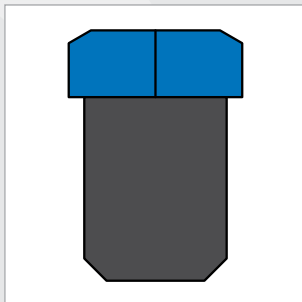




PISTON SEALS

BECA 655



DESCRIPTION

The BECA 655 profile is a double acting composite piston seal composed of a flexible rubber ring and a polyamide friction ring with a step cut.

ADVANTAGES

The square ring does not twist
Low friction coefficient
Excellent extrusion resistance
Compatible with hydraulic oils

APPLICATIONS

Agriculture
Mobile machinery
Hydraulic cylinders

MATERIALS

Friction ring

Polyamide PA6
Polyoxymethylene (POM)

Profiled seal

NBR 70 Shore A

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

TECHNICAL DATA

Temperature	-30°C / +100°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

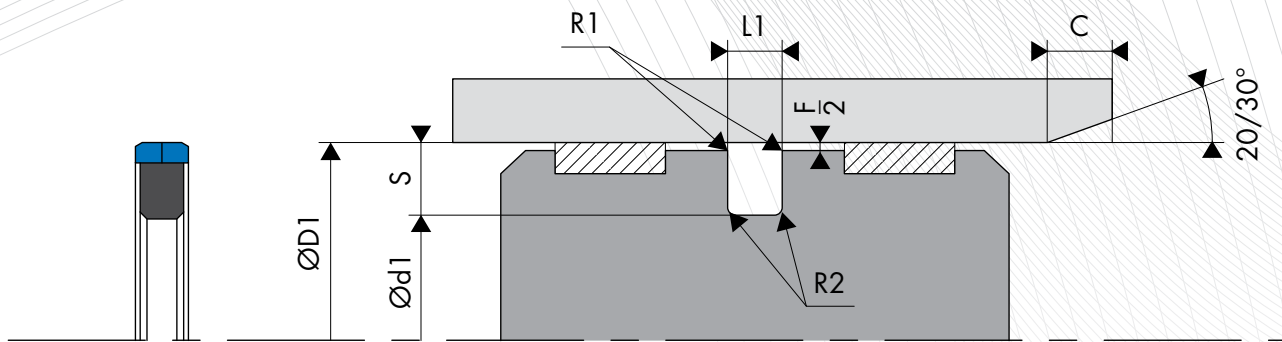
Pressure MPa	Radial gap F/2
20 MPa	0.25
35 MPa	0.20
40 MPa	0.15
50 MPa	0.10

SURFACE ROUGHNESS

Roughness	Dynamic surface area	Static surface area	Groove flanks
Ra	0.05 - 0.2 µm	≤1.6 µm	≤3.2 µm
Rz	0.4 - 1.6 µm	≤6.3 µm	≤10.0 µm
Rmax	0.63 - 2.5 µm	≤10.0 µm	≤16.0 µm

CHAMFERS AND RADIUS

Radial section S	Radius R1	Radius R2	Chamfer C
5.50	0.30	0.50	3.00
7.75	0.30	0.90	4.00
10.50	0.30	0.90	5.00



INSTALLATION DIMENSIONS

Groove diameter Ød1 h9	Groove width L1 0/+0.20	Radial section S
D1 - 11.00	4.20	5.50
D1 - 15.50	6.30	7.75
D1 - 21.00	8.10	10.50

For special applications > 40 MPa, we recommend using an H8/f8 tolerance (bore/piston) or selecting other, more suitable materials. Please contact our experts.

EXAMPLE OF CODIFICATION

STANDARD CODIFICATION

Materials _____: Polyoxymethylene (POM) friction ring - Code HC
 _____: NBR 70 Shore A profiled seal - Code K6
 Bore diameter _____: ØD1 = 100.00 mm
 Groove diameter _____: Ød1 = 79.00 mm
 Part number _____: 655.100HCK6

Part number -

655.	100	HC	K6
Family			
Bore diameter			
Friction ring material			
Profiled seal material			

DIMENSIONS

Part number	Bore diameter ØD1 H9	Groove diameter Ød1 h9	Groove width L1 0/+0.10
655.070	70.00	49.00	8.10
655.115	115.00	94.00	8.10
655.120	120.00	99.00	8.10
655.125	125.00	104.00	8.10
655.130	130.00	109.00	8.10
655.140	140.00	119.00	8.10
655.150	150.00	129.00	8.10
655.160	160.00	139.00	8.10
655.170	170.00	149.00	8.10
655.180	180.00	159.00	8.10

Part number	Bore diameter ØD1 H9	Groove diameter Ød1 h9	Groove width L1 0/+0.10
655.190	190.00	169.00	8.10
655.075	75.00	54.00	8.10
655.080	80.00	59.00	8.10
655.085	85.00	64.00	8.10
655.090	90.00	69.00	8.10
655.095	95.00	74.00	8.10
655.100	100.00	79.00	8.10
655.105	105.00	84.00	8.10
655.110	110.00	89.00	8.10

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