

CUT 120X99X8.1

Step cut piston seal with rigid cap and rubber energizer

CUT seals are metric sized, double-acting piston seals with a rigid, glass fibre reinforced polyamide slide ring and a rectangular nitrile rubber energizer. The slide ring has high resistance to wear and gap extrusion and provides low friction, even at high pressures. It is step cut for easy installation.

- Suitable for heavy duty applications
- Available in metric sizes
- Fit seal housings in accordance with ISO 7425-1 for some sizes

Overview

Dimensions

Cylinder bore diameter	120 mm
Piston groove diameter	99 mm
Piston groove width	8.1 mm

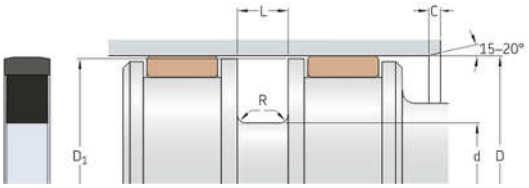
Performance

Pressure limit, maximum	50 N/mm

Properties

Compound 2	Nitrile Rubber (NBR N70/015)
Design	CUT
Primary sealing element	Polyamide (PA66/011)

Technical Specification



Dimensions

D	120 mm	Cylinder bore diameter
D_1	118.8 mm	Piston outside diameter
d	99 mm	Piston groove diameter
L	8.1 mm	Piston groove width
S	10.5 mm	Radial depth
R	max. 0.9 mm	Groove radius
C	min. 12 mm	Lead-in chamfer length

Tolerances

tol D	0.087 mm	Upper limit deviation
	0 mm	Lower limit deviation
	H9	Tolerance class for cylinder bore diameter
tol d	0 mm	Upper limit deviation
	-0.087 mm	Lower limit deviation
	h9	Tolerance class for piston groove diameter
tol L	0.2 mm	Upper limit deviation
	0 mm	Lower limit deviation

Pressure and speed

Pressure	max. 500 bar
Speed	max. 1 m/s

Operating temperature

T_t	max. 130 °C	Extreme upper temperature limit



T_5	max. 120 °C	Reduced performance upper temperature limit
T_4	max. 110 °C	Upper operating temperature limit
T_3	min. -20 °C	Lower operating temperature limit
T_2	min. -30 °C	Reduced performance lower temperature limit
T_1	min. -40 °C	Extreme lower temperature limit

Maximum values of application parameters (e.g. pressure, speed, temperature, e-gap) should not be applied continuously nor simultaneously.

Materials

Primary sealing element	Polyamide (PA66/011)
Additional element	Nitrile Rubber (NBR N70/015)

Compliance with standard

In accordance with	SS ISO 7425-1

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