

MODEL

# 7707L LARGE DIAMETER COUPLING

The Shurjoint Model 7707L large diameter couplings in sizes 28" - 42" (700mm - 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.



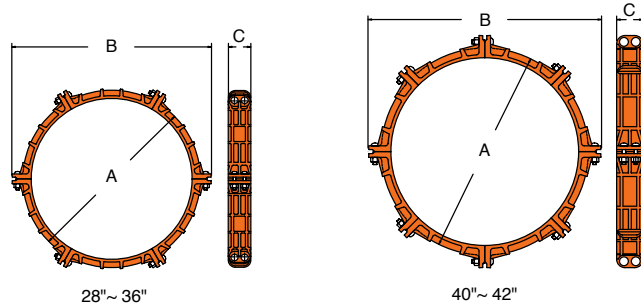
## Pressure-Temperature Rating

Nom. Rating	Working Pressure (STD, Roll-grooved)	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.

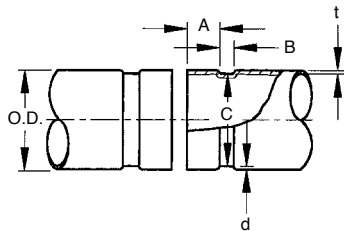
\*Burst pressure is engineered minimum 2 times the working pressure.



Nominal Size mm / in	Pipe O. D. mm / in	Max. Working Pressure			Axial Displacement mm / in	Dimensions			Bolts		Weight Kgs / Lbs
		XS (.500")* Bar / PSI	STD (.375") Bar / PSI	LW (.312") Bar / PSI		A mm / in	B mm / in	C mm / in	No	Size in	
700	711.2	17	12	9	6.4	813	920	127	12	3/8 x 4	82
28	28.0	250	175	125	0.250	32.0	36.3	5.0	12	3/8 x 4	180
750	762.0	17	12	9	6.4	864	972	127	12	3/8 x 4	95
30	30.0	250	175	125	0.250	34.0	38.3	5.0	12	3/8 x 4	209
800	812.8	17	12	9	6.4	914	1022	127	12	3/8 x 4	94
32	32.0	250	175	125	0.250	36.0	40.3	5.0	12	3/8 x 4	207
900	914.4	17	12	9	6.4	1016	1124	127	12	3/8 x 4	96
36	36.0	250	175	125	0.250	40.0	44.3	5.0	12	3/8 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.

## Standard Roll Groove for Large Diameter IPS Pipe



1. Square cut: Max. allowable tolerances from square cut are 1.6mm (0.060").
2. The gasket seating surface 'A' shall be free from deep scores, marks, or ridges that would prevent a positive seal.
3. The 'C' dimensions are average values. The groove must be of uniform depth around the entire circumference. Use a Shurjoint groove or rule to check the groove diameter.
4. The 't' is the minimum allowable wall thickness that may be roll-grooved.
5. The 'd' is for reference use only. The groove depth shall be determined by the groove diameter 'C'.
6. Flare Diameter: The pipe end that may flare when the groove is rolled shall be within this limit when measured at the extreme end of the pipe.

Nominal Size mm / in	Pipe Outside Diameter			A +0.8, -1.6 +0.03, -0.06 mm / in	B ±0.8 ±0.03 mm / in	C +0, -1.6 +0, -0.063 mm / in	d Groove Depth (ref) mm / in	t Min. Allow Wall thick mm / in	Max Allowed Flare Dia. mm / in
	Basic mm / in	Tolerance							
		mm / in	mm / in						
650	660.4	+2.36	-0.79	44.5	15.9	647.7	6.4	6.4	665.5
26 OD	26.0	-0.093	-0.031	1.75	0.625	25.5	0.25	0.25	26.2
700	711.2	+2.36	-0.79	44.5	15.9	698.5	6.4	6.4	716.3
28 OD	28.0	-0.093	-0.031	1.75	0.625	27.5	0.25	0.25	28.2
750	762.0	+2.36	-0.79	44.5	15.9	749.3	6.4	6.4	767.1
30 OD	30.0	-0.093	-0.031	1.75	0.625	29.5	0.25	0.25	30.2
800	812.8	+2.36	-0.79	44.5	15.9	800.1	6.4	6.4	817.9
32 OD	32.0	-0.093	-0.031	1.75	0.625	31.5	0.25	0.25	32.2
900	914.4	+2.36	-0.79	44.5	15.9	901.7	6.4	6.4	919.5
36 OD	36.0	-0.093	-0.031	1.75	0.625	35.5	0.25	0.25	36.2
1000	1016.0	+2.36	-0.79	50.8	15.9	1003.3	6.4	6.4	1026.2
40 OD	40.0	-0.093	-0.031	2.00	0.625	39.5	0.25	0.25	40.4
1050	1066.8	+2.36	-0.79	50.8	15.9	1054.1	6.4	6.4	1071.9
42 OD	42.0	-0.093	-0.031	2.00	0.625	41.5	0.25	0.25	42.2