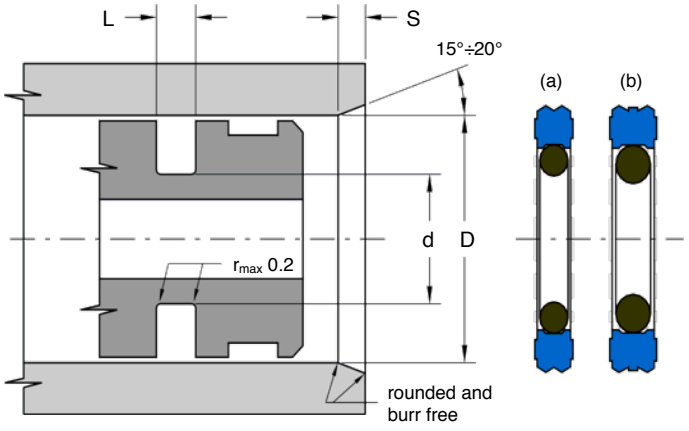
# KPDP

## DOUBLE ACTING PISTON SEAL




### DESCRIPTION
Double acting piston seal for pneumatic cylinders

### MATERIAL ON DYNAMIC SURFACE
Type: Polyurethane
Designation: SEALPUR 93
Hardness: 93 °ShA

### MATERIAL ON STATIC SURFACE
Type: Nitrile Rubber NBR
Designation: RUBSEAL 70
Hardness: 70 °ShA

### MAIN FEATURES
The seal type KPDP has been specially developed for pistons of double-acting cylinders and is composed of:
- a dynamic seal element in polyurethane that ensures excellent wear-resistance and good sealing performance.
- a standard size O-Ring with low permanent deformation as energizing component on the static side.

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
- Excellent wear-resistance
- Extended service life
- Low cost solution
- Easy installation without expensive auxiliaries
- High resistance to pressure peaks

| FIELD OF APPLICATION | |
|---|---|
| Pressure | over 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 | $S_{MIN}$ |
|---|---|---|
| | 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

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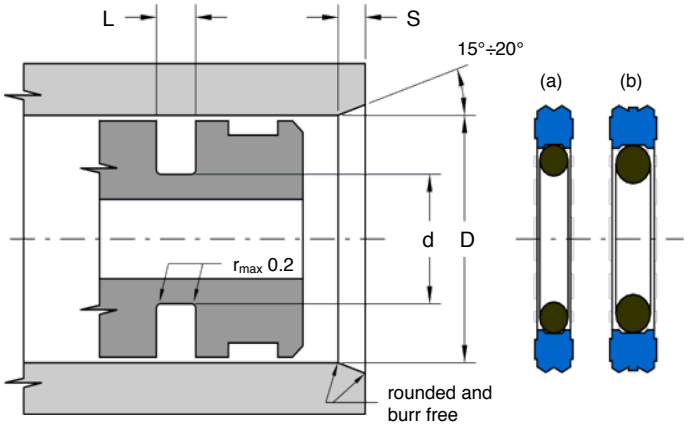
DOUBLE ACTING
PISTON SEAL




| Part. | D H10 | d h9 | L +0.2 | OR | Tp. |
|---|---|---|---|---|---|
| **KPDP 16 9 2.5** | 16 | 9 | 2.5 | 611 | (a) |
| **KPDP 20 13 2.5** | 20 | 13 | 2.5 | 014 | (a) |
| **KPDP 25 18 2.5** | 25 | 18 | 2.5 | 017 | (a) |
| **KPDP 32 23 3** | 32 | 23 | 3 | 813 | (a) |
| **KPDP 35 26 3** | 35 | 26 | 3 | 120 | (a) |
| **KPDP 45 36 3** | 45 | 36 | 3 | 126 | (a) |
| **KPDP 63 51 4** | 63 | 51 | 4 | 226 | (b) |
| **KPDP 125 110 5** | 125 | 110 | 5 | 244 | (b) |