

PISTON SEALS BECA 336



DESCRIPTION

The BECA 336 profile is a U-ring type single acting piston seal with offset polyurethane lips.

ADVANTAGES

Optimised sealing effect at both high and low pressures
Excellent abrasion and wear resistance
Assembly by deformation in closed groove

APPLICATIONS

Mobile hydraulics
Injection presses
Machine tools
Presses
Hydraulic cylinders

MATERIALS

Profiled seal

PU 93 Shore A - Blue
PU 96 Shore A - Blue
High temp. PU 96 Shore A - Beige

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

TECHNICAL DATA

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

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

EXTRUSION GAPS

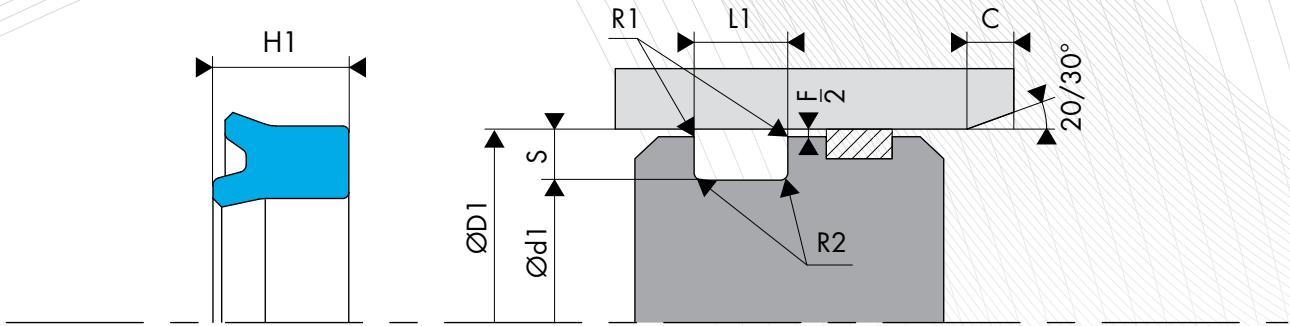
Bore diameter ØD1	Radial extrusion gap F/2				
	≤ 5 MPa	≤ 10 MPa	≤ 20 MPa	≤ 30 MPa	≤ 40 MPa
≤ 60 mm	0.40	0.30	0.20	0.15	0.10
> 60 mm	0.50	0.40	0.30	0.20	0.15

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	0.20	0.40	2.00
4.00	0.20	0.40	2.50
5.00	0.40	0.60	3.00
7.50	0.80	1.00	4.00
10.00	0.80	1.00	5.00



DIMENSIONS

Part number	Bore diameter ØD1 H9	Groove diameter Ød1 h9	Seal height H1	Groove width L1 0/+0.5
336.0060294	6.00	2.90	4.00	4.50
336.0120055	12.00	5.00	5.50	6.00
336.0140094	14.00	9.00	4.00	5.00
336.0150103	15.00	10.00	3.00	4.00
336.0160104	16.00	10.00	3.80	4.20
336.0100186	18.00	10.00	6.00	7.00
336.0220144	22.00	14.00	4.00	4.50
336.2251456	22.50	14.50	6.00	7.00
336.0230174	23.00	17.00	4.00	4.50
336.0240148	24.00	14.00	8.00	9.00
336.0240166	24.00	16.00	6.00	7.00
336.0250155	25.00	15.00	5.80	6.30
336.0250158	25.00	15.00	8.00	9.00
336.0250174	25.00	17.00	4.00	4.50
336.0250176	25.00	17.00	5.70	6.30
336.0260185	26.00	18.00	5.50	6.50
336.0280186	28.00	18.00	6.30	7.00
336.0300206	30.00	20.00	6.00	7.00
336.0300208	30.00	20.00	8.00	9.00
336.0300226	30.00	22.00	6.40	7.00
336.3012066	30.16	20.63	6.35	7.35
336.3220663	32.00	20.63	6.35	7.35
336.0320228	32.00	22.00	8.00	9.00
336.0320244	32.00	24.00	4.00	4.50
336.0340248	34.00	24.00	8.50	9.50
336.0350258	35.00	25.00	8.00	9.00
336.0350274	35.00	27.00	4.00	4.50
336.0350278	35.00	27.00	8.00	9.00
336.0380251	38.00	25.00	10.00	11.00
336.0380308	38.00	30.00	8.00	9.00
336.3083896	38.90	30.80	6.00	7.00
336.0390316	39.00	31.00	6.10	6.30
336.0400308	40.00	30.00	7.30	8.00
336.0400301	40.00	30.00	10.00	11.00
336.0400327	40.00	32.00	6.50	7.20
336.0400328	40.00	32.00	8.00	9.00
336.0400338	40.00	33.00	8.00	9.00
336.0410301	41.00	30.00	10.00	11.00
336.0430308	43.00	30.00	8.00	9.00
336.0330406	44.00	33.00	6.00	7.00
336.0440341	44.00	34.00	10.00	11.00
336.0445267	44.50	26.50	7.70	8.20
336.0450309	45.00	30.00	9.00	10.00
336.0450301	45.00	30.00	10.00	11.00
336.0450358	45.00	35.00	7.50	8.00

Part number	Bore diameter ØD1 H9	Groove diameter Ød1 h9	Seal height H1	Groove width L1 0/+0.5
336.0460341	46.00	34.00	10.50	12.00
336.0315483	48.00	31.50	12.50	13.50
336.0500351	50.00	35.00	10.00	11.00
336.0500405	50.00	40.00	5.00	6.00
336.0400505	50.00	40.00	5.70	6.30
336.0500406	50.00	40.00	6.30	7.00
336.0500407	50.00	40.00	7.00	8.00
336.0500401	50.00	40.00	10.00	11.00
336.0420506	50.00	42.00	6.00	7.00
336.5084087	50.80	40.80	7.00	8.00
336.5084127	50.80	41.27	6.35	6.80
336.0520421	52.00	42.00	10.00	11.00
336.0450356	53.00	45.00	6.70	7.70
336.0550352	55.00	35.00	12.00	13.00
336.0550456	55.00	45.00	6.00	7.00
336.0550451	55.00	45.00	10.00	11.00
336.0600506	60.00	50.00	6.00	7.00
336.0600507	60.00	50.00	7.20	8.00
336.0600501	60.00	50.00	10.00	11.00
336.0520626	62.00	52.00	6.00	7.00
336.0630489	63.00	48.00	9.00	10.00
336.0500637	63.00	50.00	7.00	8.00
336.0630537	63.00	53.00	7.00	8.00
336.0630532	63.00	53.00	12.00	13.00
336.0630555	63.00	55.00	5.70	6.00
336.0630576	63.00	57.00	5.00	6.00
336.6475206	64.77	52.07	6.93	7.93
336.0650452	65.00	45.00	12.00	13.00
336.0650453	65.00	45.00	13.70	14.50
336.0650528	65.00	52.00	8.50	9.50
336.0526510	65.00	52.20	10.00	11.00
336.0650553	65.00	55.00	13.50	14.50
336.6507528	65.07	52.37	8.70	9.50
336.0550709	70.00	55.00	9.00	10.00
336.0700606	70.00	60.00	6.00	7.00
336.0700607	70.00	60.00	7.00	8.00
336.0700602	70.00	60.00	12.00	13.00
336.0730571	73.00	57.00	10.00	11.00
336.0550752	75.00	55.00	12.00	13.00
336.0750601	75.00	60.00	9.00	10.00
336.0760681	76.00	68.00	10.00	11.00
336.0580800	80.00	58.00	10.00	11.00
336.0800604	80.00	60.00	13.50	14.50
336.0800650	80.00	65.00	10.00	11.00
336.6080070	80.00	70.00	6.00	7.00

Part number	Bore diameter ØD1 H9	Groove diameter Ød1 h9	Seal height H1	Groove width L1 0/+0.5
336.0800706	80.00	70.00	6.80	7.50
336.0800707	80.00	70.00	7.20	7.50
336.0800701	80.00	70.00	9.00	10.00
336.0800702	80.00	70.00	12.00	13.00
336.0720801	80.00	71.80	10.00	11.00
336.8286342	82.80	63.40	11.60	12.60
336.0700859	85.00	70.00	9.00	10.00
336.0900702	90.00	70.00	12.00	13.00
336.0900752	90.00	75.00	12.00	13.00
336.0980842	98.00	84.00	12.00	13.00
336.1000804	100.00	80.00	13.50	14.50
336.1000852	100.00	85.00	12.00	13.00
336.1000906	100.00	90.00	6.70	7.70
336.0821012	101.00	82.00	12.00	13.00
336.1010862	101.00	86.00	12.00	13.00
336.1016794	101.60	79.38	12.70	13.70
336.1100952	110.00	95.00	12.00	13.00
336.1201002	120.00	100.00	12.00	13.00
336.1201005	120.00	100.00	15.00	16.00
336.1200894	120.65	88.90	14.30	15.30

Part number	Bore diameter ØD1 H9	Groove diameter Ød1 h9	Seal height H1	Groove width L1 0/+0.5
336.1201016	120.65	101.60	16.00	17.50
336.1251055	125.00	105.00	15.00	16.00
336.1251155	125.00	115.00	14.00	15.00
336.1301156	130.00	115.00	15.00	16.00
336.1351253	135.00	125.00	13.50	14.50
336.1501301	150.00	130.00	15.00	16.00
336.1501405	150.00	140.00	14.00	15.00
336.1521409	152.00	140.00	8.00	9.00
336.1551401	155.00	140.00	10.00	11.00
336.1601355	160.00	135.00	15.50	16.50
336.1601405	160.00	140.00	15.00	16.00
336.1751632	175.00	163.00	12.00	13.00
336.1801668	180.00	166.00	8.00	9.00
336.1831653	185.00	165.00	13.00	14.00
336.2001805	200.00	180.00	15.00	16.00
336.2001888	200.00	187.82	8.30	9.30
336.1962256	225.00	196.00	26.00	27.00
336.2302165	230.00	216.00	15.00	16.00
336.2402109	240.00	210.00	18.00	19.00
336.2802602	280.00	260.00	12.00	13.00

The figures highlighted in bold correspond to the dimensions for standard ISO 5597, with the bore diameters in line with standard ISO 3320. Other intermediate sizes can be provided.