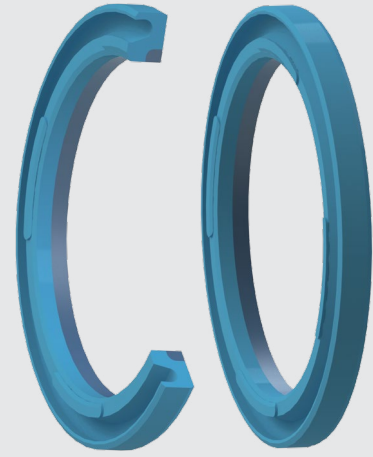


# ROD SEALS BECA 316



## DESCRIPTION

The BECA 316 profile is a single acting buffer rod seal with offset lips composed of a profiled polyurethane seal and a POM back-up ring on the back.

## ADVANTAGES

- Primary seal
- Low friction coefficient
- Excellent abrasion resistance
- Excellent extrusion resistance

## APPLICATIONS

- Agriculture
- Mobile machinery
- Injection presses
- Hydraulic cylinders

## MATERIALS

### Profiled seal

- PU 96 Shore A - Blue
- High temp. PU 96 Shore A - Beige

### Back-up ring

- Polyoxymethylene - POM

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

## TECHNICAL DATA

Temperature	-30°C / +110°C
Pressure	40 MPa (peak at 60 MPa)
Speed	1 m/s
Media	Mineral hydraulic oils

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

## EXTRUSION GAPS

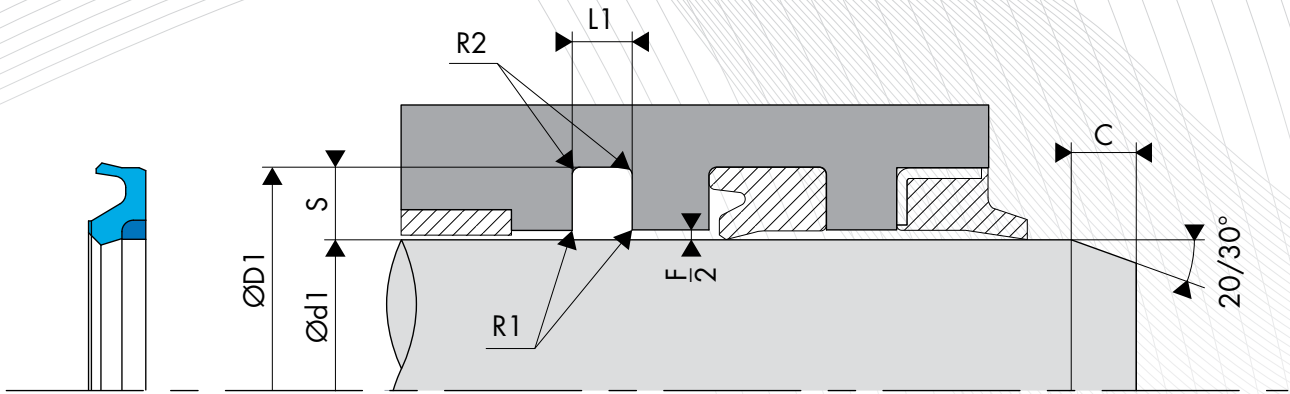
Radial section S	Radial gap F/2			
	15 MPa	25 MPa	30 MPa	40 MPa
≤ 7.75	0.60	0.50	0.40	0.35
≤ 10.50	0.70	0.60	0.50	0.40

## 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
7.75	0.20	0.40	4.00
10.50	0.20	0.50	5.00



**DIMENSIONS**

Part number	Rod diameter Ød1 f8	Groove diameter ØD1 H9	Seal height H1	Groove width L1 0/+0.25
316.5570HPU	55.00	70.50	6.00	6.30
316.5671HPU	56.00	71.10	6.00	6.30
316.0650806	65.00	80.50	6.00	6.30
<b>316.0700856</b>	<b>70.00</b>	<b>85.50</b>	<b>6.00</b>	<b>6.30</b>
316.0750906	75.00	90.50	6.00	6.30
<b>316.0800956</b>	<b>80.00</b>	<b>95.50</b>	<b>6.00</b>	<b>6.30</b>
316.0851006	85.00	100.50	6.00	6.30
<b>316.0901056</b>	<b>90.00</b>	<b>105.50</b>	<b>6.00</b>	<b>6.30</b>
316.0951106	95.00	110.50	6.00	6.30
<b>316.1001156</b>	<b>100.00</b>	<b>115.50</b>	<b>6.00</b>	<b>6.30</b>
316.1051206	105.00	120.50	6.00	6.30
<b>316.1101256</b>	<b>110.00</b>	<b>125.50</b>	<b>6.00</b>	<b>6.30</b>
316.1151306	115.00	130.50	6.00	6.30

Part number	Rod diameter Ød1 f8	Groove diameter ØD1 H9	Seal height H1	Groove width L1 0/+0.25
316.1201356	120.00	135.50	6.00	6.30
<b>316.1251406</b>	<b>125.00</b>	<b>140.50</b>	<b>6.00</b>	<b>6.30</b>
316.1301456	130.00	145.50	6.00	6.30
316.1231476	132.00	147.50	6.00	6.30
316.1351506	135.00	150.50	6.00	6.30
<b>316.1401556</b>	<b>140.00</b>	<b>155.50</b>	<b>6.00</b>	<b>6.30</b>
316.1501656	150.00	165.50	6.00	6.30
<b>316.1601756</b>	<b>160.00</b>	<b>175.50</b>	<b>6.00</b>	<b>6.30</b>
316.1701856	170.00	185.50	6.00	6.30
<b>316.1801956</b>	<b>180.00</b>	<b>195.50</b>	<b>6.00</b>	<b>6.30</b>
316.1902056	190.00	205.50	6.00	6.30
<b>316.2002217</b>	<b>200.00</b>	<b>221.00</b>	<b>7.70</b>	<b>8.00</b>
316.2102317	210.00	231.00	7.70	8.00

The figures highlighted in bold correspond to the dimensions for standard ISO 7425/2, with the rod diameters in line with standard ISO 3320. Other intermediate sizes can be provided.