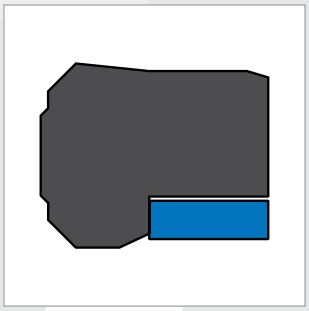


ROD SEALS

BECA 190

DESCRIPTION

The BECA 190 profile is a compo-compact rod seal composed of a profiled rubber ring and a POM back-up ring on the back as standard. It can be assembled in a groove according to standard ISO 5597.

ADVANTAGES

Excellent wear resistance

Good chemical resistance

Can be assembled in a closed groove for Ød1 ≥ 30.00 mm

APPLICATIONS

Mobile hydraulics

Presses

Aftermarket

Standard cylinders

MATERIALS

Profiled seal

NBR 80 Shore A

FKM 80 Shore A

Back-up ring

Polyoxymethylene - POM

Bronze-filled PTFE

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

TECHNICAL DATA

Temperature	-30°C / +200°C
Pressure	50 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

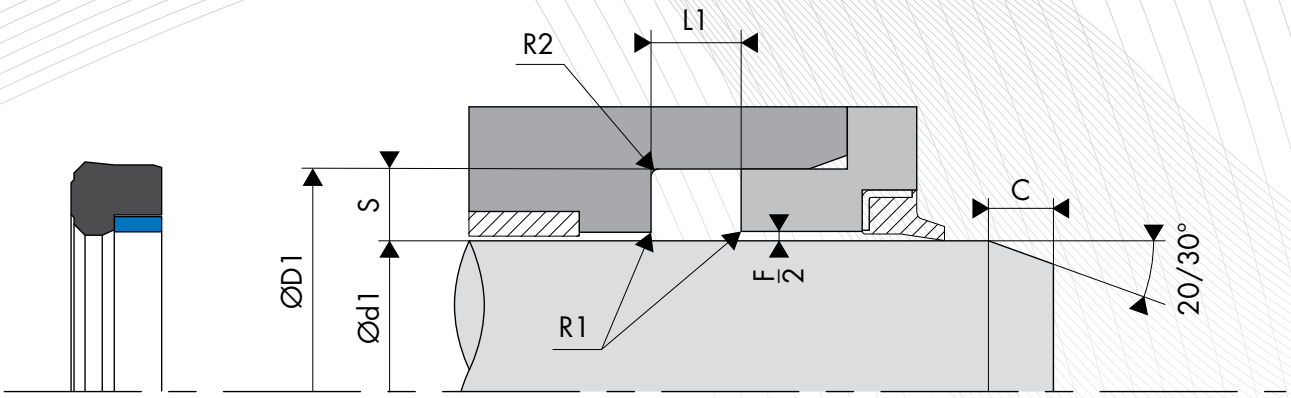
Pressure MPa	Radial gap F/2
10 MPa	0.65
20 MPa	0.55
35 MPa	0.45
50 MPa	0.35

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
5.00	0.40	0.60	2.50
7.50	0.80	1.00	4.00
10.00	0.80	1.00	5.00
12.50	1.00	1.20	6.50



DIMENSIONS

Part number	Rod diameter Ød1 f8	Groove diameter ØD1 H11	Groove width L1 0/+0.20
190.0006014	**6.00**	**14.00**	**6.30**
190.0008016	**8.00**	**16.00**	**6.30**
190.0010018	**10.00**	**18.00**	**6.30**
190.0010020	**10.00**	**20.00**	**8.00**
190.0012020	**12.00**	**20.00**	**6.30**
190.0012022	**12.00**	**22.00**	**8.00**
190.0014022	**14.00**	**22.00**	**6.30**
190.0014024	**14.00**	**24.00**	**8.00**
190.0016024	**16.00**	**24.00**	**6.30**
190.0016026	**16.00**	**26.00**	**8.00**
190.0018026	**18.00**	**26.00**	**6.30**
190.0018028	**18.00**	**28.00**	**8.00**
190.0020028	**20.00**	**28.00**	**6.30**
190.0020030	**20.00**	**30.00**	**8.00**
190.0022030	**22.00**	**30.00**	**6.30**
190.0022032	**22.00**	**32.00**	**8.00**
190.0025033	**25.00**	**33.00**	**6.30**
190.0025035	**25.00**	**35.00**	**8.00**
190.0028038	**28.00**	**38.00**	**8.00**
190.0028043	**28.00**	**43.00**	**12.50**
190.1030040	30.00	40.00	8.00
190.0032042	**32.00**	**42.00**	**8.00**
190.0032047	**32.00**	**47.00**	**12.50**
190.2033045	33.00	45.00	10.00
190.0035045	35.00	45.00	8.00
190.0036046	**36.00**	**46.00**	**8.00**
190.0036051	**36.00**	**51.00**	**12.50**
190.0040050	**40.00**	**50.00**	**8.00**
190.0040055	**40.00**	**55.00**	**12.50**

Part number	Rod diameter Ød1 f8	Groove diameter ØD1 H11	Groove width L1 0/+0.20
190.0045055	**45.00**	**55.00**	**8.00**
190.0045060	**45.00**	**60.00**	**12.50**
190.0050060	**50.00**	**60.00**	**8.00**
190.0050065	**50.00**	**65.00**	**12.50**
190.0055070	55.00	70.00	12.50
190.0056071	**56.00**	**71.00**	**12.50**
190.0056076	**56.00**	**76.00**	**16.00**
190.0060075	60.00	75.00	12.50
190.0063078	**63.00**	**78.00**	**12.50**
190.0063083	**63.00**	**83.00**	**16.00**
190.0065080	65.00	80.00	12.50
190.0070085	**70.00**	**85.00**	**12.50**
190.0070090	**70.00**	**90.00**	**16.00**
190.0080095	**80.00**	**95.00**	**12.50**
190.0080100	**80.00**	**100.00**	**16.00**
190.0090105	**90.00**	**105.00**	**12.50**
190.0090110	**90.00**	**110.00**	**16.00**
190.0100120	**100.00**	**120.00**	**16.00**
190.0100125	**100.00**	**125.00**	**20.00**
190.0110130	**110.00**	**130.00**	**16.00**
190.0110135	110.00	135.00	20.00
190.0125145	**125.00**	**145.00**	**16.00**
190.0125150	**125.00**	**150.00**	**20.00**
190.2140160	140.00	160.00	12.00
190.0140160	**140.00**	**160.00**	**16.00**
190.0140165	**140.00**	**165.00**	**20.00**
190.0160185	**160.00**	**185.00**	**20.00**
190.0180205	**180.00**	**205.00**	**20.00**
190.0200225	**200.00**	**225.00**	**20.00**

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.