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 200713



VACUUM CUP HOLDERS WITH STRAIGHT COUPLER FOR PLASTIC HOSE

| Item | Force <br> Kg | $\mathbf{B}$ <br> stroke | $\mathbf{C}$ | $\mathbf{E}$ | F <br> $\emptyset$ | $\mathbf{L}$ | For vacuum cup <br> item | Weight <br> $\mathbf{g}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{2 0 0 7 1 3}$ | 0.09 | 12.4 | 15 | 23 | $\mathrm{M} 12 \times 1.25$ | 53 | 010713 | 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 002061 fittings, add the letters DR to 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 .

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



VERSION 20 . . 10


VACUUM CUP HOLDERS WITH STRAIGHT COUPLER FOR PLASTIC HOSE

| Item | Force Kg | $\begin{gathered} \text { B } \\ \text { stroke } \end{gathered}$ | $\begin{aligned} & \mathbf{D} \\ & \emptyset \end{aligned}$ | E | $\begin{aligned} & F \\ & \emptyset \end{aligned}$ | L | For vacuum cup item | Weight <br> g |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 201010 | 0.19 | 12.4 | 10 | 21 | M12 $\times 1.25$ | 51 | 011010 | 56.0 |
| 201210 | 0.28 | 12.4 | 12 | 21 | M12 $\times 1.25$ | 51 | 011210 | 56.6 |
| 201510 | 0.44 | 12.4 | 15 | 22 | M12 21.25 | 52 | 011510 | 56.7 |
| 201810 | 0.63 | 12.4 | 18 | 22 | M12 21.25 | 52 | 011810 | 56.7 |
| 202010 | 0.78 | 12.4 | 20 | 22 | M12 21.25 | 52 | 012010 | 56.8 |
| 202210 | 0.95 | 12.4 | 22 | 23 | M12 1.25 | 53 | 012210 | 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 002061 fittings, add the letters DR to 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 .

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




VACUUM CUP HOLDERS WITH STRAIGHT COUPLER FOR PLASTIC HOSE

| Item | Force <br> Kg | $\mathbf{B}$ <br> stroke | $\mathbf{D}$ <br> $\emptyset$ | $\mathbf{E}$ | F <br> $\emptyset$ | $\mathbf{L}$ | For vacuum cup <br> item | Weight <br> g |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{2 0} \mathbf{2 5} \mathbf{1 0}$ | 1.23 | 12.4 | 25 | 26 | $M 12 \times 1.25$ | 56 | 012515 | 58.0 |
| $\mathbf{2 0} \mathbf{3 0 1 0}$ | 1.76 | 12.4 | 30 | 26 | $M 12 \times 1.25$ | 56 | 013015 | 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 002061 fittings, add the letters DR to 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) $=\mathrm{Kg} \times 9.81$ (force of gravity) $\quad$ inch $=\frac{\mathrm{mm}}{25.4} ;$ pounds $=\frac{\mathrm{g}}{453.6}=\frac{\mathrm{Kg}}{0.4536}$

