

GH 50X39X4.2-AD1

Piston seal with PTFE slide ring and O-ring energizer

GH seals are double-acting piston seals with a PTFE slide ring and a nitrile rubber O-ring energizer. Rectangular energizers are available on request.

- Low friction
- Suitable for light to medium duty applications
- Available in metric and inch sizes
- Fit seal housings in accordance with ISO 7425-1 for some metric sizes
- If not in stock alternatives can be produced by SKF SEAL JET systems

Overview

Dimensions

Cylinder bore diameter	50 mm
Piston groove diameter	39 mm
Piston groove width	4.2 mm

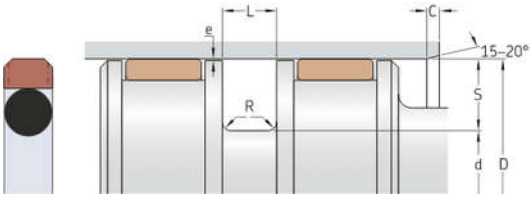
Performance

Pressure limit, maximum	40 N/mm

Properties

Compound 2	Nitrile Rubber (NBR N70/6052)
Design	GH
Primary sealing element	Polytetrafluoroethylene (PTFE 292)

Technical Specification



Dimensions

D	50 mm	Cylinder bore diameter
d	39 mm	Piston groove diameter
L	4.2 mm	Piston groove width
S	5.5 mm	Radial depth
R	max. 0.5 mm	Groove radius
C	min. 2.5 mm	Lead-in chamfer length

Tolerances

tol D	0.062 mm	Upper limit deviation
	0 mm	Lower limit deviation
	H9	Tolerance class for cylinder bore diameter
tol d	0 mm	Upper limit deviation
	-0.062 mm	Lower limit deviation
	h9	Tolerance class for piston groove diameter
tol L	0.2 mm	Upper limit deviation
	0 mm	Lower limit deviation

Maximum extrusion gap

Reference temperature for extrusion gap		80 °C
Extrusion gap at 160 bar	e	0.4 mm
Extrusion gap at 250 bar	e	0.3 mm
Extrusion gap at 400 bar	e	0.2 mm

Pressure and speed

Pressure	max. 400 bar

Speed	max. 5 m/s



Operating temperature

T_6	max. 130 °C	Extreme upper temperature limit
T_5	max. 110 °C	Reduced performance upper temperature limit
T_4	max. 100 °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	Polytetrafluoroethylene (PTFE 292)
Additional element	Nitrile Rubber (NBR N70/6052)

Compliance with standard

In accordance with	ISO 7425-1

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