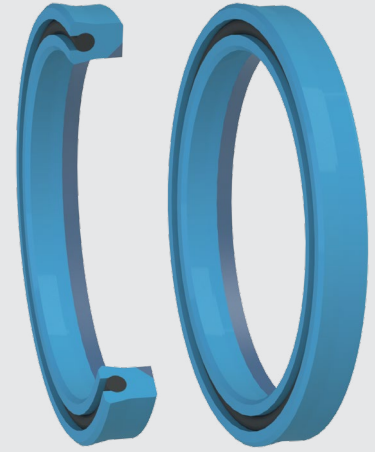


ROD SEALS BECA 322



DESCRIPTION

The BECA 322 profile is a U-ring type single acting rod seal with matching lips, composed of a profiled polyurethane seal, a NBR O'Ring to preserve its elastic memory and a triangular POM back-up ring on the back. It can be assembled in a groove according to standard ISO 5597.

ADVANTAGES

- Very good sealing at low pressures
- Elastic memory preserved using the O'Ring
- Excellent abrasion resistance
- Very good extrusion resistance

APPLICATIONS

- Agriculture
- Mobile machinery
- Lifting systems
- Injection presses
- Hydraulic cylinders

MATERIALS

Profiled seal

- PU 93 Shore A - Blue
- PU 96 Shore A - Blue
- High temp. PU 96 Shore A - Beige

O'Ring

- NBR 70 Shore A

Back-up ring

- Polyoxymethylene - POM

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

TECHNICAL DATA

Temperature	-30°C / +100°C
Pressure	45 MPa
Speed	0.5 m/sec
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

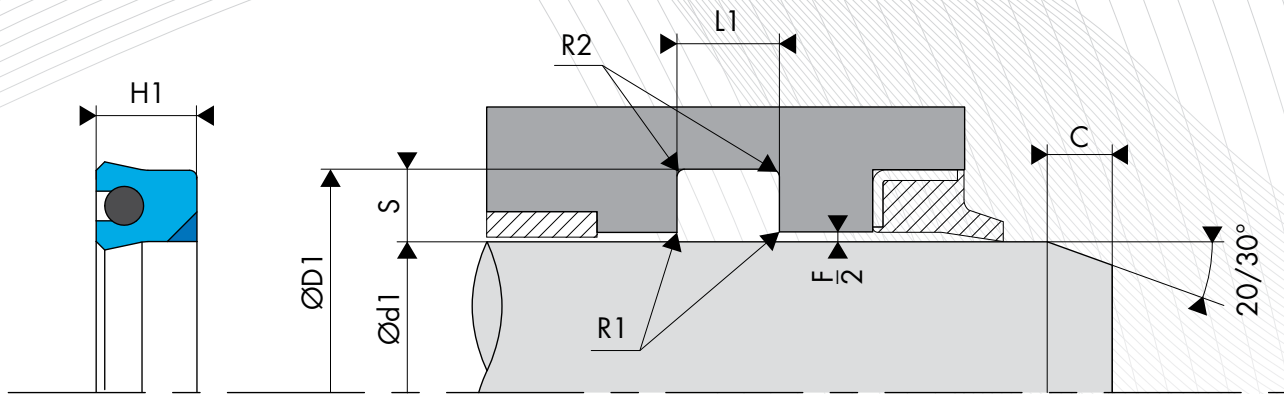
Pressure MPa	Radial gap F/2
20 MPa	0.30
25 MPa	0.25
35 MPa	0.15
40 MPa	0.10
45 MPa	0.07

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
3.00	0.20	0.40	2.00
4.00	0.40	0.60	2.50
5.00	0.80	1.00	2.50
7.50	0.80	1.00	4.00
10.00	0.80	1.00	5.00



DIMENSIONS

Part number	Rod diameter Ød1 f8	Groove diameter ØD1 H10	Seal height H1	Groove width L1 0/+0.25
322.0060146	6.00	14.00	5.70	6.30
322.0080166	8.00	16.00	5.70	6.30
322.0100186	10.00	18.00	5.70	6.30
322.0100208	10.00	20.00	7.30	8.00
322.0120206	12.00	20.00	5.70	6.30
322.0120228	12.00	22.00	7.30	8.00
322.0140226	14.00	22.00	5.70	6.30
322.0140248	14.00	24.00	7.30	8.00
322.0160246	16.00	24.00	5.70	6.30
322.0160268	16.00	26.00	7.30	8.00
322.0180255	18.00	25.00	5.00	5.60
322.0180266	18.00	26.00	5.70	6.30
322.0180288	18.00	28.00	7.30	8.00
322.0200275	20.00	27.00	5.20	5.60
322.0200281	20.00	28.00	5.70	6.30
322.0200308	20.00	30.00	7.30	8.00
322.0220301	22.00	30.00	5.70	6.30
322.0220328	22.00	32.00	7.30	8.00
322.0250325	25.00	32.00	5.00	5.60
322.0250331	25.00	33.00	5.70	6.30
322.0250358	25.00	35.00	7.30	8.00
322.0280361	28.00	36.00	5.70	6.30
322.0280381	28.00	38.00	7.20	8.00
322.0280388	28.00	38.00	7.30	8.00
322.0280432	28.00	43.00	11.50	12.50
322.0300386	30.00	38.00	5.70	6.30
322.0320401	32.00	40.00	5.70	6.30
322.0320421	32.00	42.00	7.20	8.00
322.0320428	32.00	42.00	7.30	8.00
322.0320472	32.00	47.00	11.50	12.50
322.0350436	35.00	43.00	5.70	6.30
322.0360441	36.00	44.00	5.70	6.30
322.0360461	36.00	46.00	7.20	8.00
322.0360468	36.00	46.00	7.30	8.00
322.0360481	36.00	48.00	9.00	10.00
322.0360512	36.00	51.00	11.50	12.50
322.0400501	40.00	50.00	7.20	8.00
322.0400508	40.00	50.00	7.30	8.00
322.0400552	40.00	55.00	11.50	12.50
322.0420506	42.00	50.00	5.70	6.30
322.0450551	45.00	55.00	7.20	8.00
322.0450558	45.00	55.00	7.30	8.00
322.0450601	45.00	60.00	10.00	11.00
322.0450602	45.00	60.00	11.50	12.50
322.0500601	50.00	60.00	7.20	8.00

Part number	Rod diameter Ød1 f8	Groove diameter ØD1 H10	Seal height H1	Groove width L1 0/+0.25
322.0500608	50.00	60.00	7.30	8.00
322.0500609	50.00	60.00	8.00	9.00
322.0500621	50.00	62.00	9.00	10.00
322.0500652	50.00	65.00	11.50	12.50
322.0550636	55.00	63.00	5.70	6.30
322.0560719	56.00	71.00	9.50	10.50
322.0560711	56.00	71.00	10.00	11.00
322.0560711	56.00	71.00	11.50	12.50
322.0560766	56.00	76.00	15.00	16.00
322.0600703	60.00	70.00	12.00	13.00
322.0600750	60.00	75.00	10.00	11.00
322.0600753	60.00	75.00	11.50	12.50
322.0630788	63.00	78.00	7.50	8.00
322.0630781	63.00	78.00	11.50	12.50
322.0630836	63.00	83.00	15.00	16.00
322.8650802	65.00	80.00	8.00	9.00
322.0650802	65.00	80.00	11.50	12.50
322.0700807	70.00	80.00	6.50	7.50
322.0700851	70.00	85.00	10.00	11.00
322.0700851	70.00	85.00	11.50	12.50
322.0700902	70.00	90.00	12.00	13.00
322.0700903	70.00	90.00	13.50	14.50
322.0700906	70.00	90.00	15.00	16.00
322.0750952	75.00	95.00	12.00	13.00
322.0750953	75.00	95.00	13.50	14.50
322.0800951	80.00	95.00	10.50	11.50
322.0800952	80.00	95.00	11.00	12.00
322.0800951	80.00	95.00	11.50	12.50
322.0801002	80.00	100.00	11.50	12.50
322.0801003	80.00	100.00	13.50	14.50
322.0801006	80.00	100.00	15.00	16.00
322.0851002	85.00	100.00	12.00	
322.0901007	90.00	100.00	6.50	7.50
322.0901051	90.00	105.00	11.50	12.50
322.0901052	90.00	105.00	12.50	13.50
322.0901109	90.00	110.00	9.50	10.00
322.0901102	90.00	110.00	11.40	12.50
322.0901101	90.00	110.00	11.50	12.50
322.0901106	90.00	110.00	15.00	16.00
322.0951153	95.00	115.00	13.50	14.50
322.0961042	96.00	104.00	11.10	12.00
322.1001203	100.00	120.00	13.50	14.50
322.1001201	100.00	120.00	15.00	16.00
322.1001250	100.00	125.00	19.00	20.00
322.1101250	110.00	125.00	9.60	10.60

Part number	Rod diameter Ød1 f8	Groove diameter ØD1 H10	Seal height H1	Groove width L1 0/+0.25
322.1101302	110.00	130.00	12.00	13.00
322.1101303	110.00	130.00	13.50	14.50
322.1101301	110.00	130.00	15.00	16.00
322.1101350	110.00	135.00	19.00	20.00
322.1201402	120.00	140.00	11.50	12.50
322.1241322	124.00	132.00	11.10	12.00
322.1251456	125.00	145.00	15.00	16.00
322.1251500	125.00	150.00	19.00	20.00
322.1301504	130.00	150.00	13.50	14.50
322.1401606	140.00	160.00	15.00	16.00
322.1401650	140.00	165.00	19.00	20.00
322.1451600	145.00	160.00	9.60	10.60
322.1581662	158.00	166.00	11.10	12.00
322.1601850	160.00	185.00	19.00	20.00

Part number	Rod diameter Ød1 f8	Groove diameter ØD1 H10	Seal height H1	Groove width L1 0/+0.25
322.1601905	160.00	190.00	24.00	25.00
322.1802050	180.00	205.00	19.00	20.00
322.1802105	180.00	210.00	24.00	25.00
322.1852000	185.00	200.00	9.60	10.60
322.1982062	198.00	206.00	11.10	12.00
322.1982082	198.00	208.00	11.20	12.00
322.2002250	200.00	225.00	19.00	20.00
322.2002305	200.00	230.00	24.00	25.00
322.2182304	218.00	230.00	13.00	14.00
322.2202505	220.00	250.00	24.00	25.00
322.2502805	250.00	280.00	24.00	25.00
322.2803105	280.00	310.00	24.00	25.00
322.3203602	320.00	360.00	31.00	32.00
322.3604002	360.00	400.00	31.00	32.00

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