



Turcon® Corner Reinforced Captive Glyd Ring®

UNRIVALLED PERFORMANCE UNDER EXTREME PRESSURE



Adding corner reinforcements to our Turcon® Captive Glyd Ring® gives outstanding performance in high pressure applications.

The Turcon® Captive Glyd Ring® was developed for split grooves. Its design prevents the seal from pulling out of the groove when passing over ports or variable diameter counter parts. Depending on the seal material, a standard Captive Glyd Ring® has a pressure limit of 60 MPa / 8,700 psi.

Withstanding pressures up to 100 MPa / 14,500 psi, the Turcon® Corner Reinforced Captive Glyd Ring® is the number one option when pressures and e-gaps exceed the limits of the standard Turcon® Captive Glyd Ring®.

The Turcon® Corner Reinforced Captive Glyd Ring® is a double-acting, bi-directional seal for linear applications that have high pressure requirements. Consisting of a Turcon® seal ring and two high modulus Zurcon® Back-up Rings energized by a standard O-Ring, it is available in either rod or bore configurations.

The addition of high modulus Zurcon® Back-up Rings protect this sealing assembly under harsh conditions and environments.

Application Examples

- Valves
- Connectors
- Isolation valves
- Pressure boosters
- Piston cushioning in cylinders
- Spool valves
- Downhole drilling motors
- Coiled tubing systems

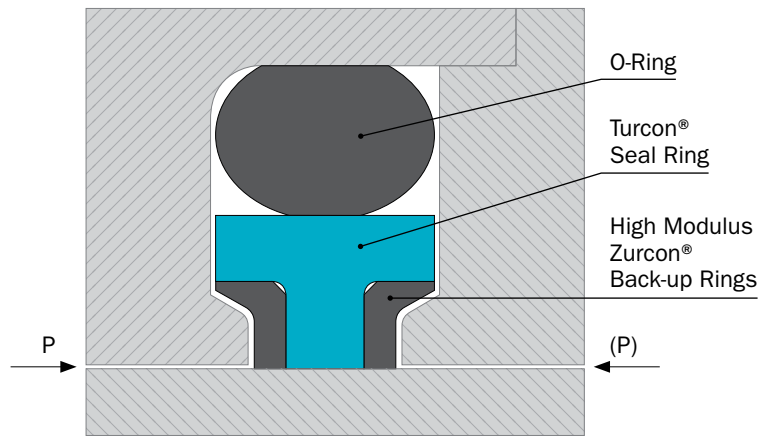
TURCON® CORNER REINFORCED CAPTIVE GLYD RING®

Features and Benefits

- Pressure Limits
 - 100 MPa / 14,500 psi
 - 40% greater than the standard Turcon® Captive Glyd Ring®
- Improves extrusion resistance by 50% to 100%
- The seal is double-acting and can be exposed to pressure from one or both sides
- Back-up Rings are integrated into the design so the entire seal assembly can fit into a standard Turcon® Captive Glyd Ring® groove
- High Modulus Zurcon® Back-up Rings
 - Allows for larger e-gap
 - Enhances sealability
 - Protects the seal from debris
 - Increases product life
- The Turcon® Corner Reinforced Captive Glyd Ring® can endure harsh environments
 - Oils
 - Dirt and mud
 - Acids and other corrosive media
- The Turcon® Corner Reinforced Captive Glyd Ring® is only available as a custom design
- Split hardware eases installation

Materials

- Seal Ring
 - Most commonly in Turcon® M12 or Turcon® T16
- High Modulus Back-up Rings
 - Zurcon® Z40 and Zurcon® Z43 recommended
- O-Ring
 - NBR and FKM recommended



OPERATING CONDITIONS	
Movement	Linear
Pressure	100 MPa / 14,500 psi
Speed	up to 15 m/s / 50 ft/s
Temperature Range	-45° C to +260° C -49° F to +500° F
Gland – Rod / Piston	Split Groove
Compatible Media	Mineral oil-based hydraulic fluids, barely flammable hydraulic fluids, HFC, environmentally-safe hydraulic fluids (biological degradable oils), water, air and others. Dependent upon compatibility of the O-Ring material.

*The above data are maximum values and cannot be used at the same time. The maximum operating speed depends on material type, pressure, temperature and gap value. Temperature range also dependent on medium. Please contact your local Trelleborg Sealing Solutions marketing company for an evaluation of your application.



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