

TECHNICAL INFORMATION

Rod Seals | Zurcon® U-Cup RU9

Description

Rod seals are particularly exposed to pressure and friction. A long service life is a specific requirement of piston rods. Features such as wear and extrusion resistance, media and temperature compatibility, low friction, compact installation dimensions and ease of assembly are also essential and require the introduction of new products and materials. It is against this background that Trelleborg Sealing Solutions has developed the Zurcon® U-Cup RU9. Due to its special design, behind the dynamic seal lip, the Zurcon® U-Cup RU9 with its

structure of slide segments interspersed by back-pumping channels features excellent back-pumping ability across the entire pressure range. The dynamic seal slide segments also have a micro-structure with excellent tribological and sealing characteristics. As well as increasing the sealing ability of the U-Cup RU9, this also ensures a constant lubrication film underneath the seal sliding surface, reducing breakaway force even after prolonged periods of rest and reduces dynamic friction force.

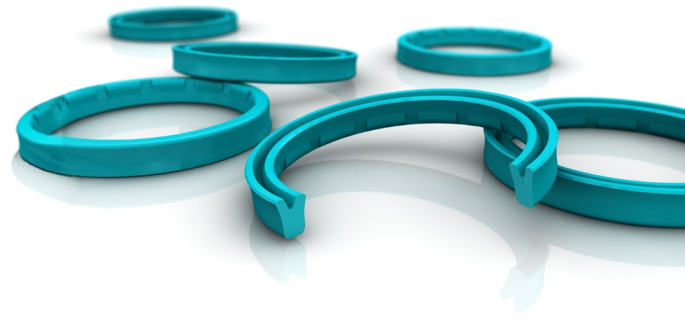
Advantages

- Lower friction than standard U-Cups
- Lower heat generation than standard U-Cups
- High extrusion resistance
- Excellent dynamic and static sealing
- Optimum environment protection
- Back pumping ability over the entire pressure range achieved by grooved profile
- Suitable for sealing systems with double scraper
- Seal stability within the groove



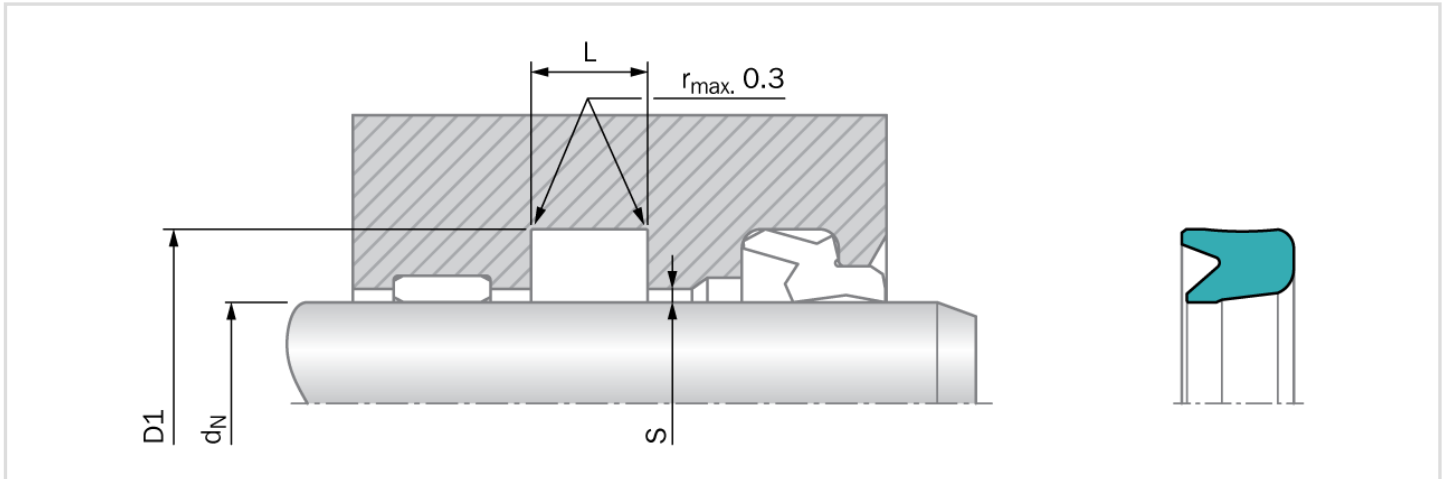
Technical Data

Pressure	:	Up to 40 MPa	
Speed	:	Up to 0.5 m/s	
Temperature	:	-35 °C to +110 °C	
Media	:	Hydraulic fluids based on mineral oil	: -35 °C to +110 °C
		Synthetic and natural ester HEES, HETG	: up to +60 °C
		Flame retardant hydraulic fluids HFA/HFB	: up to +40 °C



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Important Note

Installation suggestions, material recommendations, parameters and further data provided are always subject to the particular field of use and the application in which the seal is intended to be used, in particular the interaction of the seal with other components of the application. Therefore they neither constitute an agreement on the legal and factual nature nor a guarantee of quality. Technical changes and errors remain reserved.