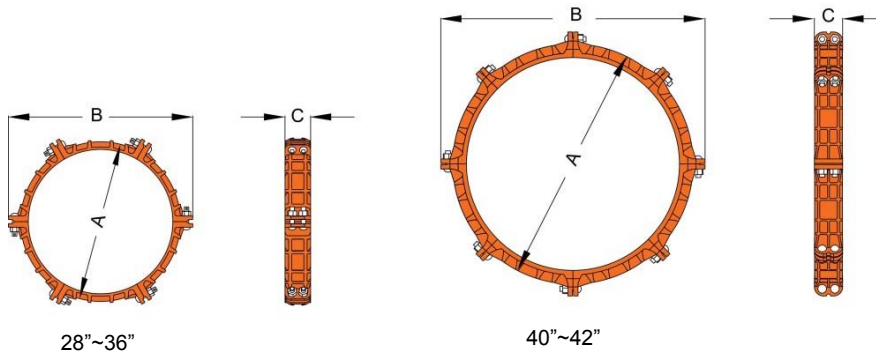


MODEL 7707L LARGE DIAMETER COUPLING

The **Shurjoint** Model 7707L Large diameter couplings in sizes 28" - 42" / 700 mm – 1050 mm are designed for joining large diameter IPS pipe that can be roll grooved. All couplings feature a six to eight segment design, incorporating two bolts at each segment joint to ensure a positive connection and seal.



7707L couplings should always be installed so that the coupling bolt pads make metal to metal contact.



Full warranty terms can be found on www.shurjoint.com

Model 7707L Large Diameter Coupling

Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Max. End Load (CWP)	Axial Displacement †	Angular Movement **†		Dimensions			Bolt		Weight
					Per Coupling Degree(°)	Per Pipe in / ft	A	B	C	No.	Size	
in	in	PSI	Lbs	in			in	in	in		in	Lbs
mm	mm	Bar	kN	mm		mm / m	mm	mm	mm			Kgs
28	28.0	175	107700	0.250	---	---	32.0	35.98	5.0	12	7/8 x 4	180
700	711.2	12	476.47	6.4	---	---	813	914	127			82
30	30.0	175	123630	0.250	---	---	34.0	38.07	5.0	12	7/8 x 4	209
750	762.0	12	546.97	6.4	---	---	864	967	127			95
32	32.0	175	140670	0.250	---	---	36.0	40.08	5.0	12	7/8 x 4	207
800	812.8	12	622.33	6.4	---	---	914	1018	127			94
34	34.0	175	158800	0.250	---	---	38.3	42.00	5.0	12	7/8 x 4	198
850	863.6	12	702.55	6.4	---	---	974	1066	127			90
36	36.0	175	178030	0.250	---	---	40.0	44.02	5.0	12	7/8 x 4	212
900	914.4	12	787.63	6.4	---	---	1016	1118	127			96
40	40.0	175	219800	0.250	---	---	43.5	49.49	5.4	16	1 x 3 1/2	271
1000	1016.0	12	972.39	6.4	---	---	1105	1257	138			123
42	42.0	175	242330	0.250	---	---	45.5	51.57	5.4	16	1 x 3 1/2	313
1050	1066.8	12	1072.05	6.4	---	---	1156	1310	138			142

* Working pressure is based on roll-grooved standard wall carbon steel pipe.

† Allowable Axial Displacement and Angular Movement (deflection) figures are for roll grooved standard steel pipe. Values for cut grooved pipe will be double that of roll grooved. These values are maximums; for design and installation purposes these figures should be reduced by: 50% for 3/4" – 3 1/2"; 25% for 4" and larger to compensate for jobsite conditions.

** Deflection or angular movement is the maximum value that a coupling allows under no internal pressure.

Performance Data

The following tables show the maximum working pressures (CWP) of **Shurjoint** Model 7707L Heavy Duty Flexible Coupling used on roll grooved carbon steel pipes.

Model 7707L on Carbon Steel Pipe			
Nom. Size	XS (0.500")*	STD (0.375")	LW (0.312")
in / mm	PSI / Bar	PSI / Bar	PSI / Bar
28 700	250 17	175 12	125 9
30 750	250 17	175 12	125 9
32 800	250 17	175 12	125 9
34 850	250 17	175 12	125 9
36 900	250 17	175 12	125 9
40 1000	250 17	175 12	125 9
42 1050	250 17	175 12	125 9

Note: * Pressure ratings are based on cut-grooved XS carbon steel pipe.

MATERIAL SPECIFICATIONS

• Housing:

Ductile Iron to ASTM A536, Gr. 65-45-12 and or ASTM A395, Gr. 65-45-15, min. tensile strength 65,000 psi (448 MPa).

• Surface Finish:

Standard painted finishes in orange or RAL3000 red.

- Hot dip zinc galvanized (Option).
- Tailored epoxy coatings including 3M Scotchkote #134 for wastewater, hydrocarbons, harsh chemicals and sea water services, Drynamels #4900 for exterior (outdoor) architectural applications and others (Option).

For additional details contact **Shurjoint**.

• Rubber Gasket:

Grade "E" EPDM (Color code: Green stripe) Good for cold & hot water up to +230°F (+110°C). Also good for services for water with acid, water with chlorine, deionized water, seawater and waste water, dilute acids, oil-free air and many chemicals. **Not recommended for petroleum oils, minerals oils, solvents and aromatic hydrocarbons.**

Maximum Temperature Range: -30°F (-34°C) to +230°F (+110°C)*.

*EPDM gaskets for water services are not recommended for steam services unless couplings or components are accessible for frequent gasket replacement.

- (Option) **Grade "T" Nitrile** (Color code: Orange stripe) Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Also good for water services under +150°F (+66°C).

Temperature range: -20°F to +180°F (-29°C to +82°C).
Do not use for HOT WATER above +150°F (+66°C) or HOT DRY AIR above +140°F (+60°C)

- Other options: Grade "O" - Fluoroelastomer.
Grade "L" - Silicone.

For additional details contact **Shurjoint**.

• Bolts & Nuts:

Heat treated carbon manganese steel track bolts to ASTM A449-83a (or A183 Gr. 2), minimum tensile strength 110,000 psi (758 MPa), Zinc electroplated, with heavy-duty hexagonal nuts to ASTM A563. Plain washers are always supplied for epoxy coated couplings.

- Type 304 or 316 track bolts with heavy duty nuts (Option)

General Notes:

- **Maximum Working Pressure (CWP)** listed is the maximum cold water pressure for general piping services tested to ASTM F1476 and or AWWA C606 methods. Figures listed are based on roll- or cut-grooved standard wall carbon steel pipe. For other pipe schedules or pipe materials, contact **Shurjoint** for additional information.
- **Max. End Load** is calculated based on the maximum working pressure (CWP).
- **Field Joint Test:** For one time only the system may be tested hydrostatically at 1½ times the maximum working pressure listed (AWWA C606 5.2.3).
- **Warning:** Piping systems must always be depressurized and drained before attempting disassembly and or removal of any components.
- **The 10 Year Limited Warranty** applies to manufacturing defects only and does not cover severe service/temperature applications or wear parts.
- **Shurjoint** reserves the right to change specifications, designs and or standard without notice and without incurring any obligations.

Shurjoint product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Shurjoint Technical Service. Shurjoint reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligations to make such changes and modifications on Shurjoint products previously subsequently sold.