

ROD SEALS BECA 385



DESCRIPTION

The BECA 385 profile is a U-ring type single acting rod seal with asymmetrical rubber lips for low-pressure applications.

ADVANTAGES

Very good sealing at low pressures
Excellent wear resistance
Reduced size

APPLICATIONS

Material handling - Lifting
Presses
Hydraulic cylinders

MATERIALS

NBR 80 Shore A
FKM 80 Shore A

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

TECHNICAL DATA

Temperature	-30°C / +200°C
Pressure	8 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

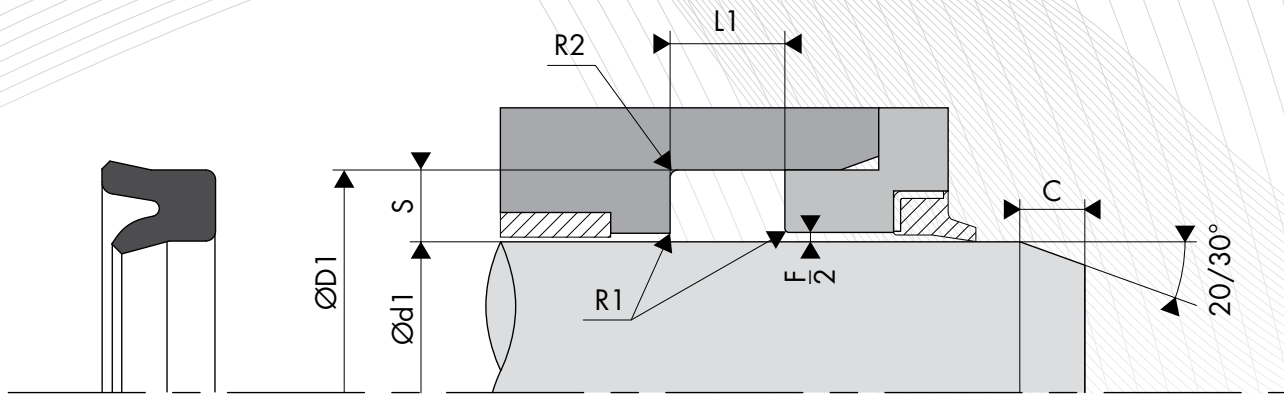
Pressure MPa	Radial gap F/2
1.0 MPa	0.25
1.2 MPa	0.20
6.5 MPa	0.10
8.0 MPa	0.05

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	0.30	0.50	2.00
4.00	0.30	0.50	2.00
5.00	0.40	0.60	2.50
6.00	0.50	0.70	3.00
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 H8	Seal height H1	Groove width L1 0/+0.25
385.1003008	3.17	8.75	3.96	5.50
385.1004011	4.76	11.11	3.96	5.50
385.1006012	6.00	12.00	4.00	5.50
385.2006012	6.35	12.70	3.96	5.50
385.1007014	7.93	14.28	3.96	5.50
385.008014E	8.00	14.00	4.00	4.80
385.08014F6	8.00	14.00	4.00	5.50
385.1008014	8.00	14.00	4.00	5.50
385.1008016	8.00	16.00	5.50	7.00
385.1009016	9.52	16.50	3.96	5.50
385.0100184	10.00	18.00	4.00	5.00
385.1010018	10.00	18.00	5.50	7.00
385.1011019	11.11	19.05	3.96	5.50
385.1012020	12.00	20.00	5.50	7.00
385.1012021	12.70	21.00	5.10	7.00
385.14018K6	14.00	18.00	2.90	3.00
385.1014022	14.00	22.00	5.50	7.00
385.1014020	14.28	20.63	4.76	6.00
385.1015022	15.87	22.22	4.76	6.00
385.15224C0	15.87	22.22	4.76	6.00
385.1016024	16.00	24.00	5.50	7.00
385.1017023	17.46	23.81	4.60	6.00
385.1018025	18.00	25.00	4.50	6.00
385.1825SP9	18.00	25.00	4.50	6.00
385.1018026	18.00	26.00	5.50	6.00
385.0180305	18.00	30.00	5.50	6.00
385.1019025	19.08	25.40	4.76	6.00
385.1020028	20.00	28.00	5.50	7.00
385.2020028	20.63	28.58	4.76	6.00
385.1022030	22.00	30.00	5.50	6.00
385.1022-22	22.22	31.75	4.76	6.00
385.1023036	23.81	36.51	6.35	8.00
385.1025035	25.00	35.00	7.00	8.50
385.1025038	25.40	38.10	6.35	8.00
385.1026036	26.99	36.51	6.35	8.00
385.1028036	28.00	36.00	5.50	7.00
385.1028038	28.00	38.00	7.00	7.50
385.1028041	28.58	41.28	7.93	9.50
385.1030038	30.16	38.10	6.35	8.00
385.1031044	31.75	44.45	6.35	8.00
385.32040CA	32.00	40.00	5.00	6.00
385.1032042	32.00	42.00	7.00	8.50
385.1032045	32.00	45.00	10.00	11.00
385.0330416	33.00	40.87	4.50	6.00
385.1033040	33.34	40.63	4.60	6.00

Part number	Rod diameter Ød1 f8	Groove diameter ØD1 H8	Seal height H1	Groove width L1 0/+0.25
385.1034050	34.93	50.80	7.93	9.50
385.1036046	36.00	46.00	7.00	7.50
385.1036050	36.51	50.80	7.93	9.50
385.1038050	38.10	50.80	9.52	11.00
385.1039055	39.69	55.96	9.52	11.00
385.1040046	40.00	46.00	3.60	4.40
385.1040050	40.00	50.00	7.00	8.50
385.041050G	41.28	50.80	5.55	7.00
385.1041050	41.28	50.80	5.55	7.00
385.1042050	42.00	50.00	5.50	7.00
385.1042053	42.86	53.98	9.52	11.00
385.1044057	44.45	57.15	7.93	9.50
385.1045055	45.00	55.00	7.00	7.50
385.1046060	46.04	60.33	9.52	11.00
385.1047063	47.63	63.50	9.52	11.00
385.1049066	49.21	66.68	9.52	11.00
385.1050060	50.00	60.00	7.00	7.50
385.1050073	50.80	73.03	11.11	12.50
385.1053069	53.98	69.85	9.52	11.00
385.1056068	56.00	68.00	7.00	7.50
385.2056068	56.00	68.00	8.50	10.00
385.1057069	57.15	69.85	7.93	9.50
385.1060072	60.00	72.00	8.50	10.00
385.1060076	60.33	76.20	7.93	9.50
385.1063075	63.00	75.00	8.50	10.00
385.1063076	63.50	76.20	7.93	9.50
385.1065077	65.00	77.00	8.50	10.00
385.1066079	66.68	79.38	9.52	11.00
385.1069090	69.85	90.90	9.52	11.00
385.1070082	70.00	82.00	8.50	9.50
385.1073082	73.03	82.55	9.52	11.00
385.1076088	76.20	88.90	9.52	11.00
385.1079098	79.38	98.43	9.52	11.00
385.1080092	80.00	92.00	8.50	10.00
385.1082095	82.55	95.25	7.93	9.50
385.1085098	85.73	98.43	9.52	11.00
385.1088101	88.90	101.60	9.52	11.00
385.1090102	90.00	102.00	8.50	9.50
385.1092106	92.08	106.40	7.93	9.50
385.1095111	95.25	111.10	9.52	11.00
385.1098107	98.43	107.95	9.52	11.00
385.1100112	100.00	112.00	8.50	10.00
385.1100115	100.00	115.00	10.00	11.50
385.1101111	101.60	111.10	5.75	7.00
385.1061177	106.30	117.20	7.20	7.60

Part number	Rod diameter Ød1 f8	Groove diameter ØD1 H8	Seal height H1	Groove width L1 0/+0.25
385.1107127	107.95	127.00	9.52	11.00
385.1110130	110.00	130.00	14.00	15.50
385.1114146	114.30	146.05	12.70	14.00
385.1120136	120.65	136.50	7.14	8.50
385.1125145	125.00	145.00	14.00	15.50
385.1127146	127.00	146.05	12.70	14.00
385.1133152	133.35	152.40	12.70	14.00
385.1139157	139.70	157.52	7.14	8.50
385.1140160	140.00	160.00	14.00	15.50
385.1146165	146.05	165.10	12.70	14.00
385.1152171	152.40	171.45	9.52	11.00
385.1158177	158.80	177.80	12.70	14.00
385.1160180	160.00	180.00	14.00	17.00

Part number	Rod diameter Ød1 f8	Groove diameter ØD1 H8	Seal height H1	Groove width L1 0/+0.25
385.1165184	165.10	184.15	12.70	14.00
385.1171190	171.45	190.50	12.70	14.00
385.1177190	177.80	190.50	7.14	8.50
385.1180200	180.00	200.00	14.00	17.00
385.1184203	184.15	203.20	9.52	11.00
385.1190209	190.55	209.55	12.70	14.00
385.1196215	196.90	215.90	12.70	14.00
385.1203222	203.20	222.30	12.70	14.00
385.1209228	209.55	228.60	12.70	14.00
385.1215235	215.90	235.00	12.70	14.00
385.1222241	222.30	241.30	9.52	11.00
385.1228247	228.60	247.70	12.70	14.00

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