

PISTON/ROD SEALS BECA 302



DESCRIPTION

The BECA 302 profile is a single acting compact symmetrical seal composed of a profiled FKM seal. It can be assembled in a groove according to standard ISO 5597.

ADVANTAGES

Optimised sealing effect
 Good chemical compatibility and wide temperature range, depending on the material chosen
 Excellent wear resistance
 Good extrusion resistance

APPLICATIONS

Mobile hydraulics
 Material handling - Lifting
 Presses
 Hydraulic cylinders

MATERIALS

FKM 80 Shore A

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

TECHNICAL DATA

Temperature	-20°C / +200°C
Pressure	25 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

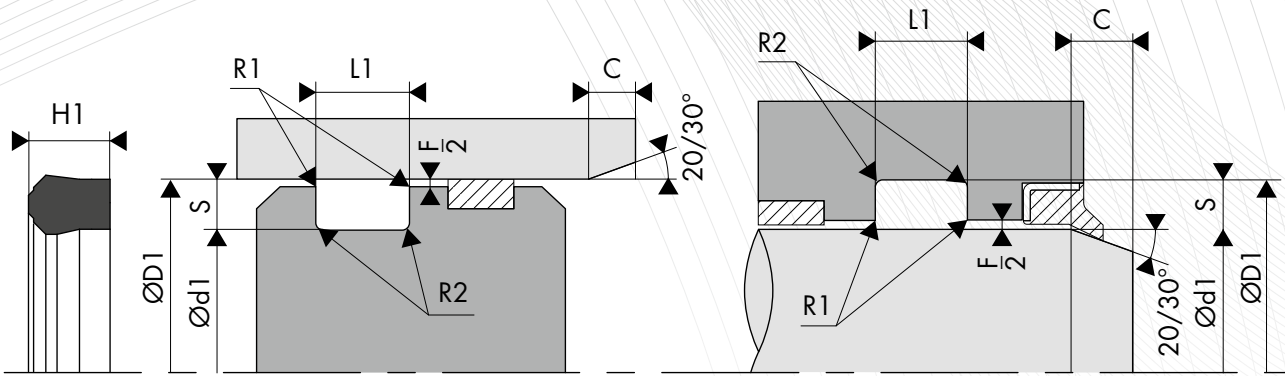
Pressure MPa	Radial gap F/2
15 MPa	0.20
25 MPa	0.10

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
4.00	0.20	0.40	2.00
5.00	0.40	0.70	2.50
6.00	0.70	1.10	3.00
7.50	0.70	1.10	4.00
10.00	1.00	1.10	5.00



DIMENSIONS

Part number	Rod diameter Ød1 f9	Groove diameter ØD1 H10	Seal height H1	Groove width L1 0/+0.25
302.0550656	55.00	65.00	6.00	7.00
302.1060070	60.00	70.00	7.20	8.00
302.0600717	60.00	71.00	7.00	8.00
302.0650756	65.00	75.00	6.00	7.00
301.80953G8	80.00	95.00	12.00	13.00
302.6025033	25.00	33.00	5.70	6.30
302.0250336	25.00	33.00	6.40	7.00

Part number	Rod diameter Ød1 f9	Groove diameter ØD1 H10	Seal height H1	Groove width L1 0/+0.25
302.028BBG6	28.00	36.00	5.70	6.30
302.1035043	35.00	43.00	5.37	6.30
302.6040048	40.00	48.00	5.70	6.30
302.0450556	45.00	55.00	6.00	7.00
302.1045055	45.00	55.00	11.00	12.00
302.8050060	50.00	60.00	7.50	8.00

The figures highlighted in bold correspond to the dimensions for standard ISO 5597, with the rod and bore diameters in line with standard ISO 3320. Other intermediate sizes can be provided.