

# Suction cup FC35P Polyurethane 60, G3/8" male, with dual flow control valve

Item number: FC35P.4E.04DD



- Suitable for slightly domed and flat and oily surfaces, e.g., such as those encountered when handling steel sheets in press processes.
- Thanks to the high friction of the rubber material, the suction cups can withstand high forces at rapid accelerations in horizontal directions, even on oily surfaces.
- The suction cups have cleats that prevent thin objects from being disfigured.
- DURAFLEX® material features the elasticity of rubber in combination with the wear resistance of polyurethane.
- The DURAFLEX® material is mark-free.

Technical data

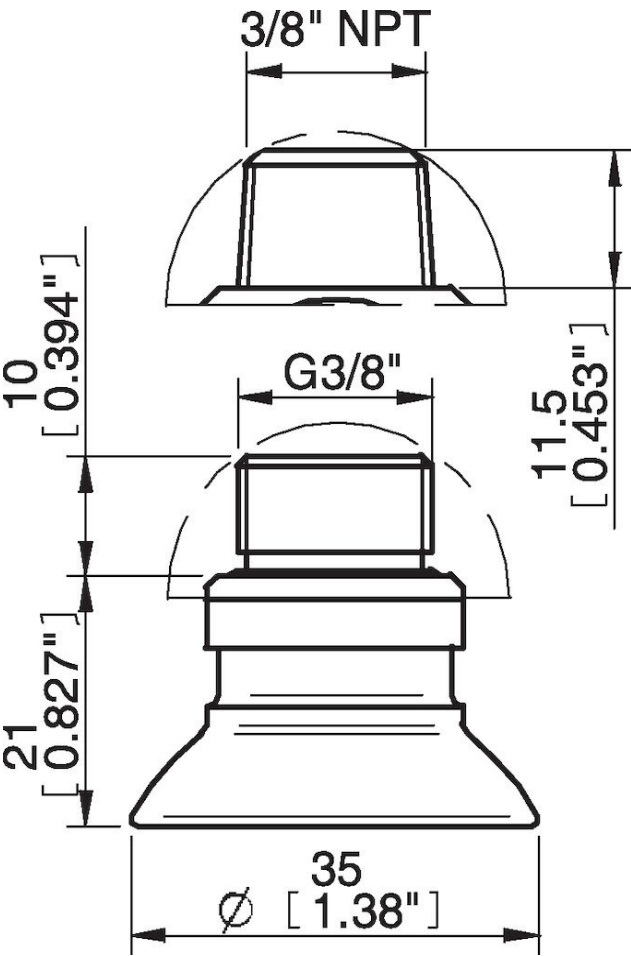
| Description             | Unit | Value                                |
|-------------------------|------|--------------------------------------|
| Suction cup shape       | -    | Flat Concave                         |
| Application             | -    | Dry sheet metal, Mark Free           |
| Suction cup design      | -    | Round                                |
| Characteristics         | -    | Dry sheet metal, Mark free           |
| Material                | -    | Polyurethane (PU)                    |
| Weight, min.            | oz   | 0.21                                 |
| Suction cup model       | -    | FC                                   |
| Volume                  | in³  | 0.31                                 |
| Leakage flow, max.      | scfm | 0.28                                 |
| Height                  | in   | 1.22                                 |
| Outer diameter, min.    | in   | 1.38                                 |
| Fitting size            | -    | 3/8"                                 |
| Fitting option          | -    | Dual flow control valve, Filter mesh |
| Fitting style           | -    | Male                                 |
| Fitting type            | -    | G-thread                             |
| Valve restriction       | in   | 0.035                                |
| Suction cup model       | -    | FC35P PU60                           |
| Movement, vertical max. | in   | 0.16                                 |
| Curve radius, min.      | in   | 1.26                                 |

Performance - Lifting forces

| FC35P PU60  | Vertical (lb) | Parallel (lb) |
|-------------|---------------|---------------|
| 5.91 -inHg  | 2.47          | 6.070         |
| 17.72 -inHg | 7.64          | 9.22          |
| 26.58 -inHg | 11.016        | 11.47         |

|                            |                     |
|----------------------------|---------------------|
| <b>Material</b>            |                     |
| Name                       | Polyurethane (PU60) |
| Color                      | Green transparent   |
| Temperature, min.   °F     | 50.0                |
| Temperature max.   °F      | 122.0               |
| Hardness   °Shore A        | 60                  |
| <b>Material resistance</b> |                     |
| Alcohol                    | n/a                 |
| Concentrated acids         | Fair                |
| Ethanol                    | Fair                |
| Hydrolysis                 | Fair                |
| Methanol                   | Poor                |
| Oil                        | Excellent           |
| Oxidation                  | Poor                |
| Gasoline                   | Fair                |
| Wear resistance            | Excellent           |
| Weather and ozone          | Excellent           |

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

04AF | Fitting 5x1/8" NPSF female, 30–40

04AG | Fitting 1/8" NPSF female, 30–40, with mesh filter

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04AA | Fitting 1/8" NPSF female, 30–40

04AD | Fitting G3/8" male, 30–40, with mesh filter

04AE | Fitting 3/8" NPT male, with mesh filter

04AB | Fitting G1/4" male, 30–40, with mesh filter

04AC | Fitting 1/4" NPT male, with mesh filter

04DA | Fitting 1/8" NPSF female, 30–40, with dual flow control valve

04DB | Fitting G1/4" male, 30–40, with dual flow control valve

04DC | Fitting 1/4" NPT male, with dual flow control valve

04DE | Fitting 3/8" NPT male, with dual flow control valve

04DF | Fitting 5x1/8" NPSF female, 30–40, with dual flow control valve

## Spare parts

FC35P.4E | Suction cup FC35P Polyurethane 60

04DD | Fitting G3/8" male, 30–40, with dual flow control valve