

# Datasheet

## Suction cup BX20P Polyurethane 30/60, G1/8" male / M5 female, with dual flow control valve

Item number: BX20P.4K.02DD



- Suitable for level adjustment and for uneven and porous surfaces such as cardboard, etc.
- Dual hardness allowing strength and stability in conjunction with softness and flexibility.
- 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       | -               | Multibellows  |
| Application             | -               | Dry sheet metal, Corrugated cardboard/Paperboard, Mark Free, Plastic injection molded parts |
| Suction cup design      | -               | Round   |
| Characteristics         | -               | Dry sheet metal, Corrugated / cardboard, Mark free, Plastic injection molded parts          |
| Material                | -               | Polyurethane (PU)   |
| Weight, min.            | oz              | 0.050   |
| Suction cup model       | -               | BX-P  |
| Volume                  | in <sup>3</sup> | 0.071   |
| Leakage flow, max.      | scfm            | 0.13  |
| Height                  | in              | 0.89  |
| Outer diameter, min.    | in              | 0.83  |
| 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       | -               | BX20P PU30 PU60   |
| Movement, vertical max. | in              | 0.30  |
| Curve radius, min.      | in              | 0.39  |

### Performance - Lifting forces

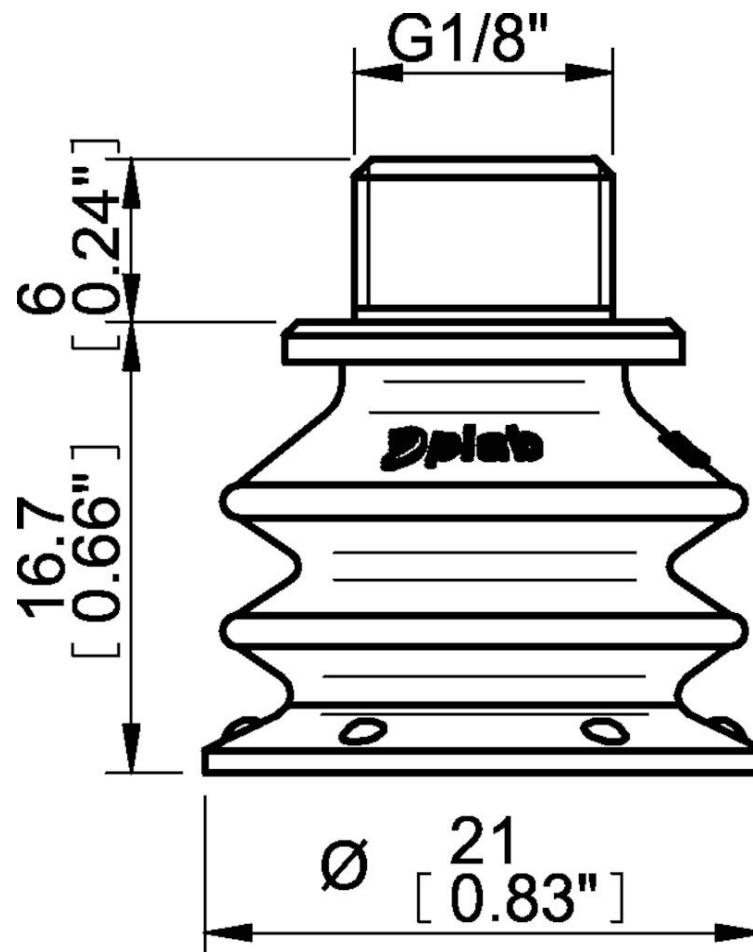
| BX20P PU30 PU60 | Vertical (lb) | Parallel (lb) |
|-----------------|---------------|---------------|
| 5.91 -inHg      | 1.012         | 0.90          |
| 17.72 -inHg     | 1.57          | 1.26          |
| 26.58 -inHg     | 2.14          | 1.46          |

|                        |                     |                     |
|------------------------|---------------------|---------------------|
| Name                   | Polyurethane (PU30) | Polyurethane (PU60) |
| Color                  | Yellow              | Green transparent   |
| Temperature, min.   °F | 50.0                | 50.0                |
| Temperature max.   °F  | 122.0               | 122.0               |
| Hardness   °Shore A    | 30                  | 60                  |

#### Material resistance

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

02AE | Fitting 5xM5 female  
02AF | Fitting G1/8" male/M5 female, with mesh filter  
BX20P.4E | Suction cup BX20P Polyurethane 60  
02AA | Fitting M5 female  
02AB | Fitting G1/8" male, with mesh filter  
02AC | Fitting 1/8" NPT male, with mesh filter

## **Spare parts**

BX20P.4K | Suction cup BX20P Polyurethane 30/60  
02DD | Fitting G1/8" male/M5 female, with dual flow control valve