HIGH PRESSURE
ROTARY
COUPLING

Pneumatic Rotary Gas Joints for High-Pressure Pure-Air / Argon Applications and Systems

Glenair high-pressure Pure-Air/Argon Rotary Joint solutions are designed and performance-tested for use in a wide variety of defense and aerospace applications, including cooling of infrared detectors, missile seekers and all high-pressure pneumatic actuation systems. These compact, lightweight rotary devices incorporate small-bore pipe assemblies for low friction and low external-leakage for pure air / argon rotary applications.

These high-pressure, low-torque devices are designed for direct incorporation into Joule Thompson (JT) cryogenic systems and all applications which require reliable pressurization, blow down, actuation, and IR Cooling. The components are designed to meet the broad range of military / aerospace performance requirements and specifications including high and low temperature tolerance, vibration, shock, altitude immersion, and more.

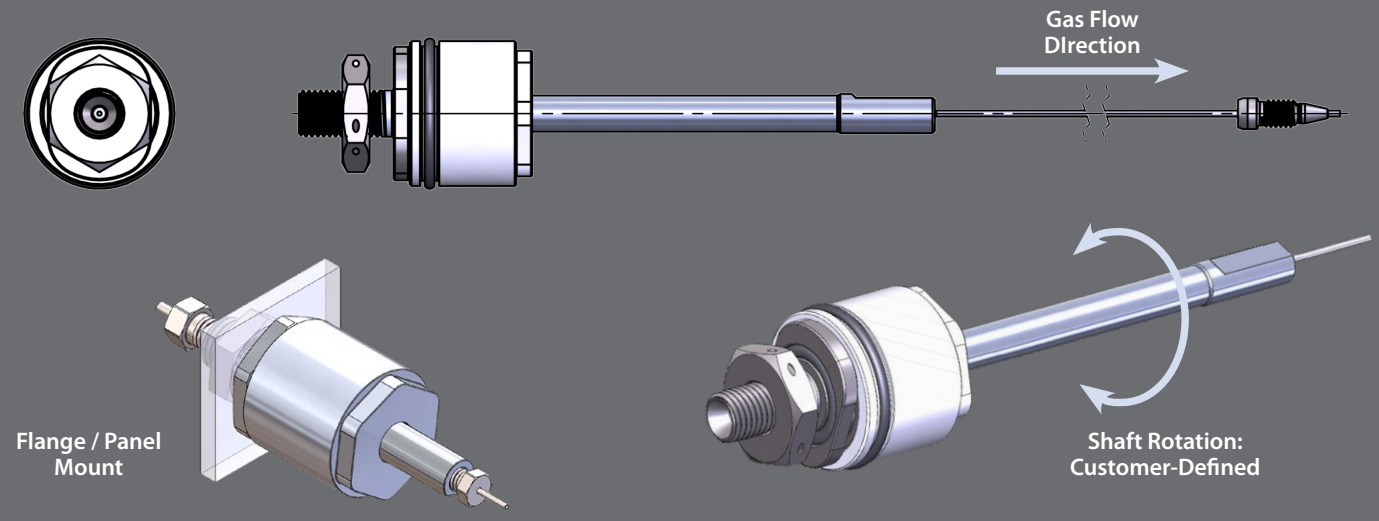
One of the variants shown, can be connected by an M6 nut and nipple to a sealed-for-life or rechargeable gas supply system, the coupling transfers the high-pressure gas axially through small bore tube, to a rotating assembly. All Rotary Gas Joint components are precision machined and manufactured to our drawings and designs.

- **Single passage, compact, low-torque pneumatic rotary unions / joints for pressurized pure air and argon (DEF STAN 58-96) cooling systems**
- **Small-bore stainless steel pipework located inside a compact housing for low leakage and low friction rotary couplings.**
- **Flange / panel mounting**

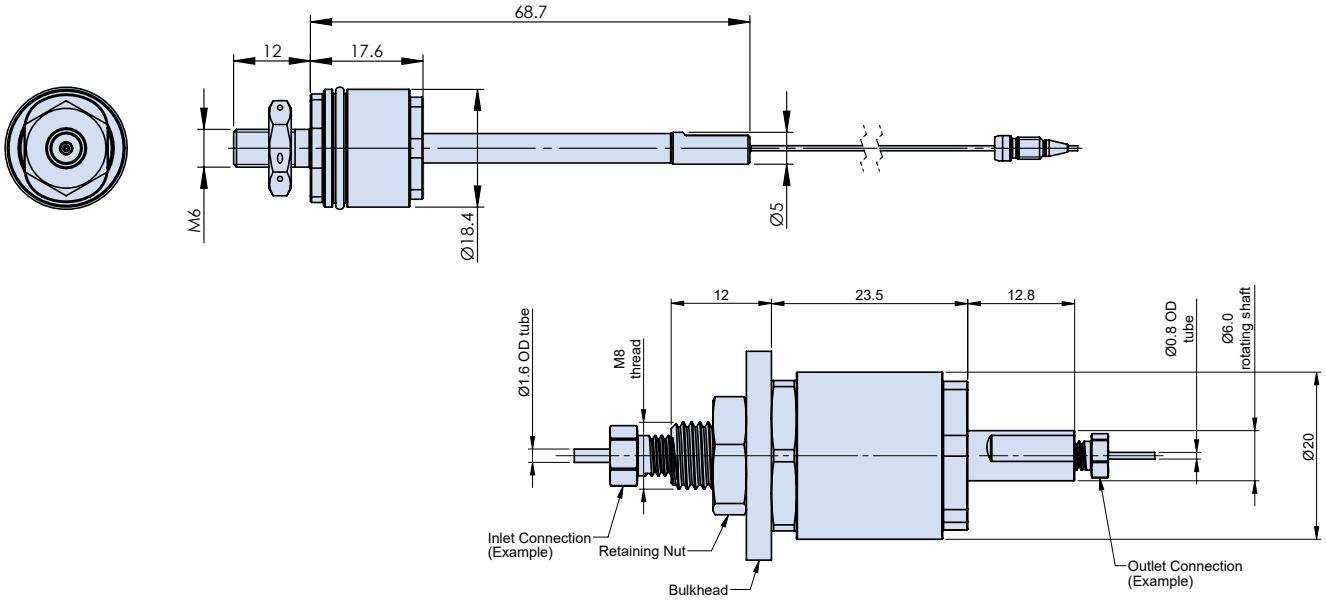
PURE AIR / ARGON

Single-Passage Pneumatic Rotary Joints for Guided Weapons Cooling

Technical and dimensional specifications



DIMENSIONAL DRAWINGS, CUSTOM DESIGN (TOP) AND GENERIC CONFIGURATION



Technical Performance	
Nominal Operating Pressure	480 bar at 20°C
Maximum Operating Pressure	600 bar at 60°C
Operating Temperature	-40°C +60°C for all applicable mechanical requirements
Normal Rotation Speed	100 RPM; increasing to 800 RPM
Typical Mass	34 grams