



Series 83 GT Pure Gas Tube Assemblies

Turnkey, High-Pressure, Pure-Gas Contact and Tubing Assemblies for Mission-Critical Applications

United States ■ United Kingdom ■ Germany ■ France ■ Nordic ■ Italy ■ Spain ■ Japan

SERIES 83

Gas Tube Assemblies

FOR USE IN MIL-DTL-38999 AND OTHER HIGH PERFORMANCE CONNECTORS



**Proven Technology, In-Stock Availability
and Outstanding Customer Service**

Quality-Control Performance Tested to 10,000 PSI

Glenair Series 83 high pressure pure gas tube assemblies are designed for use in a wide variety of commercial aerospace and defense applications, including the cooling of infrared detectors, missile-seekers, and other pneumatic actuation and deployment systems such as infrared super coolers, sealed boxes, gas purge/chargers, cryogenics or any gas transfer system.

The precision gas contacts are designed for direct incorporation into MS type multi-pin cylindrical connectors, Glenair ultra-miniature connectors, as well as customer bespoke/non-standard designs. The high-pressure assemblies are suitable for use in pneumatic cooling systems—especially Joule-Thompson (JT) cryogenic systems—or other applications that require connectorized, separable components.



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**Series 83 GT Gas Tube
Pure-Gas Tubing Assemblies
Manufacturing Capabilities**



**Precision CNC contact
machining centers**



Precision tube cutter



**Precision ultra-
high temperature
silver alloy brazing
equipment**



**10,000 PSI
pressure tester**



Dimensions in inches (millimeters) and are subject to change without notice.

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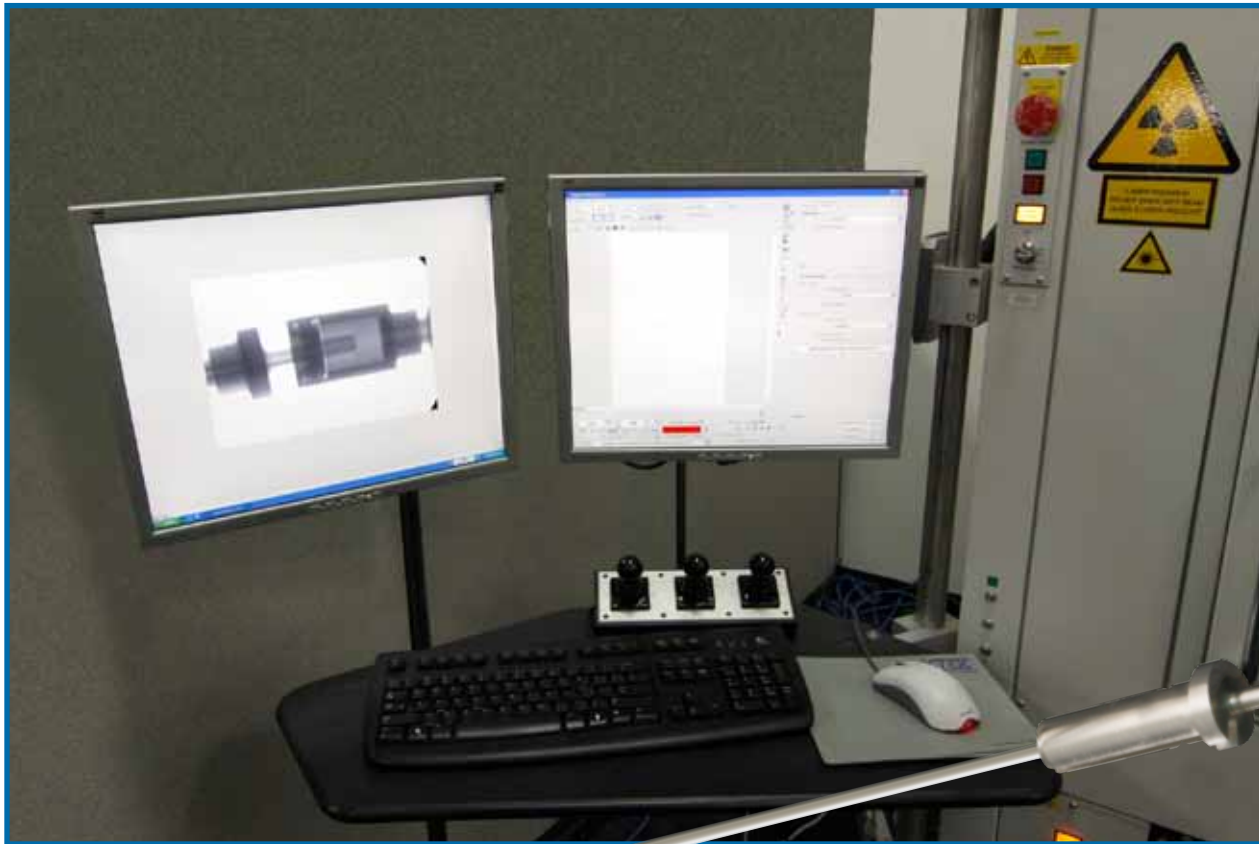
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Series 83 GT Gas Tube Pure-Gas Tubing Assemblies Manufacturing Capabilities



**Dedicated inspection and
quality control workstation**



**Pressure test and
outgassing safety
equipment**



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831-001
GT Gas Tube Assemblies
 for MIL-DTL-38999 Series I, III and IV Connectors



D38999
 Ser. I, III, IV

High-Pressure Assemblies for Pure Gas Pneumatic/Cryogenic Applications



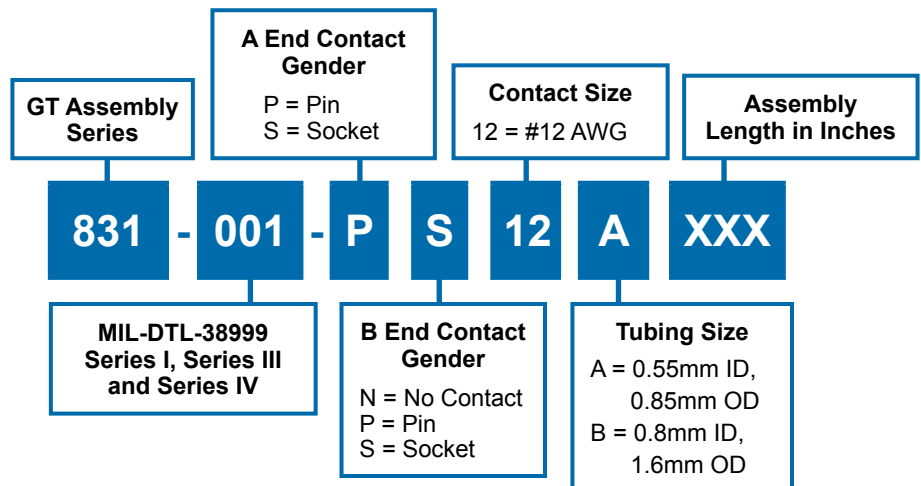
831-001 #12 Assembly
 for MIL-DTL-38999 Series I, III, and IV

Series 831 GT assemblies provide passage of nitrogen and other pure, pressurized gases through standard MIL-DTL-38999 Series I, III and IV connectors. These snap-in, rear-release assemblies feature precision stainless steel gas contacts brazed to semi-rigid stainless steel tubing. The assemblies are fabricated using a flux-free brazing process and are ultrasonically cleaned and packaged in a sealed, dust-free environment. Available in #12 AWG gas contacts, these assemblies are supplied with two different tubing sizes, and may be ordered in single ended or pin-to-pin, pin-to-socket and socket-to-socket configurations. Consult factory for available off-the-shelf lengths or use the part number to specify a made-to-order length.

#12 assembly for MIL-DTL-38999 Series I, Series III and Series IV environmental connectors. Use part number development to specify gender, assembly length and tubing type.

Glenair GT Gas Tube Connectors Perform to MIL-DTL-38999

- **Flow Rate**
 Typical Flow Rate is 5 liters per minute (lpm) @ 150 PSI.
- **Thermal Shock**
 After cycling the connector between -65°C +175°C, gas contacts will meet all applicable mechanical requirements.
- **Durability**
 No mechanical defects after 500 cycles of engagement and disengagement.
- **Physical Shock**
 No loosening of parts, cracking or other deleterious results hindering further part operation after 300 G's in each of 3 mutually perpendicular planes.
- **High Impact Shock**
 Mated connectors will withstand high impact shock per MIL-S-901.
- **Vibration**
 No disengagement of mated contacts, backing off of the coupling mechanism, evidence of cracking, breaking or loosening of parts.



Example Part Number: 831-001-PS12A024

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
 Brazing Material: Silver Alloy
 Tubing: Stainless Steel

* Please consult the Glenair factory for made-to-order GT gas 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 GT tubing and gas contacts with standard electrical and/or fiber optic media.

Dimensions in inches (millimeters) and are subject to change without notice.



831-002 GT Gas Tube Assemblies for MIL-DTL-38999 Series II, Glenair Series 79 and Series 80



High-Pressure Assemblies for Pure Gas Pneumatic/Cryogenic Applications

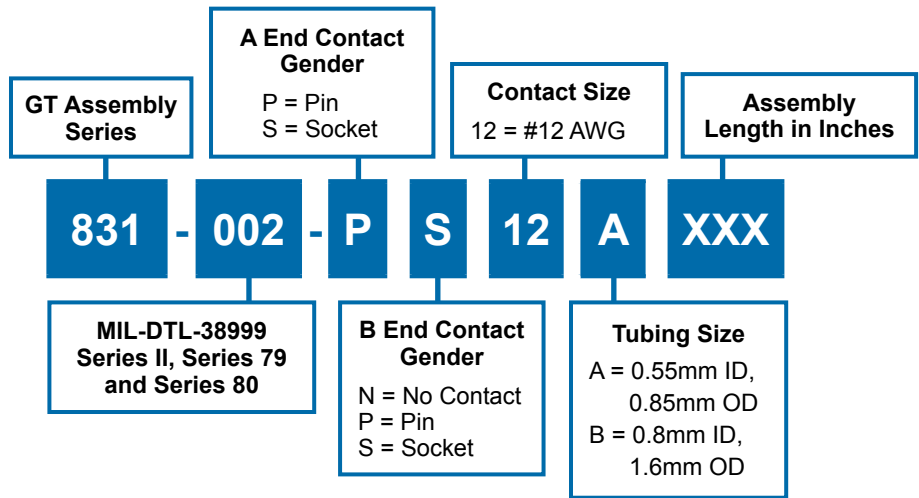


831-002 #12 Assembly
for MIL-DTL-38999 Series II, Series 79
and Series 80 Mighty Mouse



Series 831 GT assemblies provide passage of nitrogen and other pure, pressurized gases through standard MIL-DTL-38999 Series II as well as Glenair Series 79 and 80 environmental connectors. These snap-in, rear-release assemblies feature precision stainless steel gas contacts brazed to semi-rigid stainless steel tubing. The assemblies are fabricated using a flux-free brazing process, ultrasonically cleaned and packaged in a sealed, dust-free environment. Available with #12 AWG gas contacts, these assemblies are supplied with two different tubing sizes, and may be ordered in single ended or pin-to-pin, pin-to-socket and socket-to-socket configurations. Consult factory for available off-the-shelf lengths or use the part number to specify a made-to-order length.

#12 assembly for MIL-DTL-38999 Series II, Series 79 and Series 80 environmental connectors. Use part number development to specify gender, assembly length and tubing type.



Example Part Number: 831-002-PS12A024

Why Order from Glenair?

- **Free Application Engineering**
The industry's largest and most experienced engineering team is standing by to assist with non-standard designs and customizations.
- **Delivery**
Glenair offers the fastest delivery in the business—guaranteed.
- **Quality Control**
Every gas tube assembly is 100% inspected and tested.
- **Local Support**
Glenair offers comprehensive worldwide support on your schedule and at your convenience.

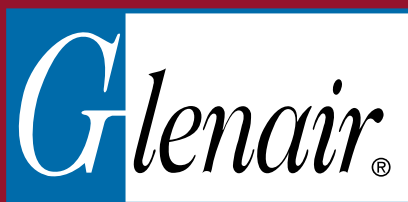
Material and Finish

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
Brazing Material: Silver Alloy
Tubing: Stainless Steel

* Please consult the Glenair factory for made-to-order GT 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 GT tubing and gas contacts with standard electrical and/or fiber optic media.

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In a Hurry? Need Your Parts Now? Fast Turnaround is Our Specialty



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A World of Interconnect Solutions

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