

MODEL 7707L LARGE DIAMETER COUPLING

The **Shurjoint** Model 7707L Large diameter couplings in sizes 700mm - 1050mm / 28" - 42" 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.



Pressure-Temperature Rating

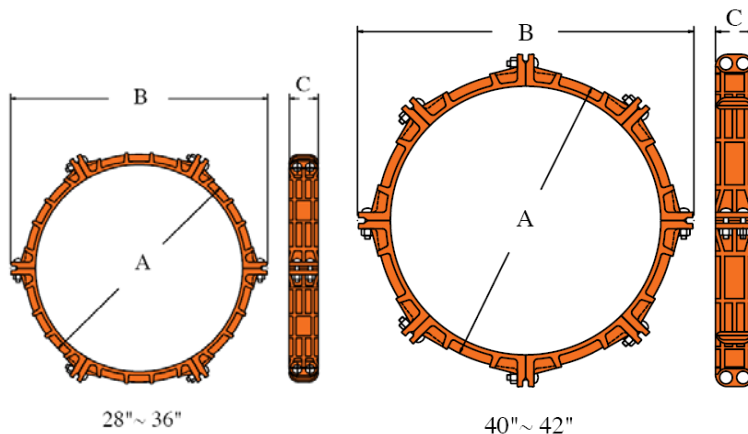
Nom. Rating	Working Pressure	Max. Service Temperature
Class 125	175 psi @100°F 12 Bar @38°C	EPDM: 230°F / 110°C Nitrile: 180°F / 82°C

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

*Proof test pressure: 1.5 times the working pressure, non-shock cold water.

*Burst pressure is engineered minimum 2 times the working pressure

MODEL 7707L LARGE DIAMETER COUPLING



30" Chilled waterlines

Model 7707L Large Diameter Coupling												
Nominal Size	Pipe O.D.	Max. Working Pressure			Axial Displacement	Dimensions			Bolt			
		XS (.500")*	STD (.375")	LW (.312")		A	B	C	No	Size	Weight	
mm	mm	Bar	Bar	Bar	mm	mm	mm				Kgs	
in	in	PSI	PSI	PSI	in	in	in			in	Lbs	
700	711.2	17	12	9	6.4	813	920	127	12	7/8 x 4	82	
28	28.0	250	175	125	0.250	32.0	36.3	5.0	12	7/8 x 4	180	
750	762.0	17	12	9	6.4	864	972	127	12	7/8 x 4	95	
30	30.0	250	175	125	0.250	34.0	38.3	5.0	12	7/8 x 4	209	
800	812.8	17	12	9	6.4	914	1022	127	12	7/8 x 4	94	
32	32.0	250	175	125	0.250	36.0	40.3	5.0	12	7/8 x 4	207	
850	863.6	17	12	9	6.4	974	1066	127	12	7/8 x 4	90	
34	34.0	250	175	125	0.250	38.3	42.0	5.0	12	7/8 x 4	198	
900	914.4	17	12	9	6.4	1016	1124	127	12	7/8 x 4	96	
36	36.0	250	175	125	0.250	40.0	44.3	5.0	12	7/8 x 4	212	
1000	1016.0	17	12	9	6.4	1105	1245	146	16-	1 x 3 1/2	123	
40	40.0	250	175	125	0.250	43.5	49.0	5.8	16-	1 x 3 1/2	271	
1050	1066.8	17	12	9	6.4	1156	1295	146	16	1 x 3 1/2	140	
42	42.0	250	175	125	0.250	45.5	51.5	5.8	16	1 x 3 1/2	308	

*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 448MPa (65,000 psi).

• 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:

To assure maximum life for the service intended, proper gasket selection and specification in ordering is essential. Failure to select the proper gasket compound may result in personal injury, property damage, joint leakage or joint failure.

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)

- (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 +66°C (+150°F).

Temperature range: -29 °C to +82 °C (-20 °F to +180 °F).

Do not use for HOT WATER above +66 °C (+150 °F) or HOT DRY AIR above +60 °C (+140 °F)

- 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 758 MPa (110,000 psi), 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:

- Pressure ratings listed are CWP (cold water pressure) or maximum working pressure within the service temperature range of the gasket used in the coupling. For additional information contact **Shurjoint**.
- Maximum working pressures and end loads listed are total of internal and external pressures and loads based on Sch. 40 steel pipe with roll grooves to ANSI/AWWA C606-07 specifications. For information on other pipe schedules contact **Shurjoint**.
- **For one time field test only** the maximum joint working pressure may be increased 1½ times the figures shown.
- **Warning:** Piping systems must always be depressurized and drained before attempting disassembly and or removal of any components.
- **Shurjoint** reserves the right to change specifications, designs and or standard equipment without notice and without incurring any obligations.

Job Name:	System No.	Location:
Contractor:	Approved:	Date:
Engineer:	Approved:	Date:

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.