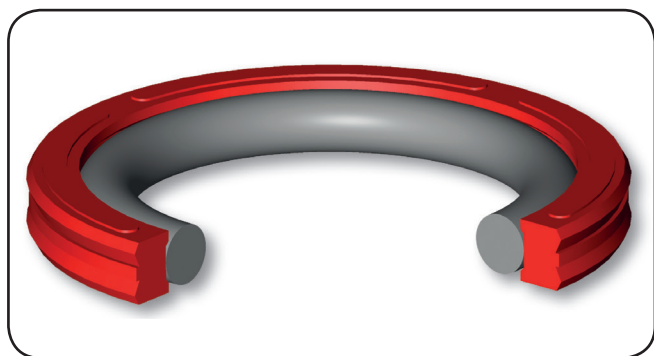
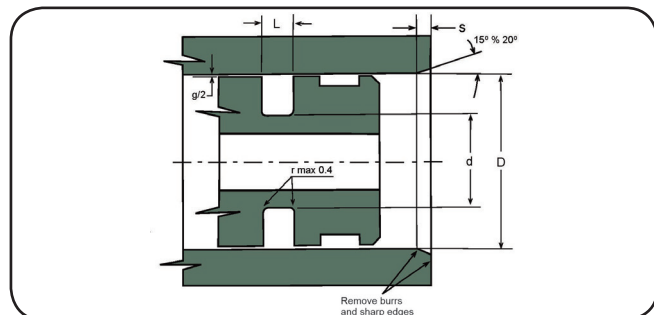




DOUBLE-ACTING PISTON SEAL



MAIN FEATURES

The PDP piston seal is composed by:
A dynamic seal that ensures high sealing capacity, two small shared lips that guarantee perfect fluid control, the cavity between both lips holds a small amount of oil that reduces abrasion and wear.

The side clearance ensures that pressurised fluid can always energise the O-ring under all working conditions.

A standard O-ring with low permanent deformation as energising and pinching element.

- ° High closure capacity at low pressures
- ° Reduced assembly
- ° Easy to install on one-piece pistons
- ° Good resistance to temperature
- ° Can work in single-acting mode
- ° High operating life
- ° High extrusion resistance

PDP

DESCRIPTION

Double-acting piston seal

SEAL MATERIAL

Polyurethane. Hardness: 97 Shore A.

O-RING MATERIAL

NBR Nitrile rubber. Hardness: 70 Shore A.

OPERATING CONDITIONS

Speed: < 0.5 m/sec.

Pressure: < 400 Bar.

Temperature: - 30 to + 100°C

Fluid: Hydraulic oil

(mineral based)

(Other fluid contact our technical department)

Surface roughness:

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

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

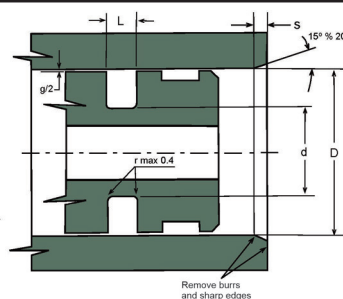
The maximum coupling clearance on the side opposite to the pressure direction.

- ° 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

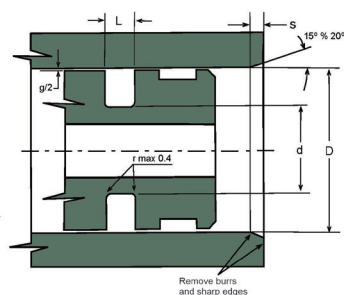
D	S minimum
° Less than 100 5 mm	5 mm
° From 100 to 200 7 mm	7 mm
° more than 200 10 mm	10 mm

PDP



	Size				D H 10	d +0.1	L+0.2	OR	TYPE
PDP	15.00	7.50	3.20		15.00	7.50	3.20	108	(a)
PDP	16.00	8.50	3.20	ISO	16.00	8.50	3.20	109	(a)
PDP	20.00	12.50	3.20	ISO	20.00	12.50	3.20	112	(a)
PDP	22.00	14.50	3.20		22.00	14.50	3.20	113	(a)
PDP	25.00	14.00	4.20	ISO	25.00	14.00	4.20	207	(b)
PDP	25.00	17.50	3.20	ISO	25.00	17.50	3.20	115	(a)
PDP	30.00	22.50	3.20		30.00	22.50	3.20	118	(a)
PDP	32.00	21.00	4.20	ISO	32.00	21.00	4.20	211	(b)
PDP	32.00	24.50	3.20	ISO	32.00	24.50	3.20	119	(a)
PDP	35.00	27.50	3.20		35.00	27.50	3.20	121	(a)
PDP	38.00	30.50	3.20		38.00	30.50	3.20	123	(a)
PDP	40.00	32.50	3.20		40.00	32.50	3.20	124	(a)
PDP	40.00	29.00	4.20	ISO	40.00	29.00	4.20	216	(b)
PDP	40.00	24.50	6.30		40.00	24.50	6.30	318	(b)
PDP	42.00	31.00	4.20		42.00	31.00	4.20	217	(b)
PDP	45.00	29.50	6.30		45.00	29.50	6.30	320	(b)
PDP	45.00	34.00	4.20		45.00	34.00	4.20	219	(b)
PDP	48.00	37.00	4.20		48.00	37.00	4.20	221	(b)
PDP	49.00	38.00	4.20		49.00	38.00	4.20	222	(b)
PDP	50.00	34.50	6.30		50.00	34.50	6.30	324	(b)
PDP	50.00	39.00	4.20	ISO	50.00	39.00	4.20	222	(b)
PDP	52.00	36.50	6.30		52.00	36.50	6.30	324	(b)
PDP	54.00	43.00	4.20		54.00	43.00	4.20	826	(b)
PDP	55.00	39.50	6.30		55.00	39.50	6.30	325	(b)
PDP	55.00	44.00	4.20		55.00	44.00	4.20	224	(b)
PDP	60.00	44.50	6.30		60.00	44.50	6.30	327	(b)
PDP	60.00	49.00	4.20		60.00	49.00	4.20	225	(b)
PDP	63.00	47.50	6.30		63.00	47.50	6.30	328	(b)
PDP	63.00	52.00	4.20	ISO	63.00	52.00	4.20	226	(b)
PDP	65.00	49.50	6.30		65.00	49.50	6.30	328	(b)
PDP	65.00	54.00	4.20		65.00	54.00	4.20	227	(b)
PDP	70.00	54.40	6.30		70.00	54.50	6.30	330	(b)
PDP	70.00	59.00	4.20		70.00	59.00	4.20	228	(b)
PDP	75.00	59.50	6.30		75.00	59.50	6.30	331	(b)
PDP	75.00	64.00	4.20		75.00	64.00	4.20	230	(b)
PDP	80.00	64.50	6.30	ISO	80.00	64.50	6.30	333	(b)
PDP	80.00	69.00	4.20	ISO	80.00	69.00	4.20	842	(b)
PDP	85.00	69.50	6.30		85.00	69.50	6.30	335	(b)

PDP



	Size				D H 10	d +0.1	L+0.2	OR	TYPE
PDP	90.00	74.50	6.30		90.00	74.50	6.30	336	(b)
PDP	95.00	79.50	6.30		95.00	79.50	6.30	338	(b)
PDP	100.00	84.50	6.30	ISO	100.00	84.50	6.30	339	(b)
PDP	110.00	94.50	6.30		110.00	94.50	6.30	343	(b)
PDP	120.00	104.50	6.30		120.00	104.50	6.30	346	(b)
PDP	125.00	109.50	6.30	ISO	125.00	109.50	6.30	347	(b)
PDP	130.00	114.50	6.30		130.00	114.50	6.30	349	(b)
PDP	140.00	119.00	8.10		140.00	119.00	8.10	426	(b)
PDP	150.00	129.00	8.10		150.00	129.00	8.10	430	(b)
PDP	160.00	139.00	8.10	ISO	160.00	139.00	8.10	433	(b)
PDP	170.00	149.00	8.10		170.00	149.00	8.10	436	(b)
PDP	180.00	159.00	8.10		180.00	159.00	8.10	438	(b)
PDP	200.00	179.00	8.10	ISO	200.00	179.00	8.10	441	(b)
PDP	250.00	229.00	8.10	ISO	250.00	229.00	8.10	447	(b)