

PISTON SEALS

BECA 003



DESCRIPTION

The BECA 003 profile is a 3-part chevron seal in which the central part, which is made of textile-reinforced NBR, is encapsulated between a POM head nut and a TPE locking ring.

ADVANTAGES

Strong sealing, tolerant to defects in the surface condition (impacts on the rod, carbon deposits, etc.)

The tightness can be adjusted depending on the application

Excellent resistance to pressure

APPLICATIONS

Cylinders for extreme demands

Presses

Steel industry

Mining machines

Installations in corrosive and abrasive environments

MATERIALS

POM + fabric NBR + TPE

TECHNICAL DATA

Temperature	-30°C / +110°C
Pressure	40 MPa
Speed	0.5 m/sec
Media	Mineral oils

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

EXTRUSION GAPS

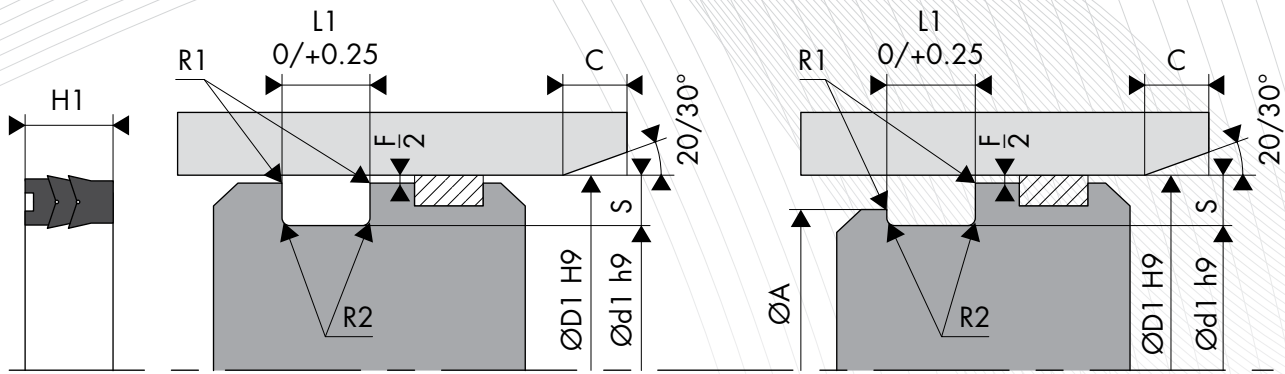
Radial section S	Radial gap F/2			
	16 MPa	26 MPa	32 MPa	40 MPa
≤ 5.00	0.50	0.40	0.35	-
≤ 7.50	0.55	0.45	0.40	0.35
≤ 12.50	0.60	0.50	0.45	0.40
≤ 15.00	0.65	0.55	0.45	0.40

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

Bore diameter ØD1	Radius R1	Radius R2	Chamfer C
≤ 100.00	0.30	0.40	2.50
> 100.00	0.30	0.80	4.00



DIMENSIONS

Part number	Bore diameter ØD1 H9	Groove diameter Ød1 h9	Groove width L1 0/+0.25
003.302009	20.00	10.00	9.30
003.302209	22.00	12.00	9.30
003.302509	25.00	15.00	9.30
003.302809	28.00	18.00	9.30
003.303009	30.00	20.00	9.30
003.303210	32.00	20.00	10.90
003.303510	35.00	23.00	10.90
003.303610	36.00	24.00	10.90
003.304011	40.00	25.00	11.50
003.304211	42.00	27.00	11.50
003.304511	45.00	30.00	11.50
003.305011	50.00	35.00	11.50
003.305511	55.00	40.00	11.50
003.305611	56.00	41.00	11.50
003.306011	60.00	45.00	11.50
003.306313	63.00	48.00	13.00
003.307015	70.00	50.00	15.20
003.308015	80.00	60.00	15.20
003.39021	90.00	70.00	21.20
003.310021	100.00	80.00	21.20
003.311021	110.00	90.00	21.20
003.311521	115.00	95.00	21.20
003.312525	125.00	100.00	25.80
003.314025	140.00	115.00	25.80
003.315029	150.00	120.00	29.00

Part number	Bore diameter ØD1 H9	Groove diameter Ød1 h9	Groove width L1 0/+0.25
003.315534	155.00	125.00	34.00
003.316029	160.00	130.00	29.00
003.318031	180.00	150.00	31.50
003.319532	195.00	165.00	32.50
003.320033	200.00	170.00	33.50
003.321033	210.00	180.00	33.50
003.322033	220.00	190.00	33.50
003.322533	225.00	195.00	33.50
003.323033	230.00	200.00	33.50
003.324033	240.00	215.00	33.50
003.325033	250.00	220.00	33.50
003.327033	270.00	240.00	33.50
003.327533	275.00	245.00	33.50
003.328033	280.00	250.00	33.50
003.330033	300.00	270.00	33.50
003.331033	310.00	280.00	33.50
003.332033	320.00	290.00	33.50
003.333032	330.00	300.00	32.00
003.334032	340.00	300.00	32.00
003.336033	360.00	320.00	33.50
003.338042	380.00	340.00	42.50
003.340040	400.00	360.00	40.00
003.342040	420.00	380.00	40.00
003.345041	450.00	410.00	41.50
003.346040	460.00	420.00	40.00

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