

LC501

High Temperature - Fixed Cavity Type With Threadless Clam-Shell Closure

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Design Features

High Temperature

Designed for high temperature environmental control and engine bleed air applications. Couplings of CRES material using

Locks Automatically

Clam-shell closure locks automatically when two halves are snapped together and cannot disengage accidentally since all

Quick Disconnect

Quick disconnect action of the latch simplifies and facilitates assembly and removal by one hand.

Easily Inspected

Visual inspection from a distance provides positive indication that the closure is fully engaged and securely locked.

Flexible

Axial adjustment is 1/4" nominal; angular misalignment is $\pm 4^\circ$ for full coupling.

Lightning Protection

Protection is provided to at least 1500 amperes when tested in accordance with MIL-STD-1757 test method T03 using current

Self Bonding

Electrical bonding to class "S" of MIL-B-5087B is automatically provided when the coupling is assembled.

Product Notes

Coupling flanges and seals are not furnished with these assemblies and, for clarity, are shown in phantom outline. Seal

The 14C02-(SIZE)A Clam-shell Assembly material is 2024-T851 aluminum alloy or equivalent, anodized, dyed magenta.
 The 14C02-(SIZE)C Clam-shell Assembly material is 300 series CRES, passivated. Latch pawls, hinges, rivets, latch springs:
 The 14C02-(SIZE)T Clam-shell Assembly material is commercially pure or 6AL-4V titanium alloy, no finish. Latch pawls,

The 14R02-(SIZE)A Sleeve material is 2024-T851 aluminum alloy or equivalent, anodized, non-dyed, dichromate seal.
 The 14R02-(SIZE)C Sleeve material is 300 series CRES, passivated.
 The 14R02-(SIZE)T Sleeve material is commercially pure titanium, no finish.

The coupling assembly has been qualified and meets the performance requirements of MIL-C-22263 and Lockheed

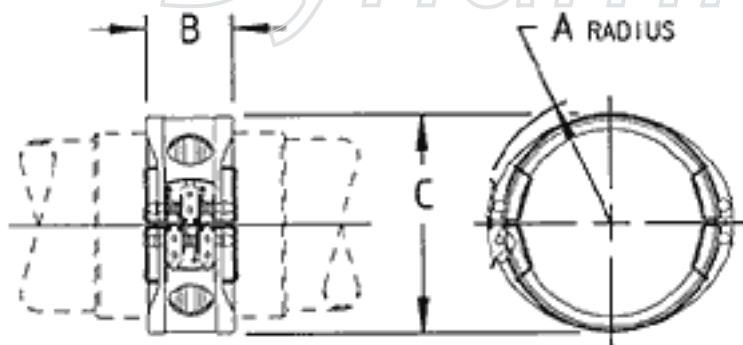
Coupling assembly weights shown in table below do not include flanges and seals.

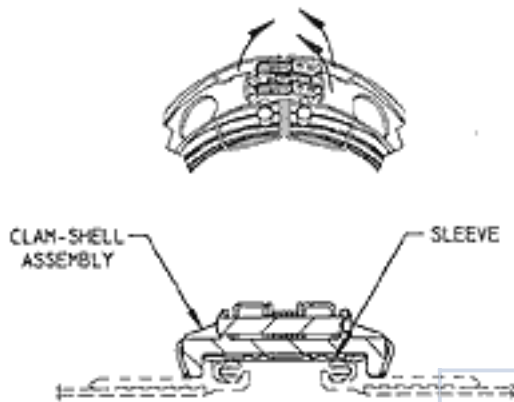
Coupling assembly has been qualified and meets the requirements of MIL-C-22263.

Temperature Rating:

Coupling Materials	Fluid Temp Intermittent	Fluid Temp Constant	Ambient Temp Range
CRES/Titanium	+700°g;F Max - 120°g;F	+650°g;F - 120°g;F	+440°g;F Max - 120°g;F
Aluminum Alloy	+300°g;F Max	+300°g;F Max	+300°g;F Max

Pressure Rating:
 Operating Pressure: 125 psig
 Proof Pressure: 250 psig
 Burst Pressure: 375 psig





•• Tu Size O.D.	Part Numbers				Dimensions			Ass'y. Wt. Lbs.		
	•• Assembly	•• Cla Shell Assembly	••	•• Se SD028- Size Ref.	•• Max	••	•• Max	•• Al	•• Cr	••
.500	LC501-08 X	14C02-08 X	14R02-08 X	-015	.71	.72	1.06	.028	.051	.035
.625	LC501-10 X	14C02-10 X	14R02-10 X	-017	.78	.72	1.16	.031	.058	.039
.750	LC501-12 X	14C02-12 X	14R02-12 X	-117	.85	.82	1.27	.039	.076	.051
1.000	LC501-16 X	14C02-16 X	14R02-16 X	-214	.98	.91	1.49	.049	.103	.067
1.250	LC501-20 X	14C02-20 X	14R02-20 X	-218	1.11	.91	1.74	.055	.117	.076
1.500	LC501-24 X	14C02-24 X	14R02-24 X	-222	1.23	.91	2.03	.061	.135	.086
1.750	LC501-28 X	14C02-28 X	14R02-28 X	-224	1.36	.91	2.24	.067	.149	.096
2.000	LC501-32 X	14C02-32 X	14R02-32 X	-226	1.50	.95	2.53	.080	.178	.126
2.250	LC501-36 X	14C02-36 X	14R02-36 X	-228	1.63	.95	2.87	.090	.203	.133
2.500	LC501-40 X	14C02-40 X	14R02-40 X	-230	1.75	.95	3.03	.094	.213	.138
3.000	LC501-48 X	14C02-48 X	14R02-48 X	-234	2.03	.99	3.69	.148	.335	.225
3.500	LC501-56 X	14C02-56 X	14R02-56 X	-238	2.28	.99	4.19	.177	.397	.271
•• X = Material Co										

Ordering Information

Coupling assembly LC501-(SIZE)(MATL) consists of:
 14C02-(SIZE)(MATL) Clam-shell Assembly
 14R02-(SIZE)(MATL) Sleeve

Following items should be ordered separately.
 Example:
 LC011-(SIZE)(MATL) Swaged Flange (2 reqd.)
 or
 LC012-(SIZE)(MATL) Welded Flange (2 reqd.)
 and
 SD028-(Dash No.) High temp. seal (2 reqd.)

Part Number Code	LC501-	XX	X
Coupling Assembly			
Size Code			
Tube O.D. in Sixteenths of Inch			
Material Code			
A=Aluminum Alloy C=CRES T=Titanium			