

Datasheet

Suction cup BF110P Polyurethane 30/60, 3/8" NPSF female

Item number: BF110P.5K.N40W



- Suitable for uneven surfaces.
- 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 | - | Bellows |
| Application | - | Dry sheet metal, Mark Free |
| Suction cup design | - | Round |
| Characteristics | - | Dry sheet metal, Mark free |
| Material | - | Polyurethane (PU) |
| Weight, min. | oz | 3.88 |
| Suction cup model | - | BF-P |
| Volume | in ³ | 6.71 |
| Height | in | 2.60 |
| Outer diameter, min. | in | 4.55 |
| Outer diameter, actuated | in | 3.49 |
| Fitting size | - | 3/8" |
| Fitting option | - | None |
| Fitting style | - | Female |
| Fitting type | - | NPSF-thread |
| Suction cup model | - | BF110P PU30 PU60 |
| Movement, vertical max. | in | 1.079 |
| Curve radius, min. | in | 2.17 |

Performance - Lifting forces

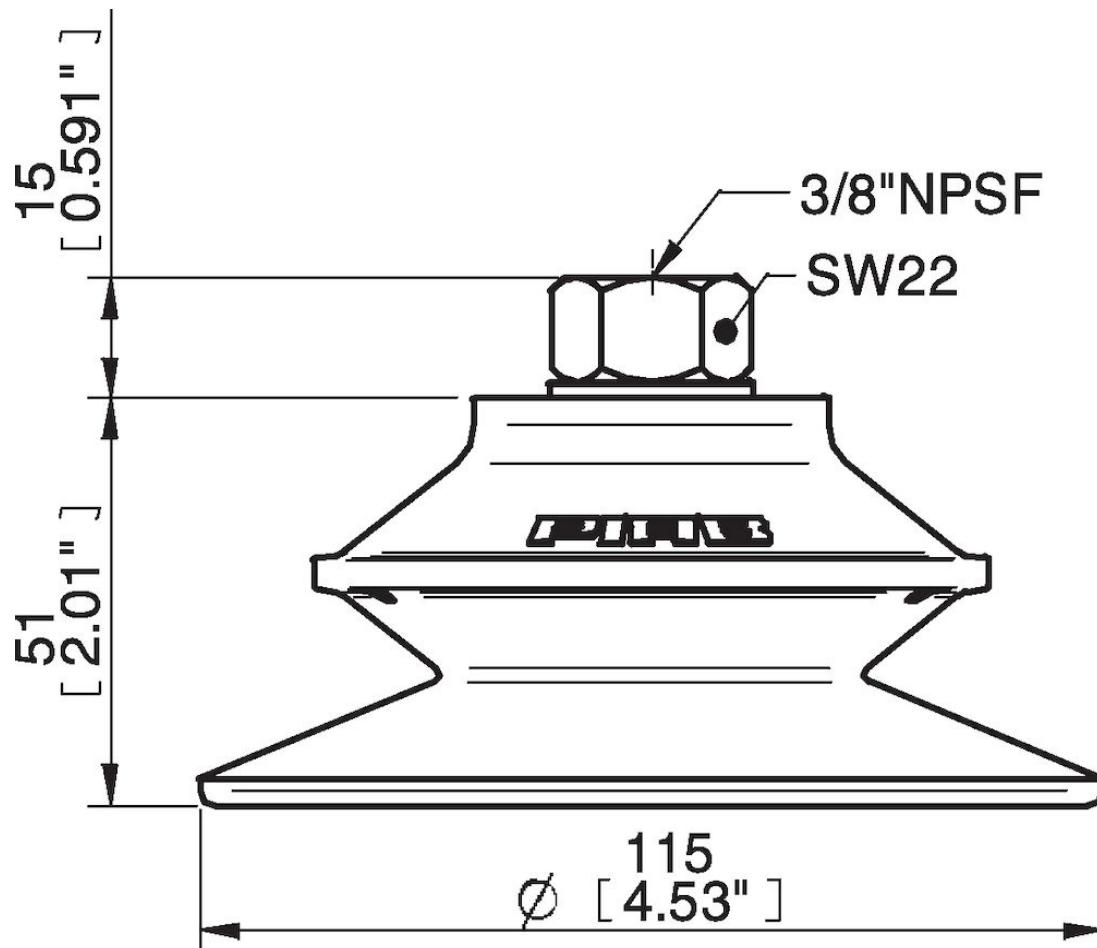
| BF110P PU30 PU60 | Vertical (lb) | Parallel (lb) |
|------------------|---------------|---------------|
| 5.91 -inHg | 28.78 | 23.83 |
| 17.72 -inHg | 51.48 | 47.21 |
| 26.58 -inHg | 50.58 | 55.30 |

| | | |
|------------------------|---------------------|---------------------|
| 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.

Spare parts

BF110P.5K | Suction cup BF110P Polyurethane 30/60, with collar for thread insert for Vacuum Gripper System (VGS)