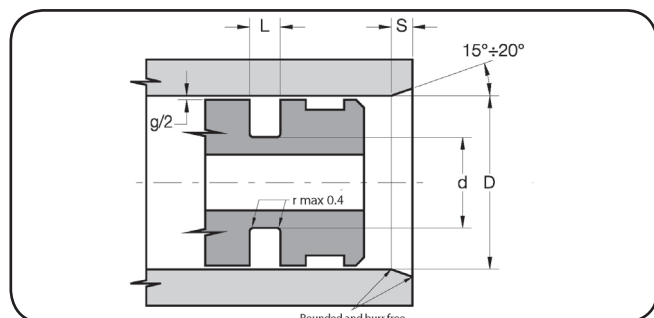


DOUBLE-ACTING PISTON SEAL

**MAIN FEATURES**

The PDPC-type piston seal is composed by:

- A dynamic sealing element that ensures exceptional high sealing performance. Two compact and small sealing edges ensure perfect fluid control and concentrate the load against the dynamic surface. The cavity between the two external seal edges holds a small amount of fluid which reduces friction. The side gaps ensure that the pressure loads the energising element in all working and types of conditions

- A nitrile rubber element with low permanent deformation as an energising component on the static side. The hardness and the rectangular cross-section prevents torque of the static element in the gap.

- High sealing performance at low pressure in addition
- Excellent wear resistance.
- Space-saving construction
- It can also work as single-acting
- Long service life
- Single gap design
- Low cost solution
- High resistance to extrusion.
- High resistance to temperature
- Easy installation on a solid piston.

PDPC

DESCRIPTION

Double-acting piston seal

SEAL MATERIAL

Polyurethane. Hardness: 97 Shore A.

SEAL MATERIAL

NBR Nitrile rubber. Hardness: 70 Shore A.

OPERATING CONDITIONS

Speed: < 0.5 m/seg.

Presión: < 400 Bar.

Temperature: - 30 a + 100°C

Fluid: Hydraulic oil
(mineral based)

(For other fluids, please contact our technical department)

Surface Roughness:

Dynamic surface $R_a < 0.3 \mu\text{m}$ $R_t < 2.5 \mu\text{m}$

Static surface $R_a < 1.6 \mu\text{m}$ $R_t < 6.3 \mu\text{m}$

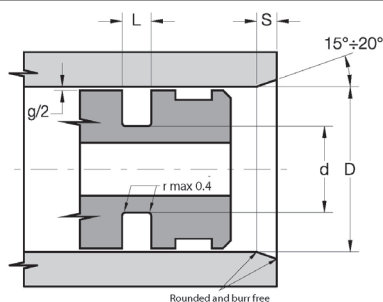
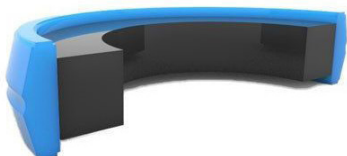
The maximum coupling clearance on the side opposite to the pressure direction.

- ° 50 bar. 1.20 mm
- ° 100 bar. 0.80 mm
- ° 200 bar. 0.40 mm
- ° 300 bar. 0.25 mm
- ° 400 bar. 0.17 mm

Acceptance chamfer

D	S minimum
° Less than 100 5 mm	5 mm
° From 100 to 200 7 mm	7 mm
° more than 200 10 mm	10 mm

PDPC



Size	D H 10	d +0.1	L+0.2
PDPC	20	12.50	3.20
PDPC	25.00	17.50	3.20
PDPC	30.00	22.50	3.20
PDPC	32.00	24.50	3.20
PDPC	35.00	27.50	3.20
PDPC	40.00	29.00	4.20
PDPC	40.00	24.50	6.30
PDPC	40.00	27.00	6.30
PDPC	40.00	34.00	4.20
PDPC	45.00	32.00	6.30
PDPC	45.00	39.00	4.20
PDPC	50.00	34.50	6.30
PDPC	50.00	37.00	6.30
PDPC	50.00	44.00	4.20
PDPC	55.00	39.50	6.30
PDPC	58.00	45.00	6.30
PDPC	60.00	49.00	4.20
PDPC	60.00	44.50	6.30
PDPC	63.00	52.00	4.20
PDPC	63.00	53.00	5.00
PDPC	63.00	47.50	6.30
PDPC	63.00	50.00	6.30
PDPC	65.00	52.00	6.30
PDPC	65.00	54.00	6.30
PDPC	70.00	59.00	4.20
PDPC	70.00	54.50	6.30
PDPC	70.00	57.00	6.30
PDPC	75.00	59.50	6.30
PDPC	75.00	64.00	4.20
PDPC	75.00	62.00	6.30
PDPC	80.00	64.50	6.30
PDPC	80.00	66.50	6.30
PDPC	80.00	59.00	8.10
PDPC	80.00	59.00	10.50
PDPC	85.00	71.50	6.30

Size	D H 10	d +0.1	L+0.2
PDPC	90.00	74.50	6.30
PDPC	90.00	69.00	8.10
PDPC	90.00	69.00	10.50
PDPC	95.00	79.50	6.30
PDPC	100.00	84.50	6.30
PDPC	100.00	86.50	6.30
PDPC	100.00	79.00	8.10
PDPC	105.00	89.50	6.30
PDPC	110.00	94.50	6.30
PDPC	110.00	89.00	8.10
PDPC	110.00	89.00	10.50
PDPC	115.00	94.00	8.10
PDPC	120.00	104.50	6.30
PDPC	120.00	99.00	10.50
PDPC	125.00	109.50	6.30
PDPC	125.00	104.00	8.10
PDPC	125.00	104.00	10.50
PDPC	140.00	119.00	10.50
PDPC	140.00	119.00	12.50
PDPC	150.00	129.00	10.50
PDPC	150.00	129.00	8.10
PDPC	160.00	139.00	8.10
PDPC	180.00	159.00	8.10
PDPC	200.00	179.00	8.10
PDPC	200.00	175.00	12.50