

ROD SEALS

BECA 300



DESCRIPTION

The BECA 300 profile is a single acting compo-compact rod seal composed of a profiled rubber seal and a filled PTFE or POM back-up ring on the back depending on the type of application.

ADVANTAGES

- Optimised sealing effect
- Good chemical compatibility, depending on the material chosen
- Excellent wear resistance
- Excellent extrusion resistance

APPLICATIONS

- Mobile hydraulics
- Material handling - Lifting
- Presses
- Hydraulic cylinders

MATERIALS

Profiled seal

- NBR 80 Shore A
- FKM 80 Shore A

Back-up ring

- Polyoxymethylene - POM
- Bronze-filled PTFE

Other grades of materials are available. Please contact our experts.

TECHNICAL DATA

Temperature	-30°C / +200°C
Pressure	27.5 MPa
Speed	0.5 m/sec
Media	Mineral hydraulic oils Fire-resistant liquids Biocompatible fluids Water Others (contact our experts)

The figures above indicate the maximum values and may not be cumulated. They may be developed, depending on the materials used.

EXTRUSION GAPS

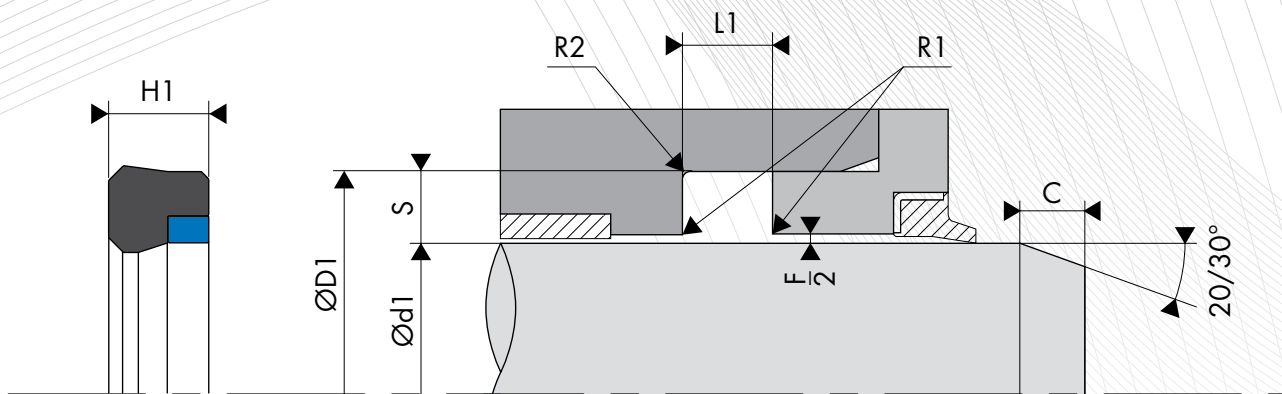
Pressure MPa	Radial gap F/2
15 MPa	0.30
20 MPa	0.25
25 MPa	0.20
27.5 MPa	0.15

SURFACE ROUGHNESS

Roughness	Dynamic surface area	Static surface area	Groove flanks
Ra	0.1 - 0.4 µm	≤1.6 µm	≤3.2 µm
Rz	0.63 - 2.5 µm	≤6.3 µm	≤10.0 µm
Rmax	1.0 - 4.0 µm	≤10.0 µm	≤16.0 µm

CHAMFERS AND RADIUS

Radial section S	Radius R1	Radius R2	Chamfer C
3.50	0.20	0.40	2.00
4.00	0.30	0.50	2.00
5.00	0.40	0.60	2.50
7.50	0.80	1.00	4.00



DIMENSIONS

Part number	Rod diameter Ød1 f8	Groove diameter ØD1 H10	Seal height H1	Groove width L1 0/+0.25
300.0012019	12.00	19.00	5.00	5.60
300.0014021	14.00	21.00	5.00	5.60
300.0016023	16.00	23.00	5.00	5.60
300.0018025	18.00	25.00	5.00	5.60
300.0020027	20.00	27.00	5.00	5.60
300.0022029	22.00	29.00	5.00	5.60
300.0028036	28.00	36.00	5.70	6.30
300.0032040	32.00	40.00	5.70	6.30
300.0035043	35.00	43.00	5.70	6.30
300.0036044	36.00	44.00	5.70	6.30
300.0038046	38.00	46.00	5.70	6.30
300.0040048	40.00	48.00	5.70	6.30

Part number	Rod diameter Ød1 f8	Groove diameter ØD1 H10	Seal height H1	Groove width L1 0/+0.25
300.0045053	45.00	53.00	5.70	6.30
300.0055065	55.00	65.00	6.75	7.50
300.0056066	56.00	66.00	6.75	7.50
300.0063073	63.00	73.00	6.75	7.50
300.0070080	70.00	80.00	6.75	7.50
300.0080090	80.00	90.00	6.75	7.50
300.0090100	90.00	100.00	6.75	7.50
300.0100115	100.00	115.00	9.50	10.50
300.0110125	110.00	125.00	9.50	10.50
300.0125140	125.00	140.00	9.50	10.50
300.0130155	130.00	155.00	9.50	10.50

The figures highlighted in bold correspond to the rod diameters that are recommended by standard ISO 3320. Other intermediate sizes can be provided.