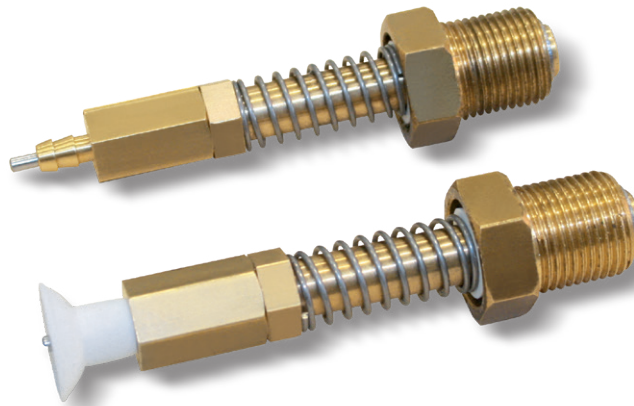


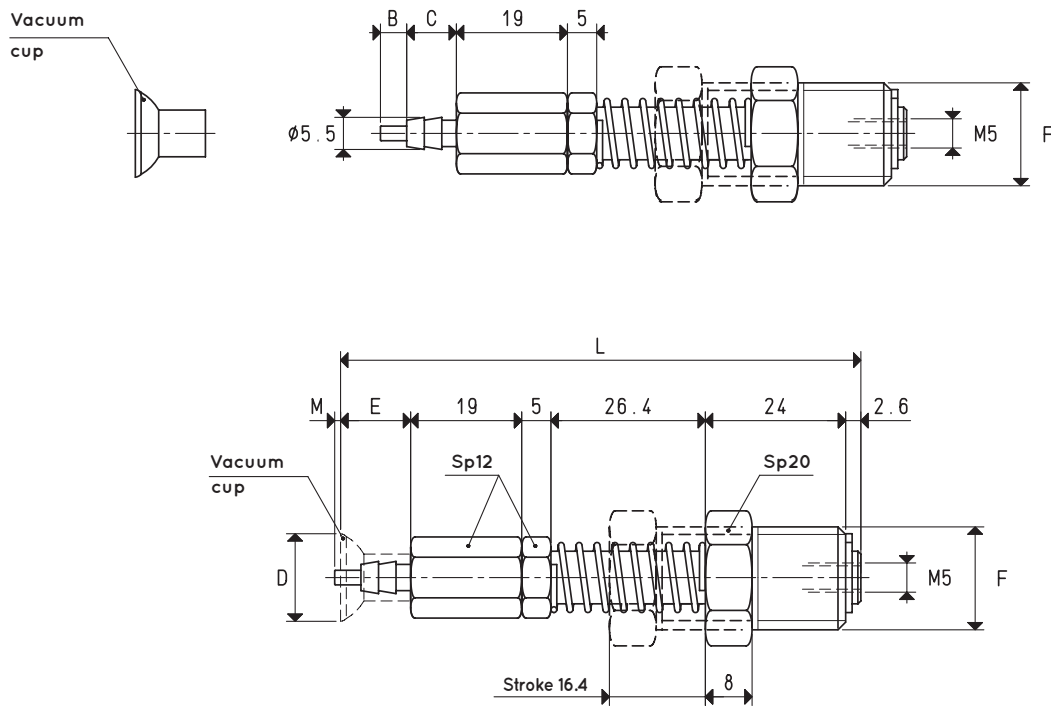


MINI VACUUM CUP HOLDERS WITH PLUNGER VALVE AND BUILT-IN BUSH

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.



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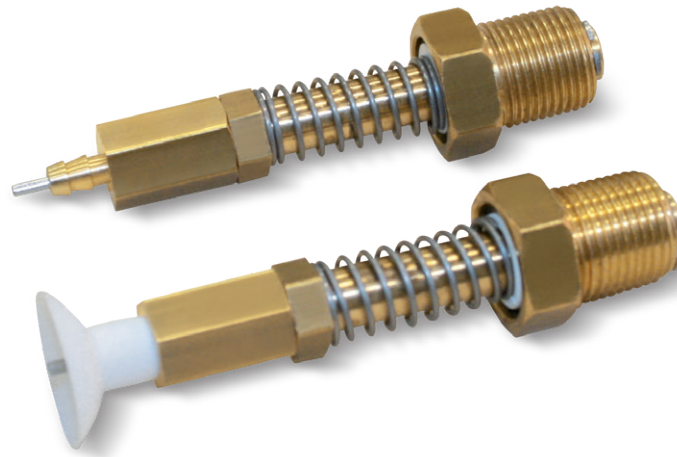


Item	Force Kg	B	C	D Ø	E	F Ø	L	M	For vacuum cup item	Weight g
20 12 65	0.28	4.5	8.5	12	11	G3/8"	88	2	01 12 10	76.6
20 15 65	0.44	4.5	8.5	15	12	G3/8"	88	1	01 15 10	76.7
20 18 65	0.63	4.5	8.5	18	12	G3/8"	88	1	01 18 10	76.7

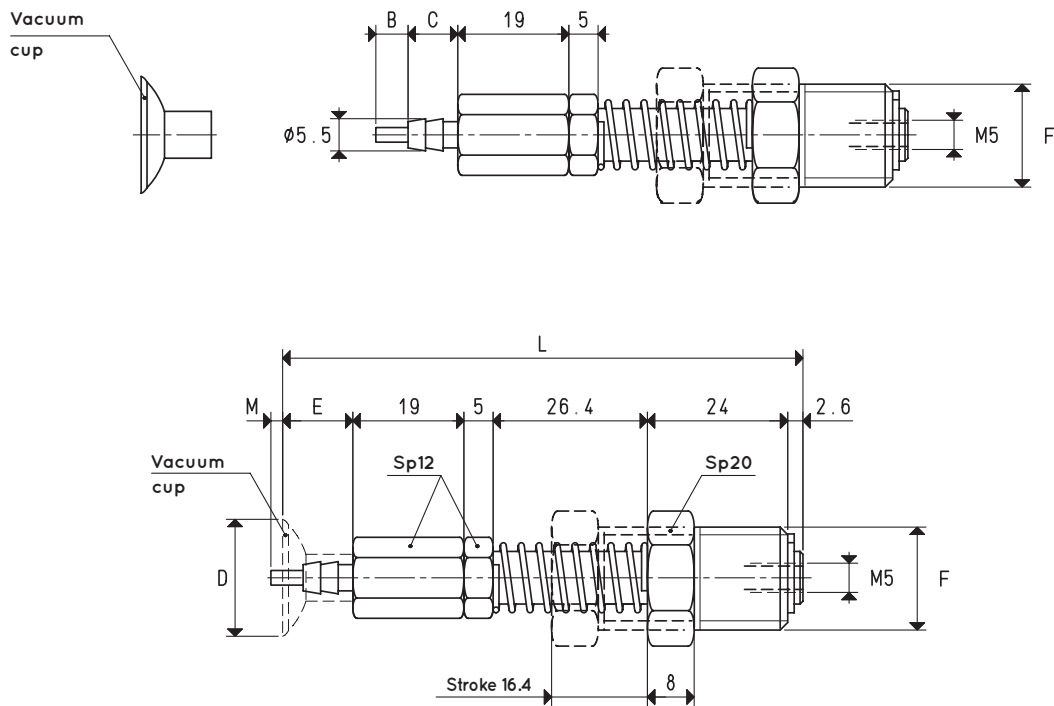
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.

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



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Item	Force Kg	B	C	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

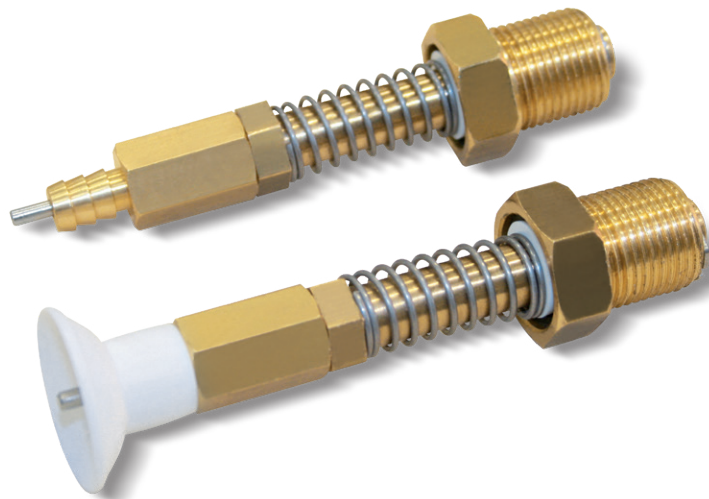
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.

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.

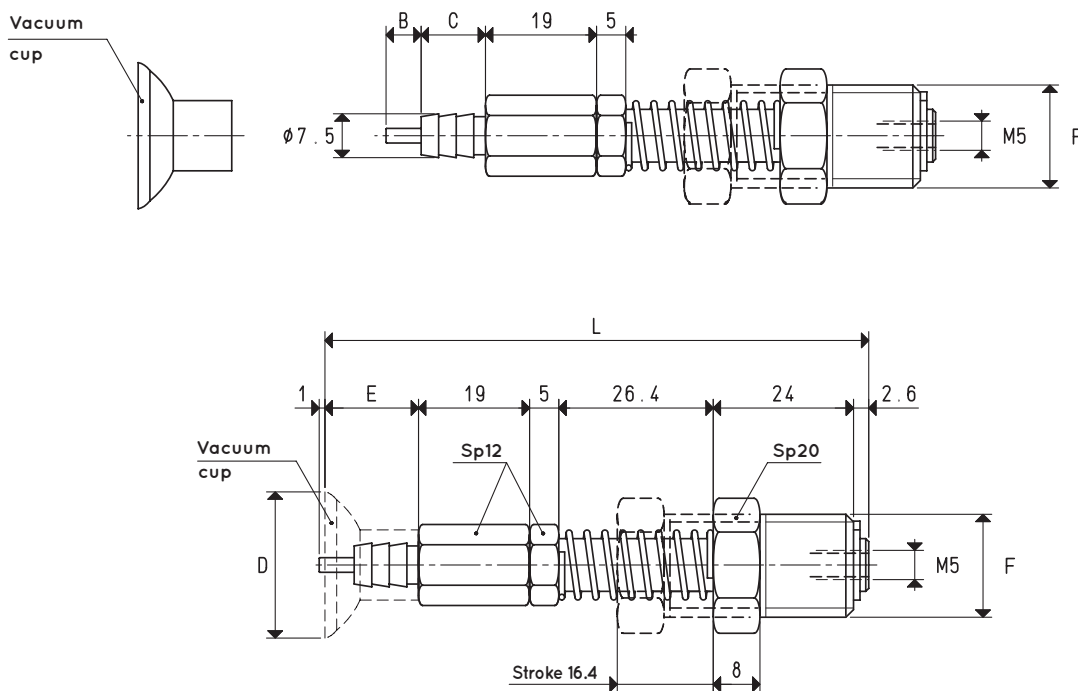
Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{\text{mm}}{25.4}$; pounds = $\frac{\text{g}}{453.6} = \frac{\text{Kg}}{0.4536}$



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



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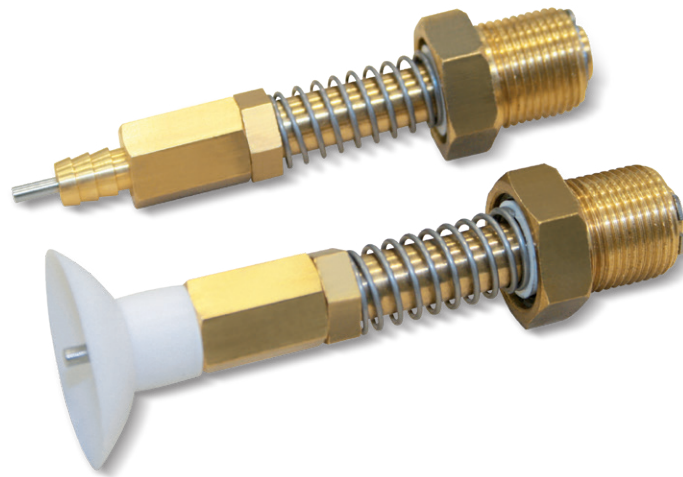
Item	Force Kg	B	C	D ∅	E	F ∅	L	For vacuum cup item	Weight g
20 25 65	1.23	6	11	25	16	G3/8"	93	01 25 15	80

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

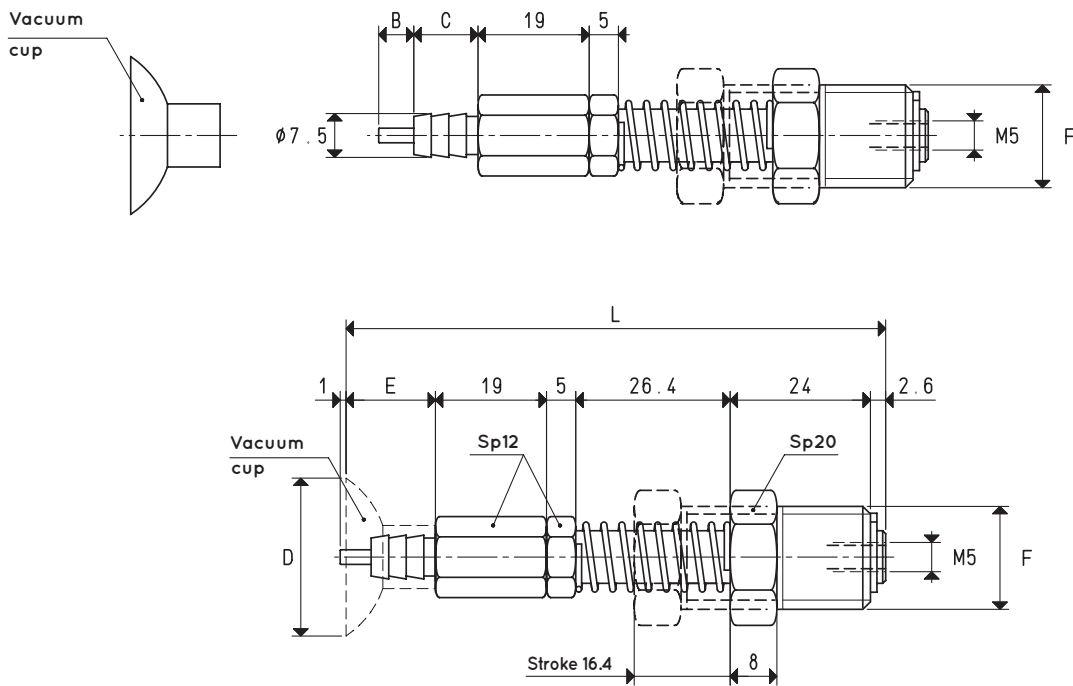
Note: The force of the vacuum cups indicated in the table represents 1/3 of the value of the theoretical force calculated at a level of vacuum of -75 KPa and a factor of safety 3.

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 AND BUILT-IN BUSH



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

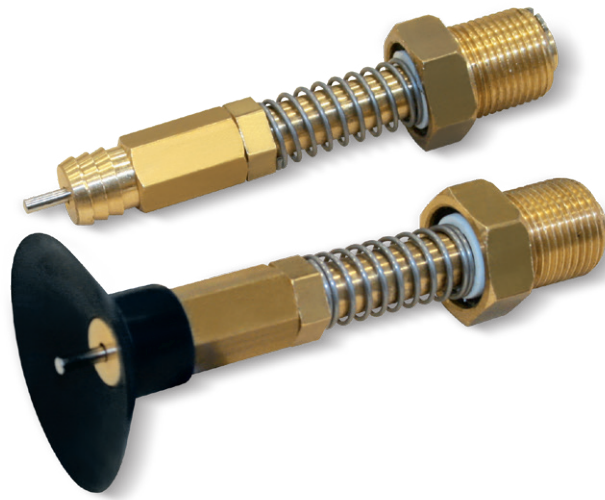
Note: The vacuum cups are not integral parts of the cup holders and, therefore, must be ordered separately.

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.

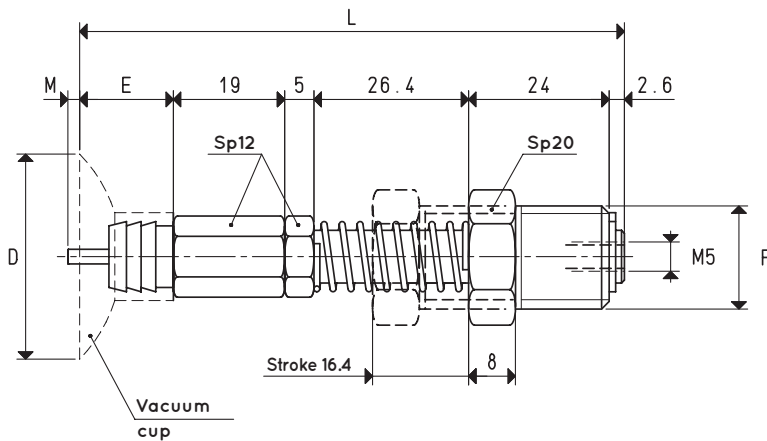
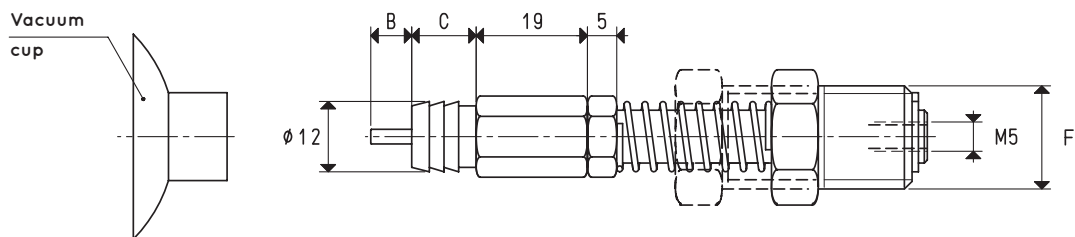
Transformation ratio: N (newton) = Kg x 9.81 (force of gravity) inch = $\frac{\text{mm}}{25.4}$; pounds = $\frac{\text{g}}{453.6} = \frac{\text{Kg}}{0.4536}$



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



VERSION 20 . . 65



Item	Force Kg	B	C	D Ø	E	F Ø	L	M	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	0	01 40 15	83.1

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