

SUCTION CUPS / Universal

VU30



Features and Strengths

Excellent performance for flat stable and slightly curved surfaces
Suitable for concave surface

Examples of use

Semiconductor chips, Packaging materials, Metal sheet,
Printing industry, Paper box



Recommended Lifting Force (Max.)

| Model | Volume (cm ³) | Lifting Force (Kg) - Perpendicular | | | Lifting Force (Kg) - Parallel | | |
|-------|---------------------------|------------------------------------|----------|----------|-------------------------------|----------|----------|
| | | - 20 kPa | - 60 kPa | - 90 kPa | - 20 kPa | - 60 kPa | - 90 kPa |
| VU30 | 2.00 | 1.22 | 2.55 | 3.06 | 0.79 | 1.00 | 1.12 |

※ The lifting force above does not include safety factor

Material Specifications

| Material | Hardness Shore (°) | Color | Temperature (°C) |
|----------------------|--------------------|-------------------|------------------|
| NBR | 60 | Black | -20~110 |
| Silicone | 55 | Red | -70~200 |
| White Silicone | 55 | Translucent White | -70~200 |
| White Silicone (FDA) | 55 | Translucent White | -70~200 |
| High temp. Silicone | 50 | Blue | -70~280 |
| Conductive Silicone | 70 | Smoky Black | -45~90 |
| Urethane | 60 | Dark Green | 0~100 |
| Mark Free | 75 | Black | -10~100 |

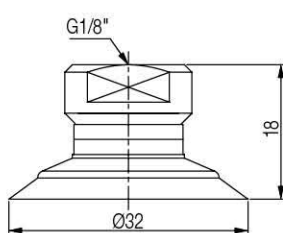
※ For additional material, see page 32~33

Material Resistance

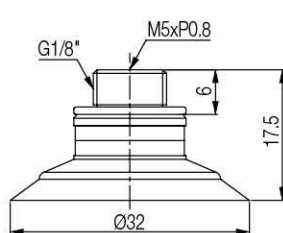
| Description | NBR | Silicone | White Silicone | High temp. Silicone | Conductive Silicone | Urethane | Mark Free |
|-----------------|-----------|-----------|----------------|---------------------|---------------------|-----------|-----------|
| Wear Resistance | Excellent | Good | Good | Good | Good | Excellent | Good |
| Oil | Excellent | Poor | Poor | Poor | Poor | Excellent | Excellent |
| Weather / Ozone | Fair | Excellent | Excellent | Excellent | Excellent | Excellent | Excellent |
| Alcohol | Good | Good | Good | Good | Good | Fair | Good |
| Acid | Fair | Poor | Poor | Poor | Poor | Poor | Excellent |

Dimension

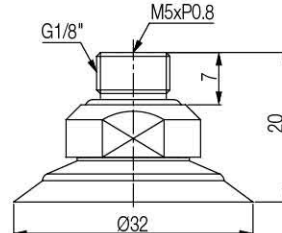
[Unit : mm]



[With 18F fitting]

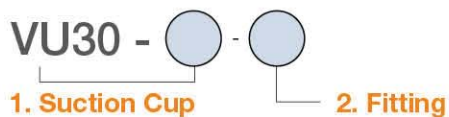


[With M518MF fitting]



[With M518MFX fitting]

I Build an Ordering No.



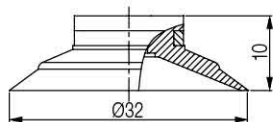
| 1. Suction cup | Description | Symbol |
|----------------|---|---------------|
| | Universal suction cup, 30mm diameter, Nitrile (NBR) | VU30-N |
| | Universal suction cup, 30mm diameter, Silicone | VU30-S |
| | Universal suction cup, 30mm diameter, White silicone | VU30-WS |
| | Universal suction cup, 30mm diameter, White silicone (FDA) | VU30-WS (FDA) |
| | Universal suction cup, 30mm diameter, High temperature silicone | VU30-HS |
| | Universal suction cup, 30mm diameter, Conductive silicone | VU30-CS |
| | Universal suction cup, 30mm diameter, Urethane | VU30-U |
| | Universal suction cup, 30mm diameter, Mark free | VU30-A |
| 2. Fitting | Description | Symbol |
| | Fitting, G1/8 male - M5 female | M518MF |
| | Fitting, G1/8 male - M5 female, Mesh filter | M-M518MF |
| | Efficiency valve, Fitting, G1/8 male - M5 female | M518MF-EV |
| | Fitting, G1/8 male - M5 female, Old profile | M518MFO |
| | Fitting, G1/8 male - M5 Female, Old profile, Mesh filter | M-M518MFO |
| | Efficiency valve, Fitting, G1/8 male - M5 female, Old profile | M518MFO-EV |
| | Fitting, G1/8 male - M5 female, For silicone material | M518MFX* |
| | Fitting, G1/8 female | 18F |
| | Fitting, G1/8 female, Mesh filter | M-18F |
| | Efficiency valve, Fitting, G1/8 female | 18F-EV |

* M518MFX* is available only for Silicone material.

I Spare Parts – Rubber Parts

| Part No. | Description | Weight (g) | Color |
|---------------|---|------------|-------------------|
| VU30-N | Universal suction cup, 30mm diameter, Nitrile (NBR) | 2.04 | Black |
| VU30-S | Universal suction cup, 30mm diameter, Silicone | 1.96 | Red |
| VU30-WS | Universal suction cup, 30mm diameter, White silicone | 1.96 | Translucent White |
| VU30-WS (FDA) | Universal suction cup, 30mm diameter, White silicone (FDA) | 1.96 | Translucent White |
| VU30-HS | Universal suction cup, 30mm diameter, High temperature silicone | 1.96 | Blue |
| VU30-CS | Universal suction cup, 30mm diameter, Conductive silicone | 2.01 | Smoky Black |
| VU30-U | Universal suction cup, 30mm diameter, Urethane | 1.97 | Dark Green |
| VU30-A | Universal suction cup, 30mm diameter, Mark free | 2.55 | Black |

[Unit : mm]



[Rubber part]

I Spare Parts – Fittings

| Part No. (Code No.) | Fitting size | Description | Weight (g) |
|---------------------|--------------|--|------------|
| 350 000 3209 | M518MF | G1/8 male - M5 female | 1.82 |
| 350 000 5209 | M518MF-F | G1/8 male - M5 female, Mesh filter | 1.92 |
| 350 010 4209 | M518MF-EV | Efficiency valve, G1/8 male - M5 female | 1.94 |
| 350 000 1209 | M518MFO | G1/8 male - M5 female, Old profile | 2.88 |
| 350 000 1109 | M518MFO-F | G1/8 male - M5 Female, Old profile, Mesh filter | 2.94 |
| 350 010 1209 | M518MFO-EV | Efficiency valve, G1/8 male - M5 female, Old profile | 2.87 |
| 350 000 3229 | M518MFX | G1/8 male - M5 female, For silicone material | 3.71 |
| 350 000 3310 | 18F | G1/8 female | 3.23 |
| 350 000 4310 | 18F-F | G1/8 female, Mesh filter | 3.3 |
| 350 010 3310 | 18F-EV | Efficiency valve, G1/8 female | 3.43 |