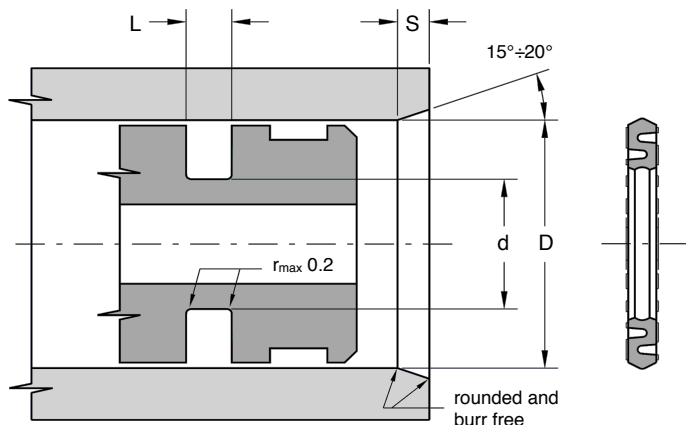




### DESCRIPTION

Double acting piston seal for pneumatic cylinders

### MATERIAL

Type: Polyurethane  
Designation: SEALPUR 93  
Hardness: 93 °ShA

### MAIN FEATURES

It is a double acting piston seal specially developed for pneumatic cylinder application.

The particular spring shaped design is flexible, more sensitive to pressure fluctuations and ensures a low friction in all operating conditions.

The polyurethane used to produce the dynamic element is a compound, specifically developed for the production of pneumatic seals, that ensures excellent properties on wear-resistance, extended service life and low permanent deformation.

- Space-saving construction
- Simple groove design
- Low friction at all usage pressure
- Excellent wear-resistance
- Extended service life
- Low cost solution
- Easy installation without expensive auxiliaries

### FIELD OF APPLICATION

|             |                                                                                   |
|-------------|-----------------------------------------------------------------------------------|
| Pressure    | 20 bar                                                                            |
| Speed       | ≤ 1 m/s                                                                           |
| Temperature | -35°C ÷ +80°C                                                                     |
| Fluids      | Air with or without lubrication, grease, mineral oils, non-aggressive gases, etc. |

### SURFACE ROUGHNESS

|                 |              |             |
|-----------------|--------------|-------------|
| Dynamic surface | Ra ≤ 0.25 µm | Rt ≤ 2.5 µm |
| Static surface  | Ra ≤ 0.8 µm  | Rt ≤ 6.3 µm |

| LEAD-IN CHAMFERS | D          | S <sub>MIN</sub> |
|------------------|------------|------------------|
|                  | • less 20  | 3 mm             |
|                  | • 20÷50    | 4 mm             |
|                  | • 51÷150   | 5 mm             |
|                  | • over 150 | 6 mm             |

- to avoid damaging the sealing lips during installation, housing must have rounded chamfers. Sharp edges and burrs within the installation area of the seal must be removed

| Part.         | D <sup>H10</sup> | d <sup>h9</sup> | L <sup>+0.2</sup> |
|---------------|------------------|-----------------|-------------------|
| KPZ 12 7 2.5  | 12               | 7               | 2.5               |
| KPZ 16 9 2.5  | 16               | 9               | 2.5               |
| KPZ 20 13 2.5 | 20               | 13              | 2.5               |
| KPZ 25 18 2.5 | 25               | 18              | 2.5               |