

MODEL 7705 STANDARD FLEXIBLE COUPLING

The Model 7705 Standard Flexible Coupling is a standard flexible coupling for use in a variety of general piping applications of moderate pressure services. The model 7705 couplings features flexibility that can deal with misalignment, distortion, thermal stress, vibration and noise and also resist seismic tremors. With the use of Model 7705 couplings you can even design a curved layout. See Typical Applications – Flexible Couplings on **Shurjoint** cut sheet #B-19.

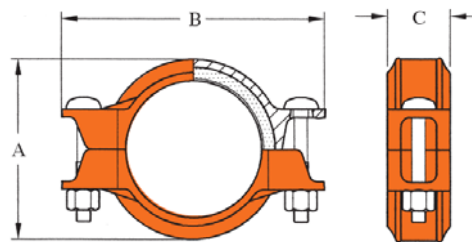
All Model 7705 couplings are comprised of two identical ductile iron housings segments, EPDM rubber gasket and plated track bolts & nuts. Housings segments are supplied with our standard painted finishes, i.e. orange or RAL3000 red. Optional finishes such as hot dipped zinc galvanized and custom epoxy coatings are available.



7705 couplings should always be installed so that the coupling bolt pads make metal to metal contact.



For Fire Protection pressure rating, listing, and approval information, refer to Data Sheet B-42 or visit **SHURJOINT** website, www.shurjoint.com for details or contact your **SHURJOINT** Representative.



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

Model 7705 Standard Flexible Coupling												
Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	ASME/ANSI Pressure Class Rating^ @100oF/@38oC	Max. End Load (CWP)	Axial Displacement †	Angular Movement **†		Dimensions			Bolt Size	Weight
						Deg. Per Coupling (°)	Per Pipe	A	B	C		
in mm	in mm	PSI Bar	PSI Nom. Class	Lbs kN	in mm		in/ft mm/m	in mm	in mm	in mm	in mm	Lbs Kgs
1 25	1.315 33.7	500 35	300 150	670 3.12	0.0625 1.6	2° - 45'	0.58 48	2.24 57	3.94 100	1.81 46	3/8 x 1 1/4 M10 x 45	1.3 0.6
1 1/4 32	1.660 42.4	500 35	300 150	1080 4.94	0.0625 1.6	2° - 10'	0.46 38	2.60 66	4.06 103	1.81 46	3/8 x 2 1/2 M10 x 55	1.5 0.7
1 1/2 40	1.900 48.3	500 35	300 150	1410 6.41	0.0625 1.6	1° - 54'	0.4 33	2.83 72	4.25 108	1.81 46	3/8 x 2 1/2 M10 x 55	1.6 0.7
2 50	2.375 60.3	500 35	300 150	2210 9.99	0.0625 1.6	1° - 31'	0.32 27	3.31 84	5.08 129	1.89 48	3/8 x 2 1/2 M10 x 55	1.8 0.8
2 1/2 65	2.875 73.0	500 35	300 150	3240 14.64	0.0625 1.6	1° - 15'	0.26 22	3.90 99	5.59 142	1.89 48	3/8 x 2 1/2 M10 x 55	2.0 0.9
76.1 mm	3.000 76.1	500 35	300 150	3530 15.91	0.0625 1.6	1° - 12'	0.25 21	4.02 102	5.79 147	1.89 48	3/8 x 2 1/2 M10 x 55	2.1 1.0
3 80	3.500 88.9	500 35	300 150	4800 21.71	0.0625 1.6	1° - 02'	0.22 18	4.57 116	6.65 169	1.89 48	1/2 x 3 M12 x 75	2.8 1.3
101.6 mm	4.000 101.6	500 35	300 150	6280 28.36	0.0625 1.6	0° - 54'	0.19 16	5.07 129	7.90 200	2.05 52	1/2 x 3 M12 x 75	3.6 1.6
108.0 mm	4.250 108.0	500 35	300 150	7080 32.05	0.1250 3.2	1° - 42'	0.36 30	5.43 138	7.56 192	2.05 52	1/2 x 3 M12 x 75	4.1 1.9
4 100	4.500 114.3	500 35	300 150	7940 35.89	0.1250 3.2	1° - 36'	0.34 28	5.71 145	7.76 197	2.05 52	1/2 x 3 M12 x 75	4.1 1.9
133.0 mm	5.250 133.0	450 31	300 150	9730 43.05	0.1250 3.2	1° - 23'	0.29 24	6.50 165	9.09 231	2.05 52	3/8 x 3 1/2 M16 x 90	5.1 2.3
139.7 mm	5.500 139.7	450 31	300 150	10680 47.49	0.1250 3.2	1° - 18'	0.28 23	6.69 170	9.17 233	2.05 52	3/8 x 3 1/2 M16 x 90	5.9 2.7
5 125	5.563 141.3	450 31	300 150	10930 48.59	0.1250 3.2	1° - 18'	0.27 23	6.77 172	9.21 234	2.05 52	3/8 x 3 1/2 M16 x 90	5.9 2.7

Model 7705 Standard Flexible Coupling

Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	ASME/ANSI Pressure Class Rating^ @100oF/@38oC	Max. End Load (CWP)	Axial Displacement †	Angular Movement **†		Dimensions			Bolt Size	Weight
						Deg. Per Coupling	Per Pipe	A	B	C		
in mm	in mm	PSI Bar	PSI Nom. Class	Lbs kN	in mm	(°)	in/ft mm/m	in mm	in mm	in mm	in mm	Lbs Kgs
159.0 mm	6.250 159.0	450 31	300 150	13790 61.52	0.1250 3.2	1° - 09'	0.24 20	7.48 190	9.96 253	2.13 54	¾ x 3½ M16 x 90	6.6 3.0
165.1 mm	6.500 165.1	450 31	300 150	14920 66.33	0.1250 3.2	1° - 07'	0.24 20	7.72 196	10.28 261	2.13 54	¾ x 3½ M16 x 90	6.8 3.1
6 150	6.625 168.3	450 31	300 150	15500 68.93	0.1250 3.2	1° - 05'	0.23 19	7.87 200	10.55 268	2.44 62	¾ x 3½ M16 x 90	7.0 3.2
8 200	8.625 219.1	300 20	300 150	17510 75.37	0.1250 3.2	0° - 50'	0.18 15	10.24 260	13.78 350	2.52 64	¾ x 3½ M16 x 90	12.8 5.8
8 (7705H) 200	8.625 219.1	450 31	300 150	26270 116.82	0.1250 3.2	0° - 50'	0.18 15	10.47 266	13.50 343	2.48 63	¾ x 4¾ M20 x 120	15.7 7.1
10 250	10.750 273.0	300 20	300 150	27210 117.01	0.1250 3.2	0° - 40'	0.14 12	13.50 343	16.73 425	2.52 64	¾ x 4¾ M20 x 120	18.0 8.2
12 300	12.750 323.9	300 20	300 150	38280 164.71	0.1250 3.2	0° - 34'	0.12 10	15.35 390	18.39 467	2.52 64	¾ x 6½ ---	23.8 10.8
200 JIS	8.516 216.3	300 20	300 150	17079 73.45	0.1250 3.2	0° - 51'	0.18 15	10.00 254	13.70 348	2.44 62	¾ x 4¾ M20 x 120	12.8 5.8
250 JIS	10.528 267.4	300 20	300 150	26103 112.26	0.1250 3.2	0° - 41'	0.15 12	13.27 337	16.54 420	2.52 64	¾ x 4¾ M20 x 120	17.6 8.0
300 JIS	12.539 318.5	300 20	300 150	37027 159.26	0.1250 3.2	0° - 35'	0.12 10	15.31 389	18.81 478	2.52 64	¾ x 6½ ---	22.6 10.3

All DIN size 7705 couplings up to DN150 size and the DN200 7705H coupling are VdS approved in addition to cULus and FM approvals.

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

^ The ASME/ANSI pressure class rating is not the design or maximum pressure rating, rather is provided for those that are accustomed to specifying or using ASME/ANSI pressure class rated components such as flange, valves, etc.

† 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 ¾"/DN20 – 3½"/DN90; 25% for 4"/DN100 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 7705 Flexible Coupling used on both carbon steel and stainless steel pipes. **Shurjoint** ductile iron couplings can be used in conjunction with stainless steel pipe in non-corrosive environment as the flow media does not come in direct contact with the coupling housings but rather only the gasket.

Model 7705 on Carbon Steel Pipe					
Nom. Size	Cut-Grooved		Roll-Grooved		
	XS	STD	STD	Sch. 10	Sch. 7
in / mm	PSI / Bar	PSI / Bar	PSI / Bar	PSI / Bar	PSI / Bar
1 25	600 42	600 42	500 35	400 28	300 20
1¼ 32	600 42	600 42	500 35	400 28	300 20
1½ 40	600 42	600 42	500 35	400 28	300 20
2 50	600 42	600 42	500 35	400 28	300 20
2½ 65	600 42	600 42	500 35	400 28	300 20
3 80	600 42	600 42	500 35	400 28	300 20
4 100	600 42	600 42	500 35	400 28	300 20
5 125	450 31	450 31	450 31	350 24	250 17
6 150	450 31	450 31	450 31	350 24	250 17
8 200	450 31	450 31	300 20	250 17	NR
10 250	350 24	350 24	300 20	200 14	NR
12 300	350 24	350 24	300 20	200 14	NR

Model 7705 on Stainless Steel Pipe					
Nom. Size	Cut-Grooved		Roll-Grooved		
	Sch. 80S	Sch. 40S	Sch. 40S	Sch. 10S	Sch. 5S
in / mm	PSI / Bar	PSI / Bar	PSI / Bar	PSI / Bar	PSI / Bar
1 25	600 42	600 42	450 31	300 20	250 17
1¼ 32	600 42	600 42	450 31	300 20	250 17
1½ 40	600 42	600 42	450 31	300 20	250 17
2 50	600 42	600 42	450 31	300 20	250 17
2½ 65	600 42	600 42	450 31	300 20	250 17
3 80	600 42	600 42	450 31	300 20	250 17
4 100	600 42	600 42	450 31	300 20	200 14
5 125	450 31	450 31	300 20	200 14	NR
6 150	450 31	450 31	300 20	125 9	NR
8 200	450 31	450 31	300 20	100 7	NR
10 250	350 24	350 24	200 14	NR	NR
12 300	350 24	350 24	200 14	NR	NR

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).
- Epoxy Coatings in RAL3000 red or other colors (Option)

• 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.

LISTINGS/APPROVALS

The information provided below is based on the latest listing and approval data at the time of publication. Listings/Approvals are subject to change and/or additions by the approvals agencies. Contact **Shurjoint** for the performance on other pipes and the latest listings and approvals

Standard Pipe

Nom. Size	cULus		VdS	LPCB	Nom. Size	cULus/FM		VdS	LPCB	Nom. Size	cULus/FM		VdS	LPCB
	Sch. 5	Sch. 10/40				Sch. 10/40	Sch. 10/40				Sch. 10/40	Sch. 10/40		
in / mm	psi / Bar	psi / Bar	Bar	psi / Bar	in / mm	psi / Bar	Bar	psi / Bar	Bar	in / mm	psi / Bar	bar	psi / Bar	Bar
1 25	-	300 20	16	-	4 100	300 20	16	300 20	-	8 (7705H) 200	450 31	16	-	-
1¼ 32	175 12	300 20	16	-	133.0 mm	-	16	-	-	10 250	175 12	-	-	-
1½ 40	175 12	300 20	16	-	139.7 mm	300 20	16	300 20	-	12 300	-	-	-	-
2 50	175 12	300 20	16	300 20	5 125	300 20	-	-	-	-	-	-	-	-
2½ 65	175 12	300 20	-	-	159.0 mm	-	16	-	-	-	-	-	-	-
76.1 mm	-	300 20	16	300 20	165.1 mm	300 20	-	300 20	-	-	-	-	-	-
3 80	175 12	300 20	16	300 20	6 150	300 20	16	-	-	-	-	-	-	-
108.0 mm	-	-	16	-	8 200	300 20	-	300 20	-	-	-	-	-	-

* For listings and approval information and ratings on non-standard pipe please refer to the actual listings and or approval information found on our web site or contact **Shurjoint** for assistance.

General Notes:

- **ASME/ANSI Pressure-Temperature Rating** is provided as an aid in selecting a proper coupling to incorporate with other piping components (valves, flanges, and etc.) that are used in the same system and carry the ASME/ANSI rating. Select a Class 150 coupling to incorporate with Class 150 valves and flanges.
- **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).
- **Listed and or Approved Pressures** are pressure ratings for fire protection systems, tested and approved by various approval bodies. Please always refer to the latest approval data posted on the **Shurjoint** website.
- **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.

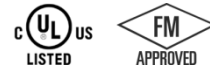
Job Name:	System No.	Location:
Contractor:	Approved:	Date:
Engineer:	Approved:	Date:

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.

MODEL 7707 HEAVY DUTY FLEXIBLE COUPLING

The Model 7707 Flexible Coupling is designed for use in a variety of general piping applications of moderate or high pressure services. Working pressure is usually dictated by the wall thickness and rating of the pipe being used. The Model 7707 couplings feature flexibility that can accommodate misalignment, distortion, thermal stress, vibration and noise and also resist seismic tremors. The utilization of Model 7707 couplings can accommodate a curved layout. See Typical Applications – Flexible Couplings on **Shurjoint** cutsheet #B-19.

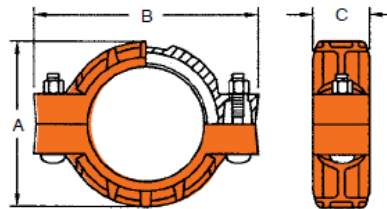
The Model 7707 couplings are comprised of two housing segments, EPDM gaskets and plated track bolts and nuts. Housing segments are supplied with our standard painted finishes, i.e. orange or RAL3000 red. Optional finishes such as hot dipped zinc galvanized and epoxy coatings are also available.



For Fire Protection pressure rating, listing, and approval information, refer to Data Sheet B-42 or visit **SHURJOINT** website, www.shurjoint.com for details or contact your **SHURJOINT** Representative.



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



¾"~12"



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

Model 7707 Heavy Duty Flexible Coupling

Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	ASME/ANSI Pressure Class Rating* @100°F/@38°C	Max. End Load (CWP)	Axial Displacement †	Angular Movement ** †		Dimensions			Bolt		Weight
						Degree Per Coupling	Per Pipe	A	B	C	No	Size	
in	in	PSI	PSI	Lbs	in	(°)	in/ft	in	in	in		in	Lbs
mm	mm	Bar	Nom. Class	kN	mm		mm/m	mm	mm	mm		mm	Kgs
¾	1.050	1000	750	865	0.0625	3° – 23°	0.71	2.17	3.74	1.81	2	¾ x 2½	1.3
20	26.7	69	300	3.79	1.6		58	55	95	46		M10x55	0.6
1	1.315	1000	750	1360	0.0625	2° – 45°	0.58	2.40	4.02	1.81	2	¾ x 2½	1.7
25	33.4	69	300	6.15	1.6		48	61	102	46		M10x55	0.8
1¼	1.660	1000	750	2160	0.0625	2° – 10°	0.45	2.76	4.45	1.81	2	½ x 3	2.1
32	42.2	69	300	9.64	1.6		38	70	113	46		M12x75	1.0
1½	1.900	1000	750	2830	0.0625	1° – 54°	0.40	3.15	4.57	1.81	2	½ x 2½	2.1
40	48.3	69	300	12.64	1.6		33	80	116	46		M12x60	1.0
2	2.375	1000	750	4430	0.0625	1° – 31°	0.31	3.62	5.35	1.81	2	½ x 3	2.6
50	60.3	69	300	19.69	1.6		26	92	136	46		M12x75	1.2
2½	2.875	1000	750	6490	0.0625	1° – 15°	0.26	4.13	5.98	1.85	2	½ x 3	2.9
65	73.0	69	300	28.86	1.6		22	105	152	47		M12x75	1.3
76.1 mm	3.000	1000	750	7065	0.0625	1° – 12°	0.25	4.25	6.02	1.85	2	½ x 3	2.9
	76.1	69	300	31.37	1.6		21	108	153	47		M12x75	1.3
3	3.500	1000	750	9620	0.0625	1° – 02°	0.21	4.76	6.34	1.85	2	½ x 3	3.3
80	88.9	69	300	42.81	1.6		18	121	161	47		M12x75	1.5
4	4.500	1000	750	15900	0.1250	1° – 36°	0.33	5.94	8.03	2.05	2	¾ x 3½	4.6
100	114.3	69	300	70.76	3.2		27	151	204	52		M16x90	2.1
139.7 mm	5.500	1000	750	23750	0.1250	1° – 18°	0.27	7.05	9.41	2.09	2	¾ x 3½	6.8
	139.7	69	300	105.71	3.2		23	179	239	53		M16x90	3.1
5	5.563	1000	750	24295	0.1250	1° – 18°	0.27	7.24	9.65	2.09	2	¾ x 3½	7.2
125	141.3	69	300	108.14	3.2		22	184	245	53		M16x90	3.3
165.1 mm	6.500	1000	750	33170	0.1250	1° – 07°	0.23	8.07	10.24	2.09	2	¾ x 4¾	7.9
	165.1	69	300	147.64	3.2		19	205	260	53		M20x120	3.6
6	6.625	1000	750	34455	0.1250	1° – 05°	0.22	8.23	10.75	2.09	2	¾ x 4¾	8.1
150	168.3	69	300	153.42	3.2		19	209	273	53		M20x120	3.7

Model 7707 Heavy Duty Flexible Coupling

Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	ASME/ANSI Pressure Class Rating [^] @100°F@38°C	Max. End Load (CWP)	Axial Displacement †	Angular Movement ** †		Dimensions			Bolt		Weight
						Degree Per Coupling (°)	Per Pipe	A	B	C	No	Size	
in mm	in mm	PSI Bar	PSI Nom. Class	Lbs kN	in mm		in/ft mm/m	in mm	in mm	in mm	No	in mm	Lbs Kgs
8 200	8.625 219.1	800 55	400 250	46720 207.26	0.1250 3.2	0° – 50°	0.18 15	10.59 269	13.23 336	2.44 62	2	¾ x 4¾ M20x120	14.5 6.6
10 250	10.750 273.0	800 55	400 250	72575 321.78	0.1250 3.2	0° – 40°	0.14 11	12.80 325	16.10 409	2.56 65	2	7/8 x 6½ ---	23.3 10.6
12 300	12.750 323.9	800 55	400 250	102090 452.95	0.1250 3.2	0° – 34°	0.12 10	14.65 372	18.50 470	2.60 66	2	7/8 x 6½ ---	26.4 12.0
200 JIS	8.516 216.3	800 55	400 250	45545 202.00	0.1250 3.2	0° – 51°	0.18 15	10.43 265	13.03 331	2.36 60	2	¾ x 4¾ M20x120	13.9 6.3
250 JIS	10.528 267.4	800 55	400 250	69610 308.71	0.1250 3.2	0° – 41°	0.14 12	12.64 321	15.87 403	2.60 66	2	7/8 x 6½ ---	22.4 10.2
300 JIS	12.539 318.5	800 55	400 250	98740 437.98	0.1250 3.2	0° – 35°	0.12 10	14.72 374	18.11 460	2.60 66	2	7/8 x 6½ ---	25.5 11.6
5 (7707-A)#	5.563 125	1000 69	750 300	24295 108.14	0.1250 3.2	1° – 18°	0.27 22	7.24 184	9.84 250	2.09 53	2	¾ x 4¾ M20x120	9.7 4.4
8 (7707-A)#	8.625 200	800 55	400 250	46720 207.26	0.1250 3.2	0° – 50°	0.18 15	10.59 269	13.23 336	2.44 62	2	7/8 x 5½ ---	20.0 9.1
10 (7707-A)#	10.750 250	800 55	400 250	72575 321.78	0.1250 3.2	0° – 40°	0.14 11	12.80 325	15.87 403	2.56 65	2	1 x 6½ ---	27.3 12.4
12 (7707-A)#	12.750 300	800 55	400 250	102090 452.95	0.1250 3.2	0° – 34°	0.12 10	14.76 375	18.19 462	2.60 66	2	1 x 6½ ---	30.4 13.8

* Working Pressure is based on roll grooved standard wall carbon steel pipe.
[^] The ASME/ANSI pressure class rating is not the design or maximum pressure rating, rather is provided for those that are accustomed to specifying or using ASME/ANSI pressure class rated components such as flange, valves, etc.
[†] 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 ¾" – 3½"; 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.
[#] Only available in Canada, U.S.A., and South America.

Performance Data

The following tables show the maximum working pressures (CWP) of **Shurjoint** Model 7707 Heavy Duty Flexible Coupling used on both carbon steel and stainless steel pipes. **Shurjoint** ductile iron couplings can be used in conjunction with stainless steel pipe in non-corrosive environment as the flow media does not come in direct contact with the coupling housings but rather only the gasket.

Model 7707 on Carbon Steel Pipe					
Nom. Size	Cut-Grooved		Roll-Grooved		
	XS PSI / Bar	STD PSI / Bar	STD PSI / Bar	Sch. 10 PSI / Bar	Sch. 7 PSI / Bar
¾ 20	1000 69.0	1000 69.0	1000* / 750 69.0* / 51.7	750* / 600 51.7* / 41.4	500 34.5
1 25	1000 69.0	1000 69.0	1000* / 750 69.0* / 51.7	750* / 600 51.7* / 41.4	500 34.5
1¼ 32	1000 69.0	1000 69.0	1000* / 750 69.0* / 51.7	750* / 600 51.7* / 41.4	500 34.5
1½ 40	1000 69.0	1000 69.0	1000* / 750 69.0* / 51.7	750* / 600 51.7* / 41.4	500 34.5
2 50	1000 69.0	1000 69.0	1000* / 750 69.0* / 51.7	750* / 600 51.7* / 41.4	500 34.5
2½ 65	1000 69.0	1000 69.0	1000* / 750 69.0* / 51.7	600 41.4	500 34.5
3 80	1000 69.0	1000 69.0	1000* / 750 69.0* / 51.7	600 41.4	500 34.5
4 100	1000 69.0	1000 69.0	1000* / 750 69.0* / 51.7	600 41.4	400 27.6
5 125	1000 69.0	1000 69.0	1000* / 750 69.0* / 51.7	500 34.5	350 24.2
6 150	1000 69.0	1000 69.0	1000* / 700 69.0* / 48.3	450 31.0	300 20.7
8 200	800 55.0	800 55.0	800* / 600 55.0* / 41.4	350 24.2	250 17.2
10 250	800 55.0	800 55.0	800* / 550 55.0* / 37.9	300 20.7	200 13.8
12 300	800 55.0	800 55.0	800* / 500 55.0* / 34.5	300 20.7	200 13.8

Model 7707 on Stainless Steel Pipe					
Nom. Size	Cut-Grooved		Roll-Grooved		
	Sch. 80S PSI / Bar	Sch. 40S PSI / Bar	Sch. 40S PSI / Bar	Sch. 10S PSI / Bar	Sch. 5S PSI / Bar
¾ 20	750 51.7	750 51.7	700 48.3	450 31.0	325 22.4
1 25	750 51.7	750 51.7	700 48.3	450 31.0	325 22.4
1¼ 32	750 51.7	750 51.7	700 48.3	450 31.0	325 22.4
1½ 40	750 51.7	750 51.7	700 48.3	450 31.0	325 22.4
2 50	750 51.7	750 51.7	700 48.3	450 31.0	325 22.4
2½ 65	750 51.7	750 51.7	700 48.3	450 31.0	325 22.4
3 80	750 51.7	750 51.7	700 48.3	450 31.0	325 22.4
4 100	750 51.7	750 51.7	700 48.3	400 27.6	250 17.2
5 125	750 51.7	750 51.7	600 41.4	300 20.7	NR
6 150	750 51.7	750 51.7	500 34.5	200 13.8	NR
8 200	600 41.4	600 41.4	450 31.0	150 10.3	NR
10 250	600 41.4	600 41.4	400 27.6	125 8.6	NR
12 300	600 41.4	600 41.4	400 27.6	125 8.6	NR

Model 7707 on Carbon Steel Pipe					
Nom. Size	Cut-Grooved		Roll-Grooved		
	XS PSI / Bar	STD PSI / Bar	STD PSI / Bar	Sch. 10 PSI / Bar	Sch. 7 PSI / Bar
5 (7707-A) 125	1000 69.0	1000 69.0	1000* / 750 69.0* / 51.7	500 34.5	350 24.2
8 (7707-A) 200	800 55.0	800 55.0	800* / 600 55.0* / 41.4	350 24.2	250 17.2
10 (7707-A) 250	800 55.0	800 55.0	800* / 550 55.0* / 37.9	300 20.7	200 13.8
12 (7707-A) 300	800 55.0	800 55.0	800* / 500 55.0* / 34.5	300 20.7	200 13.8

Model 7707 on Stainless Steel Pipe					
Nom. Size	Cut-Grooved		Roll-Grooved		
	Sch. 80S PSI / Bar	Sch. 40S PSI / Bar	Sch. 40S PSI / Bar	Sch. 10S PSI / Bar	Sch. 5S PSI / Bar
5 (7707-A) 125	750 51.7	750 51.7	600 41.4	300 20.7	NR
8 (7707-A) 200	600 41.4	600 41.4	450 31.0	150 10.3	NR
10 (7707-A) 250	600 41.4	600 41.4	400 27.6	125 8.6	NR
12 (7707-A) 300	600 41.4	600 41.4	400 27.6	125 8.6	NR

Note: * Maximum line pressure, including surge, to which a joint should be subjected.

MATERIAL SPECIFICATIONS

• Housing:

Ductile Iron to ASTM A536, Gr. 65-45-12 and or to 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 waste water, 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:

- **ASME/ANSI Pressure-Temperature Rating** is provided as an aid in selecting a proper coupling to incorporate with other piping components (valves, flanges, and etc.) that are used in the same system and carry the ASME/ANSI rating. Select a Class 150 coupling to incorporate with Class 150 valves and flanges.
- **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).
- **Listed and or Approved Pressures** are pressure ratings for fire protection systems, tested and approved by various approval bodies. Please always refer to the latest approval data posted on the **Shurjoint** website.
- **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.

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.