

D-300 Rod Seal

[sizes](#)

Features

The D-300 rod seal provides superb sealing performance in standard and compact designs. The secondary edge provides axial stability which eliminates spiraling and tilting problem, and also serves as an additional barrier to dirt ingress. The preload design seals effectively even with unpressurized systems.

- outstanding wear and extrusion resistance, ensuring maximum operating life
- no adhesion effect on the sliding surface, even after long standstills
- superior abrasion and wear resistance

Applications



- bulldozers
- forklifts
- agricultural equipment
- stabilizers
- mobile arm trucks
- presses
- standard hydraulic cylinders

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.

Temperature (Typ.)	-54°C/149°C / -65°F to 300°F
Pressure	6000 Psi / 40 MPa
Speed	1.5 ft/s / 0.5 m/s

Installation

For complete Installation Instructions, [click here](#).

Materials

Sealing Element	
Material:	Polyurethane 9250
Hardness:	92 Shore A

Design Reference

Surface Finish

For more information on surface finish and conditions, [click here](#).

Roughness Depth	R_{max}	R_a
Sliding surface	$\leq 100 \mu$	$\leq 12 \mu$
Bottom of groove	$\leq 252 \mu$	$\leq 64 \mu$
Sides of groove	$\leq 600 \mu$	$\leq 120 \mu$

Tolerances

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

	$\geq 5''$ and $< 7''$	+0.010 -0.000
	$\geq 7''$ and $< 9''$	+0.011 -0.000
	$\geq 9''$ and $< 15''$	+0.012 -0.000
L	$\leq 1''$	+0.015 -0.000