

MODEL

Z05 RIGID COUPLING

ANGLE-PAD DESIGN

The **Shurjoint** Model Z05 is an angle-pad design rigid coupling for moderate pressure piping services including fire mains, long straight runs and valve connections. The angle-pad design allows the coupling housings to slide along the bolt pads when tightened. The result is an offset clamping action which provides a rigid joint which resists so-called 'snaking' of a long straight run. Support and hanging requirements correspond to ANSI B31.1, B31.9 and NFPA 13.



With the removal of only one bolt you can make a fast and easy 'swing-over' installation.

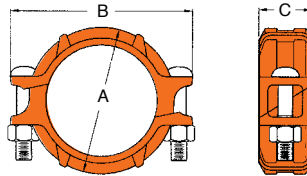
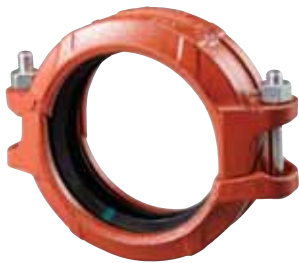
Pressure-Temperature Rating

Nom. Rating	Working Pressure (STD, Roll-grooved)	Max. Service Temperature
Class 150	300 psi @100°F 20 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 3 times the working pressure.



The angle pad design allows for fast and easy swing-over installation with the removal of a single bolt.



Nominal Size mm / in	Pipe O. D. mm / in	Max. Working Pressure Bar/PSI	Max. End Load kN / Lbs	Axial Displacement mm / in	Dimensions			Bolts Size		Weight Kgs / Lbs
					A mm / in	B mm / in	C mm / in	No.	mm / in	
32	42.2	20	2.80	0 ~ 1.2	66	102	46	2	M10 x 55	0.64
1¼	1.660	300	649	0 ~ 0.05	2.60	4.00	1.81	2	¾ x 2½	1.41
40	48.3	20	3.66	0 ~ 1.2	72	109	46	2	M10 x 55	0.66
1½	1.900	300	850	0 ~ 0.05	2.83	4.29	1.81	2	¾ x 2½	1.46
50	60.3	20	5.71	0 ~ 1.7	85	117	47	2	M10 x 70	0.79
2	2.375	300	1330	0 ~ 0.07	3.35	4.61	1.85	2	¾ x 2¾	1.74
65	73.0	20	8.37	0 ~ 1.7	98	132	47	2	M10 x 70	0.93
2½	2.875	300	1950	0 ~ 0.07	3.86	5.20	1.85	2	¾ x 2¾	2.05
76.1 mm	76.1	20	9.09	0 ~ 1.7	100	136	47	2	M10 x 70	0.98
	3.000	300	2120	0 ~ 0.07	3.94	5.35	1.85		¾ x 2¾	2.16
80	88.9	20	12.41	0 ~ 1.7	113	148	48	2	M10 x 70	1.20
3	3.500	300	2885	0 ~ 0.07	4.45	5.83	1.88	2	¾ x 2¾	2.60
100	108.0	20	18.31	0 ~ 4.1	142	176	54	2	M10 x 70	1.64
4	4.250	300	4250	0 ~ 0.16	5.59	6.93	2.13		¾ x 2¾	3.62
108.0 mm	114.3	20	20.51	0 ~ 4.1	146	182	53	2	M10 x 70	1.87
	4.500	300	4770	0 ~ 0.16	5.75	7.17	2.09		¾ x 2¾	4.12
133.0 mm	133.0	20	27.77	0 ~ 4.1	170	224	54	2	M12 x 75	2.33
	5.250	300	6456	0 ~ 0.16	6.69	8.82	213		½ x 3	5.14
139.7 mm	139.7	20	30.64	0 ~ 4.1	173	227	53	2	M12 x 75	2.57
	5.500	300	7125	0 ~ 0.16	6.81	8.94	2.09		½ x 3	5.67
125	141.3	20	31.35	0 ~ 4.1	175	229	53	2	M12 x 75	2.58
	5.563	300	7290	0 ~ 0.16	6.89	9.02	2.09		½ x 3	5.69
159.0 mm	159.0	20	39.69	0 ~ 4.1	198	250	54	2	M12 x 75	2.75
	6.250	300	9199	0 ~ 0.16	7.80	9.84	2.13		½ x 3	6.06
165.1 mm	165.1	20	42.80	0 ~ 4.1	200	246	54	2	M12 x 75	3.05
	6.500	300	9950	0 ~ 0.16	7.87	9.69	2.13		½ x 3	6.72
150	168.3	20	44.47	0 ~ 4.1	203	249	54	2	M12 x 75	3.07
	6.625	300	10340	0 ~ 0.16	8.00	9.80	2.13		½ x 3	6.77
200	219.1	20	75.37	0 ~ 4.8	264	330	64	2	M16 x 135	6.07
	8.625	300	17525	0 ~ 0.19	10.40	12.99	2.52		5/8 x 5 9/16	13.38
200 JIS	216.3	20	73.45	0 ~ 4.8	260	340	64	2	M20 x 120	7.00
	8.516	300	17079	0 ~ 0.19	10.24	13.39	2.50		¾ x 4¾	15.43

MODEL

Z07 HEAVY DUTY RIGID COUPLING

The Shurjoint Model Z07 is an angle-pad design rigid coupling for general piping applications where rigidity is required including, mechanical rooms, valve connections fire mains and long straight runs. The angle-pad design allows the coupling housings to slide along the bolt pads when tightened. The result is an offset clamping

action which provides a rigid joint that resists flexural and torsional loads. Support and hanging requirements correspond to ANSI B31.1, B31.9 and NFPA 13.



Note: Model Z07N two-segment couplings are now available in sizes 14" - 24". Model Z07 multi-segment couplings in sizes 14" - 24" are also available. Contact Shurjoint for the Z07 multi-segment data sheet. Please specify the model required when ordering.

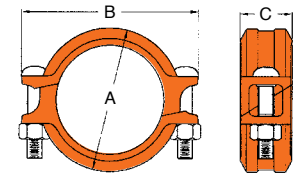
Pressure-Temperature Rating

Size	Nom. Rating	Working Pressure (STD, Roll-grooved)	Max. Service Temperature
1 1/4" - 6" 32 - 150	Class 300	750 psi @ 100°F 52 Bar @ 38°C	EPDM: 230°F / 110°C Nitrile: 180°F / 82°C
8" - 12" 200 - 300	Class 250	400 psi @ 100°F 28 Bar @ 38°C	
14" - 24" 350 - 600	Class 150	300 psi @ 100°F 20 Bar @ 38°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 3 times the working pressure.



1-1/4" ~ 24"

Nominal Size mm / in	Pipe O. D. mm / in	Max. Working Pressure Bar/PSI	Max. End Load kN / Lbs	Axial Displacement mm / in	Dimensions			Bolts Size		Weight Kgs / Lbs
					A mm / in	B mm / in	C mm / in	No.	mm / in	
32	42.2	52	7.27	0~1.2	68	105	47	2	M10 x 55	0.7
1 1/4	1.660	750	1620	0~0.05	2.68	4.13	1.85	2	3/8 x 2 1/2	1.6
40	48.3	52	9.52	0~1.2	74	115	47	2	M10 x 55	0.9
1 1/2	1.900	750	2130	0~0.05	2.91	4.53	1.85	2	3/8 x 2 1/2	2.0
50	60.3	52	14.84	0~1.7	86	120	48	2	M10 x 70	1.1
2	2.375	750	3320	0~0.07	3.39	4.72	1.88	2	3/8 x 2 3/4	2.4
65	73.0	52	21.75	0~1.7	100	140	48	2	M10 x 70	1.1
2 1/2	2.875	750	4875	0~0.07	3.94	5.50	1.88	2	3/8 x 2 3/4	2.4
76.1 mm	76.1	52	23.64	0~1.7	102	146	48	2	M10 x 70	1.2
	3.000	750	5300	0~0.07	4.00	5.75	1.88	2	3/8 x 2 3/4	2.6
80	88.9	52	32.26	0~1.7	115	157	48	2	M12 x 75	1.4
3	3.500	750	7210	0~0.07	4.53	6.18	1.88	2	1/2 x 3	3.1
100	114.3	52	53.33	0~4.1	147	199	54	2	M12 x 75	2.0
4	4.500	750	11920	0~0.16	5.78	7.83	2.13	2	1/2 x 3	4.4
139.7 mm	139.7	52	79.66	0~4.1	175	235	54	2	M16 x 90	3.0
	5.500	750	17810	0~0.16	6.88	9.25	2.13	2	3/8 x 3 1/2	6.6
125	141.3	52	81.50	0~4.1	177	235	54	2	M16 x 90	3.0
5	5.563	750	18220	0~0.16	6.97	9.25	2.13	2	3/8 x 3 1/2	6.6
165.1 mm	165.1	52	111.27	0~4.1	200	259	54	2	M16 x 90	3.4
	6.500	750	24870	0~0.16	7.87	10.20	2.13	2	3/8 x 3 1/2	7.5
150	168.3	52	115.62	0~4.1	203	263	54	2	M16 x 90	3.2
6	6.625	750	25840	0~0.16	8.00	10.35	2.13	2	3/8 x 3 1/2	7.1
200	219.1	28	105.51	0~4.8	268	342	64	2	M20 x 120	7.1
8	8.625	400	23360	0~0.19	10.55	13.46	2.52	2	3/4 x 4 3/4	15.7
250	273.0	28	163.81	0~3.2	327	431	65	2	---	10.4
10	10.750	400	36290	0~0.13	12.86	16.98	2.56	2	7/8 x 6 1/2	27.4
300	323.9	28	230.59	0~3.2	377	480	65	2	---	11.8
12	12.750	400	51040	0~0.13	14.86	18.88	2.56	2	7/8 x 6 1/2	26.0
200 JIS	216.3	28	102.83	0~3.2	264	340	64	2	M20 x 120	7.4
	8.516	400	22770	0~0.13	10.39	13.39	2.50	2	3/4 x 4 3/4	16.3
250 JIS	267.4	28	157.16	0~3.2	321	397	65	2	---	10.5
	10.528	400	34800	0~0.13	12.63	15.63	2.56	2	7/8 x 6 1/2	23.1
300 JIS	318.5	28	222.97	0~3.2	372	452	65	2	---	12.4
	12.539	400	49370	0~0.13	14.65	17.80	2.56	2	7/8 x 6 1/2	27.4
350 (Z07N)	355.6	20	199.53	0~3.2	408	505	75	2	---	16.0
	14	14.000	300	46160	0~0.13	16.06	19.89	2.95	2	7/8 x 5 1/2
400 (Z07N)	406.4	20	259.30	0~3.2	467	554	75	2	---	17.9
	16	16.000	300	60290	0~0.13	18.39	21.84	2.95	2	7/8 x 5 1/2
450 (Z07N)	457.2	20	328.18	0~3.2	525	607	79	2	---	22.3
	18	18.000	300	76300	0~0.13	20.68	23.89	3.11	2	7/8 x 5 1/2
500 (Z07N)	508.0	20	405.16	0~3.2	582	698	76	2	---	26.2
	20	20.000	300	94200	0~0.13	22.93	27.47	3.00	2	1 x 5 1/2
600 (Z07N)	609.6	20	583.43	0~3.2	687	803	78	2	---	32.1
	24	24.000	300	13650	0~0.13	27.05	31.61	3.06	2	1 x 5 1/2

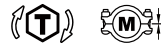
Contact Shurjoint for the data sheet of multi-segment type Z07 14" through 24"

MODEL

XH-1000 EXTRA HEAVY RIGID COUPLING

The **Shurjoint** Model XH-1000 is an extra heavy rigid coupling designed for high pressure services up to 1000 psi (70 bar). This coupling is painted green and is supplied with a standard C-shaped gasket and heavy duty bolts and nuts. The Model XH-1000 can be installed on standard roll or

cut grooved pipes or components. Sizes 2" through 4" require a bolt torque of 60 - 70 Ft-Lbs. with some bolt gaps. For sizes 6" and above, the bolt pads will make metal to metal contact when properly installed with no torque wrench required.



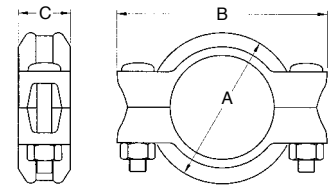
Pressure-Temperature Rating

Nom. Rating	Working Pressure (STD, Roll-grooved)	Max. Service Temperature
2" - 6" Class 400	1000 psi @100°F 70 Bar @38°C	EPDM: 230°F / 110°C
8" - 12" Class 300	750 psi @100°F 52 Bar @38°C	Nitrile: 180°F / 82°C

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

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

*Burst pressure is engineered minimum 3 times the working pressure.



Nominal Size mm / in	Pipe O. D. mm / in	Max. Working Pressure Bar/PSI	Max. End Load kN / Lbs	Axial Displacement mm / in	Dimensions			Bolts		Weight Kgs / Lbs
					A mm / in	B mm / in	C mm / in	No.	Size in	
50	60.3	70	20.0	0 ~ 3.6	90	150	49	2	5/8 X 2 3/4	1.6
2	2.375	1000	4430	0 ~ 0.14	3.50	5.90	1.92			3.4
65	73.0	70	29.3	0 ~ 3.6	102	168	49	2	5/8 X 2 3/4	1.7
2 1/2	2.875	1000	6490	0 ~ 0.14	4.02	6.62	1.92			3.8
80	88.9	70	43.4	0 ~ 3.6	123	188	49	2	5/8 X 2 3/4	2.2
3	3.500	1000	9620	0 ~ 0.14	4.86	7.38	1.92			4.8
100	114.3	70	71.8	0 ~ 6.4	155	222	53	2	3/4 x 4 1/2	3.8
4	4.500	1000	15900	0 ~ 0.25	6.09	8.74	2.10			8.4
150	168.3	70	155.6	0 ~ 6.4	218	295	57	2	7/8 x 5 1/2	8.0
6	6.625	1000	34450	0 ~ 0.25	8.58	11.61	2.25			17.6
200	219.1	52	196.0	0 ~ 6.4	275	364	70	2	1 x 5 1/2	10.9
8	8.625	750	43800	0 ~ 0.25	10.83	14.33	2.75			24.0
250	273.0	52	304.2	0 ~ 6.4	334	424	75	2	1 x 5 1/2	14.2
10	10.750	750	68040	0 ~ 0.25	13.15	16.70	2.95			31.2
300	323.9	52	428.2	0 ~ 6.4	390	480	75	2	1 x 5 1/2	16.7
12	12.750	750	95710	0 ~ 0.25	15.35	18.90	2.95			36.7



Sizes 2" through 4" require a bolt torque of 60 – 70 Ft-Lbs (80 – 95 N-m). Normally you can see some gaps between the bolt pads.



Sizes 6" through 12" are designed to make a metal-to-metal contact when properly installed.

MODEL

7705 FLEXIBLE COUPLING

The **Shurjoint Model 7705** is a standard flexible coupling designed for use in a variety of moderate pressure general piping applications. The Model 7705 coupling features flexibility that can accommodate misalignment, distortion, thermal stress,

vibration, noise and seismic tremors. The Model 7705 can even accommodate an arced or curved piping layout. See *Typical Applications - Flexible Couplings* on page 142.



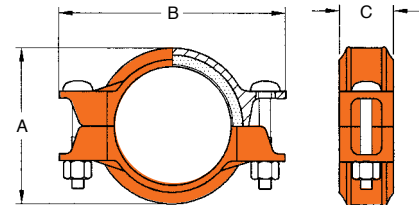
Pressure-Temperature Rating

Nom. Rating	Working Pressure (STD, Roll-grooved)	Max. Service Temperature
Class 150	300 psi @ 100°F 20 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 3 times the working pressure.



Nominal Size mm / in	Actual O.D. mm / in	Max. Working Pressure Bar / PSI	Max. End Load kN / Lbs	Axial Displacement mm / in	Angular Movement		Dimensions			Bolt Size mm / in	Weight Kgs / Lbs
					Per Coupling Degree (°)	Per Pipe mm / m in / ft	A mm / in	B mm / in	C mm / in		
25	33.7	20	1.75	1.6	5° - 30'	96	57	100	46	M10 x 45	0.6
1	1.315	300	410	0.0625		1.16	2.24	3.94	1.81	¾ x 1¾	1.3
32	42.4	20	2.80	1.6	4° - 20'	76	66	103	46	M10 x 55	0.7
1¼	1.660	300	650	0.0625		0.91	2.60	4.06	1.81	¾ x 2½	1.5
40	48.3	20	3.66	1.6	3° - 48'	66	72	108	46	M10 x 55	0.7
1½	1.900	300	850	0.0625		0.80	2.83	4.25	1.81	¾ x 2½	1.6
50	60.3	20	5.71	1.6	3° - 01'	53	84	129	48	M10 x 55	0.8
2	2.375	300	1330	0.0625		0.63	3.31	5.08	1.89	¾ x 2½	1.8
65	73.0	20	8.37	1.6	2° - 30'	44	99	142	48	M10 x 55	0.9
2½	2.875	300	1950	0.0625		0.52	3.90	5.59	1.89	¾ x 2½	2.0
76.1 mm	76.1	20	9.09	1.6	2° - 24'	42	102	147	48	M10 x 55	1.0
	3.000	300	2120	0.0625		0.50	4.02	5.79	1.89	¾ x 2½	2.1
80	88.9	20	12.41	1.6	2° - 04'	36	116	169	48	M12 x 75	1.3
3	3.500	300	2880	0.0625		0.43	4.57	6.65	1.89	½ x 3	2.8
101.6 mm	101.6	20	16.21	1.6	1° - 48'	31	129	200	52	M12 x 75	1.6
	4.000	300	3770	0.0625		0.38	5.07	7.90	2.05	½ x 3	3.6
108.0 mm	108.0	20	18.31	3.2	3° - 24'	59	138	192	52	M12 x 75	1.9
	4.250	300	4250	0.125		0.71	5.43	7.56	2.05	½ x 3	4.1
100	114.3	20	20.51	3.2	3° - 12'	55	145	197	52	M12 x 75	1.9
4	4.500	300	4770	0.125		0.67	5.71	7.76	2.05	½ x 3	4.1
133.0 mm	133.0	20	27.77	3.2	2° - 46'	48	165	231	52	M16 x 90	2.3
	5.250	300	6460	0.125		0.58	6.50	9.09	2.05	5/8 x 3½	5.1
139.7 mm	139.7	20	30.64	3.2	2° - 37'	46	170	233	52	M16 x 90	2.7
	5.500	300	7120	0.125		0.55	6.69	9.17	2.05	¾ x 3½	5.9
125	141.3	20	31.35	3.2	2° - 36'	45	172	234	52	M16 x 90	2.7
5	5.563	300	7290	0.125		0.54	6.77	9.21	2.05	¾ x 3½	5.9
159.0 mm	159.0	20	39.69	3.2	2° - 18'	40	190	253	54	M16 x 90	3.0
	6.250	300	9200	0.125		0.48	7.48	9.96	2.13	¾ x 3½	6.6
165.1 mm	165.1	20	42.80	3.2	2° - 14'	39	196	261	54	M16 x 90	3.1
	6.500	300	9950	0.125		0.47	7.72	10.28	2.13	¾ x 3½	6.8
150	168.3	20	44.47	3.2	2° - 10'	38	200	268	62	M16 x 90	3.2
6	6.625	300	10340	0.125		0.45	7.87	10.55	2.44	¾ x 3½	7.0
200	219.1	20	75.37	3.2	1° - 40'	28	260	350	64	M16 x 90	5.8
8	8.625	300	17520	0.125		0.35	10.24	13.78	2.52	¾ x 3½	12.8
200 (7705H)	219.1	20	75.37	3.2	1° - 40'	29	266	343	63	M20 x 120	7.1
8	8.625	300	17520	0.125		0.35	10.47	13.50	2.48	¾ x 4¾	15.7
250	273.0	20	117.01	3.2	1° - 20'	23	343	425	64	M20 x 120	8.2
10	10.750	300	27210	0.125		0.28	13.50	16.73	2.52	¾ x 4¾	18.0
300	323.9	20	164.71	3.2	1° - 08'	20	390	467	64	---	10.8
12	12.750	300	38280	0.125		0.24	15.35	18.39	2.52	7/8 x 6½	23.8
200 JIS	216.3	20	73.45	3.2	1° - 42'	30	254	348	62	M20 x 120	5.8
	8.516	300	17080	0.125		0.36	10.00	13.70	2.44	¾ x 4¾	12.8
250 JIS	267.4	20	112.26	3.2	1° - 22'	24	337	420	64	M20 x 120	8.0
	10.528	300	26100	0.125		0.29	13.27	16.54	2.52	¾ x 4¾	17.6
300 JIS	318.5	20	159.26	3.2	1° - 10'	20	389	478	64	---	10.3
	12.539	300	37030	0.125		0.25	15.31	18.81	2.52	7/8 x 6½	22.6

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

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

MODEL

7707 HEAVY DUTY FLEXIBLE COUPLING

The **Shurjoint Model 7707** heavy duty 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

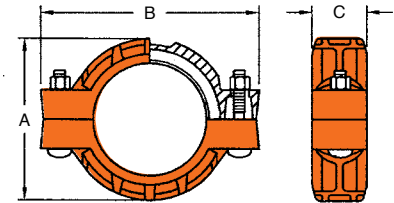
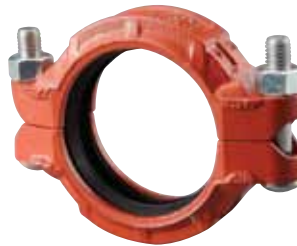
that can accommodate misalignment, distortion, thermal stress, vibration, noise and seismic tremors. The Model 7707 can even accommodate an arced or curved piping layout. See *Typical Applications - Flexible Couplings* on page 142.



Pressure-Temperature Rating

Size	Nom. Rating	Working Pressure (STD, Roll-grooved)	Max. Service Temperature
3/4" - 6"	Class 300	750 psi @ 100°F	EPDM: 230°F / 110°C
20 - 150		52 Bar @ 38°C	
8" - 12"	Class 250	400 psi @ 100°F	Nitrile: 180°F / 82°C
200 - 300		28 Bar @ 38°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 3 times the working pressure.



3/4"-12"

Nominal Size mm / in	Actual O.D. mm / in	Max. Working Pressure Bar / PSI	Max. End Load kN / Lbs	Axial Displacement mm / in	Angular Movement		Dimensions			Bolts		Weight Kgs / Lbs
					Per Coupling (°)	Per Pipe mm / m in / ft	A mm / in	B mm / in	C mm / in	No.	Size mm / in	
20	26.7	52	2.91	1.6	6° - 46°	116	54	95	46	2	M10 x 45	0.6
3/4	1.050	750	650	0.0625		1.42	2.13	3.74	1.81		3/8 x 1 3/4	1.3
25	33.4	52	4.55	1.6	5° - 30°	96	61	99	46	2	M10 x 55	0.8
1	1.315	750	1020	0.0625		1.16	2.40	3.90	1.81		3/8 x 2 1/8	1.7
32	42.2	52	7.27	1.6	4° - 20°	76	70	108	46	2	M10 x 55	1.0
1 1/4	1.660	750	1620	0.0625		0.91	2.76	4.25	1.81		3/8 x 2 1/8	2.1
40	48.3	52	9.52	1.6	3° - 48°	66	76	124	45	2	M12 x 60	1.0
1 1/2	1.900	750	2130	0.0625		0.80	3.0	4.88	1.81		1/2 x 2 3/8	2.1
50	60.3	52	14.84	1.6	3° - 01°	53	90	133	46	2	M12 x 75	1.2
2	2.375	750	3320	0.0625		0.63	3.50	5.24	1.81		1/2 x 3	2.6
65	73.0	52	21.75	1.6	2° - 30°	44	102	150	46	2	M12 x 75	1.3
2 1/2	2.875	750	4870	0.0625		0.52	4.00	5.90	1.81		1/2 x 3	2.9
76.1mm	76.1	52	23.64	1.6	2° - 24°	42	103	150	46	2	M12 x 75	1.3
	3.000	750	5300	0.0625		0.50	4.06	5.90	1.81		1/2 x 3	2.9
80	88.9	52	32.25	1.6	2° - 04°	36	124	171	48	2	M12 x 75	1.5
3	3.500	750	7210	0.0625		0.43	4.88	6.73	1.89		1/2 x 3	3.3
100	114.3	52	53.33	3.2	3° - 12°	55	157	213	54	2	M16 x 90	2.1
4	4.500	750	11920	0.125		0.67	6.18	8.38	2.13		5/8 x 3 1/2	4.6
139.7mm	139.7	52	79.66	3.2	2° - 37°	46	186	241	54	2	M16 x 90	3.1
	5.500	750	17810	0.125		0.55	7.32	9.50	2.13		5/8 x 3 1/2	6.8
125	141.3	52	81.50	3.2	2° - 36°	45	186	241	54	2	M16 x 90	3.3
5	5.563	750	18220	0.125		0.54	7.32	9.50	2.13		5/8 x 3 1/2	7.2
165.1mm	165.1	52	111.27	3.2	2° - 14°	39	211	286	54	2	M20 x 120	3.6
	6.500	750	24870	0.125		0.47	8.11	11.26	2.13		3/4 x 4 3/4	7.9
150	168.3	52	115.62	3.2	2° - 10°	38	214	289	54	2	M20 x 120	3.7
6	6.625	750	25840	0.125		0.45	8.24	11.38	2.13		3/4 x 4 3/4	8.1
200	219.1	28	105.51	3.2	1° - 40°	29	276	356	62	2	---	6.6
8	8.625	400	233.60	0.125		0.35	10.86	14.00	2.44		7/8 x 5 1/2	14.5
250	273.0	28	163.81	3.2	1° - 20°	23	343	425	64	2	---	10.6
10	10.750	400	36290	0.125		0.28	13.50	16.73	2.52		7/8 x 6 1/2	23.3
300	323.9	28	230.59	3.2	1° - 08°	20	390	467	64	2	---	12.0
12	12.750	400	51045	0.125		0.25	15.35	18.39	2.52		7/8 x 6 1/2	26.4
200 JIS	216.3	28	102.83	3.2	1° - 42°	30	276	356	62	2	M20 x 120	6.6
	8.516	400	22770	0.125		0.36	10.86	14.00	2.44		3/4 x 4 3/4	14.5
250 JIS	267.4	28	157.16	3.2	1° - 22°	24	337	420	64	2	---	10.2
	10.528	400	34800	0.125		0.29	13.27	16.54	2.52		7/8 x 6 1/2	22.4
300 JIS	318.5	28	222.97	3.2	1° - 10°	20	389	478	64	2	---	11.6
	12.539	400	49370	0.125		0.25	15.31	18.81	2.52		7/8 x 6 1/2	25.5

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

MODEL

7707N FLEXIBLE COUPLING

The Shurjoint Model 7707N is a two-segment, flexible coupling for use with standard pipe, roll or cut grooved to AWWA C606 specifications. For 26", see page 21 for groove dimensions.



Pressure-Temperature Rating

Nom. Rating	Working Pressure (STD, Roll-grooved)	Max. Service Temperature
Class 150	300 psi @100°F 20 Bar @38°C	EPDM: 230°F / 110°C Nitrile: 180°F / 82°C

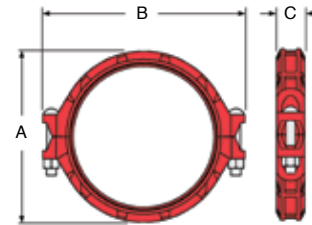
*Working pressure is based on roll- or cut-grooved standard wall carbon steel pipe.
*Proof test pressure: 1.5 times the working pressure, non-shock cold water.
*Burst pressure is engineered minimum 2 times the working pressure.



14" ~ 24"



Size: 26"



Nominal Size mm / in	Actual O.D. mm / in	Max. Working Pressure			Axial Displacement mm / in	Angular Movement		Dimensions			Bolts		Weight Kgs / Lbs
		XS (0.500")* Bar / PSI	STD (0.375") Bar / PSI	LW (0.312") Bar / PSI		Degree Per Coupling (°)	Per Pipe mm / m in/ft	A mm / in	B mm / in	C mm / in	No.	Size in	
350	355.6	20	20	17	6.4	1° - 02'	9.0	412	479	75	2	¾ x 6½	15.7
14	14.000	300	300	250	0.250		0.11	16.23	18.85	2.95			34.5
400	406.4	20	20	17	6.4	0° - 54'	8.0	463	547	75	2	1 x 6½	18.4
16	16.000	300	300	250	0.250		0.10	18.23	21.53	2.95			40.5
450	457.2	20	20	17	6.4	0° - 48'	7.0	520	605	79	2	1 x 6½	22.3
18	18.000	300	300	250	0.250		0.08	20.45	23.81	3.11			47.1
500	508.0	20	20	17	6.4	0° - 44'	6.0	571	656	79	2	1 x 6½	24.5
20	20.000	300	300	250	0.250		0.08	22.48	25.82	3.11			54.0
550	558.8	20	20	17	6.4	0° - 39'	6.0	621.4	724.6	79	2	½ x 6½	28.6
22	22.000	300	300	250	0.250		0.07	24.46	28.52	3.11			63.0
600	609.6	20	20	17	6.4	0° - 36'	5.0	674	780	79	2	½ x 6½	29.5
24	24.000	300	300	250	0.250		0.06	26.55	30.70	3.11			65.1
650	660.4	20	20	17	6.4	0° - 34'	5.0	754	842	125.6	4	¾ x 9½	68.3
26	26.0	300	300	250	0.250		0.06	29.68	33.15	4.94			150.5

Deflection or angular movement is the maximum value that a coupling allows under no internal pressure.
* Pressure ratings are based on cut-grooved XS carbon steel pipe.



30" 7707L couplings on a chill water system

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.



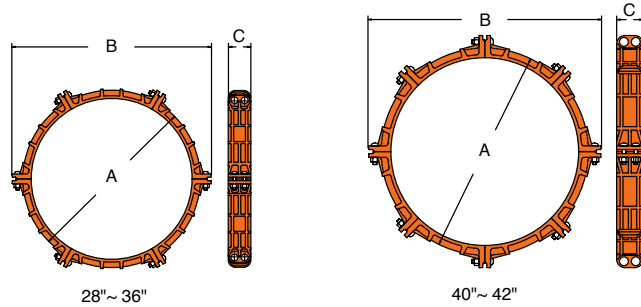
Pressure-Temperature Rating

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.

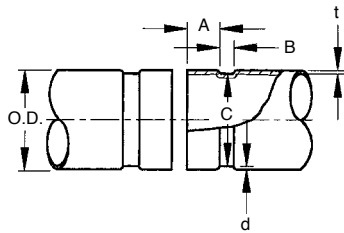
*Burst pressure is engineered minimum 2 times the working pressure.



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							
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

MODEL

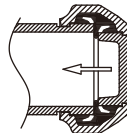
7706 REDUCING COUPLING

The Shurjoint Model 7706 reducing coupling allows for direct reduction on a piping run and eliminates the need for a concentric reducer and additional couplings. The specially designed rubber gasket helps prevent small pipe from telescoping into larger pipe during vertical assembly.



CAUTION

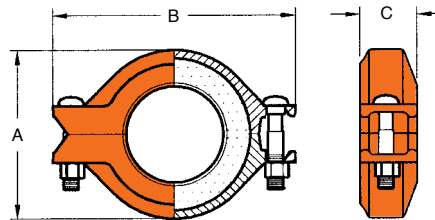
The Model 7706 coupling should not be used with an end cap, as the end cap could be sucked into the pipe by the vacuum created when a system is being drained.



Pressure-Temperature Rating

Nom. Rating	Working Pressure (STD, Roll-grooved)	Max. Service Temperature
Class 150	300 psi @100°F 20 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 3 times the working pressure.



Nominal Size mm / in	Pipe O. D. mm / in	Max. Working Pressure Bar/PSI	Max. End Load kN / Lbs	Axial Displacement mm / in	Angular Movement		Dimensions			Bolts Size mm / in	Weight Kgs / Lbs
					Per Coupling Degree (°)	Per Pipe mm / m in / ft	A mm / in	B mm / in	C mm / in		
40 x 32	48.3 x 42.2	20	2.89	0 ~ 3.2	3° - 48°	33.0	72	108	46	M10 x 55	0.8
1½ x 1¼	1.900 x 1.660	300	650	0 ~ 0.13		0.40	2.83	4.25	1.81	¾ x 2½	1.8
50 x 40	60.3 x 48.3	20	3.79	0 ~ 3.2	3° - 02°	26.0	85	122	48	M10 x 55	0.9
2 x 1½	2.375 x 1.900	300	850	0 ~ 0.13		0.31	3.35	4.80	1.89	¾ x 2½	2.0
65 x 50	73.0 x 60.3	20	5.90	0 ~ 3.2	2° - 30°	22.0	96	144	48	M10 x 55	1.2
2½ x 2	2.875 x 2.375	300	1330	0 ~ 0.13		0.26	3.78	5.67	1.89	¾ x 2½	2.6
76.1mm x 50	76.1 x 60.3	20	5.90	0 ~ 3.2	2° - 24°	21.0	102	138	48	M10 x 55	1.2
	3.000 x 2.375	300	1330	0 ~ 0.13		0.25	4.02	5.43	1.89	¾ x 2½	2.6
80 x 50	88.9 x 60.3	20	5.90	0 ~ 3.2	2° - 04°	18.0	116	168	48	M12 x 75	1.5
3 x 2	3.500 x 2.375	300	1330	0 ~ 0.13		0.22	4.57	6.61	1.89	½ x 3	3.3
80 x 65	88.9 x 73.0	20	8.66	0 ~ 3.2	2° - 04°	18.0	116	168	48	M12 x 75	1.7
3 x 2½	3.500 x 2.875	300	1950	0 ~ 0.13		0.22	4.57	6.61	1.89	½ x 3	3.7
80 x 76.1mm	88.9 x 76.1	20	9.41	0 ~ 3.2	2° - 04°	18.0	116	168	48	M12 x 75	1.7
	3.500 x 3.000	300	2115	0 ~ 0.13		0.22	4.57	6.61	1.89	½ x 3	3.7
100 x 50	114.3 x 60.3	20	5.90	0 ~ 4.8	2° - 24°	21.0	146	198	52	M12 x 75	2.4
4 x 2	4.500 x 2.375	300	1330	0 ~ 0.19		0.25	5.75	7.80	2.05	½ x 3	5.3
100 x 65	114.3 x 73.0	20	8.66	0 ~ 4.8	2° - 24°	21.0	146	198	52	M12 x 75	2.6
4 x 2½	4.500 x 2.875	300	1950	0 ~ 0.19		0.25	5.75	7.80	2.05	½ x 3	5.7
100 x 76.1mm	114.3 x 76.1	20	9.41	0 ~ 4.8	2° - 24°	21.0	146	198	52	M12 x 75	2.6
	4.500 x 3.000	300	2115	0 ~ 0.19		0.25	5.75	7.80	2.05	½ x 3	5.7
100 x 80	114.3 x 88.9	20	12.84	0 ~ 4.8	2° - 24°	21.0	146	198	52	M12 x 75	2.4
4 x 3	4.500 x 3.500	300	2890	0 ~ 0.19		0.25	5.75	7.80	2.05	½ x 3	5.3
139.7mm x 100	139.7 x 114.3	20	21.23	0 ~ 6.4	2° - 36°	23.0	160	242	52	M16 x 90	3.8
	5.500 x 4.500	300	4770	0 ~ 0.25		0.27	6.30	9.84	2.05	¾ x 3½	8.4
125 x 100	141.3 x 114.3	20	21.23	0 ~ 6.4	2° - 36°	23.0	160	242	52	M16 x 90	3.6
5 x 4	5.563 x 4.500	300	4770	0 ~ 0.25		0.27	6.30	9.84	2.05	¾ x 3½	7.9
165.1mm x 80	165.1 x 88.9	20	12.84	0 ~ 6.4	2° - 14°	20.0	202	269	52	M16 x 90	4.6
	6.500 x 3.500	300	2890	0 ~ 0.25		0.23	7.95	10.59	2.05	¾ x 3½	10.1
150 x 80	168.3 x 88.9	20	12.84	0 ~ 6.4	2° - 12°	19.0	208	275	52	M16 x 90	4.6
6 x 3	6.625 x 3.500	300	2890	0 ~ 0.25		0.23	8.19	10.83	2.05	¾ x 3½	10.1
165.1mm x 100	165.1 x 114.3	20	18.95	0 ~ 6.4	2° - 14°	20.0	202	269	52	M16 x 90	4.5
	6.500 x 4.500	300	4260	0 ~ 0.25		0.23	7.95	10.59	2.05	¾ x 3½	9.9
150 x 100	168.3 x 114.3	20	18.95	0 ~ 6.4	2° - 12°	19.0	208	275	52	M16 x 90	4.5
6 x 4	6.625 x 4.500	300	4260	0 ~ 0.25		0.23	8.19	10.83	2.05	¾ x 3½	9.9
200 x 150	219.1 x 168.3	20	46.03	0 ~ 6.4	1° - 40°	15.0	260	334	57	M20 x 120	6.5
8 x 6	8.625 x 6.625	300	10350	0 ~ 0.25		0.18	10.24	13.15	2.24	¾ x 4¾	14.3
200 x 165.1mm	219.1 x 165.1	20	44.29	0 ~ 6.4	1° - 40°	15.0	260	334	57	M20 x 120	6.5
	8.625 x 6.500	300	9960	0 ~ 0.25		0.18	10.24	13.15	2.24	¾ x 4¾	14.3

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

MODEL

G-28 HINGED LEVER COUPLING

The Model G-28 Hinged Lever Coupling is designed for quick connect and disconnect services. The housing segments are hinged with a locking lever handle for easy assembly. The use of the split pin can secure and prevent the accidental opening of the coupling.



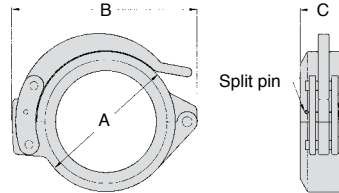
Pressure-Temperature Rating

Nom. Rating	Working Pressure (STD, Roll-grooved)	Max. Service Temperature
Class 150	300 psi @ 100°F 20 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 3 times the working pressure.



Nominal Size mm / in	Pipe O. D. mm / in	Max. Working Pressure Bar / PSI	Axial Displacement mm / in	Dimensions			Deflection Degree (°)	Weight Kgs / Lbs
				A mm / in	B mm / in	C mm / in		
40	48.3	20	0 - 1.6	75	118	47	3° - 48'	1.0
1½	1.900	300	0 - 0.06	2.95	4.65	1.85		2.2
50	60.3	20	0 - 1.6	86	121	48	3° - 01'	1.1
2	2.375	300	0 - 0.06	3.39	4.76	1.89		2.4
65	73.0	20	0 - 1.6	92	150	48	2° - 30'	1.4
2½	2.875	300	0 - 0.06	3.62	5.91	1.89		3.1
76.1 mm	76.1	20	0 - 1.6	92	150	48	2° - 24'	1.4
	3.000	300	0 - 0.06	3.62	5.91	1.89		3.1
80	88.9	20	0 - 1.6	119	163	48	2° - 14'	1.8
3	3.500	300	0 - 0.06	4.69	6.42	1.89		4.0
100	114.3	20	0 - 3.2	165	205	52	3° - 12'	2.7
4	4.500	300	0 - 0.13	6.50	8.07	2.05		5.9
139.7 mm	139.7	20	0 - 3.2	189	253	52	2° - 37'	4.9
	5.500	300	0 - 0.13	7.44	9.96	2.05		10.8
125	141.3	20	0 - 3.2	189	253	52	2° - 36'	4.9
	5.563	300	0 - 0.13	7.44	9.96	2.05		10.8
165.1 mm	165.1	20	0 - 3.2	213	278	52	2° - 14'	6.0
	6.500	300	0 - 0.13	8.39	10.94	2.05		13.2
150	168.3	20	0 - 3.2	216	281	52	2° - 10'	6.0
	6.625	300	0 - 0.13	8.50	11.06	2.05		13.2
200	219.1	20	0 - 3.2	278	356	62	1° - 40'	9.7
8	8.625	300	0 - 0.13	10.95	14.02	2.44		21.4
250	273.0	20	0 - 3.2	343	452	64	1° - 20'	16.4
	10.750	300	0 - 0.13	13.50	17.80	2.52		36.1

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



Expansion Pipe

Lever handles are factory assembled tight for safety. The use of an expansion pipe will aid the easy opening and closing. Expansion pipes are available upon request.

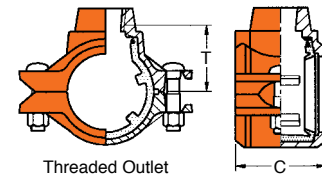
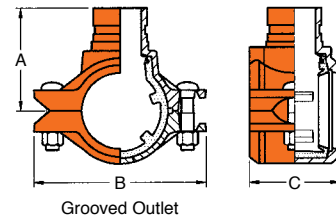


MODEL

C-7 OUTLET COUPLING

The Model C-7 Outlet Coupling combines the features of a coupling and a reducing outlet. The C-7 facilitates an easy reducing branch outlet without the need of a mechanical tee or reducing tee and couplings. The C-7 is available with grooved, male threaded or female threaded outlets. This fitting is

recommended for fire sprinkler and other pipelines of moderate pressure. The C-7 Outlet Coupling can be used for dry pipe systems or vacuum services up to 10 inHg or 254 mmHg, which may occur when the system is drained.



Pressure-Temperature Rating

Nom. Rating	Working Pressure (STD, Roll-grooved)	Max. Service Temperature
Class 150	300 psi @ 100°F 20 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 3 times the working pressure.

Run pipe mm / in	Nominal Size		Max. Working Pressure Bar / PSI	Axial Displacement mm / in	Max. End Load kN / Lbs	Dimensions				Bolt Size mm / in	Weight Kgs / Lbs
	FPT mm / in	Gr / MPT mm / in				T* mm / in	A mm / in	B mm / in	C mm / in		
40 1½	15	---	20	20~22	3.7 850	52	---	114	70	M10 x 55 ¾ x 2½	1.2
	½	---	300	0.81~0.88		2.06	---	4.50	2.75		2.6
	20	---	20	20~22		52	---	114	70		1.2
	¾	---	300	0.81~0.88		2.06	---	4.50	2.75		2.6
	25	---	20	20~22		49	---	114	70		1.3
50 2	1	---	300	0.81~0.88	5.7 1330	1.94	---	4.50	2.75	M10 X 55 ¾ x 2½	2.9
	15	---	20	20~22		59	---	127	70		1.4
	½	---	300	0.81~0.88		2.32	---	5.00	2.75		3.1
	20	---	20	20~22		59	---	127	70		1.4
	¾	---	300	0.81~0.88		2.32	---	5.00	2.75		3.1
65 2½	25	33.4	20	20~22	8.4 2120	56	89	127	70	M12 X 60 ½ x 2½	1.5
	1	---	300	0.81~0.88		2.20	3.50	5.00	2.75		3.3
	15	---	20	32~38		56	---	161	83		2.2
	½	---	300	1.25~1.50		2.20	---	6.33	3.25		4.8
	20	---	20	32~38		65	---	161	83		2.1
	¾	---	300	1.25~1.50		2.56	---	6.33	3.25		4.6
	25	---	20	32~38		62	---	161	83		2.0
	1	---	300	1.25~1.50		2.44	---	6.33	3.25		4.4
80 3	32	42.2	20	32~38	12.4 2890	64	94	161	83	M12 X 75 ½ x 3	2.3
	1¼	1¼	300	1.25~1.50		2.52	3.70	6.33	3.25		5.1
	40	48.3	20	32~38		---	94	161	83		2.4
	1½	1½	300	1.25~1.50		---	3.70	6.33	3.25		5.9
	20	---	20	32~38		72	---	175	83		2.7
	¾	---	300	1.25~1.50		2.83	---	6.87	3.25		5.9
	25	33.4	20	32~38		70	102	175	83		2.8
100 4	1	1	300	1.25~1.50	20.5 4770	2.75	4.00	6.87	3.25	M16 X 90 ¾ x 3½	6.2
	32	---	20	32~38		70.0	102.0	175.0	83.0		2.8
	1¼	---	300	1.25~1.50		2.75	4.00	6.87	3.25		6.2
	48.3	48.3	20	32~38		70.0	102	175	83		2.9
	1½	1½	300	1.25~1.50		2.75	4.00	6.87	3.25		6.4
	20	---	20	41~46		94	---	211	93		4.2
	¾	---	300	1.63~1.81		3.70	---	8.31	3.66		9.2
150 6	25	33.4	20	41~46	44.5 9950	91	---	211	93	M16 X 90 ¾ x 3½	4.3
	1	1	300	1.63~1.81		3.58	---	8.31	3.66		9.5
	40	48.3	20	41~46		84	124	211	93		4.3
	1½	1½	300	1.63~1.81		3.31	4.88	8.31	3.66		9.5
	50	60.3	20	41~46		89.0	124	211	93		4.5
	2	2	300	1.63~1.81		3.50	4.88	8.31	3.66		9.9
	20	---	20	41~46		121	---	276	94		6.0
150 6	¾	---	300	1.63~1.81	44.5 9950	4.76	---	10.86	3.70	M16 X 90 ¾ x 3½	13.2
	25	---	20	41~46		121	---	276	94		6.0
	1	---	300	1.63~1.81		4.76	---	10.86	3.70		13.2
	40	48.3	20	41~46		121	154	276	94		6.2
	1½	1½	300	1.63~1.81		4.76	6.06	10.86	3.70		13.6
	50	60.3	20	41~46		111.0	154	276	94		6.5
	2	2	300	1.63~1.81		4.4	6.06	10.86	3.70		14.3

FPT : Female threaded outlet Gr: Grooved outlet MPT: Male threaded outlet
*T : Center of run pipe to end of outlet pipe (dimensions approximate). Female threaded outlet only.

MODEL

7706-T TRANSITION COUPLING

Model 7706-T Transition Couplings allows for a direct transition from IPS pipe sizes to ISO pipe sizes.



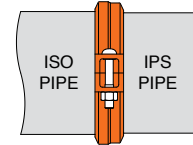
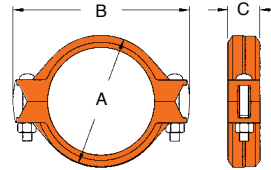
Pressure-Temperature Rating

Nom. Rating	Working Pressure (STD, Roll-grooved)	Max. Service Temperature
Class 150	300 psi @ 100°F 20 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 3 times the working pressure.



Nominal Size mm / in	Pipe O. D. mm / in	Max. Working Pressure Bar/PSI	Max. End Load kN / Lbs	Axial Displacement mm / in	Angular Movement		Dimensions			Bolts Size mm / in	Weight Kgs / Lbs
					Per Coupling Degree (°)	Per Pipe mm / m in / ft	A mm / in	B mm / in	C mm / in		
2½ x 76.1mm	73.0 x 76.1	20	5.90	0 ~ 3.2	2° - 24'	21.0	102	138	48	M10 x 55	1.2
	2.875 x 3.000	300	1330	0 ~ 0.13			4.02	5.43	1.89		
6 x 165.1mm	168.3 x 165.1	20	44.29	0 ~ 6.4	1° - 06'	19.0	200	270	53	M16 x 90	3.5
	6.625 x 6.500	300	9960	0 ~ 0.25			7.87	10.63	2.09		

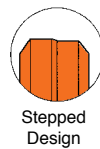
*Deflection or angular movement is the maximum value that a coupling allows with no internal pressure.

MODEL

7771-T TRANSITION COUPLING

The Shurjoint Model 7771-T Transition Coupling allows for a direct transition from IPS pipe sizes to JIS pipe sizes. Available in nominal pipe sizes from 8" through 12" this coupling can accommodate a combination of pipes, valves and or fittings with a single coupling. Bolt pads are designed to make metal to metal contact to provide for a secure and rigid joint.

The stepped exterior design of the housings help to ensure the correct positioning of IPS and JIS sides.



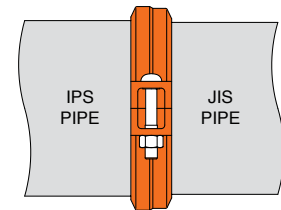
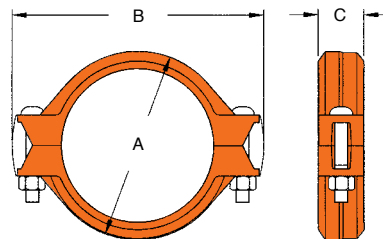
Pressure-Temperature Rating

Nom. Rating	Working Pressure (STD, Roll-grooved)	Max. Service Temperature
Class 150	300 psi @ 100°F 20 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 3 times the working pressure.



Nominal Size mm / in	Actual Pipe O.D.		Max. Working Pressure Bar / PSI	Max. End Load kN / Lbs	Total Axial Displacement mm / in	Dimensions			Bolts Size mm	Weight Kgs / Lbs
	IPS mm / in	JIS mm / in				A mm / in	B mm / in	C mm / in		
200	219.1	216.3	20	75.37	3.2	259	335	63	M16 x 135	7.0
8	8.625	8.515	300	17520	0.13	10.20	13.19	2.50		
250	273.0	267.4	20	117.01	3.2	316	386	63	M20 x 120	9.0
10	10.750	10.528	300	27190	0.13	12.46	15.20	2.50		
300	323.9	318.5	20	164.71	3.2	367	448	63	M22 x 165	11.0
12	12.750	12.539	300	38280	0.13	14.45	17.64	2.50		

MODEL

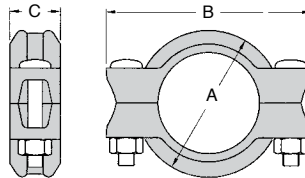
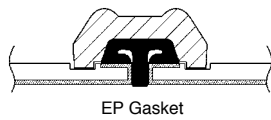
XH-70EP EXTRA HEAVY RIGID COUPLING With End Protection (EP) Gasket

The Model XH-70EP is designed for use with plastic coated or cement lined pipe. The EP (end protection) gasket serves to form a continuous lined surface at the joint and also helps protect the pipe ends from

corrosion. This coupling is rated up to 2500 psi (175 bar) when used in conjunction with machined EP cut grooves and the applicable pipe.



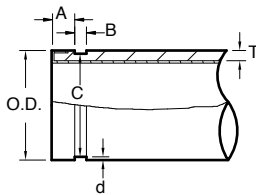
CAUTION: Always fasten the bolts to the required torque.



Nominal Size mm / in	Pipe O. D. mm / in	Max. Working Pressure Bar / PSI	Max. End Load kN / Lbs	Dimensions			Bolt / Nut		Torque N-m / Lbs - Ft	Bolt Weight Kgs / Lbs
				A mm / in	B mm / in	C mm / in	No.	Size in		
50	60.3	175	50	90	150	49	2	5/8 x 2 3/4	80 - 120	1.6
2	2.375	2500	11070	3.54	5.90	1.92			60 - 90	3.4
65	73.0	175	73.2	103	168	49	2	5/8 x 2 3/4	80 - 120	1.7
2 1/2	2.875	2500	16220	4.06	6.61	1.92			60 - 90	3.8
80	88.9	175	108.6	122	188	51	2	5/8 x 2 3/4	80 - 120	2.2
3	3.500	2500	24040	4.80	7.40	2.00			60 - 90	4.8
100	114.3	175	179.5	157	222	55	2	3/4 x 4 3/4	100 - 135	3.8
4	4.500	2500	39740	6.18	8.74	2.17			74 - 170	8.4
150	168.3	140	311.3	218	295	57	2	7/8 x 5 1/2	170 - 275	8.0
6	6.625	2000	68910	8.58	11.61	2.25			125 - 200	17.6
200	219.1	140	527.6	275	364	70	2	1 x 5 1/2	275 - 400	10.9
8	8.625	2000	116790	10.83	14.33	2.75			200 - 300	24.0
250	273.0	88	514.8	334	424	75	2	1 x 5 1/2	275 - 400	14.2
10	10.750	1250	113400	13.15	16.70	2.95			200 - 300	31.2
300	323.9	88	724.7	390	480	75	2	1 x 5 1/2	275 - 400	16.7
12	12.750	1250	159510	15.35	18.93	2.95			200 - 300	36.7

*Pressures quoted are based on EP cut grooved XS (Sch. 80) pipe.

EP Cut-Groove specification



1. EP cut-grooves are for plastic coated or cement lined pipe to be connected with **Shurjoint XH-70EP couplings only**. Do not roll groove pipe, which can damage the coating or lining and or create flared pipe ends.

2. Always use plain-end square cut pipe. Do not use beveled end pipe.
3. Always use an EP gasket with a XH-70EP coupling. Do not use a standard gasket.
4. The gasket seating area shall be free from deep scores, marks, or ridges that could prevent a positive seal.

Nominal Size mm / in	Pipe O. D.			Gasket Seat A		Groove Width B		Groove Dia. C		Grv. Depth d (ref.)	Min. Wall thickness T mm / in
	Basic mm / in	Tolerance mm / in	mm / in	Basic mm / in	Tol. ±	Basic mm / in	Tol. +0.25/+0.010	Basic mm / in	Tol. +0/+0		
50	60.3	+0.61	-0.61	14.27	±0.25	6.48	-0.13	57.15	-0.38	1.60	3.91
2	2.375	+0.024	-0.024	0.562	±0.010	0.255	-0.005	2.250	-0.015	0.063	0.154
65	73.0	+0.74	-0.74	14.27	±0.25	6.48	-0.13	69.09	-0.46	1.98	4.78
2 1/2	2.875	+0.029	-0.29	0.562	±0.010	0.255	-0.005	27.20	-0.018	0.078	0.188
80	88.9	+0.89	-0.79	14.27	±0.25	6.48	-0.13	84.94	-0.46	1.98	4.78
3	3.500	+0.035	-0.031	0.562	±0.010	0.255	-0.005	3.344	-0.018	0.078	0.188
100	114.3	+1.14	-0.79	15.37	±0.38	7.75	-0.13	110.08	-0.51	2.11	5.16
4	4.500	+0.045	-0.031	0.605	±0.015	0.305	-0.005	4.334	-0.020	0.083	0.203
150	168.3	+1.60	-0.79	15.37	±0.38	7.75	-0.13	163.96	-0.56	2.16	5.56
6	6.625	+0.063	-0.031	0.605	±0.015	0.305	-0.005	6.455	-0.022	0.085	0.219
200	219.1	+1.60	-0.79	18.14	±0.38	10.16	-0.25	214.4	-0.64	2.34	6.05
8	8.625	+0.063	-0.031	0.714	±0.015	0.400	-0.010	8.441	-0.025	0.092	0.238
250	273.0	+1.60	-0.79	18.14	±0.38	10.16	-0.25	268.28	-0.69	2.39	6.35
10	10.750	+0.063	-0.031	0.714	±0.015	0.400	-0.010	10.562	-0.027	0.094	0.250
300	323.9	+1.60	-0.79	18.14	±0.38	10.16	-0.25	318.29	-0.76	2.77	7.09
12	12.750	+0.063	-0.031	0.714	±0.015	0.400	-0.010	12.531	-0.030	0.109	0.279