Disogrin Symmetrical Rod Seal

sizes

Features

The Symmetrical U-Cup provides excellent sealing performance and very long operating life in both rod and piston applications. Made from Disogrin 9250, it has superior sealing performance and longer operating life, and is great for those tough applications with high pressures or temperatures where other seals fail.

- no adhesion effect on sliding surface
- superior performance over a wide range of temperatures and hydraulic fluids
- knife-cut static and dynamic lips for maximum sealing

Applications

- agricultural equipment
- forklifts
- tailgate lifts
- mobile arm trucks
- presses
- standard hydraulic cylinders

Materials

Material:	Polyurethane
Designation:	Disogrin 9250
Hardness:	92 Shore A

Operating Limits

The operating limits of this seal are highly dependant on the application. Combinations of pressure, temperature, fluid medium and other factors, all greatly effect the performance and longevity of the seal.

Pressure	4000 Psi / 27 MPa
Speed	1.5 ft/s / 0.5 m/s
Temperature	
Hydraulic Oil, HL, HLP	-40 to 110 °C / -40 to 230 °F
HFA, HFB Fluids	5 to 50 °C / 41 to 122 °F
HFC Fluid	-30 to 40 °C / -22 to 104 °F
HFD Fluid	--
Water	5 to 40 °C / 41 to 104 °F
HETG (Rape Seed Oil)	-40 to 110 °C / -40 to 230 °F
HEES (Synth. Ester)	-30 to 60 °C / -22 to 140 °F
HEPG (Glycol)	--
Mineral Oil	-40 to 110 °C / -40 to 230 °F

Installation

For complete Installation Instructions, click here.

Design Reference

Surface Finish

For more information on surface finish and conditions, click here.

Roughness Depth	R_{max}	R_a
Sliding surface	≤ 100 μ	≤ 12 μ
Bottom of groove	≤ 252 μ	≤ 64 μ
Sides of groove	≤ 600 μ	≤ 120 μ

Tolerances

Dimension	Range	Tolerance
d	<3"	+0.000 -0.003
	≥3" and <7"	+0.000 -0.004
	≥7" and <10"	+0.000 -0.005
	≥10" and <15"	+0.000 -0.006
D	<1.5"	+0.005 -0.000
	≥1.5" and <2"	+0.007 -0.000
	≥2" and <3.25"	+0.008 -0.000
	≥3.25" and <5"	+0.009 -0.000
	≥5" and <7"	

		+0.010 -0.000
	≥7" and <9"	+0.011 -0.000
	≥9" and <15"	+0.012 -0.000
L	≤1"	+0.015 -0.000