C D E F L For vacuum cup Screw included Weight Kg Ø Ø item item g													
02 45 10 02 60 10	3.98 7.06	28 28	45 60	33 37	M20 M20	133 137	01 45 10 01 60 10	00 20 13 00 20 13	222.7 230.9	270.7 278.9	336.7 344.9			

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

To order vacuum cup holders with L fittings, add the letter L to the code.

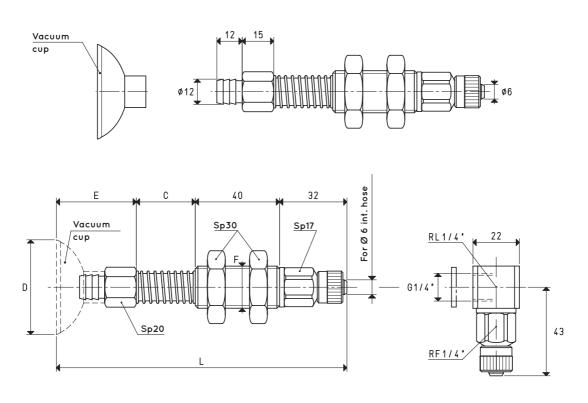
^{*} Also available with height C of 65 mm and 95 mm



The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm





VERSION 02 45 15

VERSION 02 45 15 L

VACUUM CUP I	VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8												
Item	Item Force *C D E F L For vacuum cup Weight Kg Ø Ø item g												
02 45 15	3.98	28	45	38	M20	138	01 45 15	222.6	272.6	295.6			

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

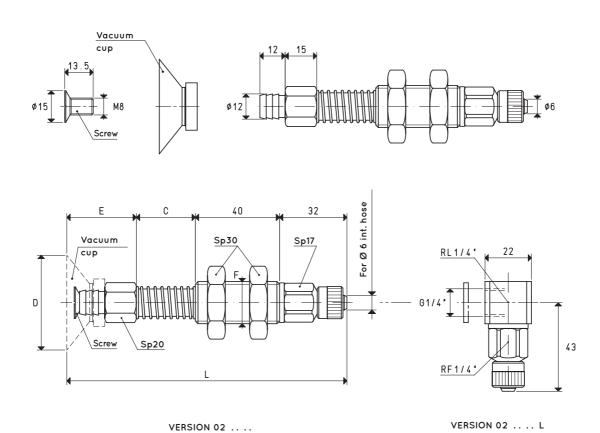
To order vacuum cup holders with L fittings, add the letter L to the code.

 $[\]ensuremath{^{\star}}$ Also available with height C of 65 mm and 95 mm



- For height C= 28 mm 16 mm - For height C= 65 mm - For height C= 95 mm 49 mm 74 mm





VACUUM CUP I	VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8												
Item	Item Force *C D E F L For vacuum cup Screw included item Weight item												
02 50 20 02 65 28	4.90 8.29	28 28	50 65	35 43	M20 M20	135 143	01 50 20 01 65 28	00 20 14 00 20 14	226.0 231.7	277.0 282.7	300.0 305.7		

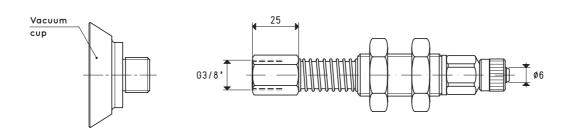
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L fittings, add the letter L to the code.

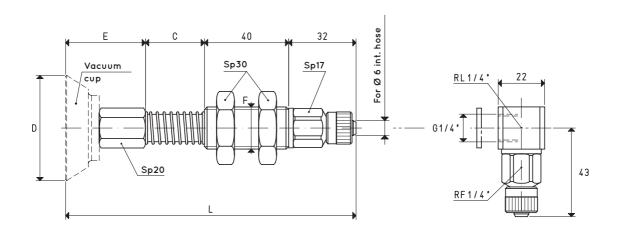
^{*} Also available with height C of 65 mm and 95 mm

The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm







VERSION 02 VERSION 02 L

C = 65 mm C = 95 mm VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8 *C D Ε For vacuum cup Weight Weight Weight **Force** Item Ø Kg Ø item g g 02 50 40 4.90 28 50 41.0 M20 141.0 08 50 40 258.5 288.5 320.5 02 75 40 277.9 11.04 28 75 50.0 M20 150.0 08 75 40 307.9 339.9 19.62 02 100 40 28 100 51.0 M20 151.0 08 100 40 298.3 328.3 360.3 02 100 50 19.62 28 100 55.5 M20 155.5 08 100 50 294.8 324.8 356.8

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

To order vacuum cup holders with L fittings, add the letter L to the code.

 $^{^{\}star}$ Also available with height C of 65 mm and 95 mm

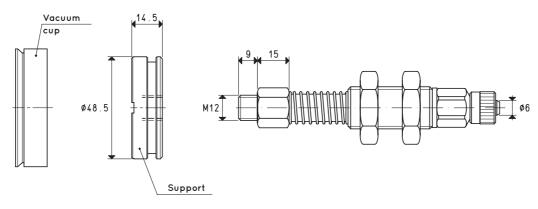


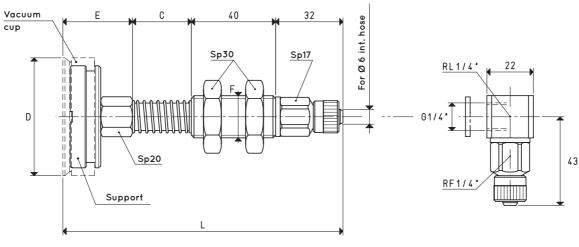
The actual springing stroke is:

- For height C= 28 mm - For height C= 65 mm - For height C= 95 mm

16 mm 49 mm 74 mm







VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE \emptyset 6 X 8

VERSION 02 56 15

C = 65 mm C = 95 mm

VERSION 02 56 15 L

Item	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Support included item	Weight g	Weight g	Weight g
02 56 15	6.15	28	56	34	M20	134	01 56 15	00 08 83	305.0	352.6	379.6

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

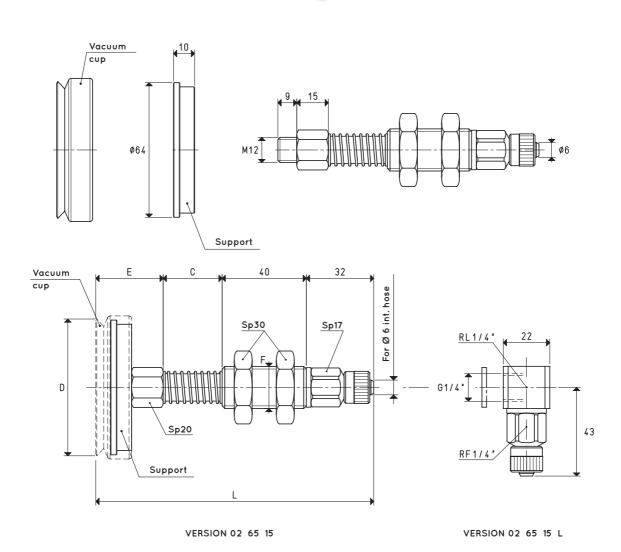
To order vacuum cup holders with L fittings, add the letter L to the code.

^{*} Also available with height C of 65 mm and 95 mm

The actual springing stroke is:

- For height C= 28 mm 16 mm 49 mm

- For height C= 65 mm - For height C= 95 mm 74 mm



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

C = 65 mm C = 95 mm

Item	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Support included item	Weight g	Weight g	Weight g
02 65 15	8.29	28	65	32	M20	132	01 65 15	00 08 32	346.1	384.4	410.4

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

To order vacuum cup holders with L fittings, add the letter L to the code.

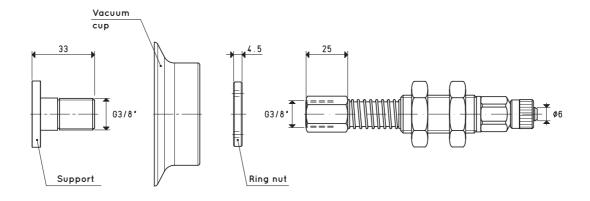
^{*} Also available with height C of 65 mm and 95 mm

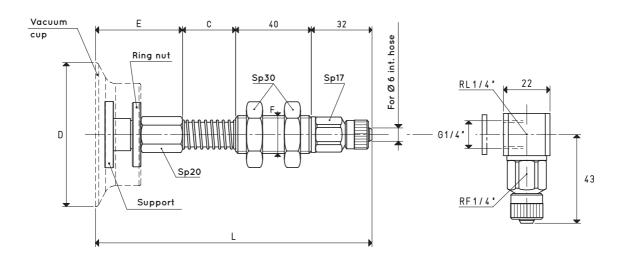


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm







VERSION 02 . . 24

VERSION 02 . . 24 L

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8 $\,$

C = 65 mm C = 95 mm

Item	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Support included item	Ring nut included item	Weight g	Weight g	Weight g
02 76 24	11.33	28	76	49	M20	149	01 76 24	00 08 110	00 08 111	298	338	361
02 90 24	15.89	28	90	49	M20	149	01 90 24	00 08 110	00 08 111	323	363	390
02 110 24	23.74	28	110	49	M20	149	01 110 24	00 08 110	00 08 111	373	413	439

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

To order vacuum cup holders with L fittings, add the letter L to the code.

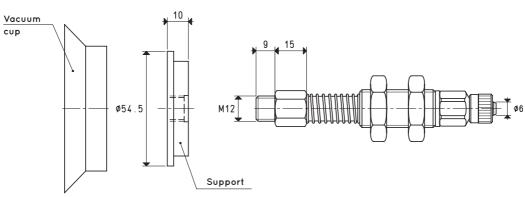
^{*} Also available with height C of 65 mm and 95 mm

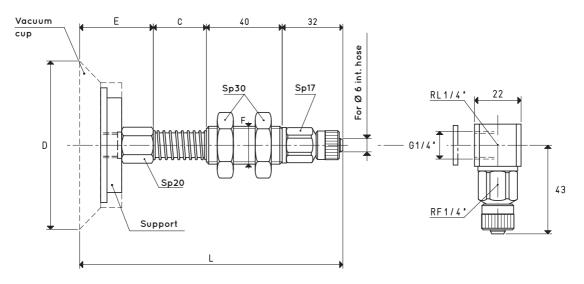


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm







VERSION 02 80 20

VERSION 02 80 20 L

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

C =	65	mm	С	=	95	mm
-----	----	----	---	---	----	----

Item	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Support included item	Weight g	Weight g	Weight g
02 80 20	12.56	28	80	35	M20	135	01 80 20	00 08 126	296.4	334.3	361.8

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

To order vacuum cup holders with L fittings, add the letter L to the code.

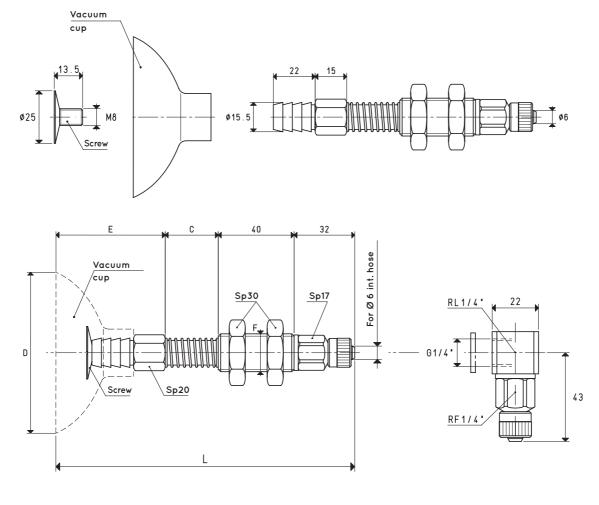
 $[\]mbox{*}$ Also available with height C of 65 mm and 95 mm



- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm







VERSION 02 85 10

VERSION 02 85 10 L

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

/eight	Weight	Weight
g	g	g
10.0	0.47.0	060.0

C = 65 mm C = 95 mm

Force *C For vacuum cup Screw included W Item Kg Ø Ø item item 02 85 10 14.18 28 85 56 M20 156 01 85 10 00 20 13 318.0 347.9 369.9

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

To order vacuum cup holders with L fittings, add the letter L to the code.

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

^{*} Also available with height C of 65 mm and 95 mm

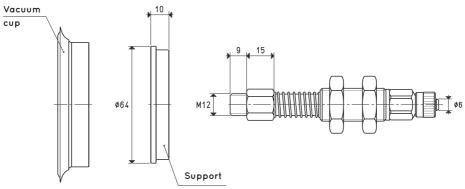


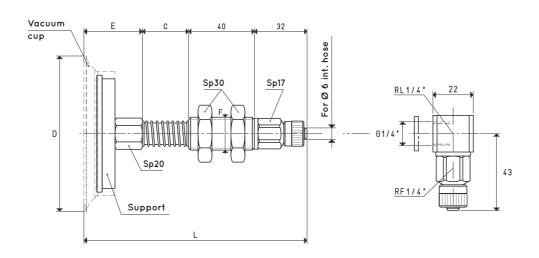
The actual springing stroke is:

- For height C= 28 mm 16 mm 49 mm









VERSION 02 85 15

VERSION 02 85 15 L

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

eight	Weight	Weight
g	g	g
004	071	000

C = 65 mm C = 95 mm

Item	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Support included item	Weight g	Weight g	Weight g
02 85 15	14.18	28	85	32	M20	132	01 85 15	00 08 32	334	371	399

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

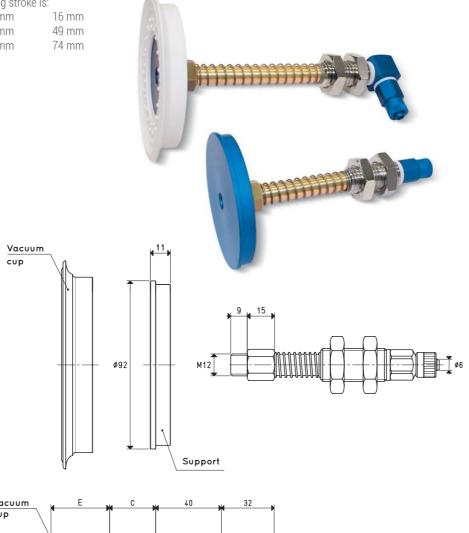
To order vacuum cup holders with L fittings, add the letter L to the code.

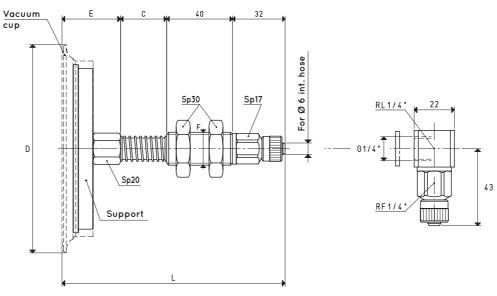
^{*} Also available with height C of 65 mm and 95 mm





- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm





VERSION 02 110 10

VERSION 02 110 10 L

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE \emptyset 6 X 8

C = 65 mm C = 95 mm

Item	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Support included item	Weight g	Weight g	Weight g
02 110 10	23.74	28	114	32	M20	132	01 110 10	00 08 33	456	494	521

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

To order vacuum cup holders with L fittings, add the letter L to the code.

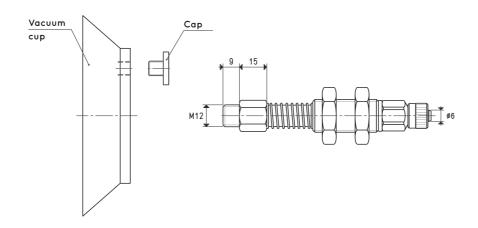
 $^{^{\}star}$ Also available with height C of 65 mm and 95 mm

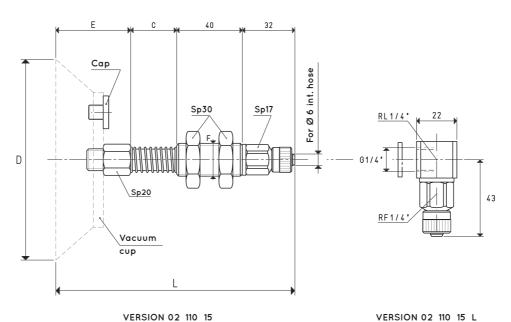
The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm - For height C= 95 mm 49 mm

74 mm







VACUUM CUP HOLDERS WITH STRAIGHT OUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8

C = 65 mm C = 95 mm

VACOUNT COT 1	TAGODITION TOLDERS WITH STRAIGHT QUICK COOL EEKT OKT EASTICHOSE & SAO												
Item	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Cap included item	Weight g	Weight g	Weight g		
02 110 15	23.74	28	110	41	M20	141	08 110 15	00 11 06	571	608	636		

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

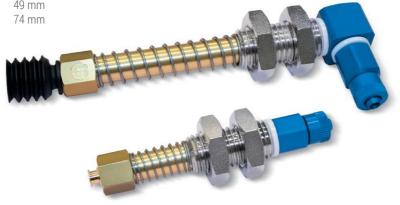
To order vacuum cup holders with L fittings, add the letter L to the code.

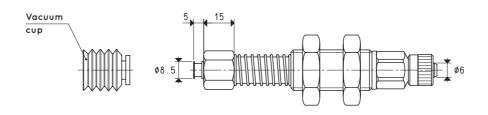
^{*} Also available with height C of 65 mm and 95 mm

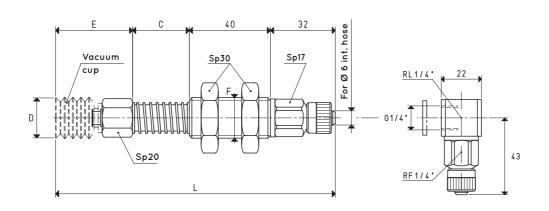


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm - For height C= 95 mm 49 mm 74 mm







VERSION 02 20 23

VERSION 02 20 23 L

VACUUM CUP I	HOLDERS W	ITH STRAIC	SHT QUICK	COUPLER	FOR PLASTI	C HOSE Ø	6 X 8		C = 65 mm	C = 95 mm
Item	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Weight g	Weight g	Weight g
02 20 23	0.78	28	20	38	M20	138	01 20 23	213.8	256.8	283.8

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

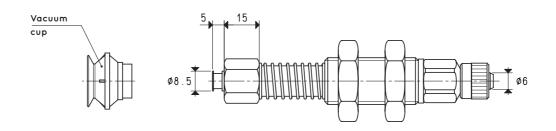
To order vacuum cup holders with L fittings, add the letter L to the code. * Also available with height C of 65 mm and 95 mm

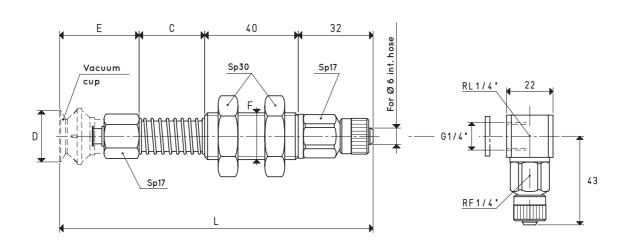


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm







VERSION 02 L

C = 65 mm C = 95 mm VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8 Force *C Ε For vacuum cup Weight Weight Weight Item item Kg g g g 0.95 M20 02 22 19 28 22 34 134 214.7 257.7 01 22 19 284.7 02 34 26 2.26 28 34 41 M20 141 01 34 26 217.7 260.7 287.7

Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L fittings, add the letter L to the code.

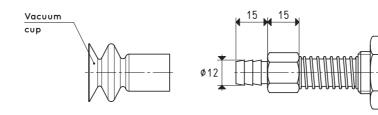
 $^{^{\}star}$ Also available with height C of 65 mm and 95 mm

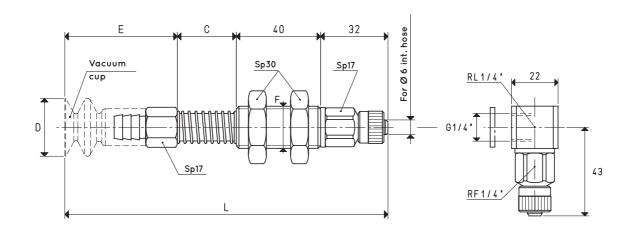


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm







VERSION 02 25 35

VERSION 02 25 35 L

C = 65 mm

C = 95 mm

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

Item	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Weight g	Weight g	Weight g
02 25 35	1.23	28	25	50	M20	150	01 25 35	219	231	290

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

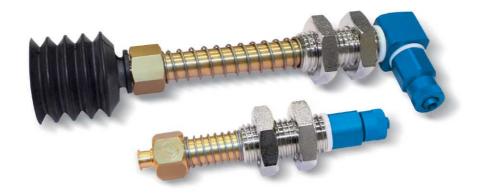
To order vacuum cup holders with L fittings, add the letter L to the code.

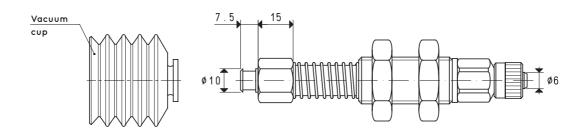
 $^{^{\}star}$ Also available with height C of 65 mm and 95 mm

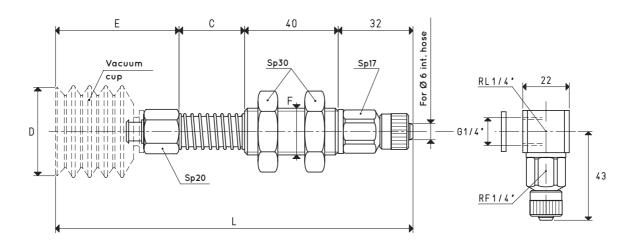


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm







VERSION 02 VERSION 02 L

C = 65 mm C = 95 mm VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8 Force *C Ε For vacuum cup Weight Weight Weight Item item Kg g g g M20 02 30 32 1.76 28 30 47 147 219.6 264.6 01 30 32 294.6 02 40 42 3.14 28 40 57 M20 157 01 40 42 215.6 270.6 300.6

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

To order vacuum cup holders with L fittings, add the letter L to the code.

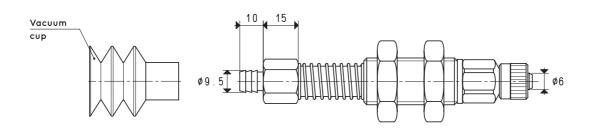
 $[\]mbox{*}$ Also available with height C of 65 mm and 95 mm

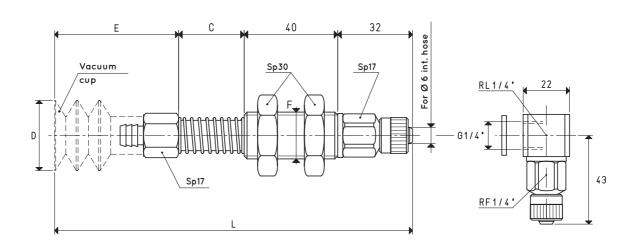


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm - For height C= 95 mm 49 mm







VERSION 02 30 ..

VERSION 02 30 .. L

VACUUM CUP HOLDERS WITH STRAIGHT OUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8

	VACUUM CUP I	C = 65 mm	C = 95 mm								
	Item	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Weight g	Weight g	Weight g
	02 30 50 02 30 99	1.76 1.76	28 28	30 30	53 53	M20 M20	153 153	01 30 50 01 30 99	221.6 222.2	258.6 259.2	285.6 286.2
_											

Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L fittings, add the letter L to the code.

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

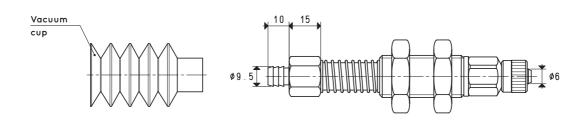
^{*} Also available with height C of 65 mm and 95 mm

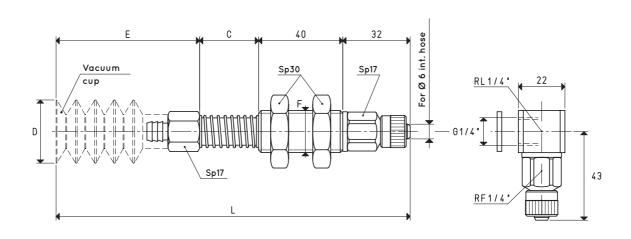


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm







VERSION 02 30 55

VERSION 02 30 55 L

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8 C = 65 mm C = 95 mm Force *C F For vacuum cup Weight Weight Weight Item Kg Ø Ø item g g g 02 30 55 1.76 28 30 70 M20 170 01 30 55 226.8 263.8 290.8

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

To order vacuum cup holders with L fittings, add the letter L to the code.

 $^{^{\}star}$ Also available with height C of 65 mm and 95 mm

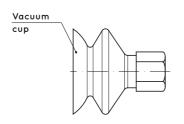


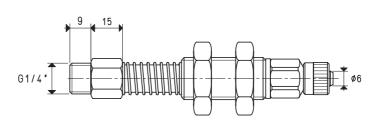
The actual springing stroke is:

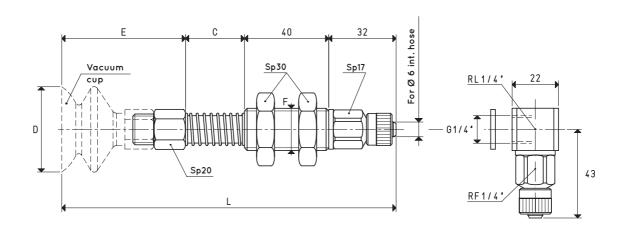
- For height C= 28 mm 16 mm - For height C= 65 mm - For height C= 95 mm 49 mm 74 mm











VERSION 02 .. 30

VERSION 02 .. 30 L

C = 05 mm

VACUUM CUP I	HOLDERS W	THSTRAIG	HI QUICK	COUPLER	FOR PLASTI	C HOSE Ø	06 X 8		C = 00 mm	C = 95 mm
Item	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Weight g	Weight g	Weight g
02 40 30	3.14	28	40	67	M20	167	08 40 30	256.4	296.4	325.4
02 50 30 02 60 30	4.90 7.06	28 28	50 60	69 71	M20 M20	169 171	08 50 30 08 60 30	264.9 277.6	304.9 317.6	333.9 346.6
02 85 30	14.18	28	85	82	M20	182	08 85 30	346.0	386.0	415.0

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

To order vacuum cup holders with L fittings, add the letter L to the code.

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

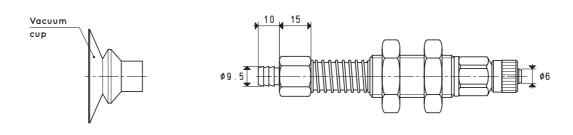
^{*} Also available with height C of 65 mm and 95 mm

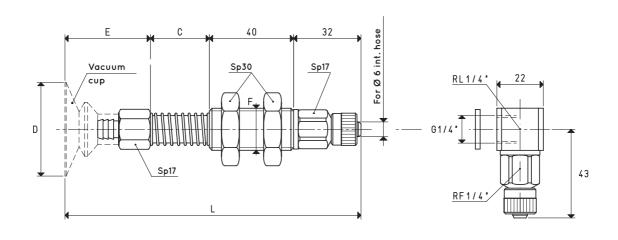


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm







VERSION 02 40 50

VERSION 02 40 50 L

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8 C = 65 mm C = 95 mm Force *C F For vacuum cup Weight Weight Weight Item Kg Ø Ø item g g g 02 40 50 3.14 28 40 38 M20 138 01 40 50 220.6 255.6 282.6

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

To order vacuum cup holders with L fittings, add the letter L to the code.

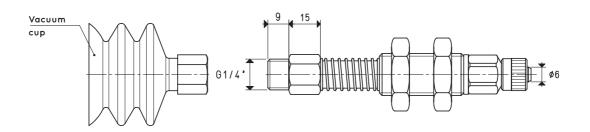
^{*} Also available with height C of 65 mm and 95 mm

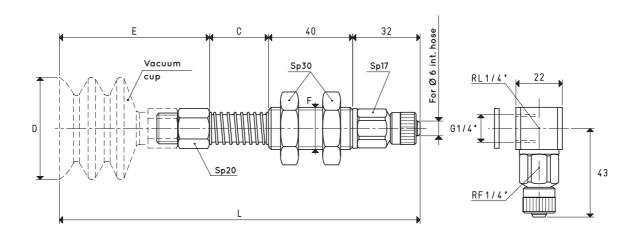


The actual springing stroke is:

- For height C= 28 mm - For height C= 65 mm - For height C= 95 mm 16 mm 49 mm 74 mm







VERSION 02

VERSION 02 L

C = 65 mm

C = 05 mm

VA	ACOOM COP F	HOLDERS W	THSTRAIG	HI QUICK	COUPLER	OR PLASTI	C HOSE Ø	06 X 8		C = 00 mm	C = 95 mm
	ltem	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Weight g	Weight g	Weight g
0	02 40 60 02 50 50 02 60 50	3.14 4.90 7.06	28 28 28	40 50 60	84 87 91	M20 M20 M20	184 187 191	08 40 60 08 50 50 08 60 50	265.6 275.6 248.4	304.6 314.6 337.4	334.6 344.6 367.4
0	2 85 50	14.18	28	85	110	M20	210	08 85 50	394.0	433.0	463.0

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

To order vacuum cup holders with L fittings, add the letter L to the code.

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

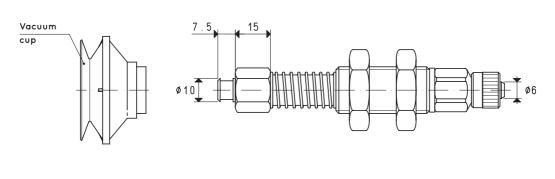
^{*} Also available with height C of 65 mm and 95 mm

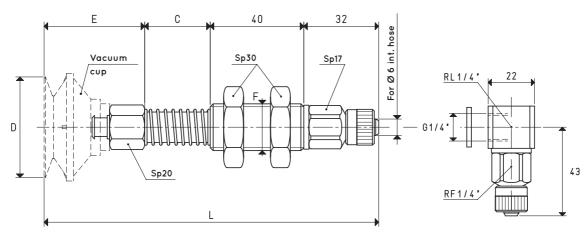


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm







VERSION 02 43 28

VERSION 02 43 28 L

C = 65 mm VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8 C = 95 mm F Force *C For vacuum cup Weight Weight Weight Item Kg Ø Ø item g g g 02 43 28 3.62 28 43 43 M20 143 01 43 28 225 269 299

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

To order vacuum cup holders with L fittings, add the letter L to the code.

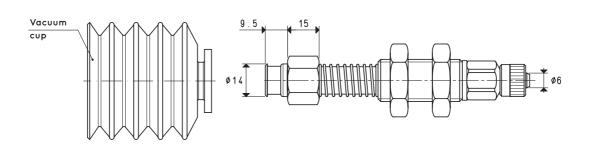
^{*} Also available with height C of 65 mm and 95 mm

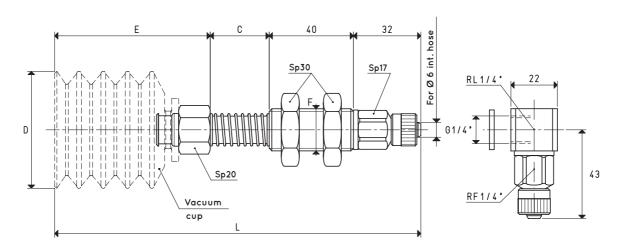


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm - For height C= 95 mm 49 mm 74 mm







VERSION 02 50 53

VERSION 02 50 53 L

VACULIM CUID HOUDEDS WITH STRAIGHT OUICY COUDLED FOR DLASTIC HOSE & 4 V 8

VACUUM CUP I	VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8												
Item	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Weight g	Weight g	Weight g			
02 50 53	4.90	28	50	68	M20	168	01 50 53	247.4	286.4	315.4			

Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L fittings, add the letter L to the code.

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

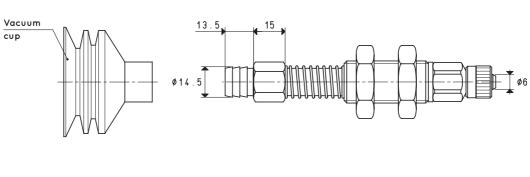
^{*} Also available with height C of 65 mm and 95 mm

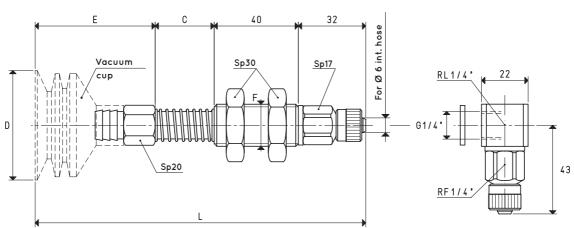


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm







VERSION 02 52 50

VERSION 02 52 50 L

C = 65 mm VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8 C = 95 mm F Force *C For vacuum cup Weight Weight Weight Item Kg Ø Ø item g g g 02 52 50 5.30 28 52 57 M20 157 01 52 50 248.7 298.7 325.7

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

To order vacuum cup holders with L fittings, add the letter L to the code.

 $^{^{\}star}$ Also available with height C of 65 mm and 95 mm

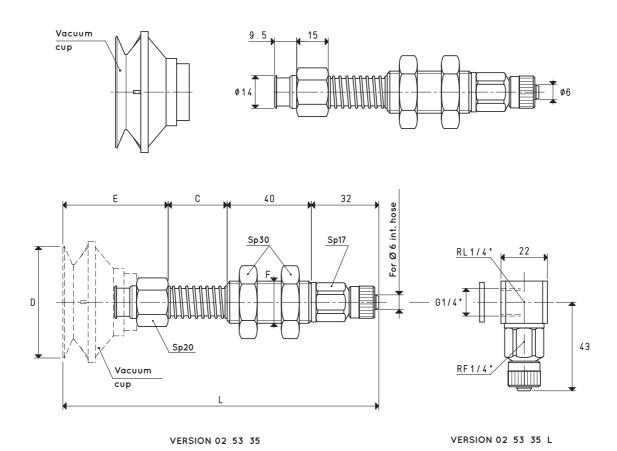


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm







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

	C - 03 IIIII	C - 93 IIIIII
jht	Weight	Weight
	g	g

F Force *C For vacuum cup Weig Item Kg Ø Ø item g 02 53 35 5.51 28 53 41 M20 141 01 53 35 241.6 279.6 308.6

Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L fittings, add the letter L to the code.

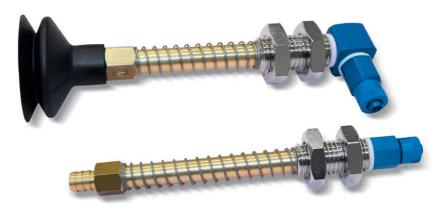
Note: The force of the vacuum cups indicated in the table represents 1/3 of the value of the theoretical force calculated at a level of vacuum of -75 KPa and a factor of safety 3. inch = $\frac{\text{mm}}{25.4}$; pounds = $\frac{\text{g}}{453.6}$ = $\frac{\text{Kg}}{0.4536}$ Transformation ratio: N (newton) = Kg x 9.81 (force of gravity)

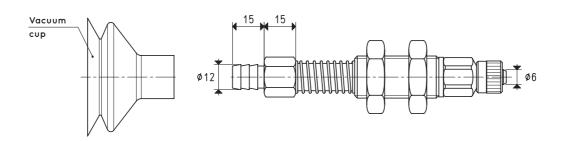
^{*} Also available with height C of 65 mm and 95 mm

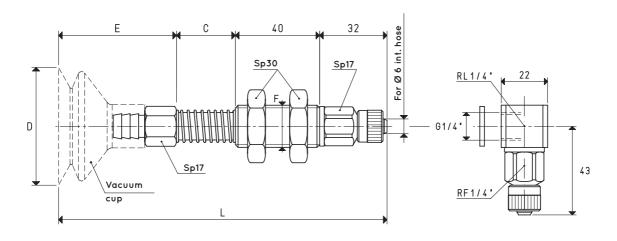


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm







VERSION 02 .. 30

VERSION 02 .. 30 L

VACUUM CUP I	VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8												
Item	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Weight g	Weight g	Weight g			
02 56 30 02 75 30	6.15 11.04	28 28	56 75	33 69	M20 M20	133 169	01 56 30 01 75 30	236.0 255.6	243.0 262.6	264.0 283.6			

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

To order vacuum cup holders with L fittings, add the letter L to the code.

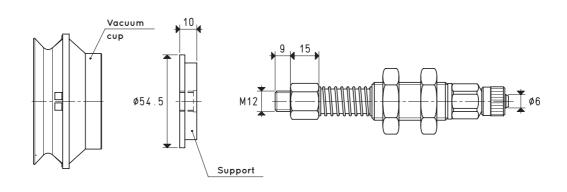
 $[\]ensuremath{^{\star}}$ Also available with height C of 65 mm and 95 mm

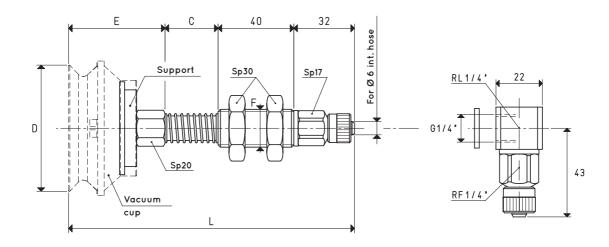


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm - For height C= 95 mm 49 mm 74 mm







VERSION 02 75 42

VERSION 02 75 42 L

VACUUM CUP HOLDERS WITH STRAIGHT OUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8

VACUUM CUP I	VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8												
ltem	Force Kg	*C	D E F L For vacuum cup Support included Wei		Weight g	Weight g	Weight g						
02 75 42	11.04	28	75	57	M20	157	01 75 42	00 08 126	317.8	355.8	382.8		

Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately. To order vacuum cup holders with L fittings, add the letter L to the code.

^{*} Also available with height C of 65 mm and 95 mm

These basic vacuum cup holders also have the same characteristics and offer the same performance as those previously described. Their distinctive feature is the brass stem with a threaded male or female end for fixing the cup.

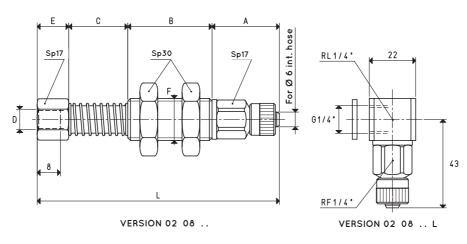
The cups to be assembled onto these vacuum cup holders must be equipped with the suited threaded support.

The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm



Basic vacuum cup holders with female threaded connectors

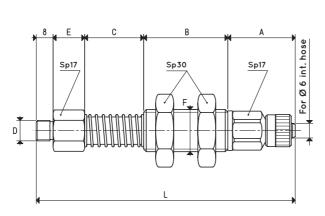


VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8

Item	A	В	С	D Ø	E	F Ø	L	Weight g
02 08 28	32	40	28	G1/8"	15	M20	115	207
02 08 65	32	40	65	G1/8"	15	M20	152	243
02 08 95	32	40	95	G1/8"	15	M20	182	272

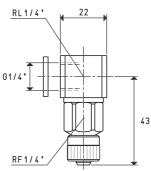
Note: To order vacuum cup holders with L fittings, add the letter L to the code.

Basic vacuum cup holders with male threaded connectors



VERSION 02 08 .. M





VERSION 02 08 .. M L

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

Item	Α	В	С	D Ø	E	F Ø	L	Weight g
02 08 28 M	32	40	28	G1/8"	15	M20	123	216
02 08 65 M	32	40	65	G1/8"	15	M20	160	252
02 08 95 M	32	40	95	G1/8"	15	M20	190	282

Note: To order vacuum cup holders with L fittings, add the letter L to the code.

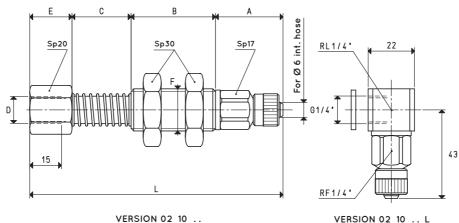


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm





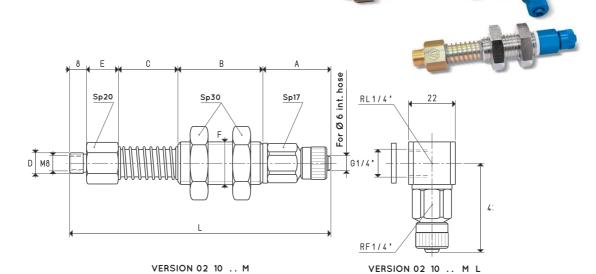


VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8

Item	A	В	С	D Ø	E	F Ø	L	Weight g
02 10 28	32	40	28	G1/4"	20	M20	120	224
02 10 65	32	40	65	G1/4"	20	M20	157	262
02 10 95	32	40	95	G1/4"	20	M20	187	289

Note: To order vacuum cup holders with L fittings, add the letter L to the code.

Basic vacuum cup holders with male threaded connectors



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

Item	Α	В	С	D Ø	E	F Ø	L	Weight g
02 10 28 M	32	40	28	G1/4"	15	M20	124	225
02 10 65 M	32	40	65	G1/4"	15	M20	161	266
02 10 95 M	32	40	95	G1/4"	15	M20	191	295

Note: To order vacuum cup holders with L fittings, add the letter L to the code.

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity)

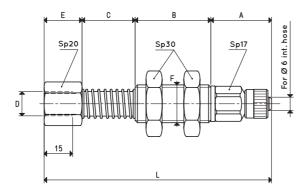


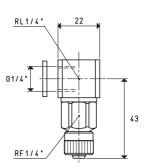
The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm

Basic vacuum cup holders with female threaded connectors







VERSION 02 11 ...

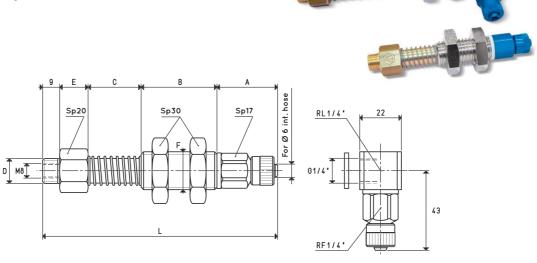
VERSION 02 11 .. L

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

ltem	A	В	С	D Ø	E	F Ø	L	Weight g
02 11 28	32	40	28	M12	20	M20	120	226
02 11 65	32	40	65	M12	20	M20	157	264
02 11 95	32	40	95	M12	20	M20	187	291

Note: To order vacuum cup holders with L fittings, add the letter L to the code.

Basic vacuum cup holders with male threaded connectors



VERSION 02 11 .. M

VERSION 02 11 .. M L

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

Item	Α	В	С	D Ø	E	F Ø	L	Weight g
02 11 28 M	32	40	28	M12	15	M20	124	223
02 11 65 M	32	40	65	M12	15	M20	161	264
02 11 95 M	32	40	95	M12	15	M20	191	293

Note: To order vacuum cup holders with L fittings, add the letter L to the code.

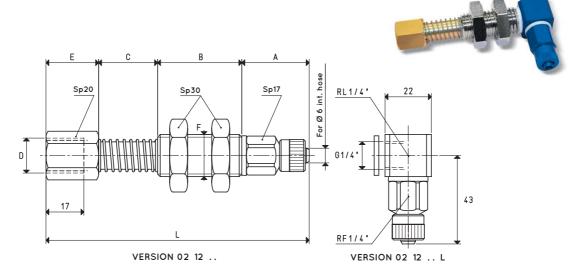
inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6}$ = $\frac{Kg}{0.4536}$



The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm

Basic vacuum cup holders with female threaded connectors

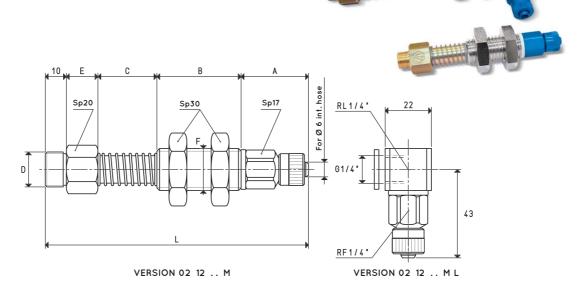


VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8

Item	A	В	С	D Ø	Е	F Ø	L	Weight g
02 12 28	32	40	28	G3/8"	25	M20	125	220
02 12 65	32	40	65	G3/8"	25	M20	162	259
02 12 95	32	40	95	G3/8"	25	M20	192	285

Note: To order vacuum cup holders with L fittings, add the letter L to the code.

Basic vacuum cup holders with male threaded connectors



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

Item	Α	В	С	D Ø	E	F Ø	L	Weight g
02 12 28 M	32	40	28	G3/8"	15	M20	125	237
02 12 65 M	32	40	65	G3/8"	15	M20	162	274
02 12 95 M	32	40	95	G3/8"	15	M20	192	303

Note: To order vacuum cup holders with L fittings, add the letter L to the code.

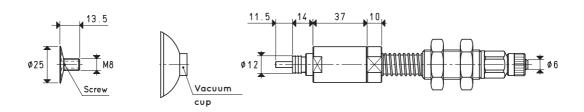


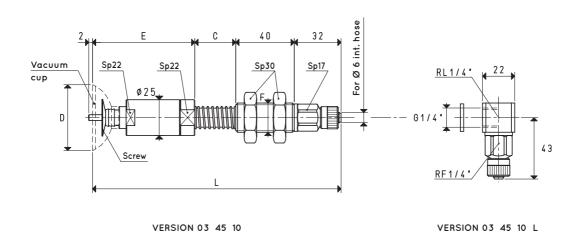
They offer the same mechanical performance at the basic mini vacuum cup holders. They are characterised by a plunger valve solidly connected to a conical spear valve, which activates suction, and therefore creates vacuum, only when the cup comes into contact with the load to be lifted.

The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm







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

Item	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Screw included item	Weight g	Weight g	Weight g
03 45 10	3.98	28	45	70	M20	170	01 45 10	00 20 13	344.7	381.7	415.7

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

To order vacuum cup holders with L fittings, add the letter L to the code.

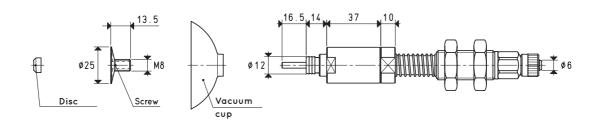
 $[\]mbox{*}$ Also available with height C of 65 mm and 95 mm

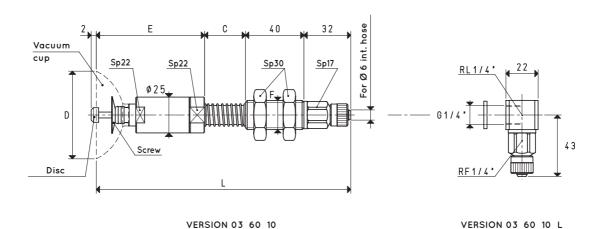


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm







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

r =	65	mm	r	= 0	5	mm

ltem	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Screw included item	Disc included item	Weight g	Weight g	Weight g
03 60 10	7.06	28	60	74	M20	172	01 60 10	00 20 13	00 03 22	361.9	399.9	432.9

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

To order vacuum cup holders with L fittings, add the letter L to the code.

^{*} Also available with height C of 65 mm and 95 mm

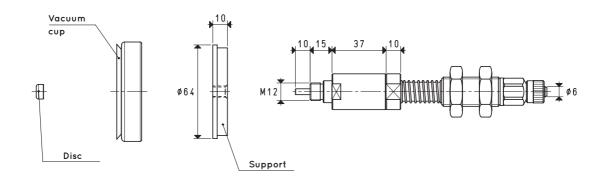


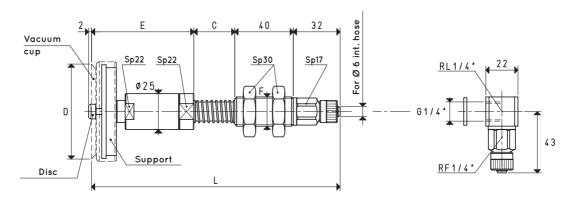
The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm

- For height C= 95 mm 74 mr







VERSION 03 65 15

VERSION 03 65 15 L

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

C = 65 mm C = 95 mm

Item	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Support included item	Disc included item	Weight g	Weight g	Weight g
03 65 15	8.29	28	65	70	M20	170	01 65 15	00 08 32	00 03 22	459.4	497.4	530.4

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

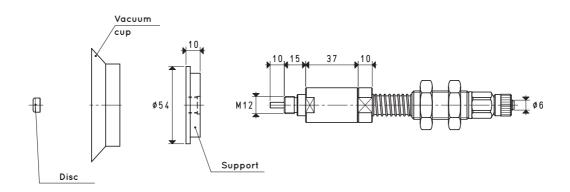
To order vacuum cup holders with L fittings, add the letter L to the code.

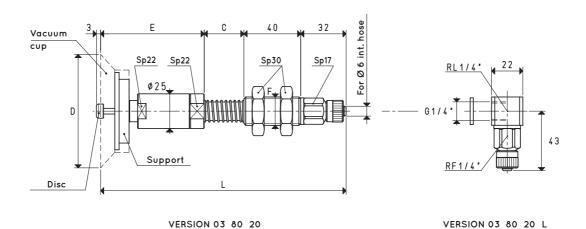
 $^{^{\}star}$ Also available with height C of 65 mm and 95 mm



The actual springing stroke is:







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

C = 65 mm C = 95 mm

Item	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Support included item	Disc included item	Weight g	Weight g	Weight g
03 80 20	12.56	28	80	73	M20	173	01 80 20	00 08 126	00 03 22	432.2	470.2	503.2

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

To order vacuum cup holders with L fittings, add the letter L to the code.

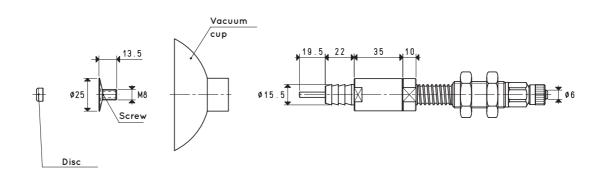
 $[\]mbox{*}$ Also available with height C of 65 mm and 95 mm

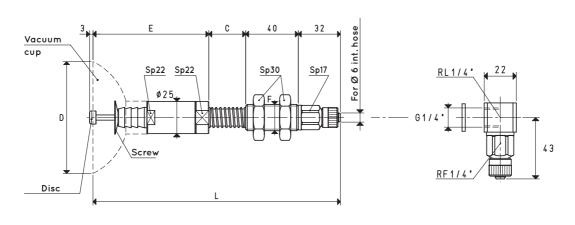


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm







VERSION 03 85 10 VERSION 03 85 10 L

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

C = 65 mm C = 95 mm

ŀ	tem	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Support included item	Disc included item	Weight g	Weight g	Weight g
03	85 10	14.18	28	85	92	M20	192	01 85 10	00 20 13	00 03 22	420.9	462.9	483.9

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

To order vacuum cup holders with L fittings, add the letter L to the code.

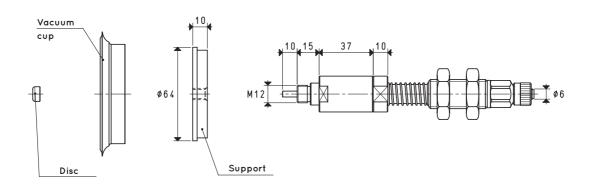
^{*} Also available with height C of 65 mm and 95 mm

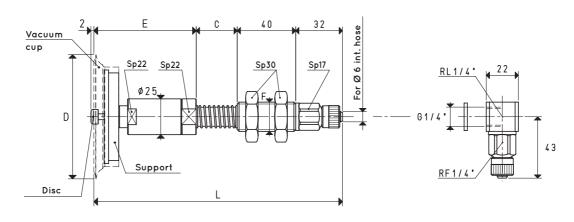


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm







VERSION 03 85 15

VERSION 03 85 15 L

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

C = 65 mm C = 95 mm

Item	Force Kg	*C	D Ø	E	F Ø	L	For vacuum cup item	Support included item	Disc included item	Weight g	Weight g	Weight g
03 85 15	14.18	28	85	70	M20	170	01 85 15	00 08 32	00 03 22	477.7	515.7	548.7

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

To order vacuum cup holders with L fittings, add the letter L to the code.

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.

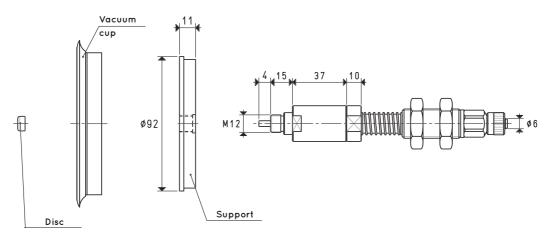
^{*} Also available with height C of 65 mm and 95 mm

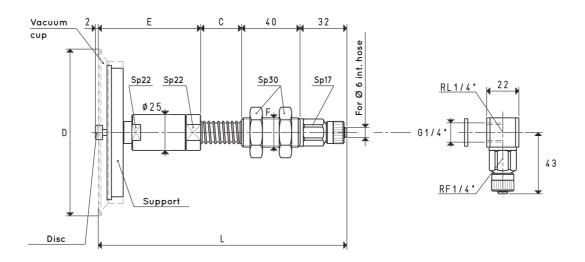


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm







VERSION 03 110 10

VERSION 03 110 10 L

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

C = 65 mm C = 95 mm

Item	Force Kg	*C	D Ø	Е	F Ø	L	For vacuum cup item	Support included item	Disc included item	Weight g	Weight g	Weight g
03 110 10	23.74	28	114	70	M20	170	01 110 10	00 08 33	00 03 22	618.3	549.3	683.3

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

To order vacuum cup holders with L fittings, add the letter L to the code.

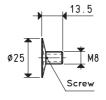
^{*} Also available with height C of 65 mm and 95 mm

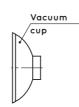
BASIC VACUUM CUP HOLDERS WITH NO SPRINGING

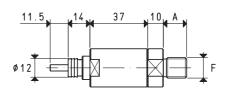


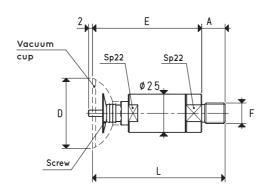
Their function is the same as the previously described basic vacuum cup holders with plunger valve but, for further bulk reduction, the cushioning spring, the threaded bush with nuts for fixing to the automation and the quick coupler have been removed. This type of cup holder must be assembled onto the vacuum manifold by means of a threaded male shank on its end.











VERSION 03 45 11

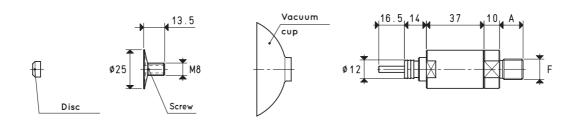
Item	Force Kg	Α	D Ø	E	F Ø	L	For vacuum cup item	Screw included item	Weight g
03 45 11	3.98	15	45	70	G1/4"	85	01 45 10	00 20 13	174.7

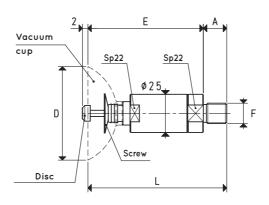
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.



BASIC VACUUM CUP HOLDERS WITH NO SPRINGING







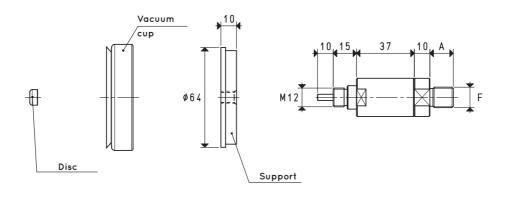
VERSION 03 60 11

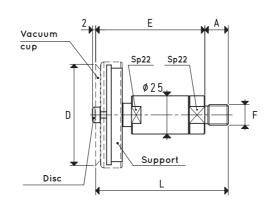
Item	Force Kg	Α	D Ø	E	F Ø	L	For vacuum cup item	Screw included item	Disc included item	Weight g
03 60 11	7.06	15	60	72	G1/4"	87	01 60 10	00 20 13	00 03 22	191.9

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









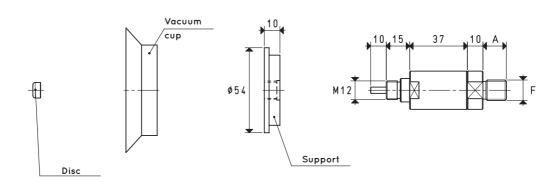
VERSION 03 65 16

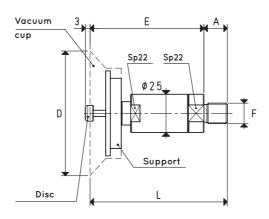
Item	For o	e A	D Ø	E	F Ø	L	For vacuum cup item	Support included item	Disc included item	Weight g
03 65 16	8.2	9 15	5 65	70	G1/4"	85	01 65 15	00 08 32	00 03 22	287.4

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

BASIC VACUUM CUP HOLDERS WITH NO SPRINGING







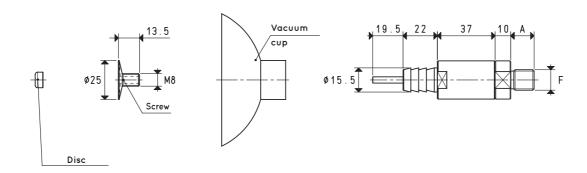
VERSION 03 80 21

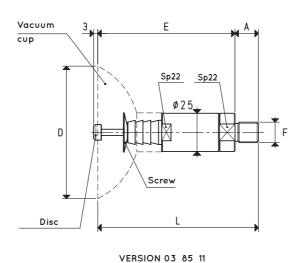
Item	Force Kg	Α	D Ø	E	F Ø	L	For vacuum cup item	Support included item	Disc included item	Weight g
03 80 21	12.56	15	80	73	G1/4"	88	01 80 20	00 08 126	00 03 22	260.2

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







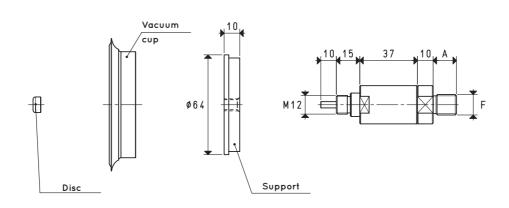


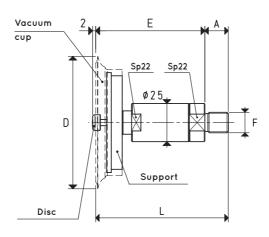
D Ø **F** Ø **Force** Ε For vacuum cup Screw included Disc included Weight Item item item item Kg g 03 85 11 14.18 00 03 22 247.9 15 85 92 G1/4" 107 01 85 10 00 20 13

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

BASIC VACUUM CUP HOLDERS WITH NO SPRINGING







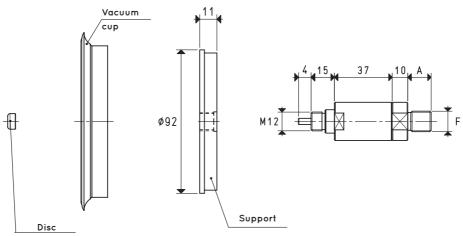
VERSION 03 85 16

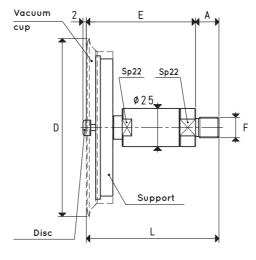
Item	Force Kg	Α	D Ø	E	F Ø	L	For vacuum cup item	Support included item	Disc included item	Weight g
03 85 16	14.18	15	85	70	G1/4"	85	01 85 15	00 08 32	00 03 22	302.7

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









VERSION 03 110 11

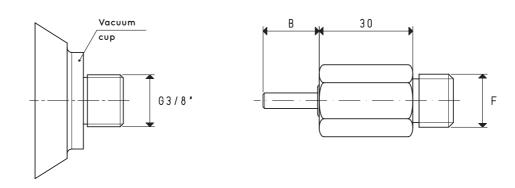
Item	Force Kg	A	D Ø	E	F Ø	L	For vacuum cup item	Support included item	Disc included item	Weight g
03 110 11	23.74	15	114	70	G1/4"	85	01 110 10	00 08 33	00 03 22	441.3

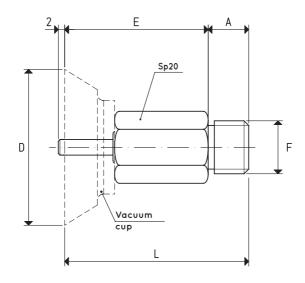
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.



BASIC VACUUM CUP HOLDERS WITH NO SPRINGING







VERSION 03

Item	Force Kg	A	В	D Ø	E	F Ø	L	For vacuum cup item	Weight g
03 50 41	4.90	13	18.0	50	46.0	G3/8"	59.0	08 50 40	100.6
03 75 41	11.04	13	27.0	75	55.0	G3/8"	68.0	08 75 40	120.0
03 100 41	19.62	13	28.0	100	56.0	G3/8"	69.0	08 100 40	140.4
03 100 51	19.62	13	32.5	100	60.5	G3/8"	73.5	08 100 50	136.9

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

BASIC VACUUM CUP HOLDERS WITH BUILT-IN SHUT-OFF VALVE



Along with all the other features they share with the other basic vacuum cup holders, these have a built-in shut-off valve. The function of the shut-off valve is to automatically close suction when the cup is not in contact with the surface of the load to be handled or in case of a faulty grip or of considerable transpiration, thus preventing the reduction of the level of vacuum on the remaining cups of the system that are regularly gripping a load.

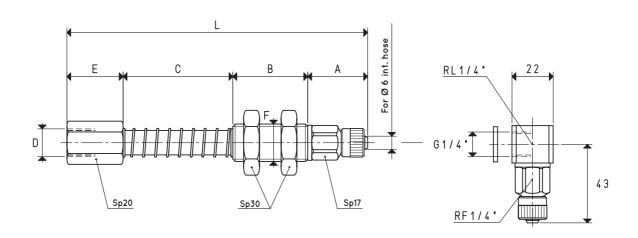
The advantage of this is that the placement or the exclusion of the non-gripping cups is no longer binding.

Vacuum cups with a minimum diameter of 35 mm and maximum diameter of 85 mm can be assembled on these cup holders, provided they have a¼" male threaded gas support.

The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm





VERSION 02 99 . .

VERSION 02 99 . . L

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

ltem	A	В	С	D Ø	E	F Ø	L	Weight g
02 99 28	32	40	28	G1/4"	30	M20	130	256
02 99 65	32	40	65	G1/4"	30	M20	167	301
02 99 95	32	40	95	G1/4"	30	M20	197	333

Minimum trigger flow = 4 m³/h

Minimum level of vacuum = -250 mbar

Note: To order vacuum cup holders with L fittings, add the letter L to the code.

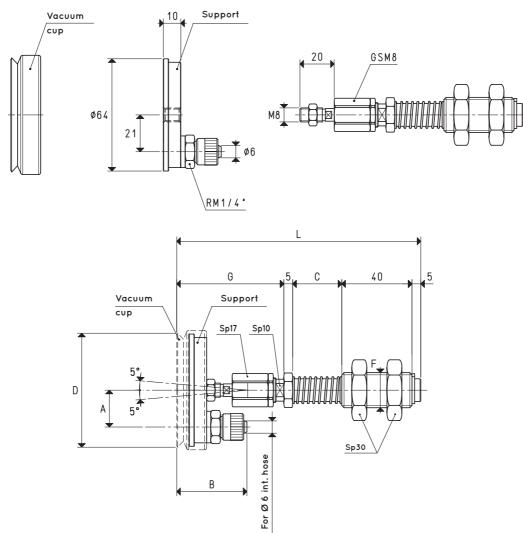


The technical and mechanical features are the same as for the basic vacuum cup holders. Their distinctive feature is their articulated joint in hardened steel, which allows the flat cups installed on these cup holders to adapt themselves to the loads to be lifted with slightly tilted surfaces, as well as to compensate possible verticality errors that can arise between the cup holder and the automation fixing support.

16 mm - For height C= 28 mm







VERSION 02 65 20

VACULIM CLIP HOLDERS WITH STRAIGHT OLLICK COLIPLER FOR PLASTIC HOSE Ø 6 X 8

VACUUM CUP I	HOLDERS	WITH	STRAI	GHT C	UICK	COUP	LER F	OR PLA	ASTIC HOSE Ø 6 X	8		C = 65 mm	C = 95 mm
Item	Force Kg	A	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Support included item	Weight g	Weight g	Weight g
02 65 20	8.29	21	37	28	65	M20	52	130	01 65 16	00 02 36	382.4	431.4	461.4

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

^{*} Also available with height C of 65 mm and 95 mm

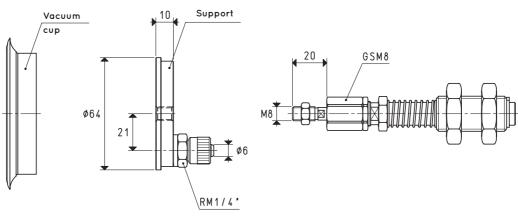


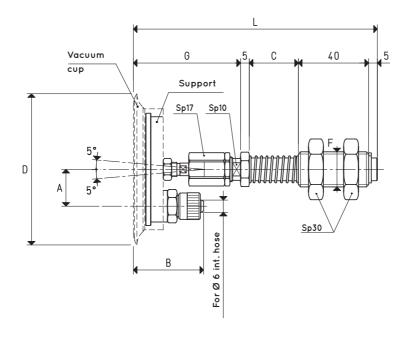
The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm

- For height C= 95 mm 74 mm







VERSION 02 85 20

VACULIM CUID HOUDEDS WITH STRAIGHT OUICY COUDLED FOR DLASTIC HOSE & 4 V 8

V	ACUUM CUP I	HOLDERS	WITH	STRAI	GHT C	UICK	COUP	ER F	OR PLA	ASTIC HOSE Ø 6 X	8		C = 65 mm	C = 95 mm
	Item	Force Kg	A	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Support included item	Weight g	Weight g	Weight g
	02 85 20	14.18	21	37	28	85	M20	52	130	01 85 16	00 02 36	400.7	449.7	479.7

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

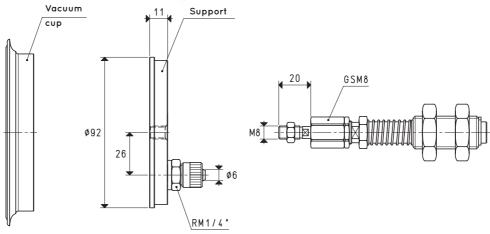
^{*} Also available with height C of 65 mm and 95 mm

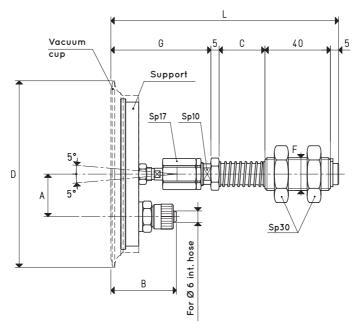


The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm







VERSION 02 110 20

VACUUM CUP HOLDERS WITH STRAIGHT OUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8

VACUUM CUP I	HOLDERS	WIIH	STRA	IGHI	QUICK	COUP	LEK F	OR PLA	ASTIC HOSE Ø 6 X	8		C = 05 mm	C = 95 mm
Item	Force Kg	Α	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Support included item	Weight g	Weight g	Weight g
02 110 20	23.74	26	37	28	114	M20	52	130	01 110 10	00 02 37	540.3	587.3	614.3

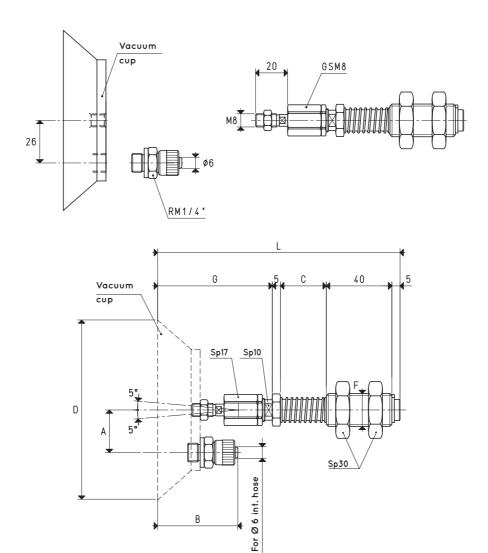
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.

^{*} Also available with height C of 65 mm and 95 mm

The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm





VERSION 02 110 22

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

VACUUM CUP I	HOLDERS '	WITH ST	RAIGHT	QUICK (OUPLER	FOR PLA	STIC HO	SEØ6X	(8		C = 65 mm	C = 95 mm
Item	Force Kg	A	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Weight g	Weight g	Weight g
02 110 22	23.74	26	46	28	110	M20	61	139	08 110 40 M8	603	654	683

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. inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6}$ = $\frac{Kg}{0.4536}$

^{*} Also available with height C of 65 mm and 95 mm



BASIC ANTI-ROTATION VACUUM CUP HOLDERS

The technical features are the same as for the previously described basic vacuum cup holders. Their distinctive features are their brass stem with hexagonal cross-section and the steel drive bush, also with hexagonal hole.

This structure prevents the stem and, as a consequence, the cup assembled onto it from rotating on its axis.

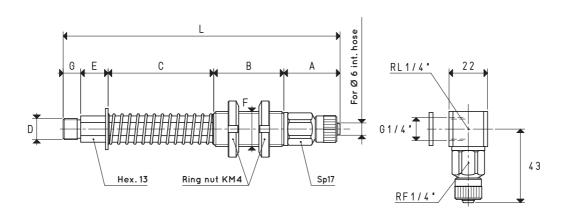
The drive bush is equipped with two fine thread ring nuts to guarantee an accurate fastening of the cup holder to the automation.

They are suited for cups with diameters between 45 mm and 110 mm, although they have been specially designed for assembling rectangular, concave or elliptical cups.

The actual springing stroke is:

- For height C= 28 mm 16 mm - For height C= 65 mm 49 mm - For height C= 95 mm 74 mm





VERSION 02 95 . .

VERSION 02 95 . . L

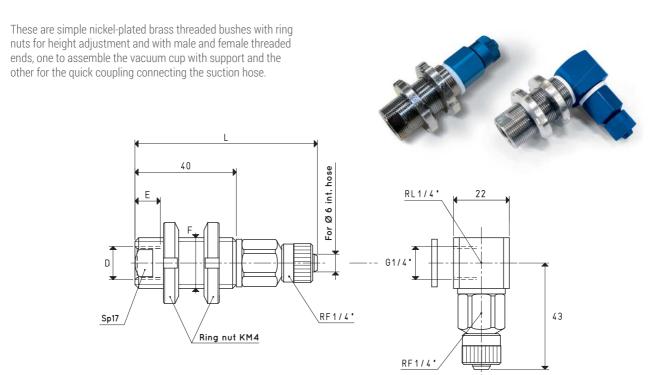
VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8

Item	Α	В	С	D Ø	E	F Ø	G	L	Weight g
02 95 28	32	40	28	M12	15	M20 x 1	10	125	180
02 95 65	32	40	65	M12	15	M20 x 1	10	162	225
02 95 95	32	40	95	M12	15	M20 x 1	10	192	246
02 95 28 1/4"	32	40	28	G1/4"	15	M20 x 1	10	125	181
02 95 65 1/4"	32	40	65	G1/4"	15	M20 x 1	10	162	226
02 95 95 1/4"	32	40	95	G1/4"	15	M20 x 1	10	192	247

Note: To order vacuum cup holders with L fittings, add the letter L to the code.

BASIC VACUUM CUP HOLDERS FIX





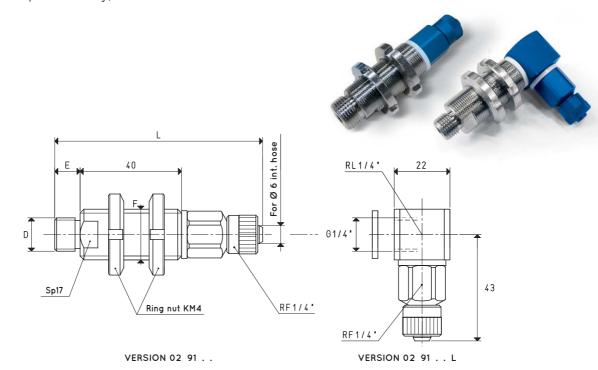
VERSION 02 91 01

VERSION 02 91 01 L

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

Item	D Ø	E	F Ø	L	Weight g
02 91 01	G1/4"	10	M20 x 1	74	162

Note: To order vacuum cup holders with L fittings, add the letter L to the code.



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

Item	D ∅	E	F Ø	L	Weight g
02 91 05	G1/4"	10	M20 x 1	84	170
02 91 06	G3/8"	10	M20 x 1	84	174

Note: To order vacuum cup holders with L fittings, add the letter L to the code.

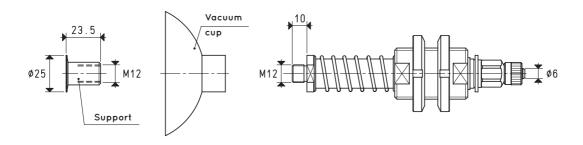


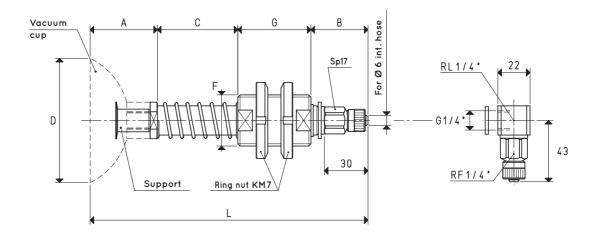
SPECIAL VACUUM CUP HOLDERS

These special vacuum cup holders have been designed to lift and handle heavy loads and to withstand heavy-duty and continuous workloads in dusty or damp environments. They are composed of:

- A chrome-plated steel stem for fastening the cup
- A brass threaded support with self-lubricating bushes, equipped with two ring nuts for fastening the cup holder to the automation
- A spring to cushion the impact of the cup with the load to be lifted
- A quick coupling for connection with the suction hose The actual springing stroke is:
- For height C= 55 mm 37 mm - For height C= 110 mm 84 mm







VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE \emptyset 6 X 8

VERSION 06 85 10

C = 110 mm

VERSION 06 85 10 L

Item	Force Kg	Α	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Support included item	Weight g	Weight g
06 85 10	14.18	46	39	55	85	M35 x 1.5	50	190	01 85 10	00 08 29	731.9	853.9

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

To order vacuum cup holders with L fittings, add the letter L to the code.

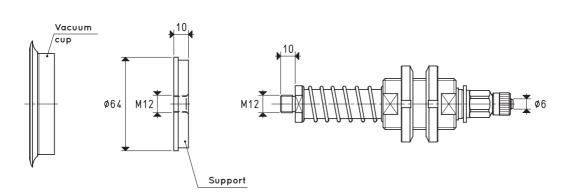
 $[\]ensuremath{^{\star}}$ Also available with height C of 110 mm

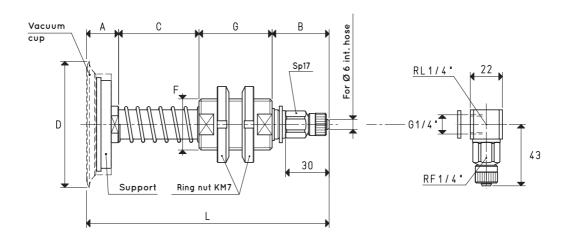
SPECIAL VACUUM CUP HOLDERS



The actual springing stroke is:







VERSION 06 85 15

VERSION 06 85 15 L

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

C = 110 mm

Item	Force Kg	Α	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Support included item	Weight g	Weight g
06 85 15	14.18	22	39	55	85	M35 x 1.5	50	166	01 85 15	00 08 32	779.7	899.7

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

To order vacuum cup holders with L fittings, add the letter L to the code.

^{*} Also available with height C of 110 mm



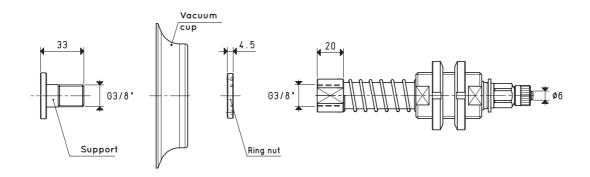
SPECIAL VACUUM CUP HOLDERS

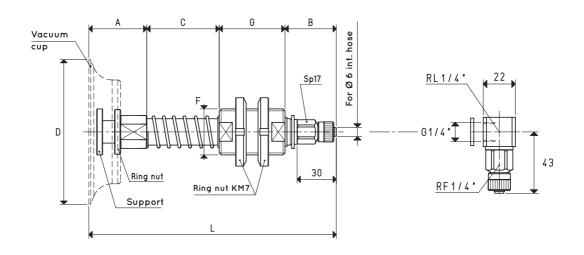
The actual springing stroke is:

- For height C= 55 mm 37 mm

- For height C= 110 mm 84 mm







VERSION 06 90 24

VERSION 06 90 24 L

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE \emptyset 6 X 8

C = 110 mm

Item	Force Kg	A	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Support included item	Ring nut included item	Weight g	Weight g
06 90 24	15.89	29	39	55	90	M35 x 1.5	50	173	01 90 24	00 08 110	00 08 111	852.8	974.8

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

To order vacuum cup holders with L fittings, add the letter L to the code.

^{*} Also available with height C of 110 mm



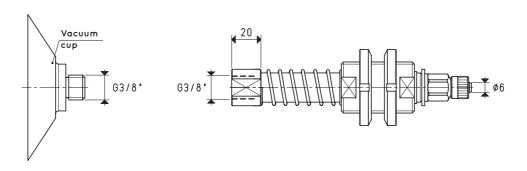
The actual springing stroke is:

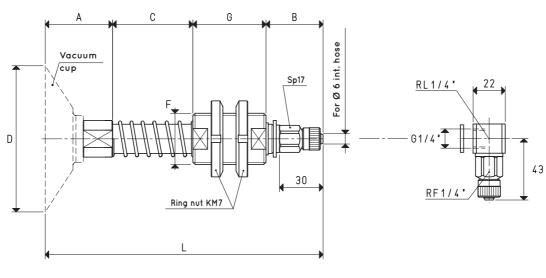
- For height C= 55 mm

37 mm

- For height C= 110 mm 84 mm







VERSION 06 100 40

VERSION 06 100 40 L

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

C = 110 mm

Item	Force Kg	A	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Weight g	Weight g
06 100 40	19.62	31	39	55	100	M35 x 1.5	50	175	08 100 40	736	858

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

To order vacuum cup holders with L fittings, add the letter L to the code.

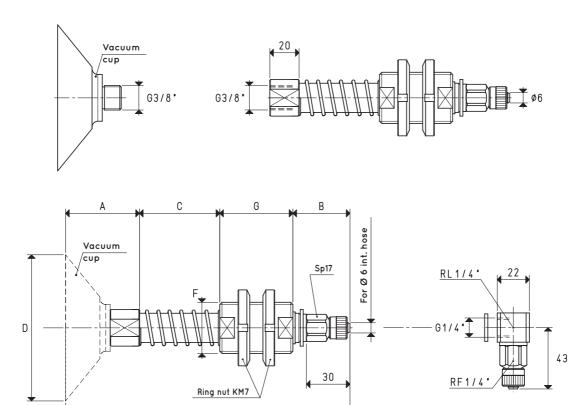
^{*} Also available with height C of 110 mm



The actual springing stroke is:

- For height C= 55 mm 37 mm
- For height C= 110 mm 84 mm





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

VERSION 06 100 50

C = 110 mm

VERSION 06 100 50 L

Item	Force Kg	Α	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Weight g	Weight g
06 100 50	19.62	35.5	39	55	100	M35 x 1.5	50	179.5	08 100 50	732	854

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

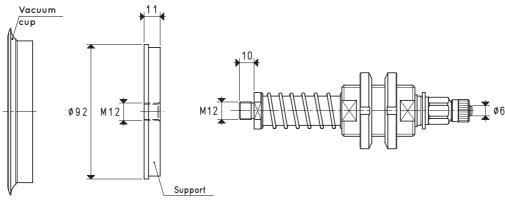
To order vacuum cup holders with L fittings, add the letter L to the code.

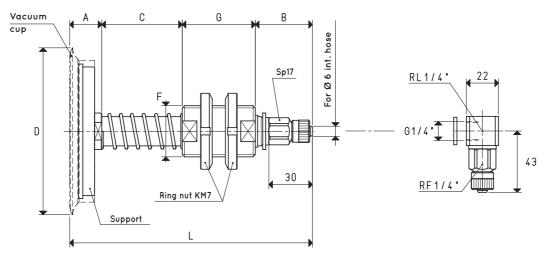
^{*} Also available with height C of 110 mm

The actual springing stroke is:

- For height C= 55 mm 37 mm - For height C= 110 mm 84 mm







VERSION 06 110 10

VERSION 06 110 10 L

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

C = 110 mm

Item	Force Kg	Α	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Support included item	Weight g	Weight g
06 110 10	23.74	22	39	55	114	M35 x 1.5	50	166	01 110 10	00 08 33	912.3	1034.3

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

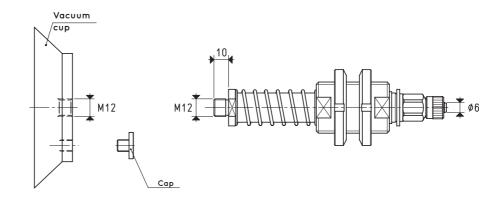
To order vacuum cup holders with L fittings, add the letter L to the code.

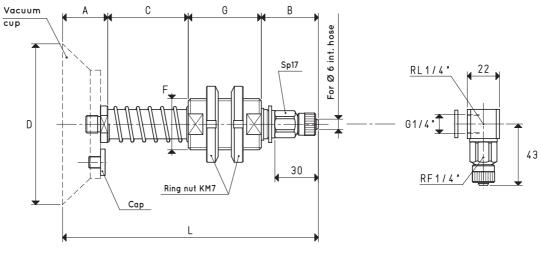
^{*} Also available with height C of 110 mm

The actual springing stroke is:

- For height C= 55 mm 37 mm
- For height C= 110 mm 84 mm







VERSION 06 110 15

VERSION 06 110 15 L

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE \emptyset 6 X 8

C = 110 mm

Item	Force Kg	A	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Cap included item	Weight g	Weight g
06 110 15	23.74	31	39	55	110	M35 x 1.5	50	175	08 110 15	00 11 06	980	1100

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

To order vacuum cup holders with L fittings, add the letter L to the code.

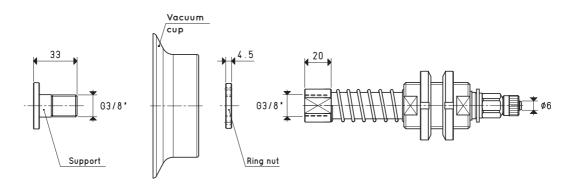
^{*} Also available with height C of 110 mm

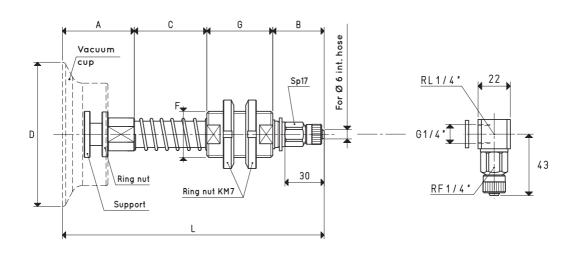
The actual springing stroke is:

- For height C= 55 mm 37 mm

- For height C= 110 mm 84 mm







VERSION 06 110 24

VERSION 06 110 24 L

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

r	_	1	1	n	mm

Item	Force Kg	Α	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Support included item	Ring nut included item	Weight Kg	VPæight Kg
06 110 24	23.74	29	39	55	110	M35 x 1.5	50	173	01 110 24	00 08 110	00 08 111	1.07	1.19

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

To order vacuum cup holders with L fittings, add the letter L to the code.

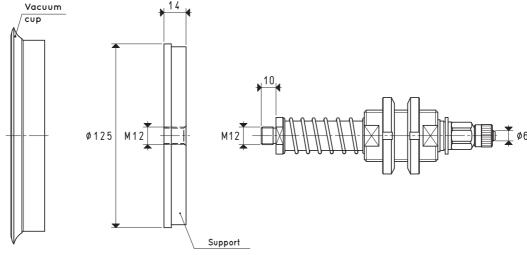
^{*} Also available with height C of 110 mm

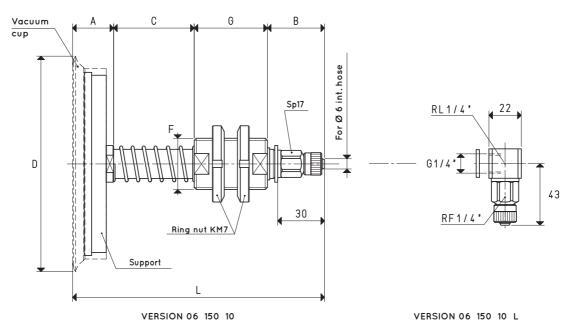


The actual springing stroke is:

- For height C= 55 mm 37 mm
- For height C= 110 mm 84 mm







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

C = 110 mm

Item	Force Kg	A	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Support included item	Weight Kg	Weight Kg
06 150 10	45.00	28	39	55	154	M35 x 1.5	50	172	01 150 10	00 08 35	1.32	1.45

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

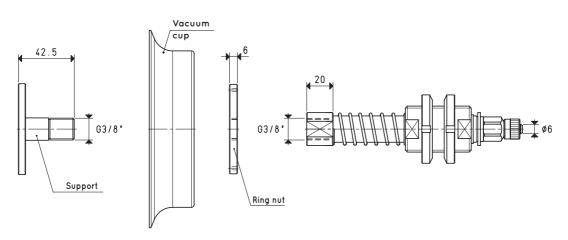
To order vacuum cup holders with L fittings, add the letter L to the code.

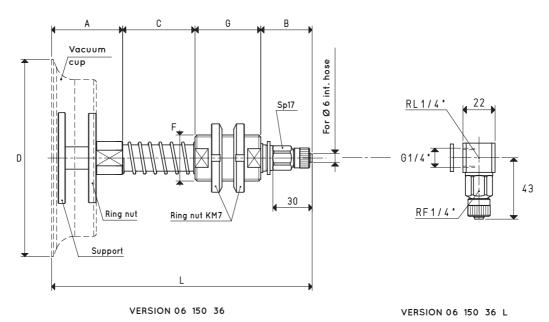
^{*} Also available with height C of 110 mm

The actual springing stroke is:

- For height C= 55 mm 37 mm
- For height C= 110 mm 84 mm







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

C = 110 mm

Ite	em	Force Kg	A	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Support included item	Ring nut included item	Weight Kg	Weight Kg
06 1	50 36	45.00	41	39	55	150	M35 x 1.5	50	185	01 150 36	00 08 112	00 08 113	1.39	1.52

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

To order vacuum cup holders with L fittings, add the letter L to the code.

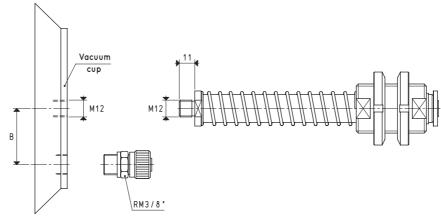
^{*} Also available with height C of 110 mm

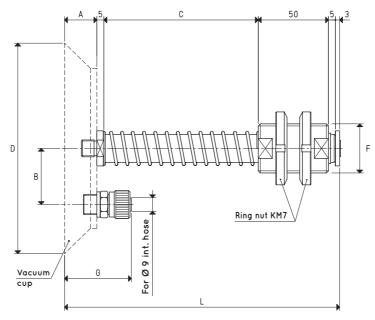
The actual springing stroke is:

- For height C= 55 mm









VERSION 06

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 9 X 12

C = 110 mm

ltem	Force Kg	Α	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Weight Kg	Weight Kg
06 150 15	45.00	26	40.0	55	150	M35 x 1.5	50	144	08 150 15	1.51	1.64
06 200 10	78.50	28	47.5	55	200	M35 x 1.5	52	146	08 200 10	2.42	2.54
06 250 10	122.60	28	72.5	55	250	M35 x 1.5	52	146	08 250 10	3.68	3.80

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

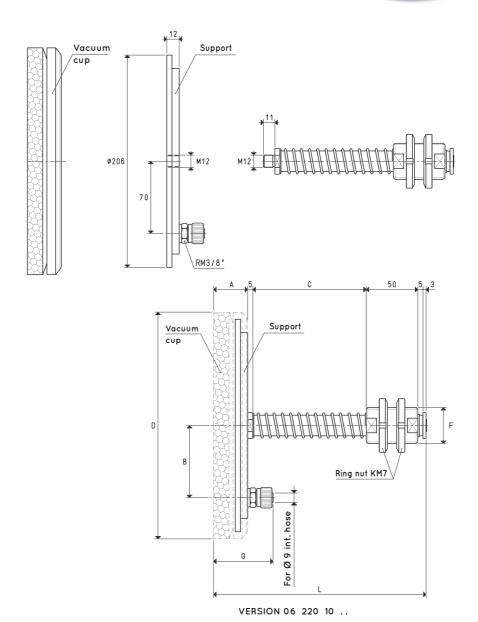
^{*} Also available with height C of 110 mm

The actual springing stroke is:

- For height C= 55 mm 37 mm
- For height C= 110 mm 84 mm







VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 9 X 12

C = 110 mm

Item	Force Kg	Α	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Support included item	Weight Kg	Weight Kg
06 220 10 OF	63.6	35	70	55	220	M35 x 1.5	61	153	01 220 10 OF	00 08 37	1.87	1.99
06 220 10 NF	63.6	35	70	55	220	M35 x 1.5	61	153	01 220 10 NF	00 08 37	1.86	1.98

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

^{*} Also available with height C of 110 mm

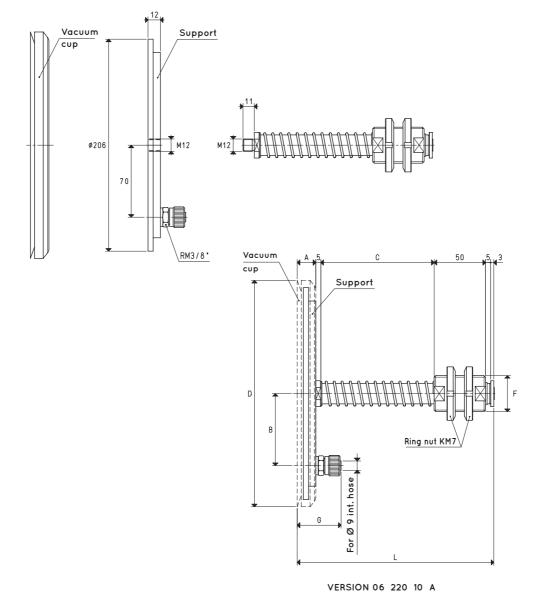
The actual springing stroke is:

- For height C= 55 mm
- 37 mm
- For height C= 110 mm









VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 9 X 12

C = 110 mm

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ltem	Force Kg	Α	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Support included item	Weight Kg	Weight Kg
06 220 10 A	78.5	20	70	55	220	M35 x 1.5	44	138	01 220 10 A	00 08 37	1.81	1.94

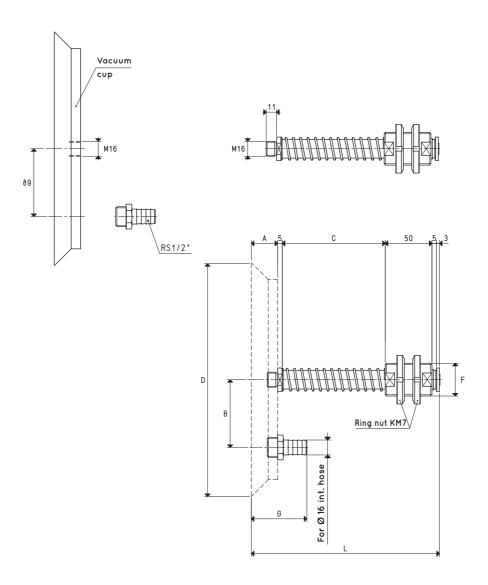
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.

^{*} Also available with height C of 110 mm

The actual springing stroke is:

- For height C= 55 mm 37 mm
- For height C= 110 mm 84 mm





VERSION 06 ... 10

VACUUM CUP HOLDERS WITH HOSE-END FITTING FOR PLASTIC HOSE Ø 16 X 18

C = 110 mm

Item	Force Kg	A	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Weight Kg	Weight Kg
06 300 10	176.6	31	89	55	300	M35 x 1.5	61	149	08 300 10	5.42	5.56
06 350 10	240.0	31	89	55	350	M35 x 1.5	61	149	08 350 10	7.30	7.43

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

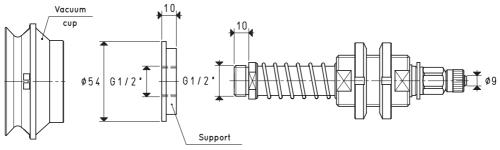
^{*} Also available with height C of 110 mm

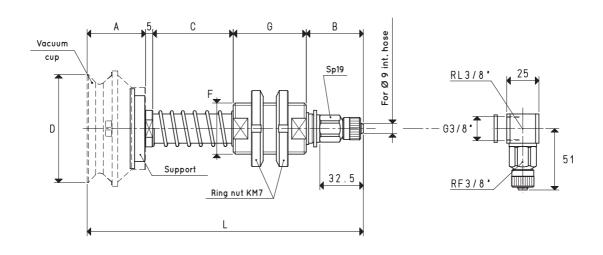


The actual springing stroke is:

- For height C= 55 mm
- 37 mm
- For height C= 110 mm
- 84 mm







VERSION 06 75 42

VERSION 06 75 42 L

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 9 X 12

C = 110 mm

Item	Force Kg	Α	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Support included item	Weight Kg	Weight Kg
06 75 42	11.93	42	45	55	78	M35 x 1.5	50	197	01 75 42	00 08 143	0.76	0.87

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

To order vacuum cup holders with L fittings, add the letter L to the code.

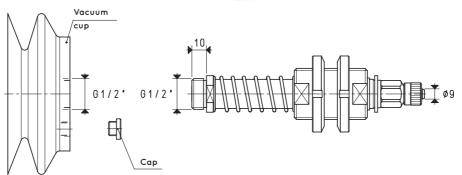
^{*} Also available with height C of 110 mm

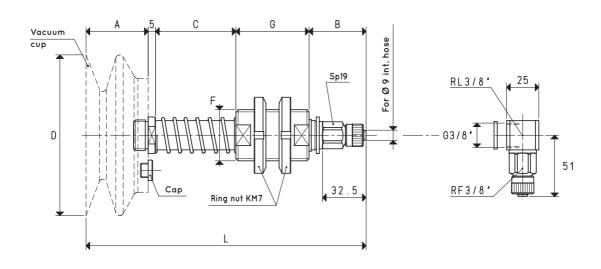


The actual springing stroke is:

- For height C= 55 mm 37 mm
- For height C= 110 mm 84 mm







VERSION 06 . . . 30

VERSION 06 . . . 30 L

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 9 X 12

C = 110 mm

Item	Force Kg	Α	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Cap included item	Weight Kg	Weight Kg
06 110 30	23.74	45	45	55	110	M35 x 1.5	50	200	08 110 30	00 11 44	0.97	1.08
06 150 30	45.00	60	45	55	150	M35 x 1.5	50	215	08 150 30	00 11 44	1.09	1.20
06 180 30	63.50	70	45	55	180	M35 x 1.5	50	225	08 180 30	00 11 44	1.45	1.56

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

To order vacuum cup holders with L fittings, add the letter L to the code.

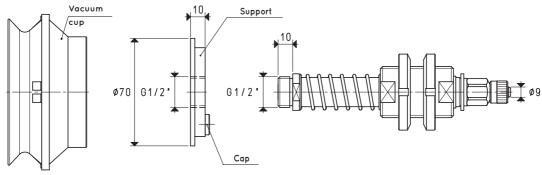
Note: The force of the vacuum cups indicated in the table represents 1/3 of the value of the theoretical force calculated at a level of vacuum of -75 KPa and a factor of safety 3. inch = $\frac{\text{mm}}{25.4}$; pounds = $\frac{\text{g}}{453.6}$ = $\frac{\text{Kg}}{0.4536}$ Transformation ratio: N (newton) = Kg x 9.81 (force of gravity)

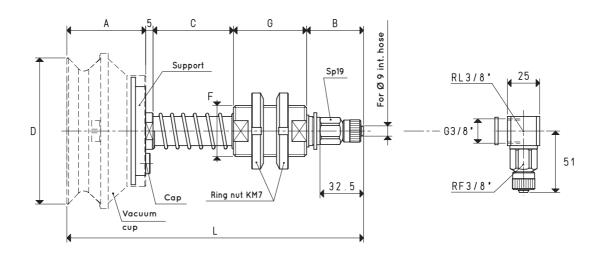
^{*} Also available with height C of 110 mm

The actual springing stroke is:

- For height C= 55 mm
- For height C= 110 mm 84 mm







VERSION 06 110 58

VERSION 06 110 58 L

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 9 X 12

C = 110 mm

Item	Force Kg	Α	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Support included item	Cap included item	Weight Kg	Weight Kg
06 110 58	23.74	58	45	55	110	M35 x 1.5	50	213	01 110 58	00 08 162	00 11 44	0.93	1.04

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

To order vacuum cup holders with L fittings, add the letter L to the code.

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)

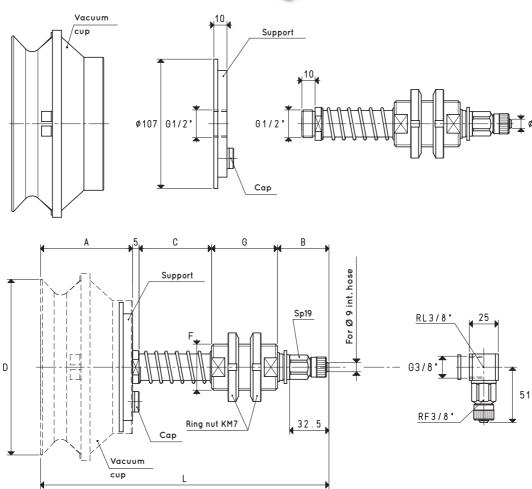
^{*} Also available with height C of 110 mm



The actual springing stroke is:

- For height C= 55 mm 37 mm
- For height C= 110 mm 84 mm





VERSION 06 150 74

VERSION 06 150 74 L

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 9 X 12

C = 110 mm

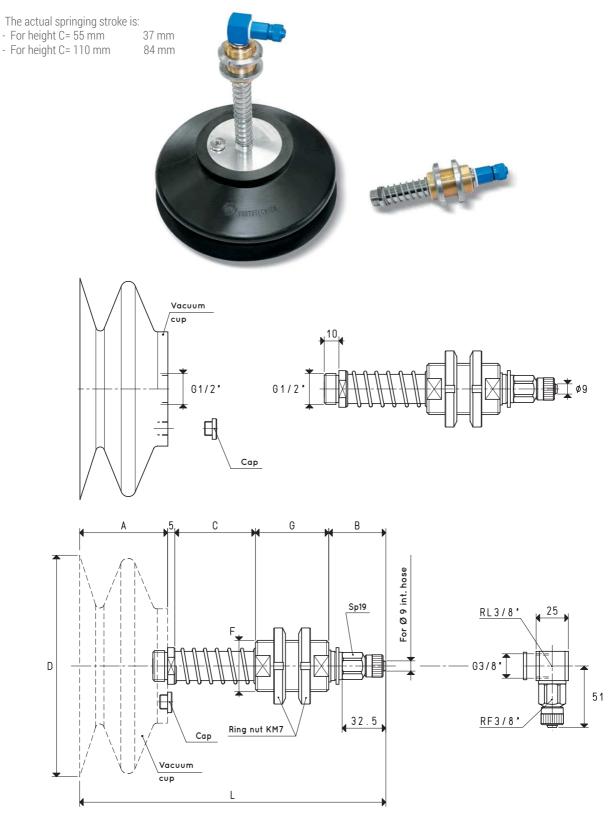
Item	Force Kg	A	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Support included item	Cap included item	Weight Kg	Weight Kg
06 150 74	45.00	74	45	55	150	M35 x 1.5	50	229	01 150 74	00 08 163	00 11 44	1.34	1.45

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

To order vacuum cup holders with L fittings, add the letter L to the code.

^{*} Also available with height C of 110 mm





VERSION 06 250 30

VERSION 06 250 30 L

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 9 X 12

VACUUM CUP I	VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 9 X 12													
Item	Force Kg	A	В	*C	D Ø	F Ø	G	L	For vacuum cup item	Cap included item	Weight Kg	Weight Kg		
06 250 30	122.60	100	45	55	250	M35 x 1.5	50	255	08 250 30	00 18 33	2.20	2.31		

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

To order vacuum cup holders with L fittings, add the letter L to the code.

^{*} Also available with height C of 110 mm

SPECIAL VACUUM CUP HOLDERS WITH MALE AND FEMALE THREADED CONNECTORS

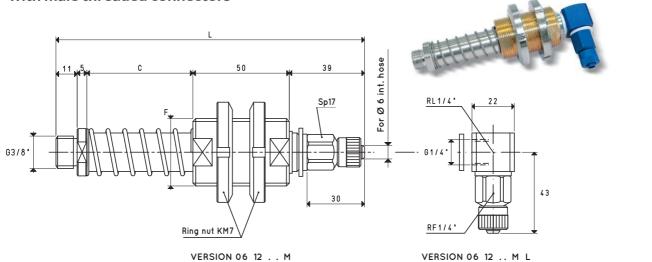


The actual springing stroke is:

- For height C= 55 mm 37 mm

- For height C= 110 mm 84 mm

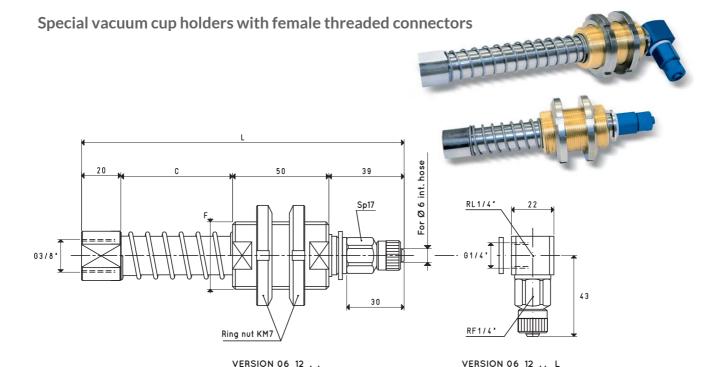
Special vacuum cup holders with male threaded connectors



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

Item	* C	F Ø	L	Weight Kg
06 12 55 M	55	M35 x 1.5	160	0.63
06 12 110 M	110	M35 x 1.5	215	0.77

Note: To order vacuum cup holders with L fittings, add the letter L to the code.



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

Item	* C	F Ø	L	Weight Kg
06 12 55	55	M35 x 1.5	164	0.62
06 12 110	110	M35 x 1.5	219	0.75

Note: To order vacuum cup holders with L fittings, add the letter L to the code.



SPECIAL VACUUM CUP HOLDERS WITH MALE THREADED CONNECTORS

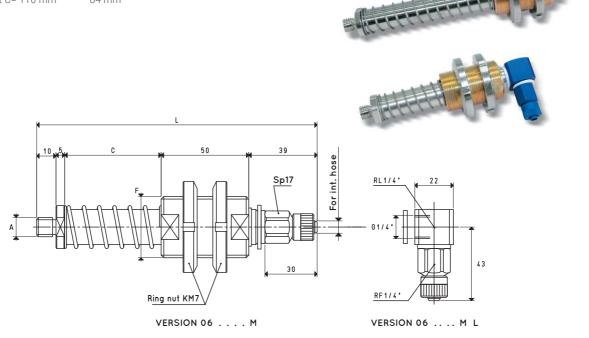
The actual springing stroke is:

- For height C= 55 mm

37 mm

- For height C= 110 mm

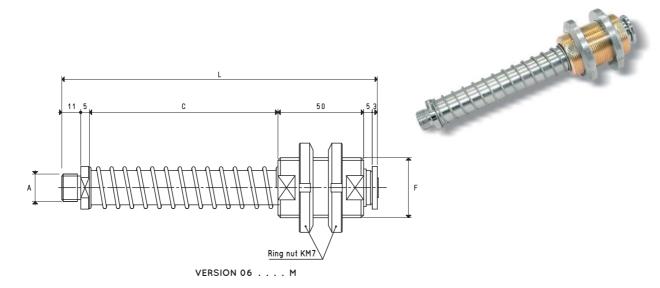
84 mm



VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE

Item	A	* C	F Ø	L	Int. hose	Weight Kg
06 11 55 M	M12	55	M35 x 1.5	159	6	0.63
06 11 110 M	M12	110	M35 x 1.5	214	6	0.77
06 13 55 M	G1/2"	55	M35 x 1.5	159	9	0.63
06 13 110 M	G1/2"	110	M35 x 1.5	214	9	0.77

Note: To order vacuum cup holders with L fittings, add the letter L to the code.



Item	А	* C	Ø	L	weight Kg
06 14 55 M	M16	55	M35 x 1.5	129	0.52
06 14 110 M	M16	110	M35 x 1.5	184	0.65
06 15 55 M	M12	55	M35 x 1.5	129	0.52
06 15 110 M	M12	110	M35 x 1.5	184	0.65

Note: The vacuum cup holder is not equipped with an axial vacuum passage

inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6}$ = -

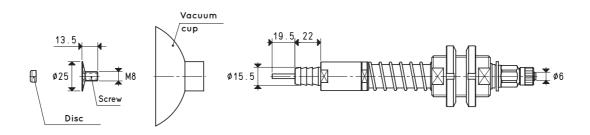


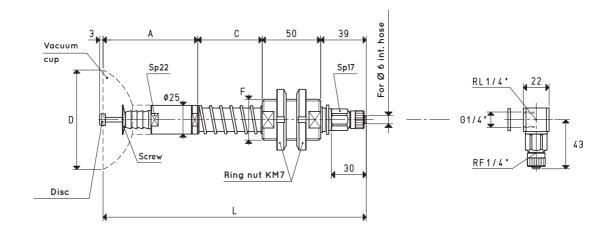
They share the same mechanical features at the special vacuum cup holders. The addition of a plunger valve solidly connected to a conical spear valve, which activates suction, and therefore creates vacuum, only when the cup comes into contact with the load to be lifted. With these cup holders, it is no longer necessary to install cocks on the suction hoses; for this reason, they are recommended in all those cases in which there is a chance that not all the cups come into contact with the load to be lifted (because of an uneven or incomplete

The actual springing stroke is:

- For height C= 55 mm 37 mm - For height C= 110 mm 84 mm







VERSION 06 85 20

VERSION 06 85 20 L

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

VACUUM CUP I	VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8													
Item	Force Kg	Α	*C	D Ø	F Ø	L	For vacuum cup item	Screw included item	Disc included item	Weight Kg	Weight Kg			
06 85 20	14.18	81	55	85	M35 x 1.5	225	01 85 10	00 20 13	00 03 22	0.83	0.95			

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

To order vacuum cup holders with L fittings, add the letter L to the code.

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)

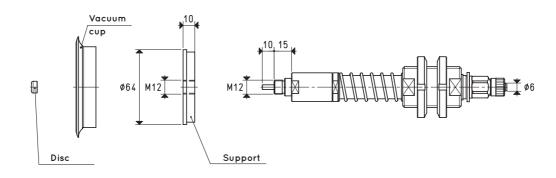
^{*} Also available with height C of 110 mm

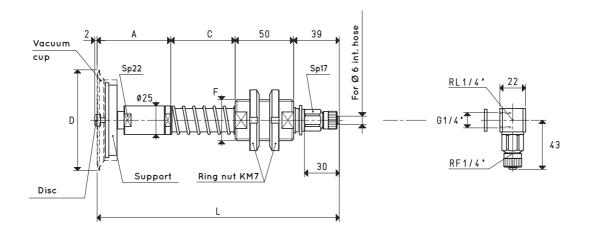


The actual springing stroke is:

- For height C= 55 mm 37 mm
- For height C= 110 mm 84 mm







VERSION 06 85 22

VERSION 06 85 22 L

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE \emptyset 6 X 8

C = 110 mm

Item	Force Kg	Α	*C	D Ø	F Ø	L	For vacuum cup item	Support included item	Disc included item	Weight Kg	Weight Kg
06 85 22	14.18	65	55	85	M35 x 1.5	209	01 85 15	00 08 32	00 03 22	0.89	1.01

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

To order vacuum cup holders with L fittings, add the letter L to the code.

^{*} Also available with height C of 110 mm

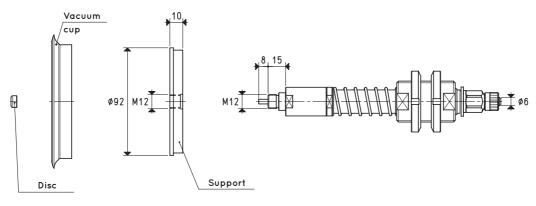


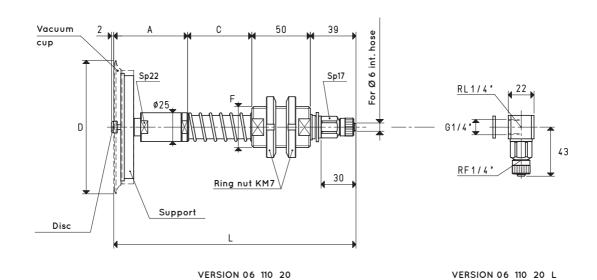
The actual springing stroke is:

- For height C= 55 mm 37 mm

- For height C= 110 mm 84 mm







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

C = 110 mm

Item	Force Kg	A	*C	D Ø	F Ø	L	For vacuum cup item	Support included item	Disc included item	Weight Kg	Weight Kg
06 110 20	23.74	65	55	114	M35 x 1.5	209	01 110 10	00 08 33	00 03 22	1.02	1.14

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

To order vacuum cup holders with L fittings, add the letter L to the code.

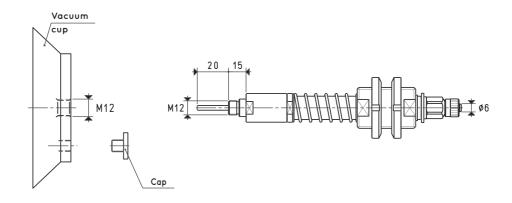
^{*} Also available with height C of 110 mm

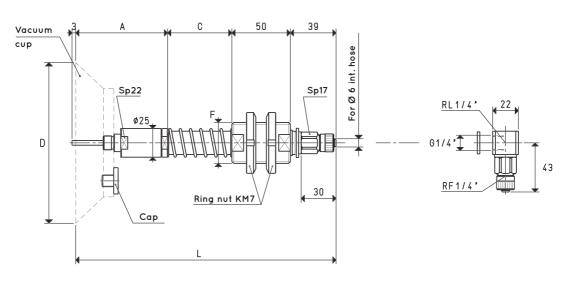


The actual springing stroke is:

- For height C= 55 mm For height C= 110 mm 37 mm
- 84 mm







VERSION 06 110 22

VERSION 06 110 22 L

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

C = 110 mm

Item	Force Kg	Α	*C	D Ø	F	L	For vacuum cup item	Cap included item	Weight Kg	Weight Kg
06 110 22	23.74	74	55	110	M35 x 1.5	218	08 110 15	00 11 06	1.48	1.56

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

To order vacuum cup holders with L fittings, add the letter L to the code.

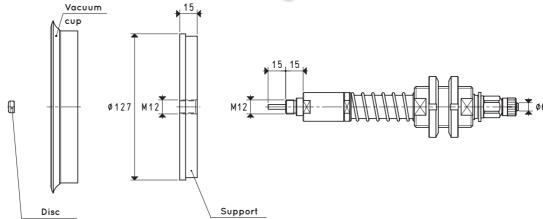
^{*} Also available with height C of 110 mm

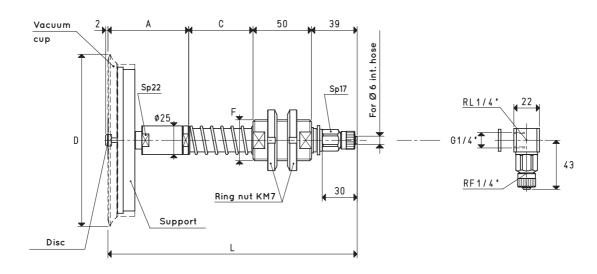












VERSION 06 150 20

VERSION 06 150 20 L

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

C = 110 mm

Item	Force Kg	A	*C	D Ø	F Ø	L	For vacuum cup item	Support included item	Disc included item	Weight Kg	Weight Kg
06 150 20	45.00	71	55	154	M35 x 1.5	215	01 150 10	00 08 35	00 03 22	1.43	1.52

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

To order vacuum cup holders with L fittings, add the letter L to the code.

^{*} Also available with height C of 110 mm



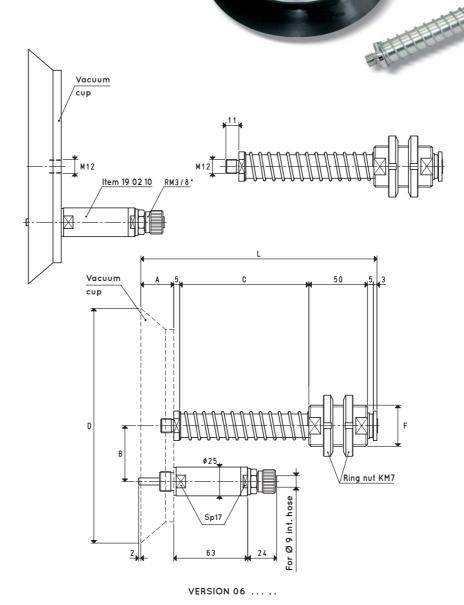
They share the same technical and mechanical features at the special vacuum cup holders. Their distinctive feature is the push valve on the cup support, which activates suction, and therefore creates vacuum, only when the cup is in contact with the load to be lifted.

With these cup holders, it is no longer necessary to install cocks on the suction hoses; for this reason, they are recommended in all those cases in which there is a chance that not all the cups come into contact with the load to be lifted (because of an uneven or incomplete load).

The same push valve can also be applied with no modification to the special articulated cup holders.

The actual springing stroke is:

- For height C= 55 mm 37 mm - For height C= 110 mm 84 mm



VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 9 X 12

C = 110 mm

ltem	Force Kg	Α	В	*C	D Ø	F Ø	L	For vacuum cup item	Weight Kg	Weight Kg
06 150 22	45.0	26	40.0	55	150	M35 x 1.5	144	08 150 15	1.68	1.80
06 200 20	78.5	28	47.5	55	200	M35 x 1.5	146	08 200 10	2.58	2.71
06 250 20	122.6	28	72.5	55	250	M35 x 1.5	146	08 250 10	3.84	3.97

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

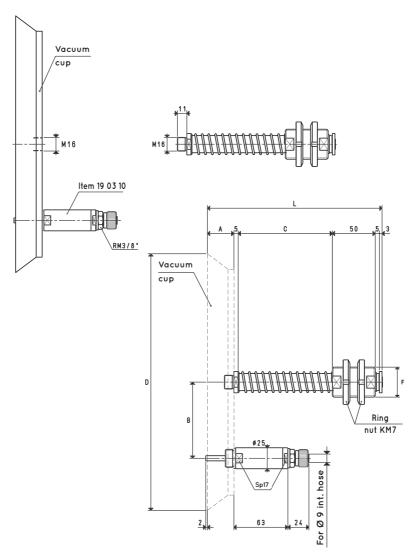
^{*} Also available with height C of 110 mm



The actual springing stroke is:

- For height C= 55 mm - For height C= 110 mm 84 mm





VERSION 06 ... 20

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 9 X 12

C = 110 mm

Item	Force Kg	A	В	*C	D Ø	F Ø	L	For vacuum cup item	Weight Kg	Weight Kg
06 300 20	176.6	31	89	55	300	M35 x 1.5	149	08 300 10	5.56	5.69
06 350 20	240.0	31	89	55	350	M35 x 1.5	149	08 350 10	7.42	7.55

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

^{*} Also available with height C of 110 mm



SPECIAL VACUUM CUP HOLDERS WITH BUILT-IN SHUT-OFF VALVE

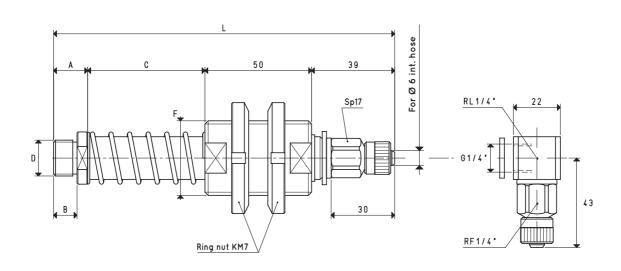
Along with all the other features they share with the other special cup holders, these also have a built-in shut-off valve.

The purpose of the shut-off valve is to automatically close suction when the cup is not in contact with the surface of the load to be handled or in case of a faulty grip or of considerable transpiration. This thus prevents the reduction of the level of vacuum on the remaining cups of the system which are regularly handling the load. The clear advantage of this system is that the positioning or the exclusion of the non-gripping cups are no longer binding. Cups with diameters between 85 mm and 150 mm can be assembled onto these cup holders, as long as they are provided with a threaded 3/8" gas female support.

The actual springing stroke is:

- For height C= 55 mm 37 mm - For height C= 110 mm 84 mm





VERSION 06 VERSION 06 L

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

Item	Α	В	С	D Ø	F Ø	L	Weight Kg
06 99 55	16	11	55	G3/8"	M35 x 1.5	160	0.63
06 99 110	16	11	110	G3/8"	M35 x 1.5	215	0.77

Minimum trigger flow = 4 m³/h

Minimum level of vacuum = -250 mbar

Note: To order vacuum cup holders with L fittings, add the letter L to the code.

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity)



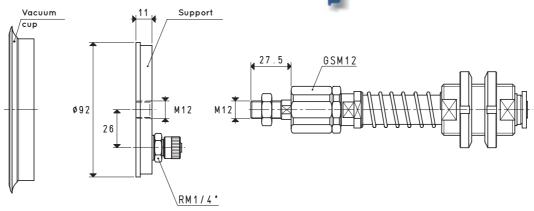
The distinctive feature of these cup holders is their articulated joint in hardened steel, which allows the flat cups installed on these cup holders to adapt themselves to the loads to be lifted even if not completely parallel with the cup plane, as well as to compensate possible verticality errors that can arise between the cup holder and the automation fixing support.

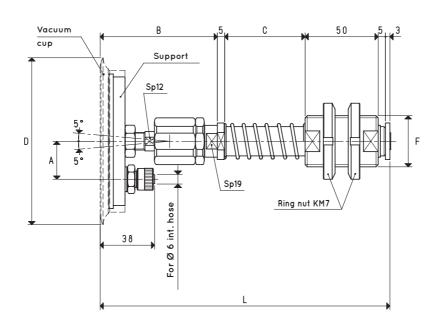
Their technical and mechanical features are the same as the other previously described special vacuum cup holders.

The actual springing stroke is:

- For height C= 55 mm 37 mm - For height C= 110 mm 84 mm







VERSION 06 110 12

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

C = 110 mm

Item	Force Kg	Α	В	*C	D Ø	F Ø	L	For vacuum cup item	Support included item	Weight Kg	Weight Kg
06 110 12	23.74	26	77	55	114	M35 x 1.5	195	01 110 10	00 06 14	1.15	1.27

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. inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6}$ = $\frac{Kg}{0.4536}$

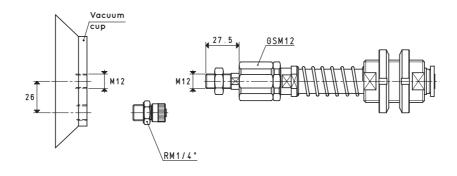
^{*} Also available with height C of 110 mm

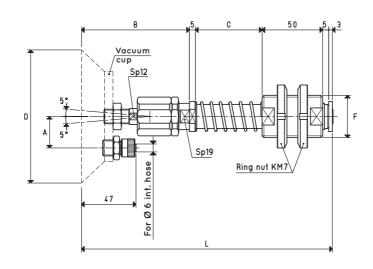


The actual springing stroke is:

- For height C= 55 mm 37 mm
- For height C= 110 mm 84 mm







VERSION 06 110 17

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

C = 110 mm

Item	Force Kg	Α	В	*C	D Ø	F Ø	L	For vacuum cup item	Weight Kg	Weight Kg
06 110 17	23.74	26	86	55	110	M35 x 1.5	204	08 110 15	1.22	1.34

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

^{*} Also available with height C of 110 mm

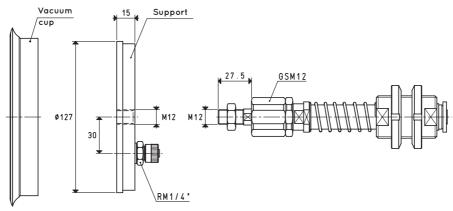


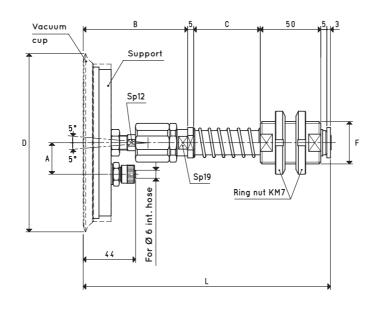
The actual springing stroke is:

- For height C= 55 mm 37 mm

- For height C= 110 mm 84 mm







VERSION 06 150 12

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

C = 110 mm

Item		Force Kg	Α	В	*C	D Ø	F Ø	L	For vacuum cup item	Support included item	Weight Kg	Weight Kg
06 150 1	12	45.00	30	83	55	154	M35 x 1.5	201	01 150 10	00 06 15	1.56	1.69

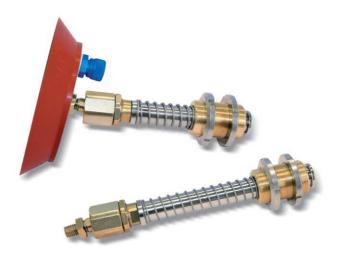
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.

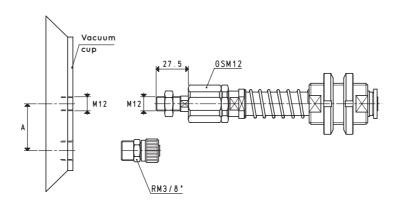
^{*} Also available with height C of 110 mm

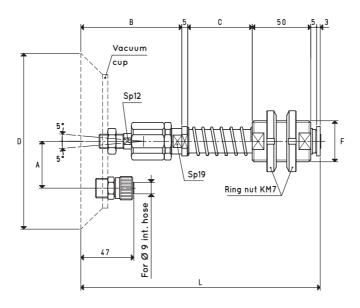


The actual springing stroke is:

- For height C= 55 mm For height C= 110 mm 37 mm
- 84 mm







VERSION 06

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 9 X 12

C = 110 mm

ltem	Force Kg	A	В	*C	D Ø	F Ø	L	For vacuum cup item	Weight Kg	Weight Kg
06 150 17	45.00	40.0	86	55	150	M35 x 1.5	204	08 150 15	1.73	1.85
06 200 12	78.50	47.5	88	55	200	M35 x 1.5	206	08 200 10	2.63	2.75
06 250 12	122.60	72.5	88	55	250	M35 x 1.5	206	08 250 10	3.89	4.02

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

^{*} Also available with height C of 110 mm

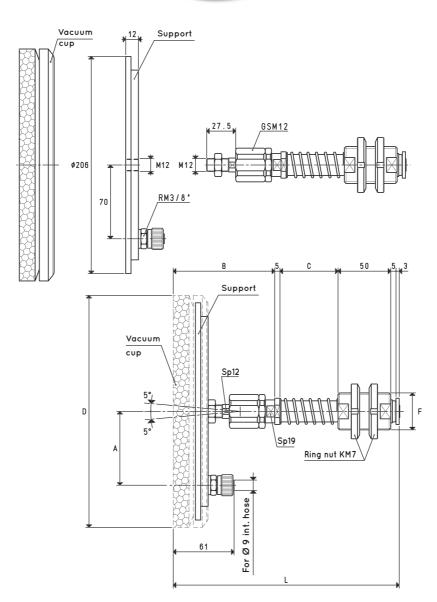
The actual springing stroke is:

- For height C= 55 mm 37 mm

- For height C= 110 mm 84 mm







VERSION 06 220 12 ...

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 9 X 12

C = 110 mm

Item	Force Kg	A	В	*C	D Ø	F Ø	L	For vacuum cup S item	Support included item	Weight Kg	Weight Kg
06 220 12 OF	63.60	70	97	55	220	M35 x 1.5	215	01 220 10 OF	00 08 37	2.08	2.21
06 220 12 NF	63.60	70	97	55	220	M35 x 1.5	215	01 220 10 NF	00 08 37	2.07	2.20

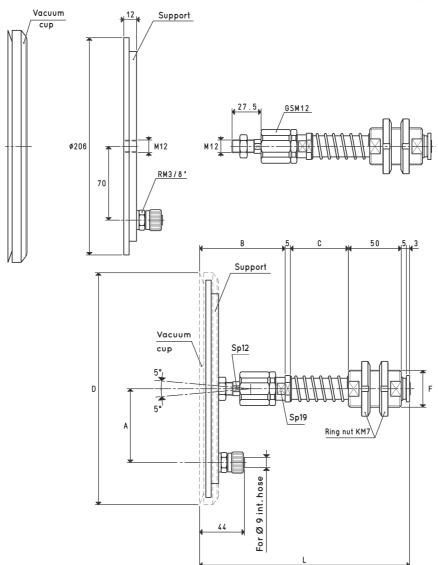
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.

^{*} Also available with height C of 110 mm









VERSION 06 220 12 A

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 9 X 12

C = 110 mm

Item	Force Kg	Α	В	*C	D	F Ø		For vacuum cup s	Support included item	Weight Kg	Weight Kg	
06 220 12 A	78.50	70	80	55	220	M35 x 1.5	198	01 220 10 A	00 08 37	2.03	2.16	

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

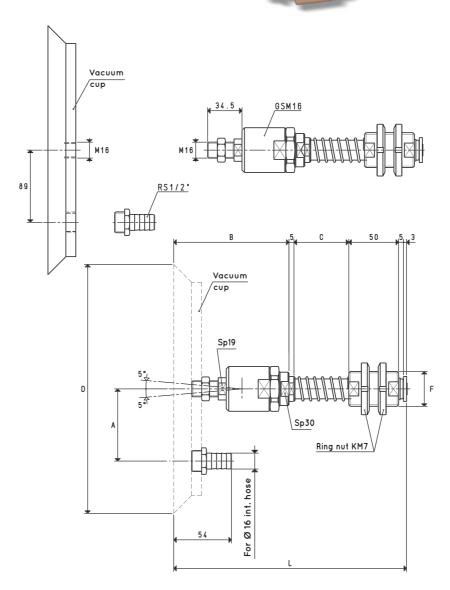
^{*} Also available with height C of 110 mm

The actual springing stroke is:

- For height C= 55 mm 37 mm

- For height C= 110 mm 84 mm





VERSION 06 ... 12

VACUUM CUP HOLDERS WITH HOSE-END FITTING FOR PLASTIC HOSE Ø 16 X 18

C = 110 mm

Item	Force Kg	A	В	*C	D Ø	F Ø	L	For vacuum cup item	Weight Kg	Weight Kg
06 300 12	176.6	89	115	55	300	M35 x 1.5	233	08 300 10	6.09	6.22
06 350 12	240.0	89	115	55	350	M35 x 1.5	233	08 350 10	7.95	8.08

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

^{*} Also available with height C of 110 mm



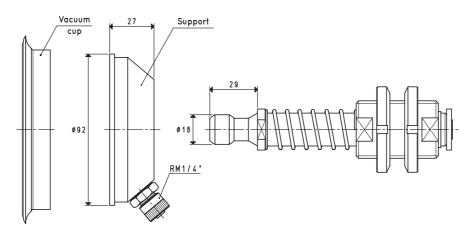
SPECIAL ARTICULATED VACUUM CUP HOLDERS WITHOUT GS ARTICULATED JOINT

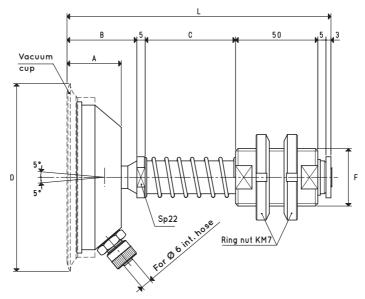
Unlike the ones previously described, these special articulated vacuum cup holders have an articulated joint housed in the cup support. This has allowed a reduction of the overall dimensions without affecting performance.

The actual springing stroke is:

- For height C= 55 mm 37 mm - For height C= 110 mm 84 mm







VERSION 06 110 32

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE \emptyset 6 X 8

C = 110 mm

ltem	Force Kg	Α	В	*C	D Ø	F Ø	L	For vacuum cup item	Support included item	Weight Kg	Weight Kg
06 110 32	23.74	33	42.5	55	114	M35 x 1.5	160.5	01 110 10	00 06 62	1.15	1.27

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

^{*} Also available with height C of 110 mm

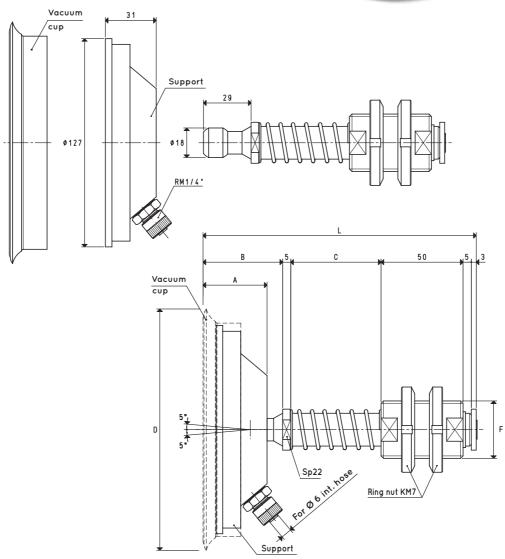
SPECIAL ARTICULATED VACUUM CUP HOLDERS WITHOUT GS ARTICULATED JOINT





- For height C= 55 mm 37 mm - For height C= 110 mm 84 mm





VERSION 06 150 32

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE \emptyset 6 X 8

C = 110 mm

ltem	Force Kg	Α	В	*C	D Ø	F Ø	L	For vacuum cup item	Support included item	Weight Kg	Weight Kg
06 150 32	45.00	39	48.5	55	154	M35 x 1.5	166.5	01 150 10	00 06 49	1.63	1.76

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

^{*} Also available with height C of 110 mm



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.

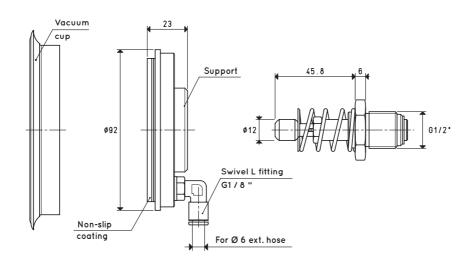
These special cup holders with compact stroke have been designed to minimise the lever forces between the cup and the automation fixing bush during the rotation of the sheets, as well as their sliding on the cups. They share all the technical features of the other previously described special cup holders 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.

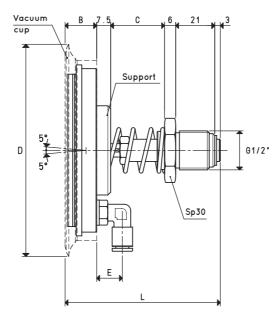
Moreover, a special non-slip plastic coating fixed onto the cup support prevents the lifted load from slipping.

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	В	С	D	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.

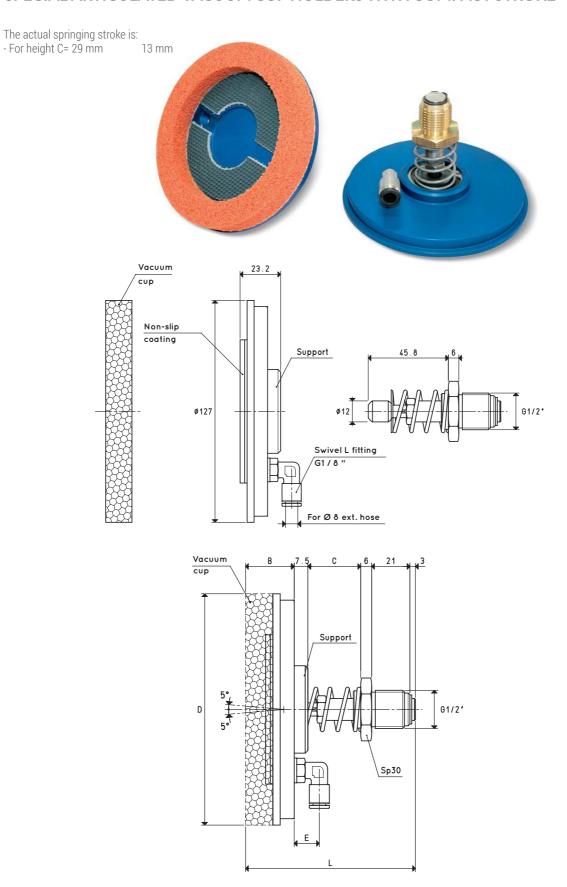
Note: The force of the vacuum cups indicated in the table represents 1/3 of the value of the theoretical force calculated at a level of vacuum of -75 KPa and a factor of safety 3.

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity)

inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6}$ = $\frac{Kg}{0.4536}$

SPECIAL ARTICULATED VACUUM CUP HOLDERS WITH COMPACT STROKE





VERSION 06 127 42

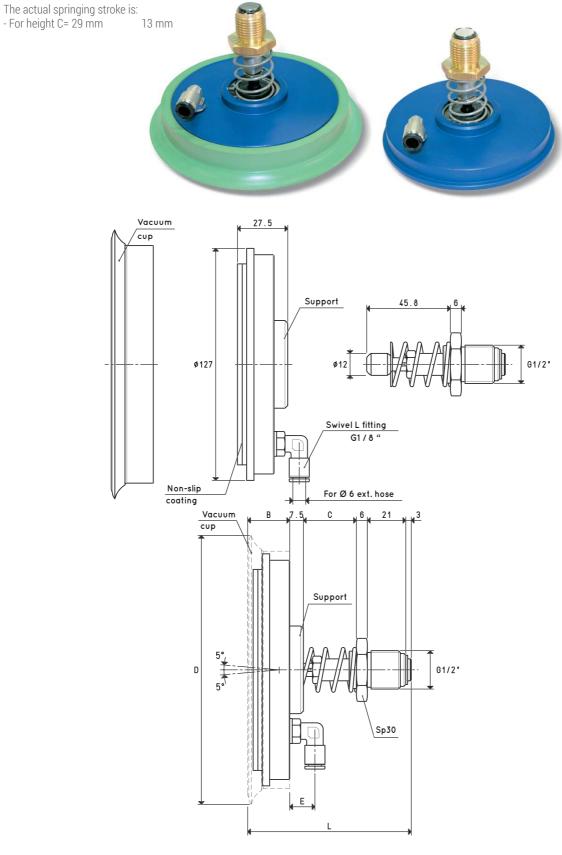
VACUUM CUP HOLDERS WITH L QUICK COUPLER FOR PLASTIC HOSE Ø 6 X 8

Item	Force Kg	В	С	D	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.



SPECIAL ARTICULATED VACUUM CUP HOLDERS WITH COMPACT STROKE



VERSION 06 150 42

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

VACOUNT COL 1	IOLDLING VVI	TITE QUICE	COOI LLICI	OKTEASTIC	TIOSE D T	Λ 0			
ltem	Force Kg	В	С	D	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.

SPECIAL STAINLESS STEEL ANTI-ROTATION VACUUM CUP HOLDERS



Designed for the robot-automotive sector, these cup holders offer ideal solutions to various handling problems that arise in all industrial sectors

In addition the characteristics of the previously described special vacuum cup holders, their distinctive features are their brass stem with hexagonal cross-section and the steel drive bush, also with hexagonal hole. This structure prevents the stem and, as a result, the cup assembled onto it from rotating on its axis.

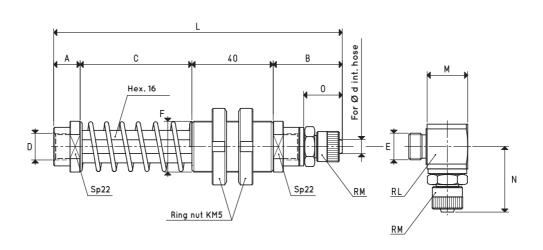
The drive bush is equipped with two fine thread ring nuts to guarantee an accurate fastening of the cup holder to the automation. Moreover, the two ends of the stem, also in stainless steel, are threaded male or female and interchangeable. The straight quick coupler for the connection to the suction hose is screwed to one end, while the cup with support is assembled onto the other end.

They are suited for cups with a diameter between 40 mm and 200 mm, although they are especially useful for the assembly of rectangular or elliptical vacuum cups.

The actual springing stroke is:

- For height C= 55 mm 37 mm - For height C= 110 mm 84 mm





VERSION 06

VERSION 06 L

VACUUM CUP HOLDERS WITH STRAIGHT OUICK COUPLER FOR PLASTIC HOSE

VACOUNI COI														
ltem	A	В	С	D Ø	d Ø	E Ø	F Ø	L	М	N	0	RL	RM	Weight g
06 55 80	13	34	55	G1/4"	6	G1/4"	M25 x 1.5	142	21.0	32.0	18.5	G1/4"	G1/4"	318
06 55 81	15	40	55	G3/8"	9	G3/8"	M25 x 1.5	150	21.5	35.5	22.0	G3/8"	G3/8"	330
06 55 82	15	34	55	G3/8"	6	G1/4"	M25 x 1.5	144	21.0	32.0	18.5	G1/4"	G1/4"	320
06 110 80	13	34	110	G1/4"	6	G1/4"	M25 x 1.5	197	21.0	32.0	18.5	G1/4"	G1/4"	386
06 110 81	15	40	110	G3/8"	9	G3/8"	M25 x 1.5	205	21.5	35.5	22.0	G3/8"	G3/8"	398
06 110 82	15	34	110	G3/8"	6	G1/4"	M25 x 1.5	199	21.0	32.0	18.5	G1/4"	G1/4"	388

Note: To order vacuum cup holders with L fittings, add the letter L to the code.

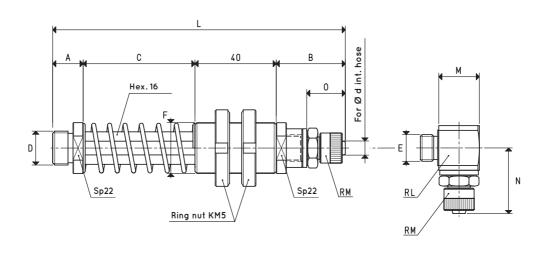


SPECIAL ANTI-ROTATION VACUUM CUP HOLDERS WITH MALE THREADED **CONNECTOR**

- The actual springing stroke is: For height C= 55 mm For height C= 110 mm 84 mm

37 mm





VERSION 06

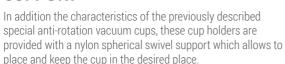
VERSION 06 L

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE

Item	Α	В	С	D Ø	d Ø	E Ø	F Ø	L	M	N	0	RL	RM	Weigh t
06 55 90	15	34	55	G1/4"	6	G1/4"	M25 x 1.5	144	21.0	32.0	18.5	G1/4"	G1/4"	314
06 55 91	15	34	55	G3/8"	6	G1/4"	M25 x 1.5	144	21.0	32.0	18.5	G1/4"	G1/4"	320
06 55 92	15	40	55	G3/8"	9	G3/8"	M25 x 1.5	150	21.5	35.5	22.0	G3/8"	G3/8"	330
06 55 93	15	40	55	G1/2"	9	G3/8"	M25 x 1.5	150	21.5	35.5	22.0	G3/8"	G3/8"	332
06 55 94	15	34	55	M12	6	G1/4"	M25 x 1.5	144	21.0	32.0	18.5	G1/4"	G1/4"	318
06 55 95	15	40	55	M12	9	G3/8"	M25 x 1.5	150	21.5	35.5	22.0	G3/8"	G3/8"	328
06 55 96	15	40	55	M16	9	G3/8"	M25 x 1.5	150	21.5	35.5	22.0	G3/8"	G3/8"	330
06 110 90	15	34	110	G1/4"	6	G1/4"	M25 x 1.5	199	21.0	32.0	18.5	G1/4"	G1/4"	374
06 110 91	15	34	110	G3/8"	6	G1/4"	M25 x 1.5	199	21.0	32.0	18.5	G1/4"	G1/4"	380
06 110 92	15	40	110	G3/8"	9	G3/8"	M25 x 1.5	205	21.5	35.5	22.0	G3/8"	G3/8"	390
06 110 93	15	40	110	G1/2"	9	G3/8"	M25 x 1.5	205	21.5	35.5	22.0	G3/8"	G3/8"	392
06 110 94	15	34	110	M12	6	G1/4"	M25 x 1.5	199	21.0	32.0	18.5	G1/4"	G1/4"	378
06 110 95	15	40	110	M12	9	G3/8"	M25 x 1.5	205	21.5	35.5	22.0	G3/8"	G3/8"	388
06 110 96	15	40	110	M16	6	G3/8"	M25 x 1.5	205	21.5	35.5	22.0	G3/8"	G3/8"	390

Note: To order vacuum cup holders with L fittings, add the letter L to the code.

SPECIAL ANTI-ROTATION VACUUM CUP HOLDERS WITH SPHERICAL SWIVEL SUPPORT



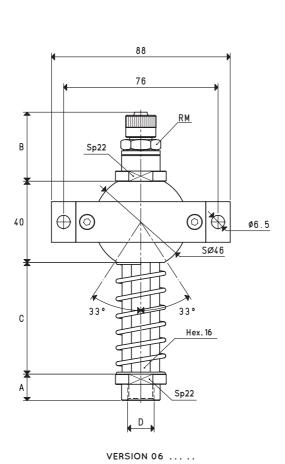
Their fixing support is made with aluminium and is composed of two parts that, screwed together, allow to block the spherical joint, thus keeping the vacuum cup holder in place.

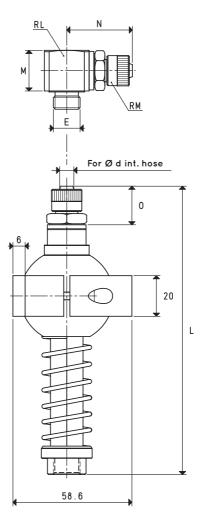
They are suited for cups with a diameter between 40 mm and 200 mm, although they are especially useful for the assembly of rectangular or elliptical vacuum cups.

The actual springing stroke is:

- For height C= 55 mm 37 mm - For height C= 110 mm 84 mm







VERSION 06 L

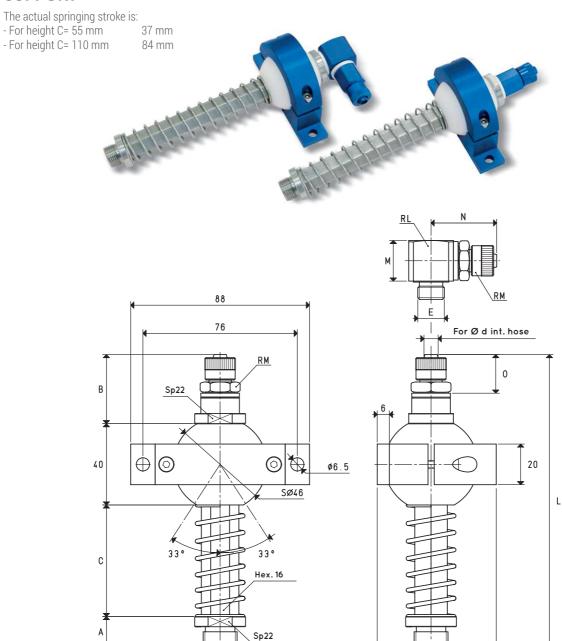
VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE

Item	A	В	С	D Ø	d Ø	E Ø	L	М	N	0	RL	RM	Weight g
06 55 100	13	34	55	G1/4"	6	G1/4"	142	21.0	32.0	18.5	G1/4"	G1/4"	338
06 55 101	15	40	55	G3/8"	9	G3/8"	150	21.5	35.5	22.0	G3/8"	G3/8"	350
06 55 102	15	34	55	G3/8"	6	G1/4"	144	21.0	32.0	18.5	G1/4"	G1/4"	340
06 110 100	13	34	110	G1/4"	6	G1/4"	197	21.0	32.0	18.5	G1/4"	G1/4"	406
06 110 101	15	40	110	G3/8"	9	G3/8"	205	21.5	35.5	22.0	G3/8"	G3/8"	418
06 110 102	15	34	110	G3/8"	6	G1/4"	199	21.0	32.0	18.5	G1/4"	G1/4"	408

Note: To order vacuum cup holders with L fittings, add the letter L to the code.



SPECIAL ANTI-ROTATION VACUUM CUP HOLDERS WITH SPHERICAL SWIVEL **SUPPORT**



VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE

VERSION 06

Item	A	В	С	D Ø	d Ø	E ∅	L	М	N	0	RL	RM	Weight g
06 55 110	15	34	55	G1/4"	6	G1/4"	144	21.0	32.0	18.5	G1/4"	G1/4"	334
06 55 111	15	34	55	G3/8"	6	G1/4"	144	21.0	32.0	18.5	G1/4"	G1/4"	340
06 55 112	15	40	55	G3/8"	9	G3/8"	150	21.5	35.5	22.0	G3/8"	G3/8"	350
06 55 113	15	40	55	G1/2"	9	G3/8"	150	21.5	35.5	22.0	G3/8"	G3/8"	352
06 55 114	15	34	55	M12	6	G1/4"	144	21.0	32.0	18.5	G1/4"	G1/4"	338
06 55 115	15	40	55	M12	9	G3/8"	150	21.5	35.5	22.0	G3/8"	G3/8"	348
06 55 116	15	40	55	M16	9	G3/8"	150	21.5	35.5	22.0	G3/8"	G3/8"	350
06 110 110	15	34	110	G1/4"	6	G1/4"	199	21.0	32.0	18.5	G1/4"	G1/4"	394
06 110 111	15	34	110	G3/8"	6	G1/4"	199	21.0	32.0	18.5	G1/4"	G1/4"	400
06 110 112	15	40	110	G3/8"	9	G3/8"	205	21.5	35.5	22.0	G3/8"	G3/8"	410
06 110 113	15	40	110	G1/2"	9	G3/8"	205	21.5	35.5	22.0	G3/8"	G3/8"	412
06 110 114	15	34	110	M12	6	G1/4"	199	21.0	32.0	18.5	G1/4"	G1/4"	398
06 110 115	15	40	110	M12	9	G3/8"	205	21.5	35.5	22.0	G3/8"	G3/8"	408
06 110 116	15	40	110	M16	9	G3/8"	205	21.5	35.5	22.0	G3/8"	G3/8"	410

58.6

VERSION 06 L

Note: To order vacuum cup holders with L fittings, add the letter L to the code.



All the special vacuum cup holders previously described can be provided in the double springing version.

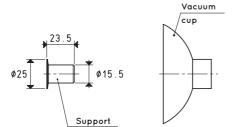
The cup holder fixing bush is located between two springs: the lower one cushions the impact of the cup with the load to be lifted during the approach phase, while the upper one cushions the impact of the bush with the cup holder end and gradually loads the cup during the lifting phase.

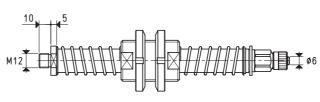
These cup holders are especially recommended when the load to be lifted is very heavy, rough or not perfectly flat.

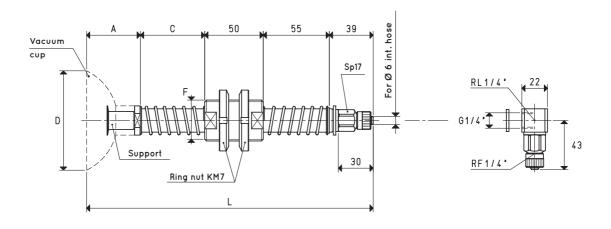
The actual springing stroke is:

- For height C= 55 mm 37 mm - For height C= 110 mm 84 mm









VERSION 06 85 13

VERSION 06 85 13 L

VACOUM COP I	HOLDERS V	WIIHSI	KAIGHT QU	ICK CO	UPLEK FOR P	LASTIC	HOSE Ø 6 X 8			C - 110 IIIIII
Item	Force Kg	A	*C	D Ø	F Ø	L	For vacuum cup item	Support included item	Weight Kg	Weight Kg
06 85 13	14.18	46	55	85	M35 x 1.5	245	01 85 10	00 08 29	0.87	0.99

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

To order vacuum cup holders with L fittings, add the letter L to the code.

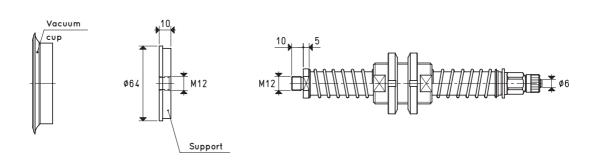
Note: The force of the vacuum cups indicated in the table represents 1/3 of the value of the theoretical force calculated at a level of vacuum of -75 KPa and a factor of safety 3. Transformation ratio: N (newton) = Kg x 9.81 (force of gravity)

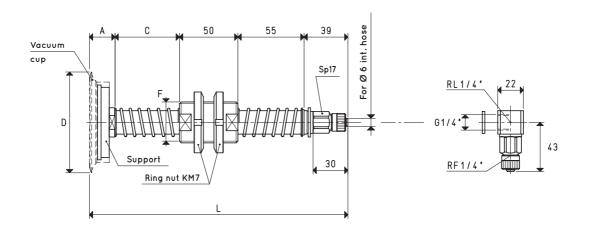
^{*} Also available with height C of 110 mm

The actual springing stroke is:

- For height C= 55 mm 37 mm - For height C= 110 mm 84 mm







VERSION 06 85 17

VERSION 06 85 17 L

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE \emptyset 6 X 8

C = 110 mm

Item	Force Kg	Α	*C	D Ø	F Ø	L	For vacuum cup item	Support included item	Weight Kg	Weight Kg
06 85 17	14.18	22	55	85	M35 x 1.5	221	01 85 15	00 08 32	0.90	1.04

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

To order vacuum cup holders with L fittings, add the letter L to the code.

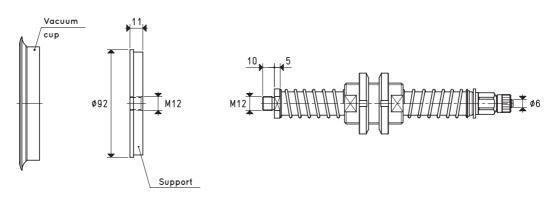
^{*} Also available with height C of 110 mm

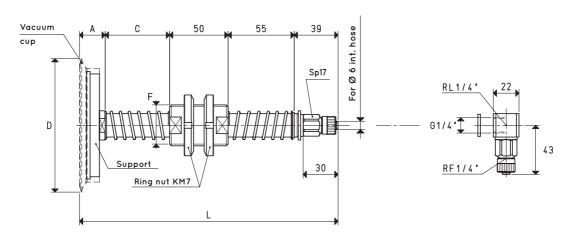


The actual springing stroke is:

- For height C= 55 mm 37 mm - For height C= 110 mm 84 mm







VERSION 06 110 13

VERSION 06 110 13 L

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

C = 110 mm

Item	Force Kg	A	*C	D Ø	F Ø	L	For vacuum cup item	Support included item	Weight Kg	Weight Kg
06 110 13	23.74	22	55	114	M35 x 1.5	221	01 110 10	00 08 33	1.05	1.18

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

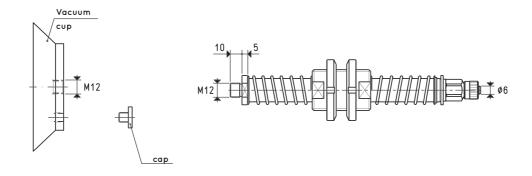
To order vacuum cup holders with L fittings, add the letter L to the code.

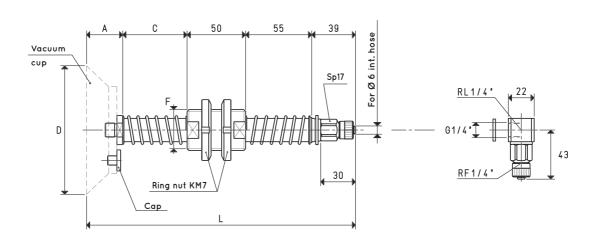
^{*} Also available with height C of 110 mm



The actual springing stroke is:

- For height C= 55 mm For height C= 110 mm 37 mm 84 mm





VERSION 06 110 16

VERSION 06 110 16 L

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

VACUUM CUP	HOLDERS \	VITH ST	RAIGHT QU	JICK CO	UPLER FOR F	PLASTIC	HOSE Ø 6 X 8			C = 110 mm
Item	Force Kg	A	*C	D Ø	F Ø	L	For vacuum cup item	Cap included item	Weight Kg	Weight Kg
06 110 16	23.74	31	55	110	M35 x 1.5	230	08 110 15	00 11 06	1.12	1.25

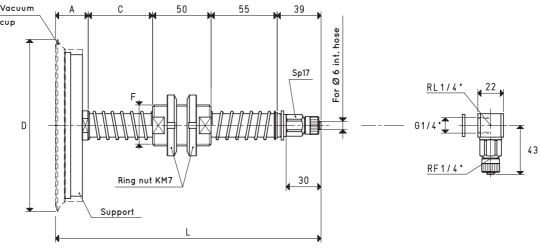
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.

To order vacuum cup holders with L fittings, add the letter L to the code.

^{*} Also available with height C of 110 mm



The actual springing stroke is: - For height C= 55 mm 37 mm - For height C= 110 mm 84 mm Vacuum cup Ø127 Support Vacuum 50 cup Ø 6 int. hose Sp17 RL1/4° For



VERSION 06 150 13

VERSION 06 150 13 L

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

Weight	Weight
Kg	Kg
1.46	1 50

C = 110 mm

D Force For vacuum cup Support included Item Kg Ø Ø item item 06 150 13 45.00 154 M35 x 1.5 01 150 10 00 08 35 28 227 1.58

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

To order vacuum cup holders with L fittings, add the letter L to the code.

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

^{*} Also available with height C of 110 mm

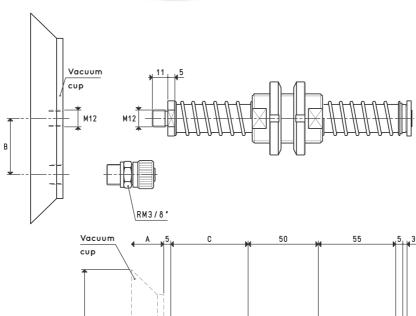


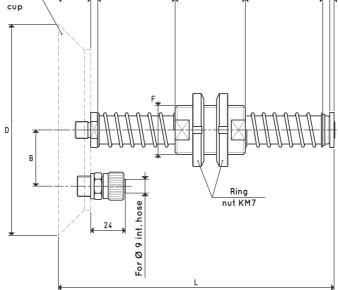
The actual springing stroke is:

- For height C= 55 mm - For height C= 110 mm

84 mm







VERSION 06

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 9 X 12

C = 110 mm

Item	Force Kg	Α	В	*C	D Ø	F Ø	L	For vacuum cup item	Weight Kg	Weight Kg
06 150 18	45.0	26	40.0	55	150	M35 x 1.5	199	08 150 15	1.65	1.79
06 200 13	78.5	28	47.5	55	200	M35 x 1.5	201	08 200 10	2.55	2.69
06 250 13	122.6	28	72.5	55	250	M35 x 1.5	201	08 250 10	3.82	3.96

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

^{*} Also available with height C of 110 mm

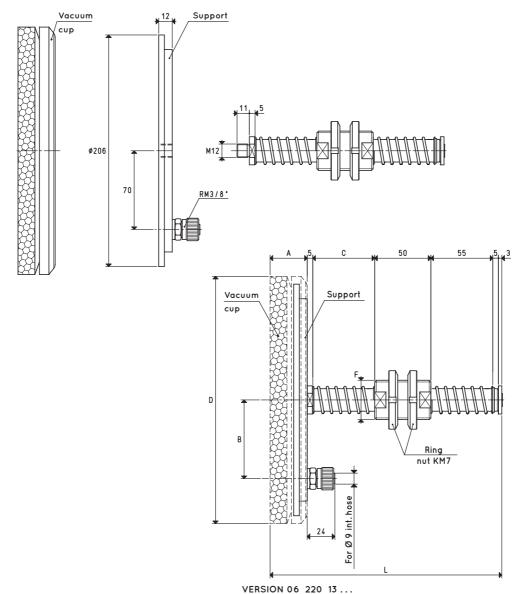




- For height C= 55 mm 37 mm







VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 9 X 12

C = 110 mm

Item	Force Kg	A	В	*C	D Ø	F Ø	L	For vacuum cup item	Support included item	Weight Kg	Weight Kg
06 220 13 OF	63.6	35	70	55	220	M35 x 1.5	208	01 220 10 OF	00 08 37	2.01	2.15
06 220 13 NF	63.6	35	70	55	220	M35 x 1.5	208	01 220 10 NF	00 08 37	2.00	2.14

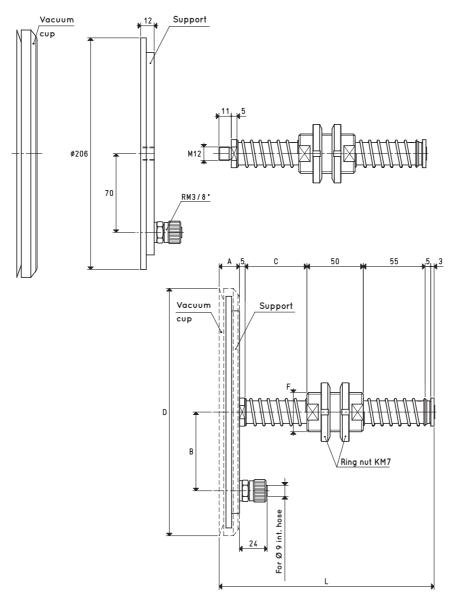
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.

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

^{*} Also available with height C of 110 mm







VERSION 06 220 13 A

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 9 X 12

C = 110 mm

ltem	Force Kg	Α	В	*C	D Ø	F Ø	L	For vacuum cup item	Support included item	Weight Kg	Weight Kg
06 220 13 A	78.5	20	70	55	220	M35 x 1.5	193	01 220 10 A	00 08 37	1.96	2.09

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

^{*} Also available with height C of 110 mm

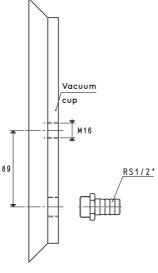


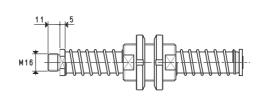
The actual springing stroke is:

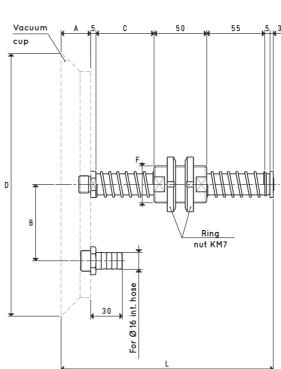
- For height C= 55 mm 37 mm

- For height C= 110 mm 84 mm









VERSION 06 ... 13

VACUUM CUP HOLDERS WITH HOSE-END FITTING FOR PLASTIC HOSE Ø 16 X 18

C = 110 mm

Item	Force Kg	A	В	*C	D Ø	F Ø	L	For vacuum cup item	Weight Kg	Weight Kg
06 300 13	176.6	31	89	55	300	M35 x 1.5	204	08 300 10	5.57	5.70
06 350 13	240.0	31	89	55	350	M35 x 1.5	204	08 350 10	7.43	7.57

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)

^{*} Also available with height C of 110 mm



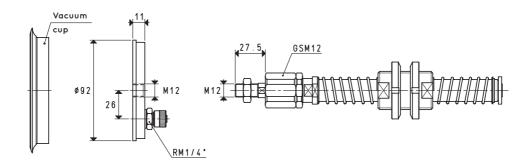
The distinctive feature of these cup holders is their articulated joint in hardened steel, which allows the flat cups installed on these cup holders to adapt themselves to the loads to be lifted even if not completely parallel with the cup plane, as well as to compensate possible verticality errors that can arise between the cup holder and the automation fixing support.

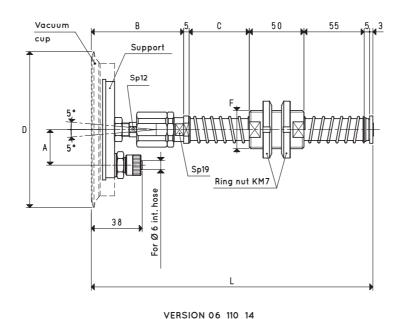
The cup holder fixing bush is located between two springs: the lower one cushions the impact of the cup with the load to be lifted during the approach phase, while the upper one cushions the impact of the bush with the cup holder end and gradually loads the cup during the lifting phase.

These cup holders are especially recommended when the load to be lifted is very heavy, rough or not perfectly flat. The actual springing stroke is:

- For height C= 55 mm 37 mm - For height C= 110 mm 84 mm







VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE \emptyset 6 X 8

C = 110 mm

Item	Force Kg	Α	В	*C	D Ø	F Ø	L	For vacuum cup item	Support included item	Weight Kg	Weight Kg
06 110 14	23.74	26	77	55	114	M35 x 1.5	250	01 110 10	00 06 14	1.29	1.39

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

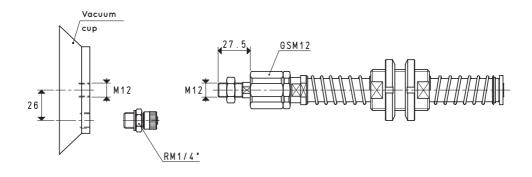
^{*} Also available with height C of 110 mm

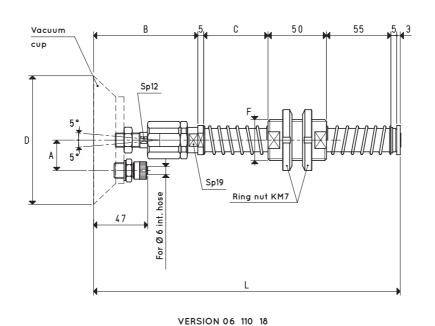


The actual springing stroke is:

- For height C= 55 mm 37 mm - For height C= 110 mm 84 mm







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

C = 110 mm

Item	Force Kg	Α	В	*C	D Ø	F Ø	L	For vacuum cup item	Weight Kg	Weight Kg
06 110 18	23.74	26	86	55	110	M35 x 1.5	259	08 110 15	1.36	1.46

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

^{*} Also available with height C of 110 mm

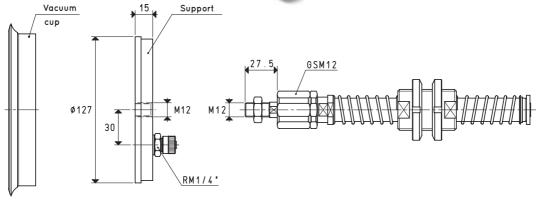


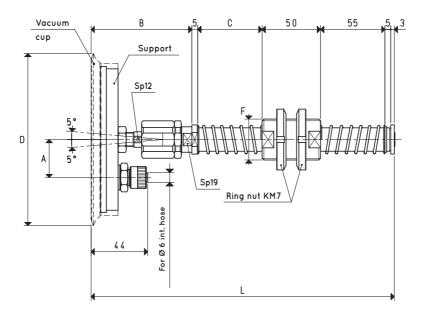
The actual springing stroke is:

- For height C= 55 mm - For height C= 110 mm

37 mm 84 mm







VERSION 06 150 14

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

C = 110 mm

Item	Force Kg	Α	В	*C	D Ø	F Ø	L	For vacuum cup item	Support included item	Weight Kg	Weight Kg
06 150 14	45.00	30	83	55	154	M35 x 1.5	256	01 150 10	00 06 15	1.71	1.81

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

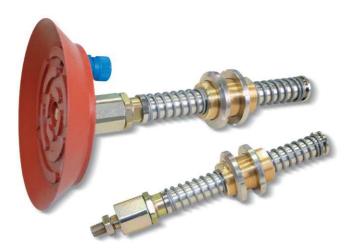
Note: The force of the vacuum cups indicated in the table represents 1/3 of the value of the theoretical force calculated at a level of vacuum of -75 KPa and a factor of safety 3. inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6}$ = $\frac{Kg}{0.4536}$ Transformation ratio: N (newton) = Kg x 9.81 (force of gravity)

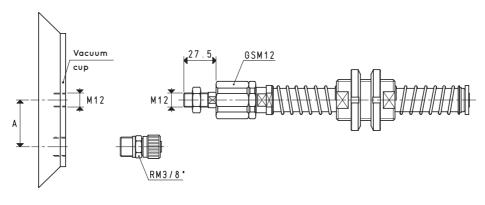
^{*} Also available with height C of 110 mm

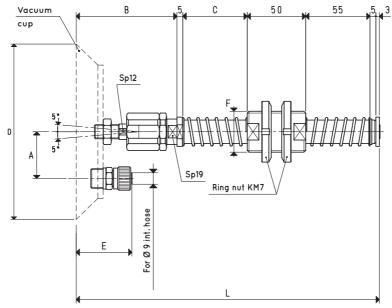


The actual springing stroke is:

- For height C= 55 mm 37 mm
- For height C= 110 mm 84 mm







VERSION 06

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 9 X 12

C = 110 mm

ltem	Force Kg	A	В	*C	D Ø	E	F Ø	L	For vacuum cup item	Weight Kg	Weight Kg
06 150 19	45.00	40.0	86	55	150	50	M35 x 1.5	259	08 150 15	1.86	1.97
06 200 14	78.50	47.5	88	55	200	52	M35 x 1.5	261	08 200 10	2.77	2.87
06 250 14	122.60	72.5	88	55	250	52	M35 x 1.5	261	08 250 10	4.03	4.14

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

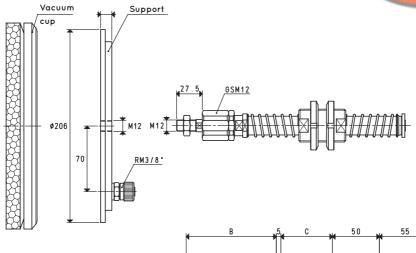
^{*} Also available with height C of 110 mm

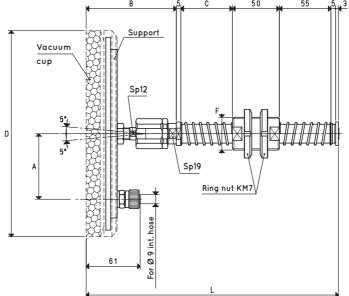


The actual springing stroke is:

- For height C= 55 mm 37 mm
- For height C= 110 mm 84 mm







VERSION 06 220 14 ...

VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 9 X 12

C = 110 mm

Item	Force Kg	Α	В	*C	D Ø	F Ø	L	For vacuum cup item	Support included item	Weight Kg	Weight Kg
06 220 14 OF	63.6	70	97	55	220	M35 x 1.5	270	01 220 10 OF	00 08 37	2.22	2.32
06 220 14 NF	63.6	70	97	55	220	M35 x 1.5	270	01 220 10 NF	00 08 37	2.21	2.31

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

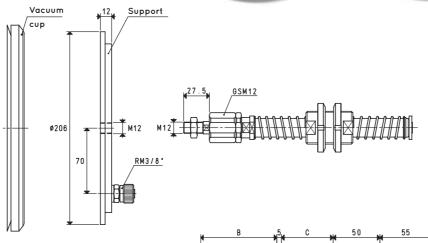
^{*} Also available with height C of 110 mm

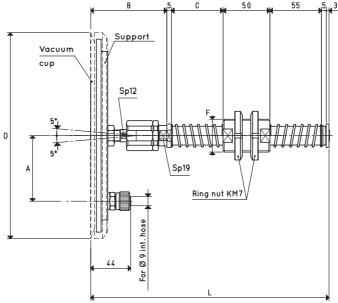


The actual springing stroke is:

- For height C= 55 mm 37 mm - For height C= 110 mm 84 mm







VERSION 06 220 14 A

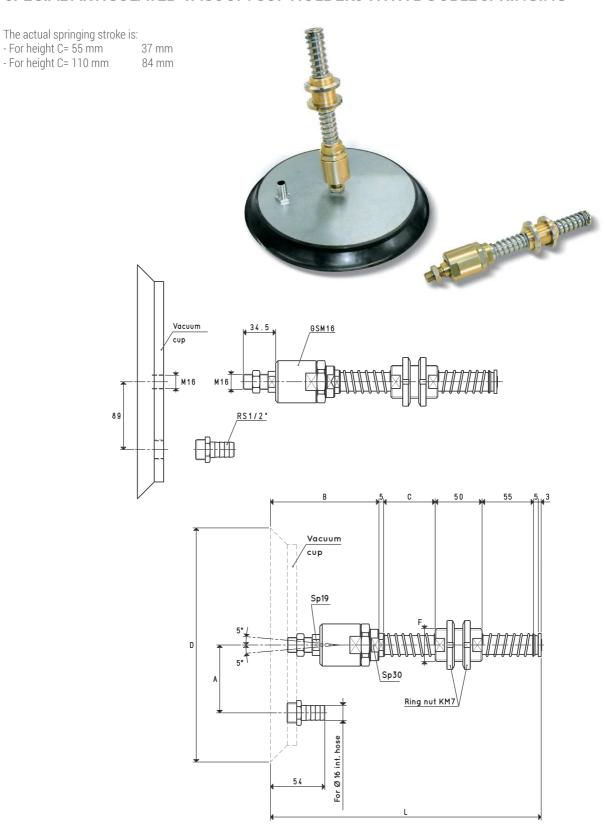
VACUUM CUP HOLDERS WITH STRAIGHT QUICK COUPLER FOR PLASTIC HOSE Ø 9 X 12

C = 110 mm

Item	Force Kg	A	В	*C	D Ø	F Ø	L	For vacuum cup item	Support included item	Weight Kg	Weight Kg
06 220 14 A	78.5	70	80	55	220	M35 x 1.5	253	01 220 10 A	00 08 37	2.17	2.27

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

^{*} Also available with height C of 110 mm



VERSION 06 ... 14

VACUUM CUP HOLDERS WITH HOSE-END FITTING FOR PLASTIC HOSE Ø 16 X 18

C = 110 mm

Item	Force Kg	A	В	*C	D Ø	F Ø	L	For vacuum cup item	Weight Kg	Weight Kg
06 300 14	176.6	89	115	55	300	M35 x 1.5	288	08 300 10	6.24	6.63
06 350 14	240.0	89	115	55	350	M35 x 1.5	288	08 350 10	8.10	8.22

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

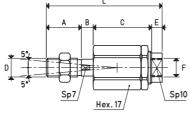
^{*} Also available with height C of 110 mm

SPHERICAL ARTICULATED JOINTS

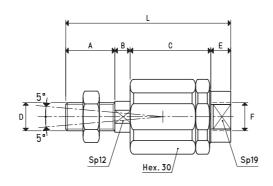


Our spherical articulated joints are made with hardened steel. Assembled to the cup holders, they compensate offsets, orthogonality and flatness errors that often arise between the cups and the surface of the load to be lifted.

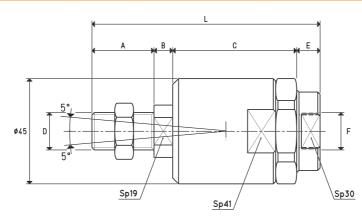




Item	A	В	С	D Ø	E	F Ø	L	Weight g
GSM8	15	5	25	M8	4.5	M8	49.5	55



Item	A	В	С	D Ø	E	F Ø	L	Weight g
GSM12	21	6.5	34.5	M12	8.5	M12	70.5	220



Item	A	В	С	D Ø	E	F Ø	L	Weight g
GSM16	26.5	8	53	M16	10	M16	97.5	670



BALL JOINT COUPLINGS WITH AXIAL VACUUM CONNECTION

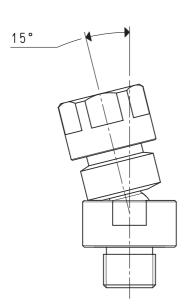
This series of couplings was designed to be installed on suckers with support, especially those that are flat or that have little lip, in order to allow them to easily adapt to the gripping surface of the load to be picked up, even if not perfectly parallel to the plane of the sucker itself or to compensate for any perpendicularity errors that often occur between the sucker holder and the fixing support of the automation. The vacuum connection is axial and the hold is guaranteed by a special seal, always in contact with the ball joint.

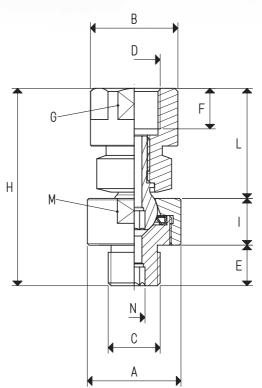
The sucker installed on them is free to rotate 360° degrees on its axis and to tilt up to 15°.

The couplings are made entirely of brass, except for the ball pin and its retention nut which are made of stainless steel.

They can be fastened to the sucker using either the female or male threaded connection.







BALL JOINT COUPLINGS WITH AXIAL VACUUM CONNECTION

Item	A Ø	B Ø	C Ø	D Ø	E	F	G hex	Н	I	L	M wr.	N hex	Material	Max load admissible Kg	Weight g
GSL 1/8"	20	12	G1/8"	G1/8"	8.5	8	11	43.0	12	22.5	18	4	brass/stainless steel	10.5	40
GSL 1/4"	20	16	G1/4"	G1/4"	10.0	8	15	44.6	12	22.6	18	4	brass/stainless steel	19.6	56
GSL 3/8"	30	28	G3/8"	G3/8"	13.0	13	26	63.3	15	35.3	28	6	brass/stainless steel	33.4	206
GSL 1/2"	30	28	G1/2"	G1/2"	17.0	15	26	72.3	15	40.3	28	6	brass/stainless steel	51.5	232

2

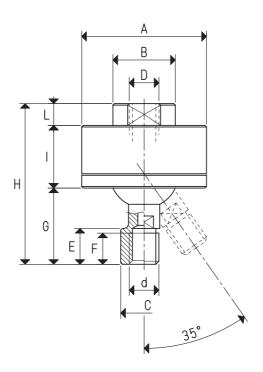
3D drawings are available on vuototecnica.net

POSITIONABLE BALL JOINT COUPLINGS WITH AXIAL VACUUM CONNECTION



The positionable ball joints couplings in anodised aluminium allow the installed vacuum cups to be rotated 360° and to be tilted by up to 35° in order to properly position them with respect to the gripping surface on the object to be handled, while at the same time ensuring a perfect grip and proper suction through the joint itself.





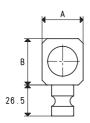
POSITIONABLE BALL JOINT COUPLINGS WITH AXIAL VACUUM CONNECTION

ltem	A Ø	B Ø	C Ø	D Ø	d Ø	E	F	G	Н	I	L	Material	Max load admissible Kg	Weight g
GSV 1/8"	40	20		G1/8"	G1/8"	11.5	10	24.5	51.5	20	7	aluminium	18.24	77.6
GSV 1/4"	45	25		G1/4"	G1/4"	14.5	12	28.5	60.5	25	7	aluminium	23.54	126.7
GSV 3/8"	50	30		G3/8"	G3/8"	14.0	12	34.5	69.5	25	10	aluminium	33.91	171.2
GSVF 1/8"	40	20	15	G1/8"	G1/8"	11.5	10	24.5	51.5	20	7	aluminium	18.24	80.4
GSVF 1/4"	45	25	20	G1/4"	G1/4"	14.5	12	28.5	60.5	25	7	aluminium	23.54	129.2
GSVF 3/8"	50	30	21	G3/8"	G3/8"	17.0	12	34.5	69.5	25	10	aluminium	33.91	167.6



VACUUM CUP HOLDER FIXING SUPPORTS

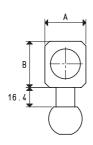
The first two supports shown in this page are made with stainless steel and are suited for fastening the cup holder to the machine by means of a slotted cylindrical pin or a spherical pin housed in the automation. The third support, on the other hand, is made with aluminium and it is composed of two parts that, screwed together, block the spherical joint, allowing to keep the cup holder in the desired position.

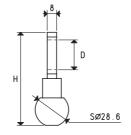




SUPPORTS WITH SLOTTED CYLINDRICAL PIN

Item	Α	В	D Ø	Н	By vacuum cup holders	Weight g
00 FCH 10	35	39.5	25.5	79.5	special anti-rotation	102
00 FCH 11	30	33.5	20.5	73.5	basic	90

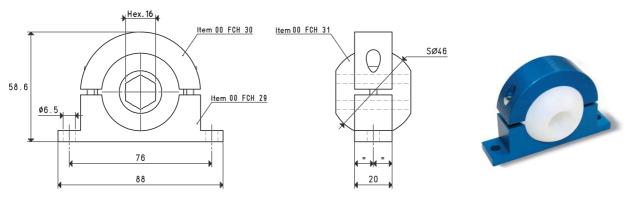






SUPPORTS WITH SPHERICAL PIN

Item	Α	В	D Ø	Н	By vacuum cup holders	Weight g
00 FCH 20	35	39.5	25.5	79.5	special anti-rotation basic	168
00 FCH 21	30	33.5	20.5	73.5		154



SUPPORTS WITH BUILT-IN BALL JOINT COUPLING

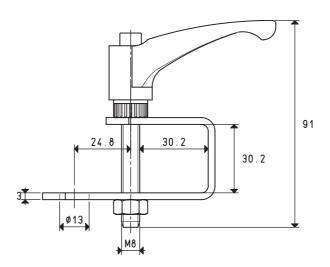
Item	By vacuum cup holders	Weight g
FCH 16	special anti-rotation	156

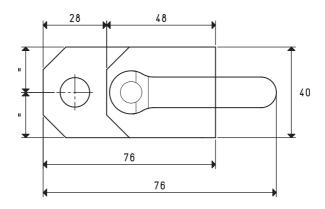
VACUUM CUP HOLDER FIXING SUPPORTS



The supports described in the following in these pages are made with galvanised sheet steel and they are used to fasten the various types of cup holders to the automation, generally made up of a square tube frame. The screw or the handle with which they are equipped quickly block the support in position.

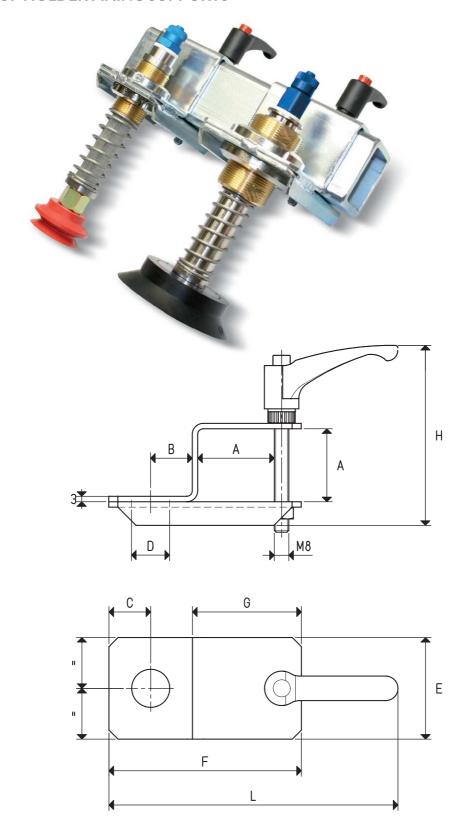






Item	Tube cross-sect. ☑	By vacuum cup holders	Weight g
SFP 01	30	mini	160





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Item	Tube cross-sect.	Α	В	С	D Ø	E	F	G	Н	L	By vacuum cup holders	Weight g
SFP 02	40	40.2	23	23	21	56	106	60	99	159	basic	350
SFP 03	40	40.2	23	23	25	56	106	60	99	159	special anti-rotation	338
SFP 04	40	40.2	30	30	36	70	120	60	99	173	special	438
SFP 05	50	50.2	23	23	21	56	116	70	109	169	basic	370
SFP 06	50	50.2	23	23	25	56	116	70	109	169	special anti-rotation	377
SFP 07	50	50.2	30	30	36	70	130	70	109	183	special	490