

Item # KCGL90-316, High Pressure Series KCGL High Anti-Vibration Collet Gland Assembly

QUOTE

Series KCGL - Sizes to 9/16" (14.29 mm), Pressures to 60000 psi (4137 bar)

For extreme conditions of vibration and/or shock in tubing systems, such as locating valve or fitting on an unsupported line near a compressor, Autoclave coned-and-threaded connections are offered with the Anti-Vibration Collet Gland Assemblies. Completely interchangeable with standard Autoclave high pressure connections, the Collet Gland Assemblies provide equally effective pressure handling capability.

In standard connection systems, the bending stresses on the threaded area of the tubing imposed by excessive vibration or movement may cause premature fatigue failure of the tubing at the back of the thread. By moving the stress concentration back to the unthreaded part of the tubing and providing a wedge-type gripping action, the Autoclave Engineers anti-vibration collet gland assembly strengthens the entire structure. With stress concentration reduced and overall stress level maintained well below the endurance limit of the material, the result is virtually unlimited vibrational fatigue life.

A less complex and more economical design than other vibration-resistant connections, the Collet Gland Assembly utilizes the same coned-and-threaded features of Autoclave high pressure connections. In Series KCGL the gland nut is recessed to accommodate a tapered, slotted collet that grips the tubing at a point behind the threaded area of the tubing. The design provides a slight difference in angles between the collet and the corresponding taper of the gland nut. As the nut is tightened, it acts to wedge the tapered end of the collet into a gripping engagement with the tubing and, at the same time, forces the collar and tubing assembly into line contact with the connection seat.

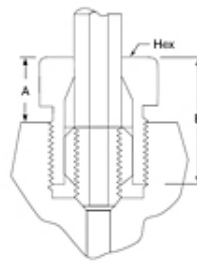
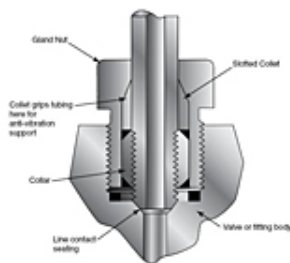
Standard Autoclave Engineers collar not included in complete assembly.

Note: Special material assemblies may be supplied with four flats in place of standard hex.

All dimensions for reference only and subject to change.

For prompt service, Autoclave stocks select products. Consult your local representative.

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SPECIFICATIONS

Part	Complete assembly
Outside Diameter Tubing Size	9/16 Inch 14.29 mm
A - Height	1 Inch 25.4 mm
B - Height	1.50 Inch 38.10 mm
HEX	1.19 Inch 30.23 mm