



VACUUM CUPS WITH SUPPORTS

3D drawings are available on vuototecnica.net

These traditional cup-shaped vacuum cups are suited for gripping and handling objects with flat, slightly concave or convex surfaces.

This range of widely used cups has diameters ranging from 10 to 45 mm and are normally available in standard compounds: natural para rubber N, oil-resistant rubber A and silicone S.

They can be cold fitted with no adhesive onto a nickel-plated brass or anodised aluminium support.

The support has been specially shaped to perfectly fit with the vacuum cup and is equipped with a male threaded pin to facilitate fastening to the automation.

These cups are extremely easy to replace; simply request the cup indicated in the table in the desired compound when requesting the spare part.

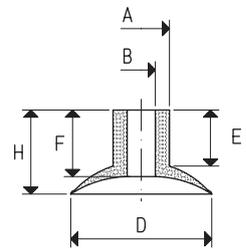
Cups in special compounds, listed on pg. 31, and supports in different materials can be provided upon specific request in minimum quantities to be defined in the order.



VACUUM CUPS

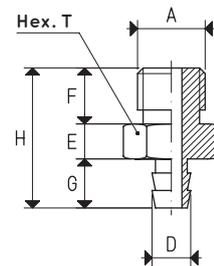
| Item | Force Kg | Volume mm ³ | A Ø | B Ø | D Ø | E | F | H |
|------------|----------|------------------------|-----|------|-----|------|------|------|
| 01 10 10 * | 0.19 | 227 | 7 | 4.0 | 10 | 8.5 | 8.5 | 11.0 |
| 01 12 10 * | 0.28 | 254 | 8 | 4.0 | 12 | 8.0 | 9.0 | 11.0 |
| 01 15 10 * | 0.44 | 364 | 8 | 4.0 | 15 | 8.0 | 9.5 | 12.0 |
| 01 18 10 * | 0.63 | 502 | 8 | 4.0 | 18 | 8.0 | 9.5 | 12.0 |
| 01 20 10 * | 0.78 | 536 | 8 | 4.0 | 20 | 8.0 | 9.5 | 12.0 |
| 01 22 10 * | 0.95 | 723 | 8 | 4.0 | 22 | 8.0 | 10.0 | 13.0 |
| 01 25 15 * | 1.23 | 1628 | 12 | 6.0 | 25 | 10.0 | 11.5 | 16.0 |
| 01 30 15 * | 1.76 | 2055 | 12 | 6.0 | 30 | 10.0 | 12.5 | 17.0 |
| 01 35 15 * | 2.40 | 3292 | 15 | 10.0 | 35 | 10.0 | 11.5 | 16.0 |
| 01 40 15 * | 3.14 | 4740 | 15 | 10.0 | 40 | 10.0 | 12.5 | 18.0 |
| 01 45 15 * | 3.98 | 8553 | 15 | 10.0 | 45 | 10.0 | 14.5 | 23.0 |

* Complete the code indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicone



SUPPORTS

| Item | A Ø | D Ø | E | F | G | H | T | Support material | For vacuum cup item | Weight g |
|----------|-------|------|---|----|------|------|----|------------------|---------------------|----------|
| 00 08 03 | G1/8" | 5.5 | 5 | 8 | 7.0 | 20.0 | 12 | brass | 01 10 10 | 9 |
| | | | | | | | | | 01 12 10 | |
| | | | | | | | | | 01 15 10 | |
| | | | | | | | | | 01 18 10 | |
| | | | | | | | | | 01 20 10 | |
| | | | | | | | | | 01 22 10 | |
| 00 08 05 | G1/8" | 7.5 | 5 | 8 | 9.5 | 22.5 | 12 | brass | 01 25 15 | 10 |
| | | | | | | | | | 01 30 15 | |
| | | | | | | | | | 01 35 15 | |
| 00 08 20 | G1/4" | 12.0 | 8 | 14 | 10.0 | 32.0 | 17 | aluminium | 01 40 15 | 11 |
| | | | | | | | | | 01 45 15 | |
| | | | | | | | | | | |



VACUUM CUPS WITH SUPPORT

| Item | Force Kg | A Ø | D Ø | E | F | G | H | T | Vacuum cup item | Support item | Weight g |
|------------|----------|-------|-----|---|----|----|----|----|-----------------|--------------|----------|
| 08 10 10 * | 0.19 | G1/8" | 10 | 5 | 8 | 11 | 24 | 12 | 01 10 10 | 00 08 03 | 9.0 |
| 08 12 10 * | 0.28 | G1/8" | 12 | 5 | 8 | 11 | 24 | 12 | 01 12 10 | 00 08 03 | 9.6 |
| 08 15 10 * | 0.44 | G1/8" | 15 | 5 | 8 | 12 | 25 | 12 | 01 15 10 | 00 08 03 | 9.7 |
| 08 18 10 * | 0.63 | G1/8" | 18 | 5 | 8 | 12 | 25 | 12 | 01 18 10 | 00 08 03 | 9.7 |
| 08 20 10 * | 0.78 | G1/8" | 20 | 5 | 8 | 12 | 25 | 12 | 01 20 10 | 00 08 03 | 9.8 |
| 08 22 10 * | 0.95 | G1/8" | 22 | 5 | 8 | 13 | 26 | 12 | 01 22 10 | 00 08 03 | 10.2 |
| 08 25 15 * | 1.23 | G1/8" | 25 | 5 | 8 | 16 | 29 | 12 | 01 25 15 | 00 08 05 | 12.0 |
| 08 30 15 * | 1.76 | G1/8" | 30 | 5 | 8 | 17 | 30 | 12 | 01 30 15 | 00 08 05 | 12.7 |
| 08 35 15 * | 2.40 | G1/4" | 35 | 8 | 14 | 16 | 38 | 17 | 01 35 15 | 00 08 20 | 13.6 |
| 08 40 15 * | 3.14 | G1/4" | 40 | 8 | 14 | 18 | 40 | 17 | 01 40 15 | 00 08 20 | 14.1 |
| 08 45 15 * | 3.98 | G1/4" | 45 | 8 | 14 | 23 | 45 | 17 | 01 45 15 | 00 08 20 | 17.6 |

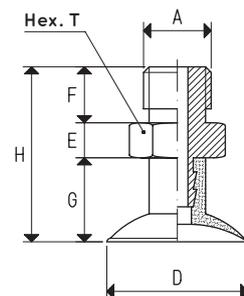
* Complete the code indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicone

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

Adapters for GAS - NPT threading available on page 1.130





VACUUM CUPS WITH SUPPORTS

These traditional cup-shaped vacuum cups are suited for gripping and handling objects with flat, slightly concave or convex surfaces.

This range of widely used cups has diameters ranging from 10 to 45 mm and are normally available in standard compounds: natural para rubber N, oil-resistant rubber A and silicone S.

They can be cold fitted with no adhesive onto a nickel-plated brass or anodised aluminium support.

The support has been specially shaped to perfectly fit with the vacuum cup and is equipped with a female threaded pin to facilitate fastening to the automation.

These cups are extremely easy to replace; simply request the cup indicated in the table in the desired compound when requesting the spare part.

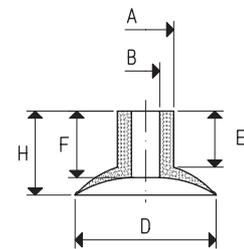
Cups in special compounds, listed on pg. 31, and supports in different materials can be provided upon specific request in minimum quantities to be defined in the order.



VACUUM CUPS

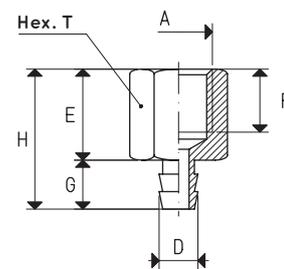
| Item | Force Kg | Volume mm ³ | A Ø | B Ø | D Ø | E | F | H |
|------------|----------|------------------------|-----|------|-----|------|------|------|
| 01 10 10 * | 0.19 | 227 | 7 | 4.0 | 10 | 8.5 | 8.5 | 11.0 |
| 01 12 10 * | 0.28 | 254 | 8 | 4.0 | 12 | 8.0 | 9.0 | 11.0 |
| 01 15 10 * | 0.44 | 364 | 8 | 4.0 | 15 | 8.0 | 9.5 | 12.0 |
| 01 18 10 * | 0.63 | 502 | 8 | 4.0 | 18 | 8.0 | 9.5 | 12.0 |
| 01 20 10 * | 0.78 | 536 | 8 | 4.0 | 20 | 8.0 | 9.5 | 12.0 |
| 01 22 10 * | 0.95 | 723 | 8 | 4.0 | 22 | 8.0 | 10.0 | 13.0 |
| 01 25 15 * | 1.23 | 1628 | 12 | 6.0 | 25 | 10.0 | 11.5 | 16.0 |
| 01 30 15 * | 1.76 | 2055 | 12 | 6.0 | 30 | 10.0 | 12.5 | 17.0 |
| 01 35 15 * | 2.40 | 3292 | 15 | 10.0 | 35 | 10.0 | 11.5 | 16.0 |
| 01 40 15 * | 3.14 | 4740 | 15 | 10.0 | 40 | 10.0 | 12.5 | 18.0 |
| 01 45 15 * | 3.98 | 8553 | 15 | 10.0 | 45 | 10.0 | 14.5 | 23.0 |

* Complete the code indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicone



SUPPORTS

| Item | A Ø | D Ø | E | F | G | H | T | Support material | For vacuum cup item | Weight g |
|----------|-------|------|----|----|------|------|----|------------------|---------------------|----------|
| 00 08 04 | G1/8" | 5.5 | 13 | 10 | 7.0 | 20.0 | 12 | brass | 01 10 10 | 8.1 |
| | | | | | | | | | 01 12 10 | |
| | | | | | | | | | 01 15 10 | |
| | | | | | | | | | 01 18 10 | |
| | | | | | | | | | 01 20 10 | |
| | | | | | | | | | 01 22 10 | |
| 00 08 14 | G1/8" | 7.5 | 13 | 10 | 9.5 | 22.5 | 12 | brass | 01 25 15 | 9.8 |
| | | | | | | | | | 01 30 15 | |
| | | | | | | | | | 01 35 15 | |
| 00 08 21 | G1/4" | 12.0 | 17 | 13 | 10.0 | 27.0 | 17 | aluminium | 01 40 15 | 9.3 |
| | | | | | | | | | 01 45 15 | |
| | | | | | | | | | | |



VACUUM CUPS WITH SUPPORT

| Item | Force Kg | A Ø | D Ø | E | F | G | H | T | Vacuum cup item | Support item | Weight g |
|------------|----------|-------|-----|----|----|----|----|----|-----------------|--------------|----------|
| 08 10 25 * | 0.19 | G1/8" | 10 | 13 | 10 | 11 | 24 | 12 | 01 10 10 | 00 08 04 | 8.1 |
| 08 12 25 * | 0.28 | G1/8" | 12 | 13 | 10 | 11 | 24 | 12 | 01 12 10 | 00 08 04 | 8.7 |
| 08 15 25 * | 0.44 | G1/8" | 15 | 13 | 10 | 12 | 25 | 12 | 01 15 10 | 00 08 04 | 8.8 |
| 08 18 25 * | 0.63 | G1/8" | 18 | 13 | 10 | 12 | 25 | 12 | 01 18 10 | 00 08 04 | 8.8 |
| 08 20 25 * | 0.78 | G1/8" | 20 | 13 | 10 | 12 | 25 | 12 | 01 20 10 | 00 08 04 | 9.3 |
| 08 22 25 * | 0.95 | G1/8" | 22 | 13 | 10 | 13 | 26 | 12 | 01 22 10 | 00 08 04 | 9.3 |
| 08 25 25 * | 1.23 | G1/8" | 25 | 13 | 10 | 16 | 29 | 12 | 01 25 15 | 00 08 14 | 11.8 |
| 08 30 25 * | 1.76 | G1/8" | 30 | 13 | 10 | 17 | 30 | 12 | 01 30 15 | 00 08 14 | 12.5 |
| 08 35 25 * | 2.40 | G1/4" | 35 | 17 | 13 | 16 | 33 | 17 | 01 35 15 | 00 08 21 | 11.9 |
| 08 40 25 * | 3.14 | G1/4" | 40 | 17 | 13 | 18 | 35 | 17 | 01 40 15 | 00 08 21 | 12.4 |
| 08 45 25 * | 3.98 | G1/4" | 45 | 17 | 13 | 23 | 40 | 17 | 01 45 15 | 00 08 21 | 15.9 |

* Complete the code indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicone

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)

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

Adapters for GAS - NPT threading available on page 1.130



VACUUM CUPS WITH SUPPORTS

These traditional cup-shaped vacuum cups are suited for gripping and handling objects with flat, slightly concave or convex surfaces.

This range of widely used cups has diameters ranging from 25 to 35 mm and are normally available in standard compounds: natural para rubber N, oil-resistant rubber A and silicone S.

They can be cold fitted with no adhesive onto a nickel-plated brass support.

The support has been specially shaped to perfectly fit with the vacuum cup and is equipped with a male threaded pin to facilitate fastening to the automation. These cups are extremely easy to replace; simply request the cup indicated in the table in the desired compound when requesting the spare part.

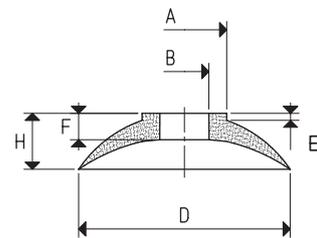
Cups in special compounds, listed on pg. 31, and supports in different materials can be provided upon specific request in minimum quantities to be defined in the order.



VACUUM CUPS

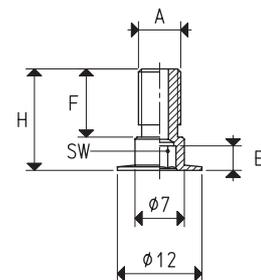
| Item | Force Kg | Volume cm ³ | A Ø | B Ø | D Ø | E | F | H |
|------------|----------|------------------------|-----|-----|-----|---|-----|---|
| 01 25 10 * | 1.23 | 1.4 | 12 | 6 | 25 | 2 | 3.5 | 8 |
| 01 30 10 * | 1.76 | 1.8 | 12 | 6 | 30 | 1 | 3.5 | 8 |
| 01 35 10 * | 2.40 | 2.4 | 12 | 6 | 35 | 1 | 3.5 | 8 |

* Complete the code indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicone



SUPPORTS

| Item | A Ø | E | F | H | SW | Support material | For vacuum cup item | Weight g |
|----------|-------|-----|----|------|----|------------------|---------------------|----------|
| 00 08 08 | M6 | 3.5 | 10 | 14.5 | 3 | brass | 01 25 10 | 2.7 |
| | | | | | | | 01 30 10 | |
| | | | | | | | 01 35 10 | |
| 00 08 60 | G1/8" | 4.0 | 10 | 14.5 | 4 | brass | 01 25 10 | 5.6 |
| | | | | | | | 01 30 10 | |
| | | | | | | | 01 35 10 | |



VACUUM CUPS WITH SUPPORT

| Item | Force Kg | A Ø | SW | D Ø | Vacuum cup item | Support item | Weight g |
|------------|----------|-------|----|-----|-----------------|--------------|----------|
| 08 25 10 * | 1.23 | M6 | 3 | 25 | 01 25 10 | 00 08 08 | 3.9 |
| 08 25 11 * | 1.23 | G1/8" | 4 | 25 | 01 25 10 | 00 08 60 | 6.8 |
| 08 30 10 * | 1.76 | M6 | 3 | 30 | 01 30 10 | 00 08 08 | 4.6 |
| 08 30 11 * | 1.76 | G1/8" | 4 | 30 | 01 30 10 | 00 08 60 | 7.5 |
| 08 35 10 * | 2.40 | M6 | 3 | 35 | 01 35 10 | 00 08 08 | 5.1 |
| 08 35 11 * | 2.40 | G1/8" | 4 | 35 | 01 35 10 | 00 08 60 | 8.0 |

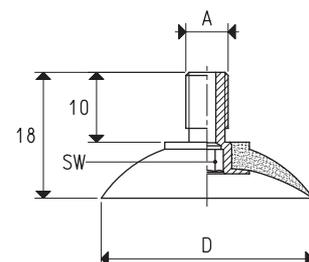
* Complete the code indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicone

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

Adapters for GAS - NPT threading available on page 1.130



VACUUM CUPS WITH SUPPORTS

These traditional cup-shaped vacuum cups are suited for gripping and handling objects with flat, slightly concave or convex surfaces.

This range of widely used cups has diameters ranging from 45 to 60 mm and are normally available in standard compounds: natural para rubber N, oil-resistant rubber A and silicone S.

They can be cold fitted with no adhesive onto an anodised aluminium support.

The support has been specially shaped to perfectly fit with the vacuum cup and is equipped with a male threaded pin to facilitate fastening to the automation. Moreover, those with 1/4" threading have a M8 threaded hole for any necessary insertion of a grub screw with calibrated hole (see pg. 1.131), having the function of reducing the quantity of air to be suctioned.

These cups are extremely easy to replace; simply request the cup indicated in the table in the desired compound when requesting the spare part.

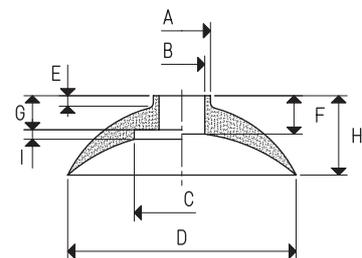
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VACUUM CUPS

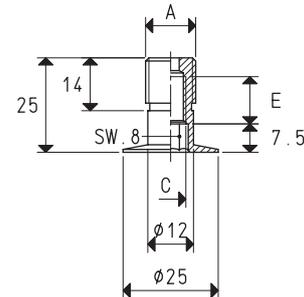
| Item | Force Kg | Volume cm ³ | A Ø | B Ø | C Ø | D Ø | E | F | G | H | I |
|------------|----------|------------------------|-----|-----|-----|-----|---|-----|----|----|-----|
| 01 45 10 * | 3.98 | 8.1 | 15 | 10 | -- | 45 | 5 | 9.5 | -- | 18 | -- |
| 01 60 10 * | 7.06 | 18.2 | 15 | 10 | 25 | 60 | 4 | -- | 10 | 22 | 2.5 |

* Complete the code indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicone



SUPPORTS

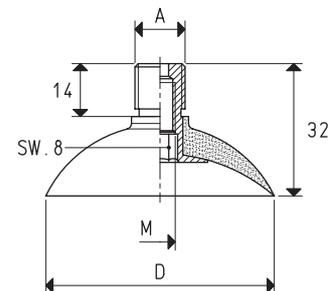
| Item | A Ø | E | C Ø | Support material | For vacuum cup item | Weight g |
|-----------|-------|----|-----|------------------|----------------------|----------|
| 00 08 22 | G1/4" | 10 | M8 | aluminium | 01 45 10 | 5.9 |
| 00 08 44 | G1/8" | -- | -- | aluminium | 01 45 10 01 60 10 | 5.1 |
| 00 08 313 | M6 | -- | -- | brass | 01 45 10 01 60 10 | 3.3 |
| 00 08 314 | M8 | -- | -- | brass | 01 45 10 01 60 10 | 4.3 |
| 00 08 92 | M10 | -- | -- | brass | 01 45 10 01 60 10 | 5.2 |



VACUUM CUPS WITH SUPPORT

| Item | Force Kg | A Ø | D Ø | M Ø | Vacuum cup item | Support item | Weight g |
|------------|----------|-------|-----|-----|-----------------|--------------|----------|
| 08 45 10 * | 3.98 | G1/4" | 45 | M8 | 01 45 10 | 00 08 22 | 12.6 |
| 08 45 11 * | 3.98 | G1/8" | 45 | -- | 01 45 10 | 00 08 44 | 11.8 |
| 08 45 12 * | 3.98 | M6 | 45 | -- | 01 45 10 | 00 08 313 | 10.0 |
| 08 45 13 * | 3.98 | M8 | 45 | -- | 01 45 10 | 00 08 314 | 11.0 |
| 08 45 14 * | 3.98 | M10 | 45 | -- | 01 45 10 | 00 08 92 | 11.9 |

* Complete the code indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicone



VACUUM CUPS WITH SUPPORT

| Item | Force Kg | A Ø | D Ø | M Ø | Vacuum cup item | Support item | Weight g |
|------------|----------|-------|-----|-----|-----------------|--------------|----------|
| 08 60 10 * | 7.06 | G1/4" | 60 | M8 | 01 60 10 | 00 08 22 | 20.8 |
| 08 60 11 * | 7.06 | G1/8" | 60 | -- | 01 60 10 | 00 08 44 | 20.0 |
| 08 60 12 * | 7.06 | M6 | 60 | -- | 01 60 10 | 00 08 313 | 18.2 |
| 08 60 13 * | 7.06 | M8 | 60 | -- | 01 60 10 | 00 08 314 | 19.2 |
| 08 60 14 * | 7.06 | M10 | 60 | -- | 01 60 10 | 00 08 92 | 20.1 |

* Complete the code indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicone

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)

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