

Coolant Fluid Rotary Union (FRU)

Model 801

Focal Technologies Corporation, a Moog Inc. company, has over 30 years of experience in designing and delivering marine products for harsh environment applications and is a leading manufacturing of high performance and high quality fluid rotary unions.



The Model 801 Fluid Rotary Union (FRU) is designed to operate with ethylene glycols (non-silicate inhibitors), propylene glycols and polyalphaolefins (PAO), providing very low leakage rates over relatively long service intervals. The Model 801 FRU can be used as a standalone unit, or can be integrated with electrical slip rings and/or fiber optic rotary joints.

Features

- 2-pass for supply and return
- G 1/2" BSPP housing ports
- M14 shaft ports
- 2x G 1/8" BSPP drain ports for leak collection
- Through bore (for fiber or electric pigtails)
- Rotational speeds up to 120 rpm continuous
- Continuous 360° rotation
- Custom flanges and adaptors available
- Light weight
- 100 million revolution life
- 0.12 mL/hour leak rate

Benefits

- Minimal downtime and maintenance
- Compact and lightweight design
- Designed for ease of integration with Focal Electrical Slip Rings (ESRs) and Fiber Optic Rotary Joints (FORJs)
- Proven reliability in military applications

Applications

- Radar
- Ground vehicles
- Turrets
- Airborne applications
- Naval applications

Specifications

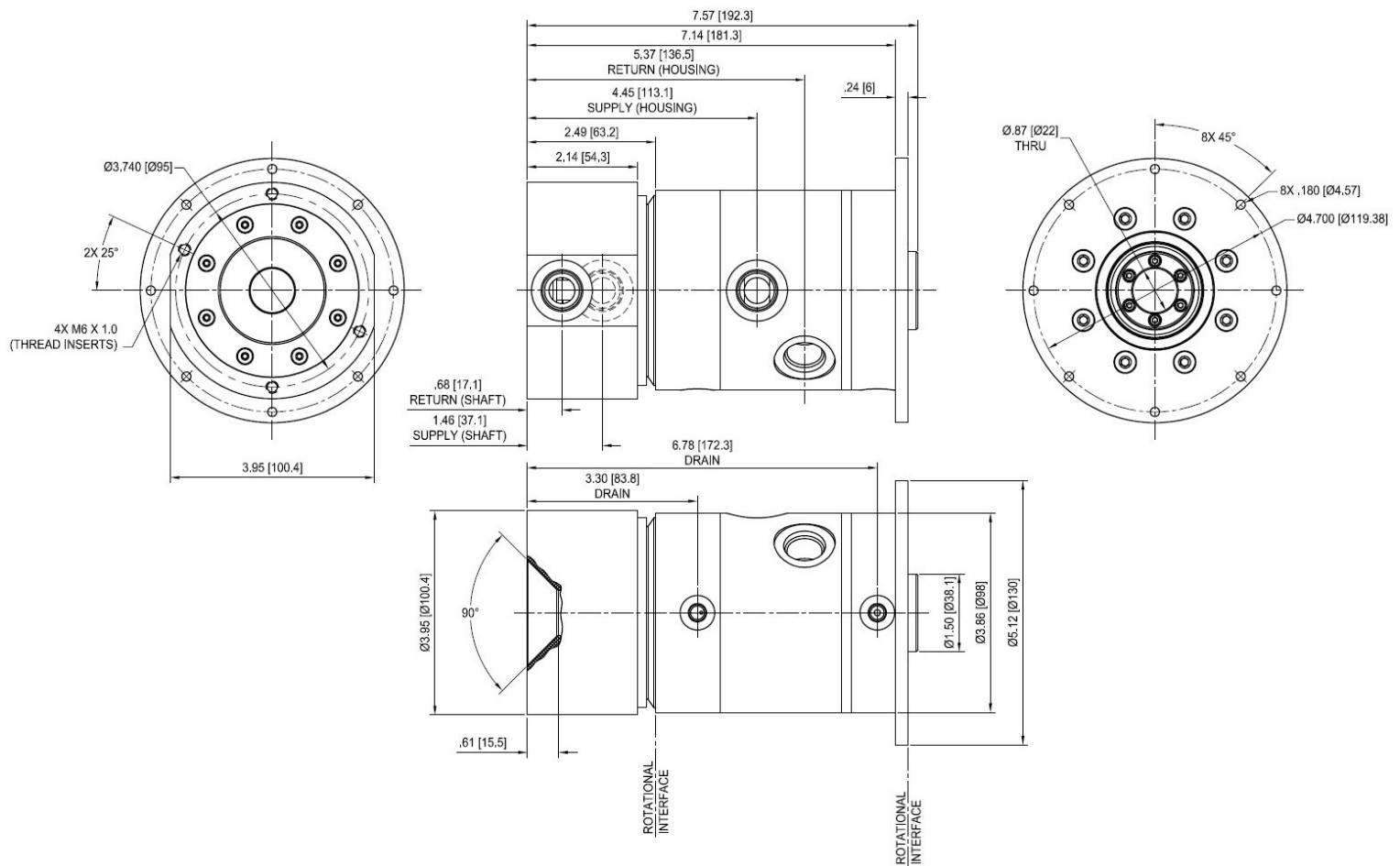
| Mechanical | |
|-------------------------------|---|
| Rotational Speed ¹ | 120 rpm (continuous) |
| Torque ² | Approx. 5 lb-ft [6.8 N-m] |
| Weight | Dependent on configuration |
| Pressure ¹ | 120 psi |
| Port Configuration | |
| Supply | G 1/2" BSPP (housing), M14 ISO 6149-1 (shaft) |
| Return | G 1/2" BSPP (housing), M14 ISO 6149-1 (shaft) |
| Drain (Housing) | 2 x G 1/8 BSPP |
| Rotational Life | > 100 million revolutions |

| Leakage | |
|-------------------|--|
| Typical Seal | 0.12 mL/h |
| Environmental | |
| Temperature | -55 °C to +80 °C (ambient) -40 °C to +75 °C (liquids) |
| Shock / Vibration | MIL-STD-810G |

¹ Operational life is dependent on pressure, temperature, rotational speed and duty cycle. Maximum values do not apply concurrently. Please consult the factory for actual value.

² Break-in torque may be higher

Flexible conduit should be used to couple to the rotating component. The torque arm must be loose coupled.



Dimensions in inches (millimeters)

All specifications and information are subject to change without notice. Please contact Focal for the latest updates.