

PISTON/ROD SEALS BECA 301



DESCRIPTION

The BECA 301 profile is a single acting compact symmetrical seal composed of a profiled fabric NBR seal. It can be assembled in a groove according to standard ISO 5597.

ADVANTAGES

- Optimised sealing effect
- Good chemical compatibility, depending on the material chosen
- Excellent wear resistance
- Good extrusion resistance

APPLICATIONS

- Mobile hydraulics
- Material handling - Lifting
- Presses
- Hydraulic cylinders

MATERIALS

Fabric NBR

TECHNICAL DATA

Temperature	-30°C / +110°C
Pressure	25 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

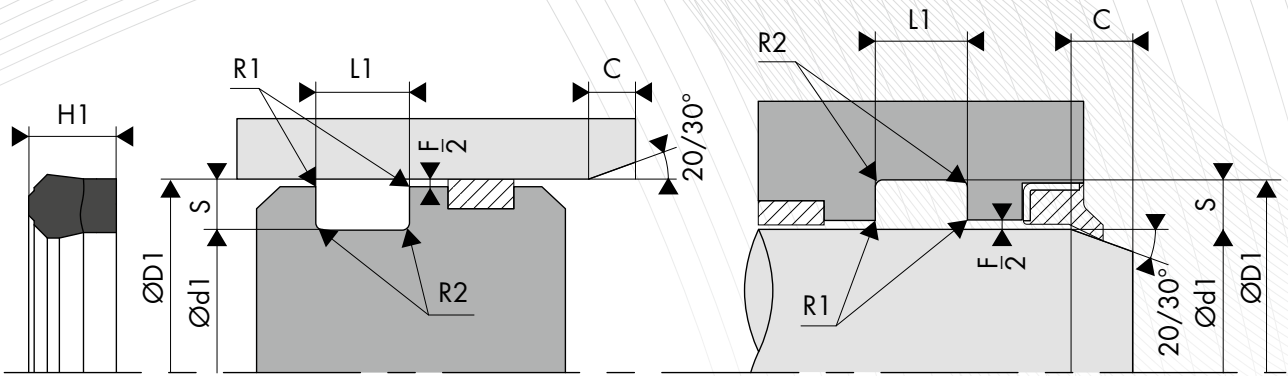
Pressure MPa	Radial gap F/2
15 MPa	0.20
25 MPa	0.10

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
4.00	0.20	0.40	2.00
5.00	0.40	0.70	2.50
6.00	0.70	1.10	3.00
7.50	0.70	1.10	4.00
10.00	1.00	1.10	5.00



DIMENSIONS

Part number	Rod diameter Ød1 f9 Groove diameter Ød1 f9	Groove diameter ØD1 H10 Bore diameter ØD1 H10	Seal height H1	Groove width L1 0/+0.25
301.1582224	15.87	22.22	4.76	5.50
301.7022030	22.00	30.00	6.50	7.00
301.0220347	22.00	34.00	7.00	8.00
301.1370870	22.23	34.93	9.53	10.50
301.6025033	25.00	33.00	5.70	6.30
301.1025033	25.00	33.00	6.50	7.00
301.0250358	25.00	35.00	9.50	10.50
301.6028036	28.00	36.00	5.70	6.30
301.0280364	28.00	36.00	6.50	7.00
301.1028036	28.00	36.00	6.50	7.00
301.6016024	16.00	24.00	5.70	6.30
301.8028038	28.00	38.00	7.50	8.00
301.2863545	28.57	34.92	4.76	5.50
301.1030038	30.00	38.00	5.70	6.30
301.0300407	30.00	40.00	7.30	7.50
301.6032040	32.00	40.00	5.70	6.30
301.1032040	32.00	40.00	6.50	7.00
301.1035043	35.00	43.00	5.70	6.30
301.0350458	35.00	45.00	6.50	7.50
301.1035050	35.00	50.00	10.00	11.00
301.9036048	36.00	48.00	8.20	9.00
301.0172655	17.00	26.00	5.50	6.00
301.7038050	38.00	50.00	6.50	7.00
301.9038050	38.00	50.00	8.20	9.00
301.3814766	38.10	47.62	6.35	7.00
301.0381556	38.10	55.56	11.11	12.00
301.6040048	40.00	48.00	5.70	6.30
301.1040048	40.00	48.00	6.50	7.00
301.3400486	40.00	48.00	6.50	7.00
301.0400481	40.00	48.00	10.00	11.00
301.0400482	40.00	48.00	11.50	12.50
301.8040050	40.00	50.00	7.50	8.00
301.0180245	18.00	24.00	4.70	5.50
301.2040050	40.00	50.00	8.00	9.00
301.1040050	40.00	50.00	10.40	11.00
301.1040055	40.00	55.00	10.00	11.00
301.0400603	40.00	60.00	13.50	14.50
301.1681181	42.85	30.15	9.52	10.50
301.0440537	44.45	53.97	7.13	8.00
301.0445603	44.45	60.33	10.40	11.11
301.0445617	44.45	61.72	11.00	11.60

Part number	Rod diameter Ød1 f9 Groove diameter Ød1 f9	Groove diameter ØD1 H10 Bore diameter ØD1 H10	Seal height H1	Groove width L1 0/+0.25
301.0450521	45.00	52.00	11.00	11.50
301.2045055	45.00	55.00	7.50	8.00
301.0180266	18.00	26.00	6.00	7.00
301.1045055	45.00	55.00	10.40	11.00
301.S475709	47.00	57.00	9.00	10.00
301.8050060	50.00	60.00	7.50	8.00
301.2050060	50.00	60.00	8.00	9.00
301.1050060	50.00	60.00	9.30	10.00
301.0500604	50.00	60.00	14.50	15.50
301.0500708	50.00	70.00	12.00	13.00
301.2055065	55.00	65.00	7.20	8.00
301.1055065	55.00	65.00	10.00	11.00
301.0600683	60.00	68.00	12.50	13.50
301.0202655	20.00	26.00	5.50	6.30
301.1060070	60.00	70.00	7.20	8.00
301.1060071	60.00	71.00	9.00	10.00
301.1065075	65.00	75.00	10.00	11.00
301.3065075	65.00	75.00	13.50	14.50
301.0650779	65.00	77.00	9.00	9.60
301.2752310	69.85	58.72	9.52	10.50
301.0700808	70.00	80.00	7.20	8.00
301.0700859	70.00	82.00	9.60	10.50
301.0700903	70.00	90.00	15.00	16.00
301.0750857	75.00	85.00	7.00	8.00
301.6020028	20.00	28.00	5.70	6.30
301.0750879	75.00	87.00	9.00	9.60
301.0800902	80.00	90.00	12.00	13.00
301.1080092	80.00	92.00	10.00	11.00
301.1085095	85.00	95.00	8.00	9.00
301.8085095	85.00	95.00	8.00	9.00
301.S851002	85.00	100.00	22.50	23.50
301.1001152	100.00	115.00	11.50	12.50
301.100CLAR	100.00	120.00	14.50	15.50
301.1105115	105.00	115.00	10.00	11.00
301.1201405	120.00	140.00	15.00	16.00
301.1020028	20.00	28.00	6.50	7.50
301.1301503	130.00	150.00	13.50	14.50
301.1140160	140.00	160.00	12.00	13.00
301.212.6K8	212.60	231.78	14.00	15.00
301.6022030	22.00	30.00	5.70	6.30

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.