

Datasheet

Suction cup U30 Nitrile-PVC, G1/8" male / M5 female, with dual flow control valve

Item number: U30.30.02DD



- Suitable for objects with flat or slightly curved surfaces.
- Also used for concave objects.

Technical data

| Description | Unit | Value |
|-------------------------|-----------------|---|
| Suction cup shape | - | Universal |
| Application | - | Dry sheet metal, Plastic injection molded parts |
| Suction cup design | - | Round |
| Characteristics | - | Dry sheet metal, Plastic injection molded parts |
| Material | - | Nitrile-PVC (NPV) |
| Weight, min. | oz | 0.063 |
| Suction cup model | - | U |
| Volume | in ³ | 0.12 |
| Leakage flow, max. | scfm | 0.13 |
| Height | in | 0.67 |
| Outer diameter, min. | in | 1.26 |
| Fitting size | - | 1/8", M5 |
| Fitting option | - | Dual flow control valve |
| Fitting style | - | Female/Male |
| Fitting type | - | G-thread, M-thread |
| Valve restriction | in | 0.028 |
| Restricted vacuum flow | scfm | 1.48 |
| Suction cup model | - | U30 |
| Movement, vertical max. | in | 0.14 |
| Curve radius, min. | in | 0.79 |

Performance - Lifting forces

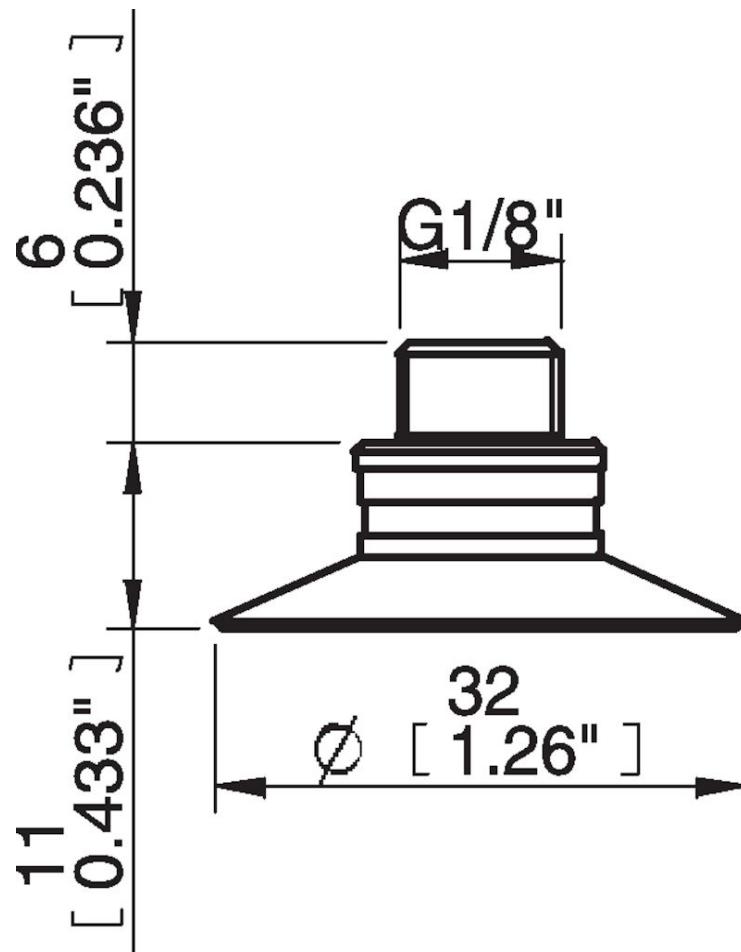
| | Vertical (lb) | Parallel (lb) |
|-------------|---------------|---------------|
| U30 | | |
| 5.91 -inHg | 2.70 | 1.75 |
| 17.72 -inHg | 5.62 | 2.20 |
| 26.58 -inHg | 6.74 | 2.47 |

| Material | |
|------------------------|-------------------|
| Name | Nitrile-PVC (NPV) |
| Color | Black |
| Temperature, min. °F | 32.0 |
| Temperature max. °F | 194.0 |
| Hardness °Shore A | 50 |

Material resistance

| | |
|--------------------|-----------|
| Alcohol | Good |
| Concentrated acids | Fair |
| Ethanol | n/a |
| Hydrolysis | Good |
| Methanol | n/a |
| Oil | Excellent |
| Oxidation | Good |
| Gasoline | Excellent |
| Wear resistance | Excellent |
| Weather and ozone | Good |

Dimensional drawings



Values specified in this data sheet are tested at (unless otherwise stated)

- Room temperature (20°C [68°F] ± 3°C [5.5°F]).
- Standard atmosphere (101.3 [29.9 inHg] ± 1.0 kPa [0.3 inHg]).
- Relative humidity 20-70%.
- Compressed air quality, DIN ISO 8573-1 class 4.

Accessories

02AE | Fitting 5xM5 female
U30.20 | Suction cup U30 Silicone
02AF | Fitting G1/8" male/M5 female, with mesh filter
02CD | Fitting G1/8" male/M5 female, PA
02AA | Fitting M5 female
02AD | Fitting G1/8" male/M5 female
02AB | Fitting G1/8" male, with mesh filter
02AC | Fitting 1/8" NPT male, with mesh filter
02DA | Fitting M5 female, with dual flow control valve
02DC | Fitting 1/8" NPT male, with dual flow control valve
02DE | Fitting 5xM5 female, with dual flow control valve

Spare parts

U30.30 | Suction cup U30 Nitrile-PVC
02DD | Fitting G1/8" male/M5 female, with dual flow control valve