

SUCTION CUPS / Deep

VD40



Features and Strengths

Suitable for curved or irregular surfaces.
Excellent performance for round corners and edges

Examples of use

Automobile Roofs and Doors, Metal Sheets, Plastic Sheets,
Veneer Sheets, Shaped Metal panels



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 |
| VD40 | 7.00 | 2.04 | 3.97 | 5.00 | 1.22 | 2.38 | 3.00 |

※ 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 |
| Polyurethane | 60 | Translucent Orange | 0~60 |

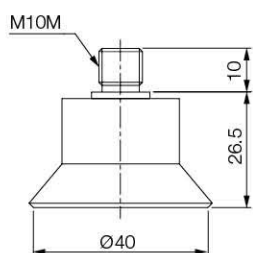
※ For additional material, see page 32~33

Material Resistance

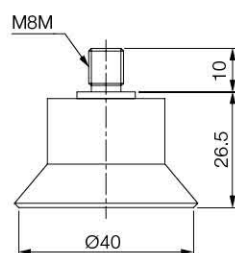
| Description | NBR | Silicone | White Silicone | High temp. Silicone | Conductive Silicone | Urethane | Mark Free | Polyurethane |
|-----------------|-----------|-----------|----------------|---------------------|---------------------|-----------|-----------|--------------|
| Wear Resistance | Excellent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

Dimension

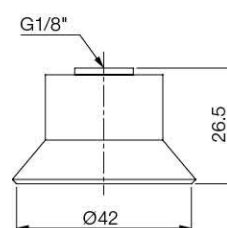
[Unit : mm]



[With M10M fitting]



[With M8M fitting]



[With 18F fitting]

Build an Ordering No.



: Pre-mounted fitting

| 1. Suction cup | Description | Weight (g) | Symbol |
|----------------|---|------------|--------------------|
| | Deep suction cup, 40mm diameter, Nitrile (NBR), M8 male | 17.66 | VD40-N-M8M |
| | Deep suction cup, 40mm diameter, Silicone, M8 male | 17.08 | VD40-S-M8M |
| | Deep suction cup, 40mm diameter, White silicone, M8 male | 17.14 | VD40-WS-M8M |
| | Deep suction cup, 40mm diameter, White silicone (FDA), M8 male | 17.14 | VD40-WS-M8M (FDA) |
| | Deep suction cup, 40mm diameter, High temperature silicone, M8 male | 18.26 | VD40-HS-M8M |
| | Deep suction cup, 40mm diameter, Conductive silicone, M8 male | 17.48 | VD40-CS-M8M |
| | Deep suction cup, 40mm diameter, Urethane, M8 male | 18.29 | VD40-U-M8M |
| | Deep suction cup, 40mm diameter, Mark free, M8 male | 19.07 | VD40-A-M8M |
| | Deep suction cup, 40mm diameter, Polyurethane, M8 male | 16.12 | VD40-PU-M8M |
| | Deep suction cup, 40mm diameter, Nitrile (NBR), M10 male | 18.08 | VD40-N-M10M |
| | Deep suction cup, 40mm diameter, Silicone, M10 male | 16.92 | VD40-S-M10M |
| | Deep suction cup, 40mm diameter, White silicone, M10 male | 17.56 | VD40-WS-M10M |
| | Deep suction cup, 40mm diameter, White silicone (FDA), M10 male | 17.56 | VD40-WS-M10M (FDA) |
| | Deep suction cup, 40mm diameter, High temperature silicone, M10 male | 18.69 | VD40-HS-M10M |
| | Deep suction cup, 40mm diameter, Conductive silicone, M10 male | 17.9 | VD40-CS-M10M |
| | Deep suction cup, 40mm diameter, Urethane, M10 male | 18.73 | VD40-U-M10M |
| | Deep suction cup, 40mm diameter, Mark free, M10 male | 19.53 | VD40-A-M10M |
| | Deep suction cup, 40mm diameter, Polyurethane, M10 male | 16.5 | VD40-PU-M10M |
| | Deep suction cup, 40mm diameter, Nitrile (NBR), G1/8 female | 14.58 | VD40-N-18F |
| | Deep suction cup, 40mm diameter, Silicone, G1/8 female | 14.36 | VD40-S-18F |
| | Deep suction cup, 40mm diameter, White silicone, G1/8 female | 14.16 | VD40-WS-18F |
| | Deep suction cup, 40mm diameter, White silicone (FDA), G1/8 female | 14.16 | VD40-WS-18F (FDA) |
| | Deep suction cup, 40mm diameter, High temperature silicone, G1/8 female | 16.74 | VD40-HS-18F |
| | Deep suction cup, 40mm diameter, Conductive silicone, G1/8 female | 14.95 | VD40-CS-18F |
| | Deep suction cup, 40mm diameter, Urethane, G1/8 female | 15.67 | VD40-U-18F |
| | Deep suction cup, 40mm diameter, Mark free, G1/8 female | 17.07 | VD40-A-18F |
| | Deep suction cup, 40mm diameter, Polyurethane, G1/8 female | 13.31 | VD40-PU-18F |