



# PISTON SEALS

## BECA 235P/AE



### DESCRIPTION

The BECA 235P/AE profile is a rubber U-ring type single acting piston seal with matching lips and a POM back-up ring.

### ADVANTAGES

Optimised sealing effect  
 Excellent resistance to high temperatures depending on the type of material chosen  
 Good extrusion resistance

### APPLICATIONS

Mobile hydraulics  
 Machine tools  
 Presses  
 Standard cylinders

### MATERIALS

#### Profiled seal

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

#### Back-up ring

Polyoxymethylene - POM  
 Bronze-filled PTFE

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

### TECHNICAL DATA

Temperature	-30°C / +200°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
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
25.0 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
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

