MODEL

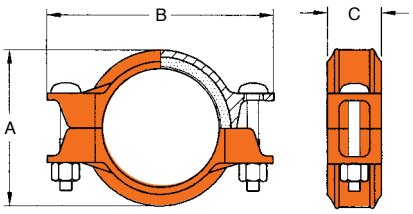
7705 FLEXIBLE COUPLING

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	⅜ 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	⅜ x 2⅛	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	⅜ x 2⅛	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	⅜ x 2⅛	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	⅜ x 2⅛	2.0
76.1mm	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	⅜ x 2⅛	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	⅝ 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	⅝ 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	⅝ 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	⅝ 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	⅝ 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	⅝ 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	⅞ 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	⅞ 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.