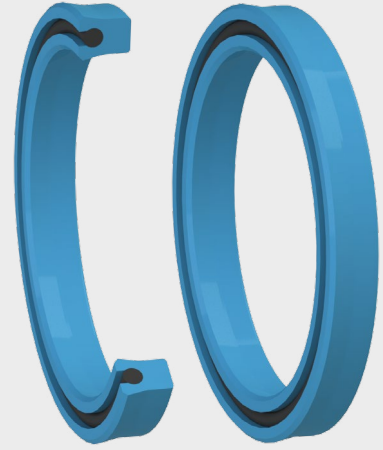


PISTON/ROD SEALS BECA 320



DESCRIPTION

The BECA 320 profile is a U-ring type single acting rod seal with matching lips composed of a profiled polyurethane seal and a NBR O'Ring to preserve its elastic memory. 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

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

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

TECHNICAL DATA

Temperature	-30°C / +100°C
Pressure	40 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

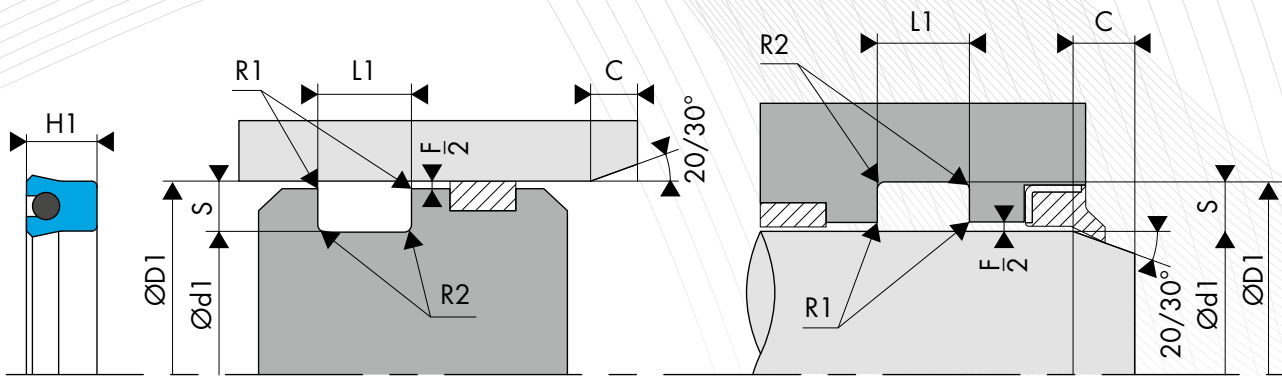
Pressure MPa	Radial gap F/2
20 MPa	0.30
25 MPa	0.25
35 MPa	0.15
40 MPa	0.10

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 f8	Groove diameter ØD1 H9 Bore diameter Ød1 H10	Seal height H1	Groove width L1 0/+0.25
320.7009022	9.50	22.00	6.50	7.00
320.5016023	16.00	23.00	5.00	5.60
320.8076084	76.00	84.00	8.20	9.00
320.7628899	76.20	88.90	9.52	10.20
320.1079090	79.00	90.00	12.00	13.00
320.7080090	80.00	90.00	6.80	7.50
320.2080095	80.00	95.00	11.50	12.50
320.1080100	80.00	100.00	15.00	16.00
320.8088096	88.00	96.00	8.20	9.00
320.0881019	88.90	101.60	9.52	10.20
320.7090098	90.00	98.00	6.00	7.00
320.8090098	90.00	98.00	8.20	9.00
320.6016024	16.00	24.00	5.70	6.30
320.7090100	90.00	100.00	6.50	7.50
320.2090105	90.00	103.00	11.50	12.50
320.1090105	90.00	105.00	11.50	12.50
320.1090110	90.00	110.00	15.00	16.00
320.7091099	91.00	99.00	6.00	7.00
320.8091099	91.00	99.00	8.20	9.00
320.9091099	91.00	99.00	8.20	9.00
320.1100115	100.00	115.00	12.00	13.00
320.1100120	100.00	120.00	15.00	16.00
320.2100125	100.00	125.00	19.00	20.00
320.8016026	16.00	26.00	7.30	8.00
320.8107115	107.00	115.00	8.20	9.00
320.1110125	110.00	125.00	9.60	10.60
320.1110130	110.00	130.00	15.00	16.00
320.2110135	110.00	135.00	19.00	20.00
320.1125140	125.00	140.00	15.00	16.00
320.1125145	125.00	145.00	15.00	16.00
320.2125150	125.00	150.00	19.00	20.00
320.8126134	126.00	134.00	8.20	9.00
320.1134149	134.80	149.40	16.00	17.00
320.1140160	140.00	160.00	15.00	16.00
320.5018025	18.00	25.00	5.00	5.60
320.2140165	140.00	165.00	19.00	20.00
320.8145153	145.00	153.00	8.20	9.00
320.1145160	145.00	160.00	9.60	10.60
320.1147155	147.00	155.00	10.00	11.00
320.2160185	160.00	185.00	19.00	20.00
320.2160190	160.00	190.00	24.00	25.00

Part number	Rod diameter Ød1 f8 Groove diameter Ød1 f8	Groove diameter ØD1 H9 Bore diameter Ød1 H10	Seal height H1	Groove width L1 0/+0.25
320.8165173	165.00	173.00	8.20	9.00
320.1170180	170.00	180.00	10.00	11.00
320.1180205	180.00	205.00	15.00	16.00
320.2180205	180.00	205.00	19.00	20.00
320.6018026	18.00	26.00	5.70	6.30
320.2180210	180.00	210.00	24.00	25.00
320.1185200	185.00	200.00	9.60	10.60
320.2200225	200.00	225.00	19.00	20.00
320.2200230	200.00	230.00	24.00	25.00
320.2220250	220.00	250.00	24.00	25.00
320.2249279	249.35	279.00	22.50	23.50
320.2250280	250.00	280.00	24.00	25.00
320.2280310	280.00	310.00	24.00	25.00
320.3320360	320.00	360.00	31.00	32.00
320.3360400	360.00	400.00	31.00	32.00
320.8018028	18.00	28.00	7.30	8.00
320.5020027	20.00	27.00	5.00	5.60
320.6020028	20.00	28.00	5.70	6.30
320.7020028	20.00	28.00	6.40	7.00
320.8020030	20.00	30.00	7.30	8.00
320.6010018	10.00	18.00	5.70	6.30
320.5022029	22.00	29.00	5.00	5.60
320.6022030	22.00	30.00	5.70	6.30
320.8022032	22.00	32.00	7.20	8.00
320.5025032	25.00	32.00	5.00	5.60
320.6025033	25.00	33.00	5.70	6.30
320.7025033	25.00	33.00	6.40	7.00
320.8025035	25.00	35.00	7.30	8.00
320.1025038	25.40	38.10	14.30	15.00
320.6028036	28.00	36.00	5.70	6.30
320.8028038	28.00	38.00	7.20	8.00
320.8010020	10.00	20.00	7.30	8.00
320.1028043	28.00	43.00	11.50	12.50
320.5028034	28.60	34.90	4.50	5.60
320.6030038	30.00	38.00	5.70	6.30
320.7030038	30.00	38.00	6.40	7.00
320.8030040	30.00	40.00	7.20	8.00
320.3184138	31.80	41.30	7.90	8.50
320.6032040	32.00	40.00	5.70	6.30
320.7032042	32.00	42.00	6.30	7.00
320.8032042	32.00	42.00	7.20	8.00

Part number	Rod diameter Ød1 f8	Groove diameter ØD1 H9	Seal height H1	Groove width L1 0/+0.25
	Groove diameter Ød1 f8	Bore diameter ØD1 H10		
320.1032045	32.00	45.00	10.00	11.00
320.7011018	11.10	18.00	6.50	7.00
320.1032047	32.00	47.00	11.50	12.50
320.3494457	34.90	44.45	7.90	8.50
320.6035043	35.00	43.00	5.70	6.30
320.7035043	35.00	43.00	6.40	7.00
320.6036044	36.00	44.00	5.70	6.30
320.8036046	36.00	46.00	7.20	8.00
320.1036051	36.00	51.00	11.50	12.50
320.9037047	37.00	47.00	8.00	9.00
320.4038044	38.00	44.00	3.20	4.00
320.8038053	38.70	53.10	7.00	8.00
320.6012020	12.00	20.00	5.70	6.30
320.6040048	40.00	48.00	5.70	6.30
320.8040050	40.00	50.00	7.20	8.00
320.1040050	40.00	50.00	10.00	11.00
320.1040055	40.00	55.00	11.50	12.50
320.4135089	41.30	50.80	9.52	10.00
320.6042050	42.00	50.00	5.70	6.30
320.0440549	44.45	54.00	9.52	10.00
320.1044057	44.45	57.15	9.52	10.00
320.6045053	45.00	53.00	5.70	6.30
320.8045053	45.00	53.00	8.20	9.00
320.8012022	12.00	22.00	7.30	8.00
320.8045055	45.00	55.00	7.20	8.00
320.1045060	45.00	60.00	11.50	12.50
320.4765719	47.62	57.15	9.52	10.00
320.6050058	50.00	58.00	5.70	6.30
320.8050060	50.00	60.00	7.20	8.00
320.1050060	50.00	60.00	10.00	11.00
320.1050061	50.00	60.00	11.50	12.50
320.1050065	50.00	65.00	11.50	12.50
320.5050060	50.75	60.20	5.00	5.60
320.8053063	53.00	63.00	7.50	8.50

Part number	Rod diameter Ød1 f8	Groove diameter ØD1 H9	Seal height H1	Groove width L1 0/+0.25
	Groove diameter Ød1 f8	Bore diameter ØD1 H10		
320.5013023	13.40	23.00	5.00	5.60
320.5396356	53.98	63.50	6.35	7.00
320.6055063	55.00	63.00	5.70	6.30
320.1055063	55.00	63.00	12.30	13.00
320.7055065	55.00	65.00	6.80	7.50
320.7056066	56.00	66.00	6.80	7.50
320.1056071	56.00	71.00	10.50	11.50
320.2056071	56.00	71.00	11.50	12.50
320.1056076	56.00	76.00	15.00	16.00
320.0570669	57.20	66.70	9.52	10.00
320.5726999	57.20	69.90	9.52	10.20
320.6014022	14.00	22.00	5.70	6.30
320.8060068	60.00	68.00	8.20	9.00
320.7060070	60.00	70.00	6.80	7.50
320.3060070	60.00	70.00	12.00	13.00
320.1060071	60.00	71.00	10.00	11.00
320.8061069	61.00	69.00	8.20	9.00
320.7063073	63.00	73.00	6.80	7.50
320.2063078	63.00	78.00	11.50	12.50
320.1063083	63.00	83.00	15.00	16.00
320.6357309	63.50	73.03	9.52	10.00
320.6357629	63.50	76.20	9.52	10.20
320.8014024	14.00	24.00	7.30	8.00
320.1064072	64.00	72.00	13.00	14.00
320.9065080	65.00	80.00	8.00	9.00
320.8068076	68.00	76.00	8.20	9.00
320.1069082	69.85	82.55	9.52	10.00
320.7070080	70.00	80.00	6.80	7.50
320.2070085	70.00	83.00	11.50	12.50
320.1070085	70.00	85.00	11.50	12.50
320.1070090	70.00	90.00	15.00	16.00
320.7072082	72.00	82.00	6.80	7.50
320.8075083	75.00	83.00	8.20	9.00

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.