

Lightweight Rigid Coupling with "C" Gasket Fig. 65LR & 66LR



Figure 65LR & 66LR Lightweight Rigid couplings are designed for use in piping systems when rigid piping connections are desired. The angle-pad design allows the coupling housing to slide when tightened. This provides offset clamping that creates a rigid joint resistant to flexural and torsional loads.

- Maximum working pressure 500 psi (34.5 bar) depending on coupling size and schedule of pipe
- All housings, gaskets and bolts identified by SCI logo
- 100% magnetic particle inspection of each bolt
- Each bolt has a minimum tensile strength of 110,000 psi
- Gaskets are Pre-Lubricated
- Gasket Grade E – EPDM (green stripe) -30°F (-34°C) to $+230^{\circ}\text{F}$ ($+110^{\circ}\text{C}$)
- Gasket Grade T – Nitrile (orange stripe) -20°F (-29°C) to $+180^{\circ}\text{F}$ ($+82^{\circ}\text{C}$)
- Gasket Grade O – Fluoroelastomer (blue stripe) $+20^{\circ}\text{F}$ (-6°C) to $+300^{\circ}\text{F}$ ($+149^{\circ}\text{C}$)
- Ductile iron housings conform to ASTM A-536 Grade 65-45-12
- Groove Dimensions to AWWA C-606
- Finishes:
 - > Orange enamel paint
 - > Hot dipped galvanized conforming to ASTM A-153
- ASC Engineered Solutions® warranty only applies to assemblies made with housings, gaskets and bolts carrying the SCI logo

Material Specifications

Housing

Ductile Iron Housings conform to ASTM A-536, Grade 65-45-12

Coating

Orange Paint (rust inhibiting) – Standard Coating

– Fig. 65LR

Hot Dipped Galvanized conforming to ASTM A-153

– Fig. 66LR

Coupling Gasket Style

"C" Style – E-EPDM, T-Nitrile, O-Fluoroelastomer

Triple Seal – EPDM Only

Painted – Fig. 65LRTRI

Galvanized – Fig. 66LRTRI

Coupling Gasket Material

Pre-lubricated Grade E-EPDM (Green Stripe)

-30°F (-34°C) to $+230^{\circ}\text{F}$ ($+110^{\circ}\text{C}$)

Service Temperature Range

For use with water service, diluted acids, alkali solutions, oil-free air and other chemical services. NOT FOR PETROLEUM, STEAM, OR NATURAL GAS APPLICATIONS.

Grade T-Nitrile (Orange Stripe)

-20°F (-29°C) to $+180^{\circ}\text{F}$ ($+82^{\circ}\text{C}$)

Service Temperature Range

For use with petroleum applications, vegetable & mineral oils, and air with oil vapors.

NOT FOR USE IN HOT WATER, STEAM, OR NATURAL GAS APPLICATIONS.

Grade O – Fluoroelastomer (Blue Stripe)

$+20^{\circ}\text{F}$ (-6°C) to $+300^{\circ}\text{F}$ ($+149^{\circ}\text{C}$)

Service Temperature Range

For high temperature resistance to oxidizing acids, petroleum oils, hydraulic fluids, halogenated hydrocarbons, and lubricants. (Special Order)

Nuts and Bolts

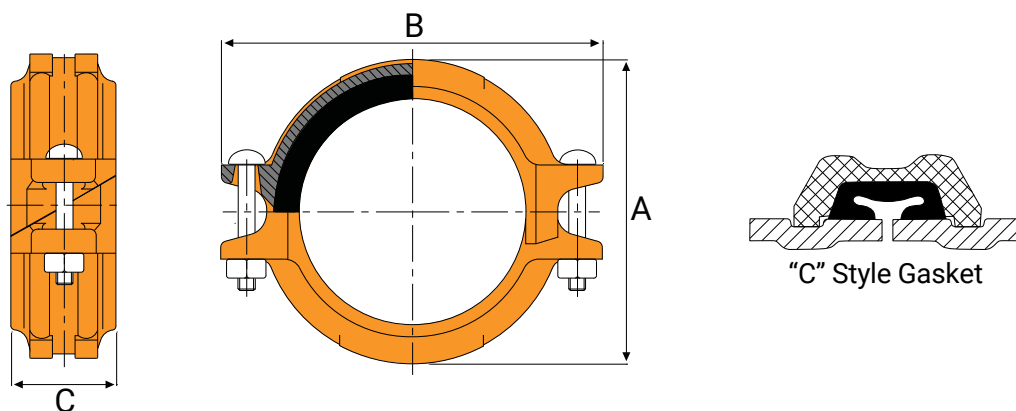
Zinc electroplated, heat treated, oval neck track head bolts conforming to ASTM-183 Grade 2 with a minimum tensile strength of 110,000 psi; Heavy hex nuts made of carbon steel conforming to ASTM A-563 Grade A or Grade B, or J995 Grade 2.

SCI track bolts are 100% magnetic particle Inspected. The SCI logo appears on all COOPLOK™ track bolts.



PROJECT INFORMATION	APPROVAL STAMP
Project:	Approved
Address:	Approved as noted
Contractor:	Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

Lightweight Rigid Coupling with "C" Gasket Fig. 65LR & 66LR



Pipe Size in/mm	Part Number		Pipe OD in/mm	Max Pipe End Gap in/mm	Dimensions			Case Qty	Weight lb/kg
	Painted	Galvanized			A in/mm	B in/mm	C in/mm		
1¼ 32	65LR3012	66LR3012	1.660 42.2	⅛ 1.6	2.66 67.6	4.09 103.9	1.85 47.0	24	1.3 0.6
1½ 40	65LR3014	66LR3014	1.900 48.3	⅛ 1.6	2.93 74.4	4.37 111.0	1.85 47.0	36	1.4 0.6
2 50	65LR3020	66LR3020	2.375 60.3	⅛ 1.6	3.44 87.4	4.80 121.9	1.85 47.0	30	1.7 0.8
2½ 65	65LR3024	66LR3024	2.875 73.0	⅛ 1.6	3.96 100.6	5.28 134.1	1.85 47.0	24	2.0 0.9
3 80	65LR3030	66LR3030	3.500 88.9	⅛ 1.6	4.55 115.6	5.91 150.1	1.85 47.0	20	2.2 1.0
4 100	65LR3040	66LR3040	4.500 114.3	⅜ 3.2	5.83 148.1	7.28 184.9	2.01 51.1	10	3.4 1.5
5 125	65LR3050	66LR3050	5.563 141.3	⅜ 3.2	6.87 174.5	8.62 218.9	2.01 51.1	8	4.4 2.0
6 150	65LR3060	66LR3060	6.625 168.3	⅜ 3.2	8.03 204.0	9.76 247.9	2.01 51.1	6	5.4 2.4
8 200	65LR3080	66LR3080	8.625 219.1	⅜ 3.2	10.16 258.1	12.52 318.0	2.52 64.0	—	10.5 4.8

Lightweight Rigid Coupling with Triple Seal Gasket Fig. 65LRTRI & 66LRTRI



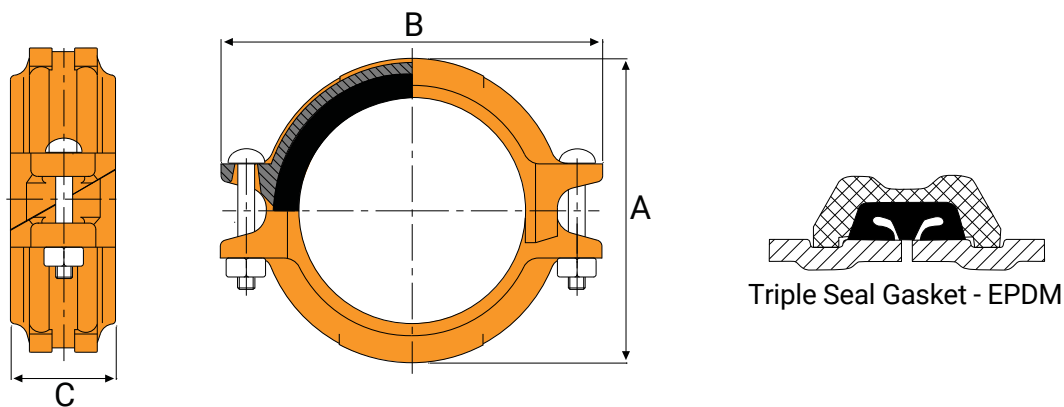
- Maximum working pressure 500 psi (34.5 bar) depending on coupling size and schedule of pipe
- All housings, gaskets and bolts identified by SCI logo
- 100% magnetic particle inspection of each bolt
- Each bolt has a minimum tensile strength of 110,000 psi
- Gasket Grade E – EPDM (green stripe) -30°F (-34°C) to +230°F (+110°C)
- Other gasket materials available by special order
- Ductile iron housings conform to ASTM A-536 Grade 65-45-12
- Groove Dimensions to AWWA C-606
- Finishes:
 - > Orange enamel paint
 - > Hot dipped galvanized conforming to ASTM A-153
- ASC Engineered Solutions® warranty only applies to assemblies made with housings, gaskets and bolts carrying the SCI logo



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Building connections that last™

Lightweight Rigid Coupling with Triple Seal Gasket Fig. 65LRTRI & 66LRTRI



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	Painted	Galvanized			A in/mm	B in/mm	C in/mm		
1¼ 32	65LRTRI3012	66LRTRI3012	1.660 42.2	1/16 1.6	2.66 67.6	4.09 103.9	1.85 47.0	36	1.3 0.6
1½ 40	65LRTRI3014	66LRTRI3014	1.900 48.3	1/16 1.6	2.93 74.4	4.37 111.0	1.85 47.0	36	1.4 0.6
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