

High-Pressure Assemblies for Pure Air Pneumatic / Cryogenic Applications



Glenair High-Pressure Pure Gas solutions are designed and performance tested for use in a wide variety of Defense, Space and Aerospace applications, including cooling of infrared detectors, missile seekers and all High-Pressure Pneumatic Actuation and Deployment Systems.

Products include, Sealed for Life Gas Supply Systems, Re-chargeable Gas Supply Systems, High Pressure Solenoid Valves (miniature & low voltage), Small Bore pipe Assemblies, Relief Valves, Integrated Manifold Assemblies, Charge Valves and High Pressure Vessels.

All Systems and Ancillaries are designed for direct incorporation into Joule Thompson (JT) cryogenic systems and all applications which require reliable pressurization, blow down, actuation, and IR Cooling. Glenair Pure-Air and High Pressure Systems and components are designed to exact customer requirements and specification.

Glenair Pure Air / Nitrogen Systems and Sub-Assemblies provide passage of Nitrogen and other pure, pressurized gases through precision-machined components such as pressure regulating valves, solenoids, and Joule-Thompson (JT) cryogenic cooling systems.

Assemblies feature precision stainless steel pipeworks and tubing which are fabricated using a flux-free brazing process and are ultrasonically cleaned and packaged in a sealed, dust-free environment. Electromechanical components are also precision-machined with material properties and dimensional attributes per customer specifications.

Contact Glenair to discuss your custom design requirements.

- **Manifold Assemblies – including Charging Valves, Relief Valves or Burst Discs, Pressure Gauges, Control Valves**
- **Pipework Sub-Assemblies connecting cylinders to manifolds or components**
- **Pressure Regulating Valves**
- **Solenoid Valves – manifold or in-line; single or two-stage**
- **Manifolds to other sub-assemblies**

PERFORMANCE DATA

- **Pressure Range**
Working Pressures (WP) from 3,000 PSI (207 bar) to 10,000 PSI (690 bar).
- **Pipe Sizes Currently Available**
1/32", 1/16", 1/8", 1/4", 3mm and 6mm.
- **For Use with the Following Gases**
Nitrogen, Pure Air and Argon.
- **CNC Forming Available**
For 1/4" and 6mm diameter pipe.
- **Additional Requirements**
Please consult us for performance requirements outside of the above current listing.

MATERIAL AND FINISH

- Contact Body: Passivated Stainless Steel
- Internal O-Ring (Socket): High-Pressure Rated Elastomer
- Internal Washer (Socket): Temperature and Chemically Resistant Polymer
- Particle Filter (Socket): Stainless Steel
- Braze Material: Silver Alloy
- Tubing: 304 or 316 Stainless Steel

Please consult the Glenair factory for made-to-order Nitrogen / Pure Air contacts, hermetics, mixed contact AWG assemblies, point-to-point tubing assemblies with unique route and bend requirements as well as integrated cable harnesses that combine our Nitrogen / Pure Air contacts with standard electrical and / or fiber optic media.