

ROD SEALS BECA 239



DESCRIPTION

The BECA 239 profile is a U-ring type single acting rod seal with offset lips composed of a profiled rubber seal and a bronze-filled PTFE back-up ring on the back.

ADVANTAGES

Optimised sealing effect at average and higher pressures
Good extrusion resistance

APPLICATIONS

Mobile hydraulics
Material handling - Lifting
Hydraulic cylinders

MATERIALS

Profiled seal

NBR 85 Shore A

Back-up ring

Bronze-filled PTFE

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

TECHNICAL DATA

Temperature	-30°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

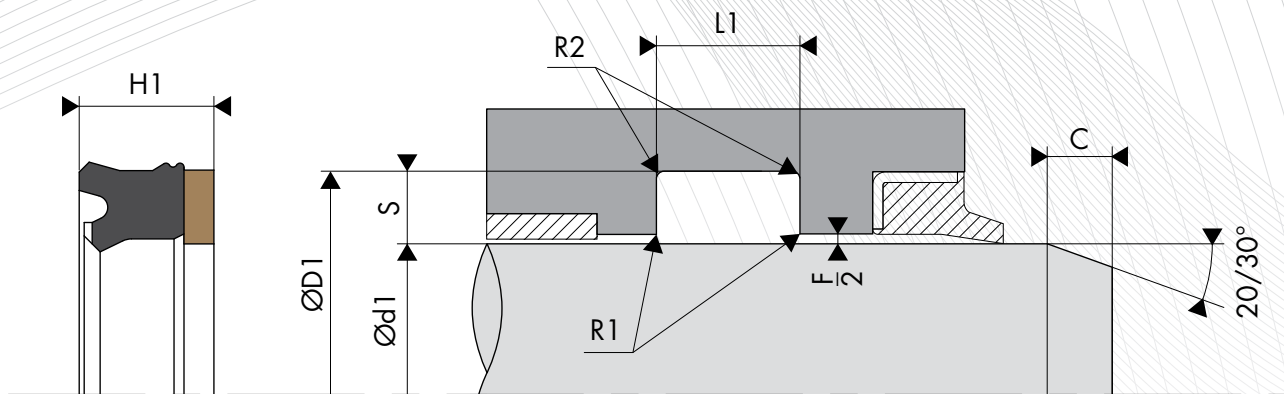
Pressure MPa	Radial gap F/2
10 MPa	0.25
15 MPa	0.20
20 MPa	0.15
25 MPa	0.10

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	0.80	1.10	4.00
10.00	1.00	1.10	5.00



DIMENSIONS

Part number	Rod diameter Ød1 f8	Groove diameter ØD1 H10	Seal height H1	Groove width L1 0/+0.20
239.0300401	30.00	40.00	10.00	11.00
239.0350605	35.00	60.00	15.50	17.00
239.0400501	40.00	50.00	10.00	11.00
239.0450551	45.00	55.00	10.00	11.00
239.0450705	45.00	70.00	15.50	17.00
239.0500634	50.00	63.00	13.00	14.00
239.0550684	55.00	68.00	13.00	14.00
239.0600734	60.00	73.00	13.00	14.00
239.0650784	65.00	78.00	13.00	14.00
239.0650902	65.00	90.00	18.00	20.00
239.0700831	70.00	83.00	13.00	14.00

Part number	Rod diameter Ød1 f8	Groove diameter ØD1 H10	Seal height H1	Groove width L1 0/+0.20
239.0750883	75.00	88.00	13.00	14.00
239.0800933	80.00	93.00	13.00	14.00
239.0851004	85.00	100.00	13.00	14.00
239.0901054	90.00	105.00	13.00	14.00
239.0951103	95.00	110.00	13.50	14.50
239.1001153	100.00	115.00	13.00	14.00
239.1101303	110.00	130.00	13.00	14.00
239.1201403	120.00	140.00	13.00	14.00
239.1301506	130.00	150.00	16.00	17.00
239.1401607	140.00	160.00	16.00	17.00
239.1601806	160.00	180.00	16.00	17.00

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