# BASIC VACUUM CUP HOLDERS WITH PLUNGER VALVE

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They are composed of:
- A brass stem for fastening the cup;
- A nickel-plated steel threaded sleeve equipped with anti-friction bushes for quick assembly of the cup to the automation;
- A spring to cushion the impact of the cup and to, at the same time, maintain constant pressure with the load to be lifted;
- A quick coupling for connection with the suction hose;
- A solidly connected plunger valve with a conical shutter.

Equipped with anti-friction bushes
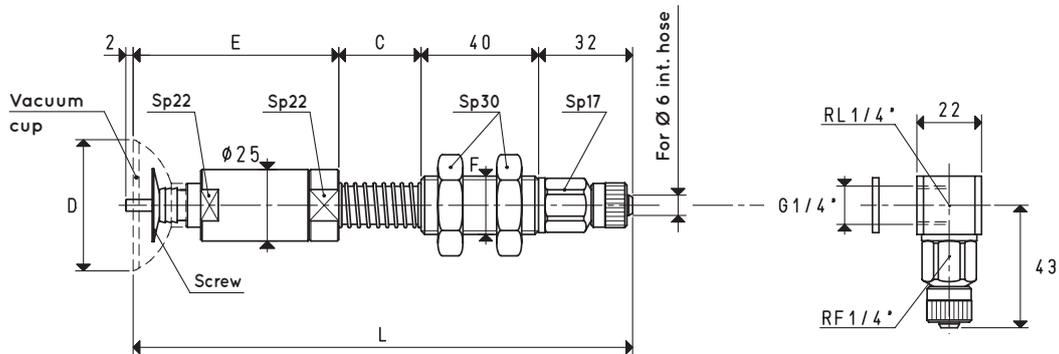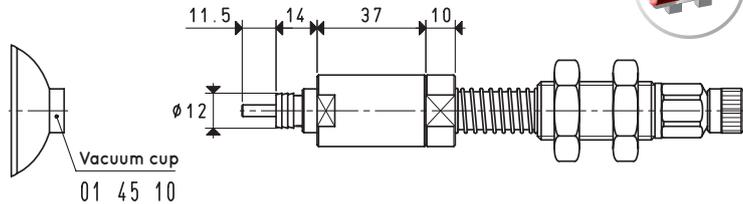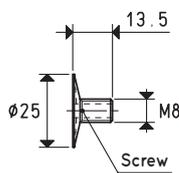
Vacuum cup
01 45 10

VERSION 03 45 10

VERSION 03 45 10 L

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

Item	*C	Actual spring stroke mm	Spring thrust force N	D Ø	E	F Ø	L	For vacuum cup item	Screw included item	Weight g
03 45 10	28	16	10.78	45	70	M20	170	01 45 10	00 20 13	344.7
	65	49	29.41	45	70	M20	207	01 45 10	00 20 13	381.7
	95	74	23.53	45	70	M20	237	01 45 10	00 20 13	415.7

Note: The vacuum cup holder's lifting force depends directly on the vacuum cup model applied to it.

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

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity)   inch = $\dfrac{mm}{25.4}$; pounds = $\dfrac{g}{453.6}$ = $\dfrac{Kg}{0.4536}$
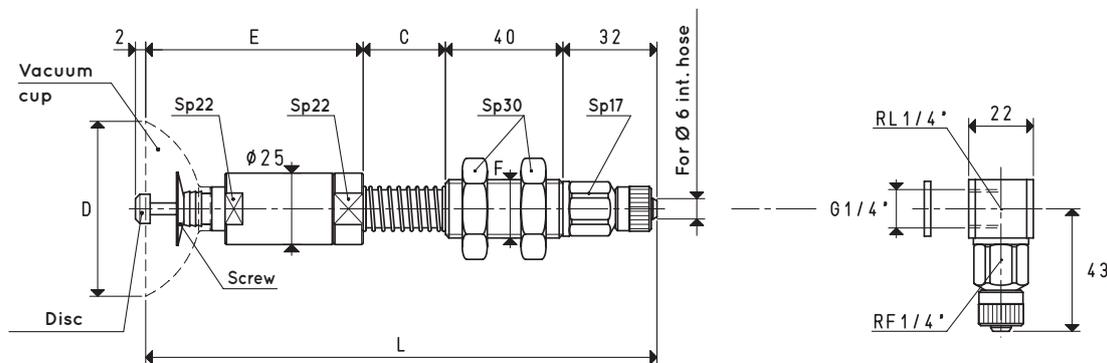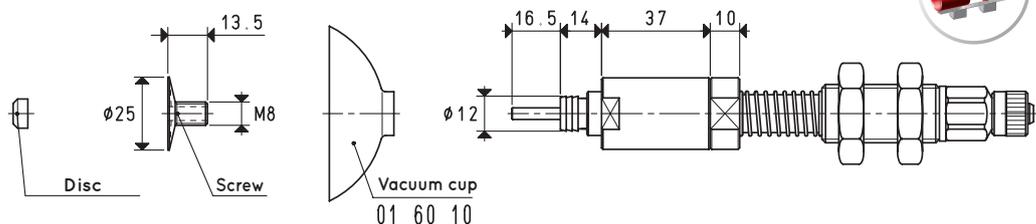
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- A quick coupling for connection with the suction hose;
- A solidly connected plunger valve with a conical shutter;
- A nylon disc, useful for preventing marks on the item being moved.

Equipped with anti-friction bushes

Disc — Screw — Vacuum cup
01 60 10

VERSION 03 60 10

VERSION 03 60 10 L

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

Item	*C	Actual spring stroke mm	Spring thrust force N	D Ø	E	F Ø	L	For vacuum cup item	Screw included item	Disc included item	Weight g
03 60 10	28	16	10.78	60	74	M20	172	01 60 10	00 20 13	00 03 22	353.7
	65	49	29.41	60	74	M20	209	01 60 10	00 20 13	00 03 22	391.7
	95	74	23.53	60	74	M20	239	01 60 10	00 20 13	00 03 22	424.7

Note: The vacuum cup holder's lifting force depends directly on the vacuum cup model applied to it.
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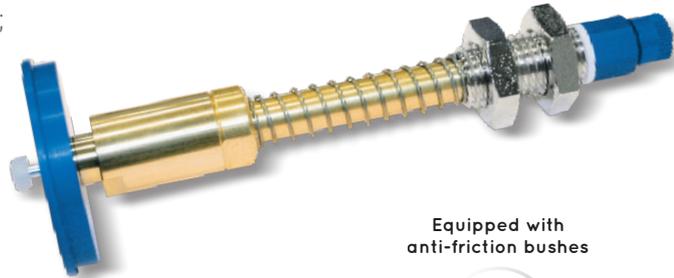To order vacuum cup holders with L fittings, add the letter L to the code.
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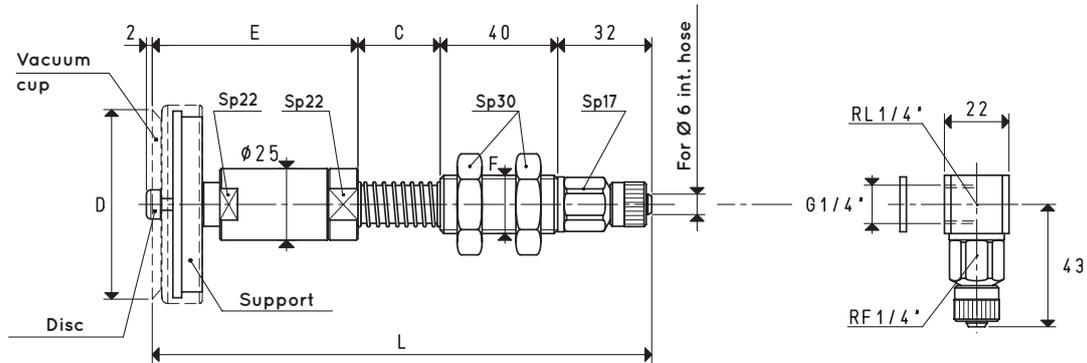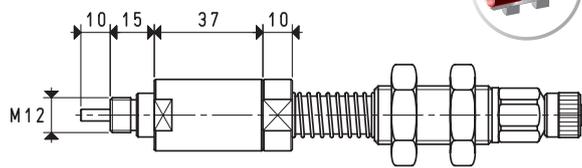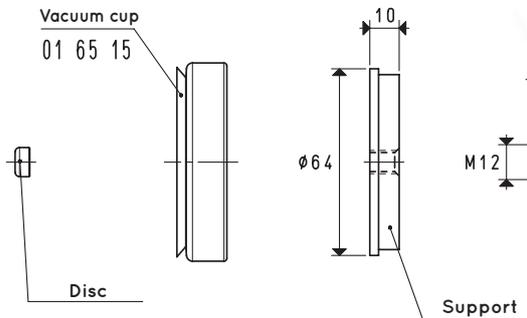
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- A spring to cushion the impact of the cup and to, at the same time, maintain constant pressure with the load to be lifted;
- A quick coupling for connection with the suction hose;
- A solidly connected plunger valve with a conical shutter;
- A nylon disc, useful for preventing marks on the item being moved.

Equipped with anti-friction bushes

2

Vacuum cup
01 65 15

Disc

Support

M12

VERSION 03 65 15

VERSION 03 65 15 L

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

Item	*C	Actual spring stroke mm	Spring thrust force N	D Ø	E	F Ø	L	For vacuum cup item	Support included item	Disc included item	Weight g
03 65 15	28	16	10.78	65	70	M20	170	01 65 15	00 08 32	00 03 22	438.0
	65	49	29.41	65	70	M20	207	01 65 15	00 08 32	00 03 22	476.0
	95	74	23.53	65	70	M20	237	01 65 15	00 08 32	00 03 22	509.0

Note: The vacuum cup holder's lifting force depends directly on the vacuum cup model applied to it.

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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

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

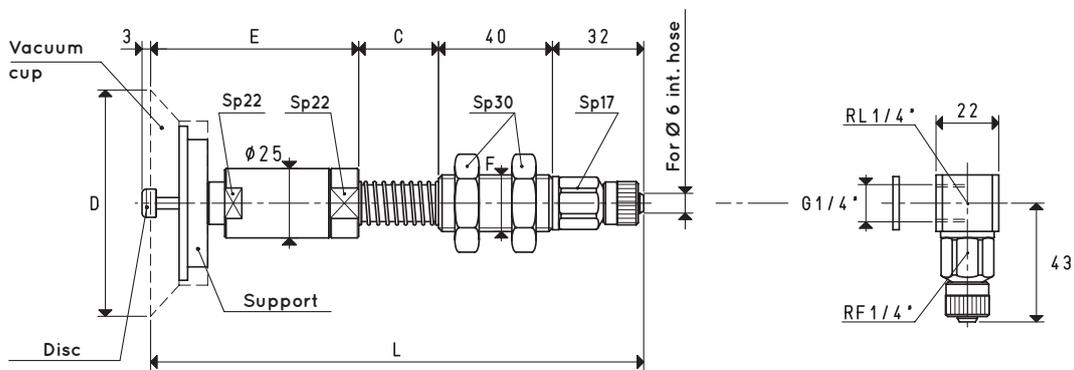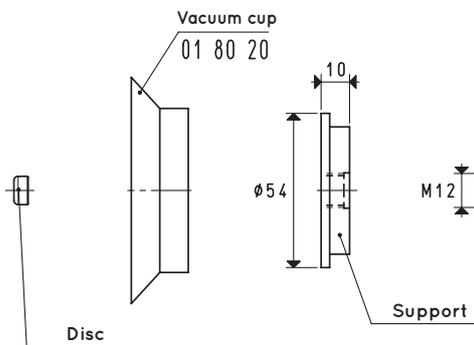# BASIC VACUUM CUP HOLDERS WITH PLUNGER VALVE

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- A quick coupling for connection with the suction hose;
- A solidly connected plunger valve with a conical shutter;
- A nylon disc, useful for preventing marks on the item being moved.

Equipped with anti-friction bushes

2

Vacuum cup
01 80 20

Disc

Ø54

Support

M12

10 15 37 10

Support

VERSION 03 80 20

VERSION 03 80 20 L

Vacuum cup

Sp22 Sp22

Ø25

D

Sp30 Sp17

F

For Ø 6 int. hose

Disc

Support

L

3 E C 40 32

RL1/4' 22

G1/4'

RF1/4'

43

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

Item	*C	Actual spring stroke mm	Spring thrust force N	D Ø	E	F Ø	L	For vacuum cup item	Support included item	Disc included item	Weight g
03 80 20	28	16	10.78	80	73	M20	173	01 80 20	00 08 126	00 03 22	407.0
	65	49	29.41	80	73	M20	210	01 80 20	00 08 126	00 03 22	445.0
	95	74	23.53	80	73	M20	240	01 80 20	00 08 126	00 03 22	478.0

Note: The vacuum cup holder's lifting force depends directly on the vacuum cup model applied to it.

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

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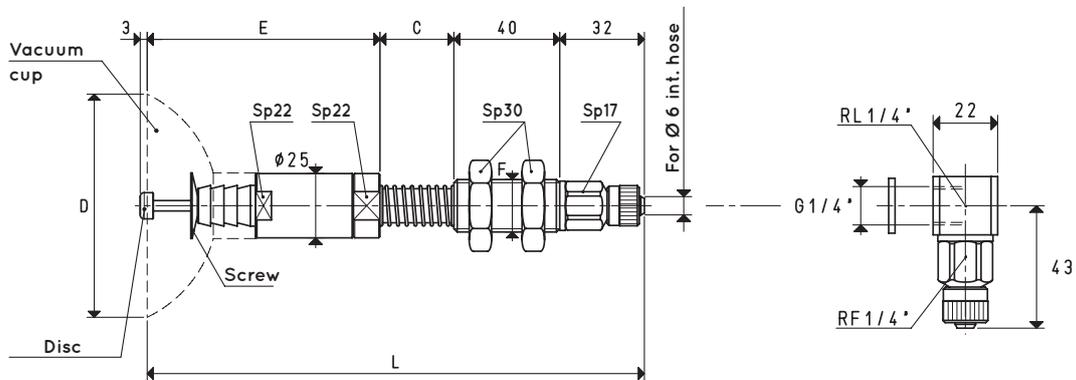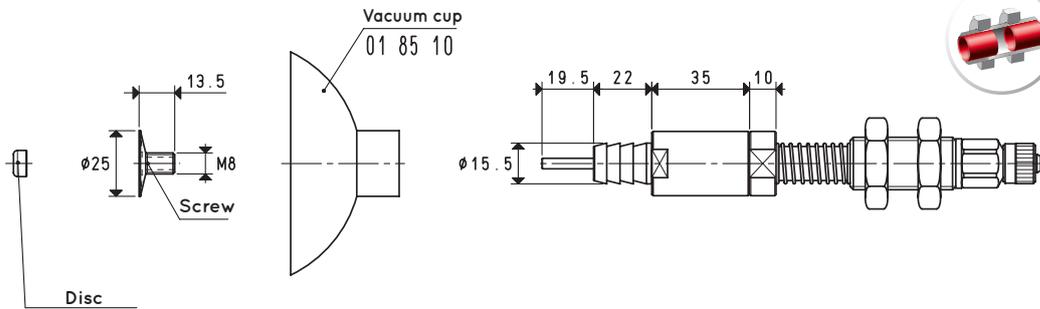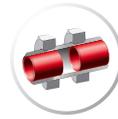
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- A quick coupling for connection with the suction hose;
- A solidly connected plunger valve with a conical shutter;
- A nylon disc, useful for preventing marks on the item being moved.

Equipped with anti-friction bushes

VERSION 03 85 10

VERSION 03 85 10 L

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

Item	*C	Actual spring stroke mm	Spring thrust force N	D Ø	E	F Ø	L	For vacuum cup item	Screw included item	Disc included item	Weight g
03 85 10	28	16	10.78	85	92	M20	192	01 85 10	00 20 13	00 03 22	385.1
	65	49	29.41	85	92	M20	229	01 85 10	00 20 13	00 03 22	427.1
	95	74	23.53	85	92	M20	259	01 85 10	00 20 13	00 03 22	448.1

Note: The vacuum cup holder's lifting force depends directly on the vacuum cup model applied to it.

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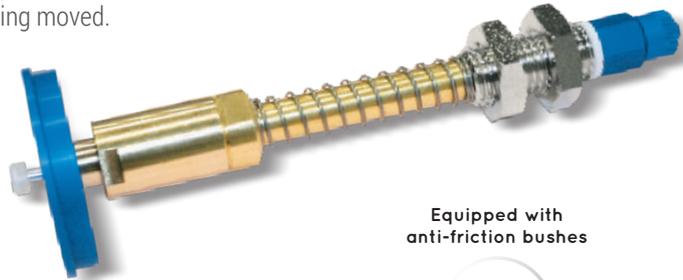
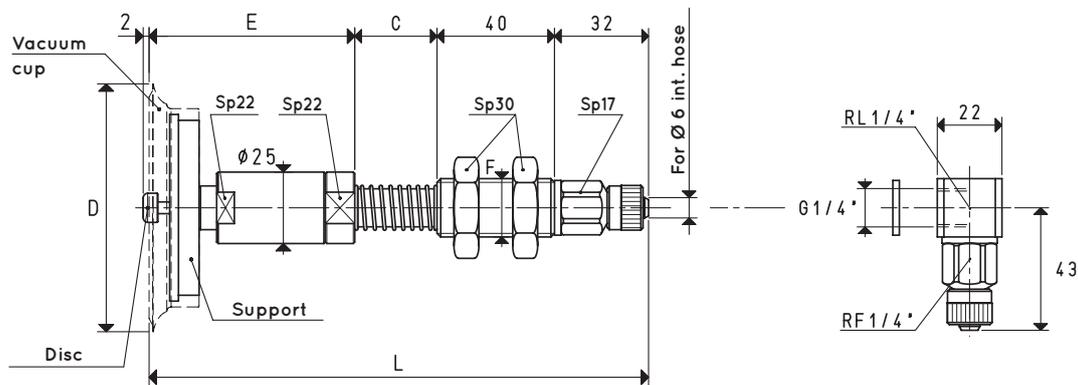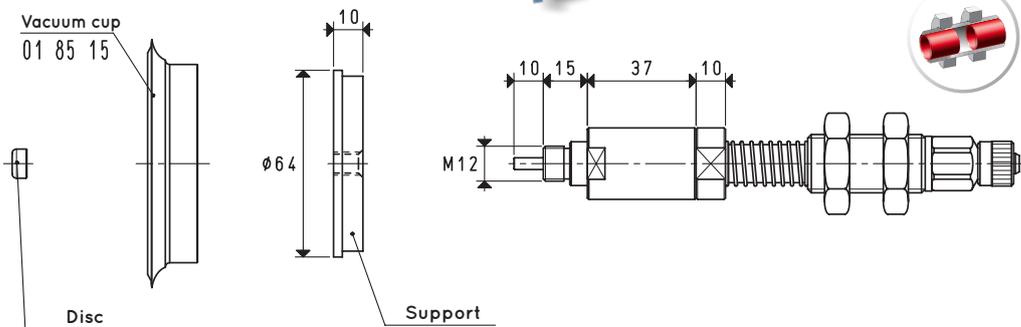# BASIC VACUUM CUP HOLDERS WITH PLUNGER VALVE

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Equipped with anti-friction bushes

VERSION 03 85 15

VERSION 03 85 15 L

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

Item	*C	Actual spring stroke mm	Spring thrust force N	D Ø	E	F Ø	L	For vacuum cup item	Support included item	Disc included item	Weight g
03 85 15	28	16	10.78	85	70	M20	170	01 85 15	00 08 32	00 03 22	448.0
	65	49	29.41	85	70	M20	207	01 85 15	00 08 32	00 03 22	486.0
	95	74	23.53	85	70	M20	237	01 85 15	00 08 32	00 03 22	519.0

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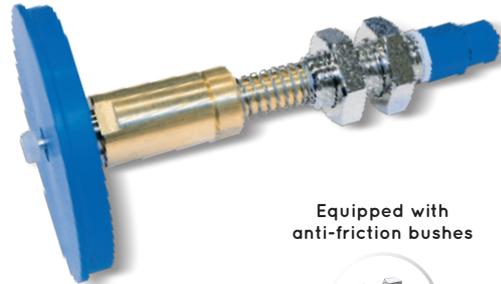Transformation ratio: N (newton) = Kg x 9.81 (force of gravity)　　　inch = $\dfrac{mm}{25.4}$; pounds = $\dfrac{g}{453.6}$ = $\dfrac{Kg}{0.4536}$

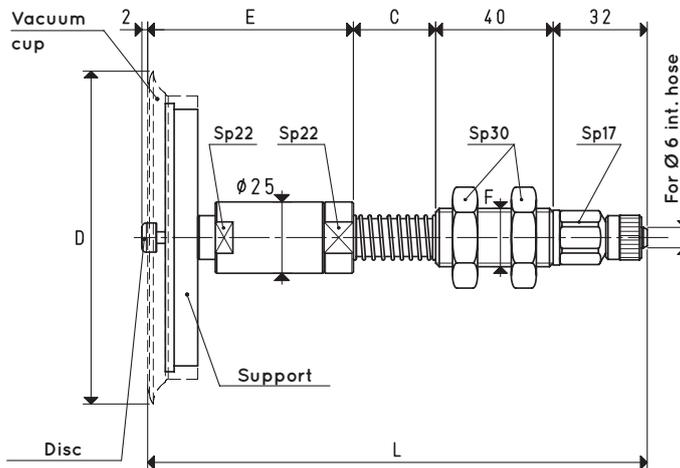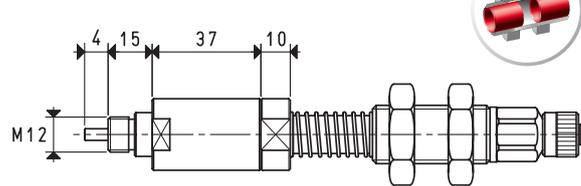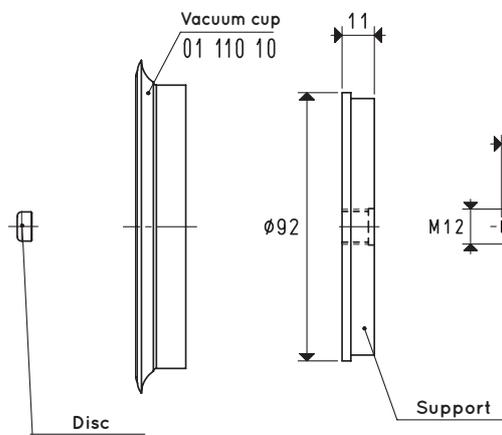# BASIC VACUUM CUP HOLDERS WITH PLUNGER VALVE

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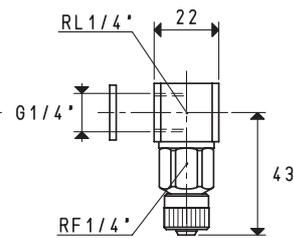They are composed of:
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- A quick coupling for connection with the suction hose;
- A solidly connected plunger valve with a conical shutter;
- A nylon disc, useful for preventing marks on the item being moved.

2

Equipped with anti-friction bushes

VERSION 03 110 10

VERSION 03 110 10 L

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

Item	*C	Actual spring stroke mm	Spring thrust force N	D Ø	E	F Ø	L	For vacuum cup item	Support included item	Disc included item	Weight g
03 110 10	28	16	10.78	114	70	M20	170	01 110 10	00 08 33	00 03 22	574.0
	65	49	29.41	114	70	M20	207	01 110 10	00 08 33	00 03 22	605.0
	95	74	23.53	114	70	M20	237	01 110 10	00 08 33	00 03 22	639.0

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