

High Anti-Vibration Collet Gland Assembly

Pressures to 150,000 psi (10342 bar)

Series KCGL Sizes to 9/16" (14.29 mm)

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



- Note: 1) To order components with anti-vibration assemblies add -K to catalog numbers.
 - 2) Special material assemblies may be supplied with four flats in place of standard hex.

Catalog		Outside	Dimensions - inches (mm)			
Number	Part	Tubing Size in. (mm)	A	В	Hex	Hex
KCGL40-316	Complete assembly					
KCL40-316	Slotted collet	1/4	0.50	0.81	0.62	
KGL40-316	Gland nut	(6.35)	(12.70)	(20.58)	(15.75)	
						│
KCGL60-316	Complete assembly					
KCL60-316	Slotted collet	3/8	0.62	1.12	0.81	
KGL60-316	Gland nut	(9.53)	(15.75)	(28.45)	(20.58)	
		7				
KCGL90-316	Complete assembly					
KCL90-316	Slotted collet	9/16	1.00	1.50	1.19	
KGL90-316	Gland nut	(14.29)	(25.40)	(38.10)	(30.23)	
		7				Series KCGI
	I					60.000 psi (4137 bar)
						Standard Parker Autoclave Engineers collar not included in complete assembly

All dimensions for reference only and subject to change

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

All general terms and conditions of sale, including limitations of our liability, apply to all products and services sold.



Series KCBGLX - Sizes to 1" (25.40) Series KCBGL - Sizes to 1/4" (6.35), 5/16" (7.94), 3/8" (9.53)

For extreme conditions of vibration and/or shock in tubing systems, such as locating a valve or fitting on an unsupported line near a compressor, Autoclave coned-andthreaded connections are offered with the Anti-Vibration Collet Gland Assemblies. 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.

Series KCBGLX and KCBGL extends the gland nut to provide room for the tapered, slotted collet and collet nut. 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.

Materials

Type 316 stainless steel with bonded dry film (316MC) moly lubricant.



To order components with anti-vibration assemblies add -K Note: 1) to catalog numbers.

Special material assemblies may be supplied with four flats 2) in place of standard hex.

Catalog Dent Outside Dia		Outside Diameter	Dim	ensions - inches (
Number	Part	Tubing Size in. (mm)	A	В	Hex	Hex
KCBGLX160-316MC	Complete assembly					
KCBLX160-316MC	Collet body	1.0	1.69	2.38	1.50	
KCCLX160-316MC	Slotted collet	(25.40)	(25.40)	(60.45)	(38.10)	
KGLX160-316MC	Gland nut	1				
KCBGL40-316MC [†]	Complete assembly					
KCBL40-316MC	Collet body	.250	1.38	1.88	.75	
KCCLX40-316MC	Slotted collet	(6.35)	(34.92)	(47.62)	(19.05)	
KGL40-316MC	Gland nut	1				
KCBGL50-316MC ⁺	Complete assembly] [봄] [뷘] / [
KCBL50-316MC	Collet body	.312	1.38	1.88	.75	
KCCL50-316MC	Slotted collet	(7.94)	(34.92)	(47.62)	(19.05)	
KGL50-316MC	Gland nut					
KCBGL60-316MC [†]	Complete assembly					Series KCBGLX - 43,000 psi (2965 bar)
KCBL60-316MC	Collet body	.375	1.38	1.88	.75	Series KCBGL - 150,000 psi (10342 bar
KCCLX60-316MC	Slotted collet	(9.53)	(34.92)	(47.62)	(19.05)	Standard Autoclave Engineers collar not
KGL60-316MC	Gland nut					included in complete assembly

All dimensions for reference only and subject to change

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

WARNING

FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE. This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met. The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice

Offer of Sale

The items described in this document are available for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. Any sale contract entered by Parker will be governed by the provisions stated in Parker's standard terms and conditions of sale (copy available upon request).

© 2013 Parker Hannifin Corporation | Autoclave Engineers is a registered trademark of the Parker Hannifin Corporation

Autoclave Engineers



Instrumentation Products Division Autoclave Engineers Operation 8325 Hessinger Drive Erie, Pennsylvania 16509-4679 USA PH: 814-860-5700 FAX: 814-860-5811 www.autoclave.com

Parker Hannifin Manufacturing Ltd. Instrumentation Products Division, Europe Industrial Estate Whitemill Wexford, Republic of Ireland PH: 353 53 914 1566 FAX: 353 53 914 1582

Caution! Do not mix or interchange parts or tubing with those of other manufacturers. Doing so is unsafe and will void warranty.

02-0125SE

Caution! Parker Autoclave Engineers Valves Fittings and Tools are not designed to work with common commercial instrument tubing and will only work with tubing built to Parker Autoclave Engineers AES Specifications. Failure to do so will void warranty.

ISO-9001 Certified

January2013

Tel: +45 63 12 83 00 Email: ps@hymatik.com www.hymatik.com Hvidkaervej 27a, DK-5250 Odense SV, Denmark

[†]KCBGL anti-vibes are for 100,000 and 150,000 psi components.