

ROD SEALS

BECA 230



DESCRIPTION

The BECA 230 profile is a U-ring type single acting rod seal with offset rubber lips.

ADVANTAGES

Optimised sealing effect
 Excellent resistance to high temperatures depending on the type of material chosen
 Assembly by deformation in closed groove

APPLICATIONS

Mobile hydraulics
 Machine tools
 Presses
 Standard cylinders

MATERIALS

NBR 70 Shore A
 NBR 85 Shore A
 FKM 85 Shore A

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

TECHNICAL DATA

Temperature	-30°C / +200°C
Pressure	15 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

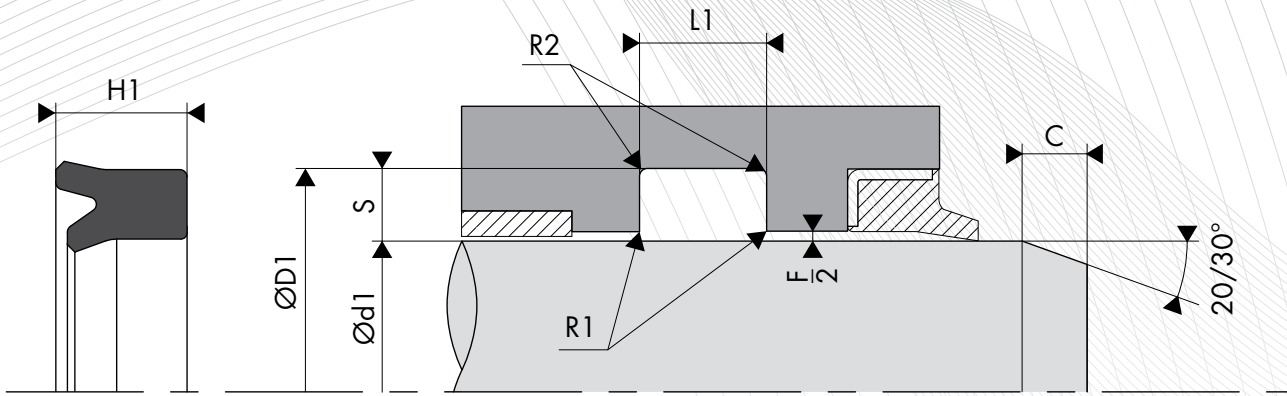
Pressure MPa	Radial gap F/2
2.5 MPa	0.45
5.0 MPa	0.35
7.5 MPa	0.30
10.0 MPa	0.25
15.0 MPa	0.20

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
3.50	0.20	0.40	2.00
5.00	0.40	0.60	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 -0.50/+1.00
230.1006014	6.00	14.00	5.70	6.30
230.0651254	6.50	12.50	3.90	4.00
230.0701304	7.00	13.00	3.90	4.00
230.0081284	8.00	12.80	4.00	5.00
230.1008014	8.00	14.00	3.90	4.00
230.0008016	8.00	16.00	5.70	6.30
230.1008016	8.00	16.00	6.00	6.70
230.1013623	10.00	13.60	2.30	2.70
230.1010018	10.00	18.00	5.70	6.30
230.1010020	10.00	20.00	7.30	8.00
230.1012020	12.00	20.00	5.70	6.30
230.0012022	12.00	22.00	7.30	8.00
230.1012022	12.00	22.00	8.00	9.00
230.0132326	13.00	23.20	5.20	5.80
230.1014022	14.00	22.00	5.70	6.30
230.1014024	14.00	24.00	7.30	8.00
230.1016024	16.00	24.00	5.70	6.30
230.1016026	16.00	26.00	7.30	8.00
230.1018025	18.00	25.00	5.00	5.60
230.1018026	18.00	26.00	5.70	6.30
230.1018028	18.00	28.00	7.30	8.00
230.0190255	19.00	25.00	4.70	5.30
230.0020654	20.00	26.50	3.70	4.00
230.1020027	20.00	27.00	6.00	6.50
230.1020028	20.00	28.00	5.70	6.30
230.1020030	20.00	30.00	7.30	8.00
230.2022030	22.00	30.00	5.70	6.30
230.1022032	22.00	32.00	7.30	8.00
230.1025032	25.00	32.00	5.00	5.60
230.1025033	25.00	33.00	5.70	6.30
230.5025035	25.00	35.00	5.50	6.00
230.7025035	25.00	35.00	7.30	8.00
230.1025035	25.00	35.00	8.00	9.00
230.0289454	28.00	34.50	3.70	4.00
230.1028038	28.00	38.00	7.30	8.00
230.1028043	28.00	43.00	11.50	12.50
230.1030040	30.00	40.00	10.00	11.00
230.1031041	31.00	41.00	10.00	11.00
230.1032040	32.00	40.00	5.70	6.30
230.1032042	32.00	42.00	7.30	8.00
230.1032047	32.00	47.00	11.50	12.50
230.2035045	35.00	45.00	9.00	10.00
230.1035045	35.00	45.00	10.00	11.00
230.1035055	35.00	55.00	11.00	12.00
230.1036046	36.00	46.00	7.30	8.00
230.1036051	36.00	51.00	11.50	12.50
230.2040050	40.00	50.00	9.00	10.00
230.1040050	40.00	50.00	10.00	11.00
230.1040055	40.00	55.00	11.50	12.50
230.1042050	42.00	50.00	5.70	6.30
230.7045055	45.00	55.00	7.00	7.50
230.2045055	45.00	55.00	7.30	8.00

Part number	Rod diameter Ød1 f8	Groove diameter ØD1 H10	Seal height H1	Groove width L1 -0.50/+1.00
230.1045055	45.00	55.00	10.00	11.00
230.1045060	45.00	60.00	11.50	12.50
230.7050060	50.00	60.00	7.00	8.00
230.2050060	50.00	60.00	7.30	8.00
230.1050060	50.00	60.00	10.00	11.00
230.1050065	50.00	65.00	11.50	12.50
230.1054064	54.00	64.00	7.00	8.00
230.1055063	55.00	63.00	5.70	6.30
230.1055065	55.00	65.00	10.00	11.00
230.1056071	56.00	71.00	11.50	12.50
230.1056076	56.00	76.00	15.00	16.00
230.1060070	60.00	70.00	10.00	11.00
230.2060070	60.00	70.00	12.00	13.00
230.1063078	63.00	78.00	11.50	12.50
230.1063083	63.00	83.00	15.00	16.00
230.0065075	65.00	75.00	12.00	13.00
230.1067077	67.00	77.00	10.00	11.00
230.2070080	70.00	80.00	6.50	7.50
230.1070080	70.00	80.00	12.00	13.00
230.1070085	70.00	85.00	11.50	12.50
230.1070090	70.00	90.00	15.00	16.00
230.2080090	80.00	90.00	10.00	11.00
230.1080090	80.00	90.00	12.00	13.00
230.1080095	80.00	95.00	11.50	12.50
230.1080100	80.00	100.00	15.00	16.00
230.2090100	90.00	100.00	6.50	7.50
230.1090100	90.00	100.00	12.00	13.00
230.1090105	90.00	105.00	11.50	12.50
230.1090110	90.00	110.00	15.00	16.00
230.1100120	100.00	120.00	15.00	16.00
230.1100125	100.00	125.00	19.00	20.00
230.1110125	110.00	125.00	9.60	10.60
230.1110130	110.00	130.00	15.00	16.00
230.1110135	110.00	135.00	19.00	20.00
230.1125145	125.00	145.00	15.00	16.00
230.1125150	125.00	150.00	19.00	20.00
230.1140160	140.00	160.00	15.00	16.00
230.1140165	140.00	165.00	19.00	20.00
230.1145160	145.00	160.00	9.60	10.60
230.1160185	160.00	185.00	19.00	20.00
230.1160190	160.00	190.00	24.00	25.00
230.1180205	180.00	205.00	19.00	20.00
230.1180210	180.00	210.00	24.00	25.00
230.1185200	185.00	200.00	9.60	10.60
230.1200225	200.00	225.00	19.00	20.00
230.1200230	200.00	230.00	24.00	25.00
230.1220250	220.00	250.00	24.00	25.00
230.1250280	250.00	280.00	24.00	25.00
230.1280310	280.00	310.00	24.00	25.00
230.1320360	320.00	360.00	31.00	32.00
230.1360400	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.