Industrial Seal Inc. offers a wide range of hydraulic and pneumatic rod seal profiles to meet the broad demands of the fluid power industry. These rod seals are offered in a variety of compounds and lip geometries for the best possible solution for a given application.

**Rod DISOGRIN Asymmetrical U-Cup**  Rod series U-cup with an asymmetrical profile of the sealing lips, chamfered sealing edges. Knife cut static and dynamic lips for maximum sealing force and fit. DISOGRIN 9250 Material with outstanding wear and tear resistance, ensuring maximum service life.

**Technical Data**

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

The Disogrin RO Rod Seal offers superb sealing performance as either a primary or secondary sealing element. The asymmetrical design positions the seal the securely in the housing to prevent twisting, and it utilizes a preloaded lip design to ensure effective sealing at low pressures.

- no adhesion effect on sliding surface, even after a long standstill
- resistant to pressure spikes and diesel effect, providing a longer service life
- extremely resistant to wear, tear and extrusion
**D-300 DISOGRIN Asymmetrical U-Cup with Secondary Sealing Edge**  
D-300 series U-cup with an asymmetrical sealing lip profile and chamfered sealing edges. The D-LOCK second dynamic sealing edge reduces leakage, dirt ingress, and friction. Knife cut static and dynamic lips for maximum sealing force and fit. DISOGRIN 9250 material with outstanding wear and tear resistance, ensuring maximum service life.

**Technical Data**

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

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
**HBY DISOGRIN Buffer Seal with Anti-Extrusion Rings**  
U-Cup with asymmetric profile of the sealing lips, and chamfered sealing edges with pressure-relieving capabilities to prevent inner pressure entrapment when employed in tandem sealing system. This rod seal is designed to absorb impact pressures and pressure fluctuations under high-load conditions, thus increasing the life of the tandem seal.

![Image of seal](image.png)

**Technical Data**

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**: 8000 PSI / 55 MPa
- **Linear Velocity**: 1.5 ft/s / 0.5 m/s
- **Temperature**: -54°C/149°C to -65°F/300°F

This is used in combination with rod packing to absorb the impact and fluctuating pressures at high load, to isolate high temperature fluids, and to improve the durability of the packing. It has a special shaped slit at the sliding lip that can leak back pressure, and eliminates the pressure between the rod packing and the buffer ring. Used with general petroleum hydraulic fluid oil.

- no adhesion effect on sliding surface
- relieves any pressure build-up which may occur
- superior abrasion and wear resistance
RO DISOGRIN Asymmetrical U-Cup  RO asymmetrical U-cup is suited for heavy duty mobile and stationary service when rod leakage must be kept to a minimum.

Technical Data

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 **5000 Psi / 35 Mpa**

Speed **4.2 ft/s / 1.4 m/s**

Temperature (Typ.) **up to 110 °C / 230 °F**

The RO symmetrical U-Cup is suited for heavy-duty stationary and mobile when rod leakage must be kept to a minimum.