

Glass-sealed Hermetic Connectors





Resolve gas, moisture and particle ingress problems with advanced-performance glasssealed hermetic connectors

Helium Leak Testing

All hermetic connectors are 100% tested prior to shipment. A helium leak test is performed to certify the hermetic seal. This test is conducted by inducing a 1 ATM vacuum on one side of the connector. Helium gas is released on the other side, and a mass spectrometer "counts" the number of helium molecules that penetrate the connector seal. Helium leak testing takes advantage of the small size of a helium molecule compared to air or water vapor. Helium is inert, rare in our atmosphere, and is easy to detect with a mass spectrometer.

VITREOUS GLASS TECHNOLOGY ADVANTAGES

- Superior pressure resistance to 32,000+ PSI
- Higher resistance to extreme operating temperatures to 260°+ C
- Superior mechanical strength
- No material breakdown or aging over time
- Helium leak rate <1X10⁻⁷ cc/sec to 1X10⁻¹⁰

Std cc/sec	Approximate
Approximate	Bubble Equivalent
1 x 10-1	1 cc/10 sec
1 x 10-2	1 cc/100 sec
1 x 10-3	1 cc/hour
1 x 10-4	1 cc/3 hours
1 x 10-5	1 cc/24 hours
1 x 10-6	1 cc/2 weeks
1 x 10-7	3 cc/year
1 x 10-8	1 cc/3 year
1 x 10-9	1 cc/30 years
1 x 10-11	1 cc/3000 years

CIRCULAR GLASS-SEALED HERMETIC CONNECTORS AVAILABLE WITH ACCELERATED LEAD TIMES











MIL-DTL-26482

MIL-DTL-83723

MIL-DTL-38999 (QPL)

MIL-DTL-5015

Series 80 Mighty Mouse

MIL-DTL-38999 AND OTHER

Glass-Sealed Hermetic Connectors



GEOPHYSICAL AND OFFSHORE CONFIGURATIONS



GeoMarine® doublestart hermetic connector



Hermetic power connector



Single-way tool joint hermetic connector



Hermetic probe connector



Hermetic bulkhead penetrator

HIGH-SPEED/SHIELDED DESIGNS



Triax hermetic



Hybrid coax/signal hermetic



Quadrax hermetic



MT ribbon fiber optic hermetic



Hybrid coax/signal hermetic

RECTANGULAR PACKAGES



MIL-DTL-24308 QPL hermetic



Series 79 Micro-Crimp hermetic



MIL-DTL-83513 type micro-D hermetics



Sealed panel-mount micro-D hermetic

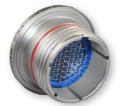
MIL-DTL-38999 QPL PIN AND SOCKET HERMETICS



Series I
Scoop-proof
3 Point Bayonet Coupling



Series II
Low-profile
3 Point Bayonet Coupling



Series III
Scoop-proof
Triple Start, Self-Locking



Series IV Scoop-proof Breech Lock