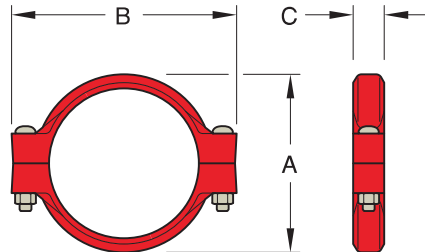


Figure 705 Flexible Couplings

Tech Data Sheet: TFP1820



The GRINNELL Figure 705 Flexible Coupling allows for angular and linear deflection, thermal expansion and contraction, and misalignments of pipe. It is capable of pressures up to 2,068 kPa (300 psi), depending on pipe size and wall thickness. Suitable for use in a variety of applications, the Figure 705 Coupling provides a dependable method of joining pipe.



For Fire Protection Pressure Rating and Listing / Approval information contact Tyco Fire Protection Products.

Grooved Couplings

Pipe Size		Max.† Pressures kPa psi	Max.† End Load N Lbs.	Max.*‡ End Gap mm Inches	Deflection ‡		Dimensions - mm /Inches			Coupling Bolts Size (Qty 2) mm Inches	Approx. Weight kg Lbs.
Nominal mm Inches	O.D. mm Inches				Degrees Per Coupling	mm/m Inches/Ft	A	B	C		
25	33.7	2068	1,810	3.3	5° 30'	96.7	56.9	100.1	46.0	M10 x 57	0.6
1	1.315	300	407	0.13	5° 30'	1.16	2.24	3.94	1.81	3/8 x 2-1/4	1.3
32	42.4	2068	2,887	3.3	4° 19'	75.0	65.0	106.4	46.0	M10 x 57	0.7
1-1/4	1.660	300	649	0.13	4° 19'	0.90	2.56	4.19	1.81	3/8 x 2-1/4	1.5
40	48.3	2068	3,781	3.3	3° 46'	65.8	69.9	112.8	46.0	M10 x 57	0.7
1-1/2	1.900	300	850	0.13	3° 46'	0.79	2.75	4.44	1.81	3/8 x 2-1/4	1.6
50	60.3	2068	5,907	3.3	3° 1'	52.5	82.6	124.0	47.8	M10 x 57	0.8
2	2.375	300	1,328	0.13	3° 1'	0.63	3.25	4.88	1.88	3/8 x 2-1/4	1.7
65	73.0	2068	8,660	3.3	2° 29'	43.3	93.7	139.7	47.8	M10 x 57	0.9
2-1/2	2.875	300	1,947	0.13	2° 29'	0.52	3.69	5.50	1.88	3/8 x 2-1/4	2.0
65	76.1	2068	9,430	3.3	2° 23'	41.7	101.6	146.1	47.8	M12 x 76	1.4
76.1mm	3.000	300	2,120	0.13	2° 23'	0.50	4.00	5.75	1.88	—	3.1
80	88.9	2068	12,832	3.3	2° 3'	35.8	111.3	165.1	47.8	M12 x 76	1.4
3	3.500	300	2,885	0.13	2° 3'	0.43	4.38	6.50	1.88	1/2 x 3	3.1
100	108.0	2068	18,931	6.4	3° 22'	58.3	139.7	190.5	52.3	M12 x 76	1.9
108.0mm	4.250	300	4,256	0.25	3° 22'	0.70	5.50	7.50	2.06	—	4.2
100	114.3	2068	21,213	6.4	3° 11'	55.8	144.5	196.9	52.3	M12 x 76	1.8
4	4.500	300	4,769	0.25	3° 11'	0.67	5.69	7.75	2.06	1/2 x 3	4.0
125	133.0	2068	28,885	6.4	2° 44'	46.7	166.6	241.3	52.3	M16 x 83	3.3
133.0mm	5.250	300	6,494	0.25	2° 44'	0.56	6.56	9.50	2.06	—	7.2
125	139.7	2068	31,701	6.4	2° 36'	45.5	173.0	247.7	52.3	M16 x 83	3.3
139.7mm	5.500	300	7,127	0.25	2° 36'	0.55	6.81	9.75	2.06	—	7.2
125	141.3	2068	32,417	6.4	2° 35'	45.0	174.8	247.7	52.3	M16 x 83	3.2
5	5.563	300	7,288	0.25	2° 35'	0.54	6.88	9.75	2.06	5/8 x 3-1/4	7.1
150	159.0	2068	40,939	6.4	2° 17'	40.0	192.0	261.9	52.3	M16 x 83	3.4
159.0mm	6.250	300	9,204	0.25	2° 17'	0.48	7.56	10.31	2.06	—	7.4
150	165.1	2068	44,258	6.4	2° 12'	38.3	196.9	271.5	52.3	M16 x 83	3.2
165.1mm	6.500	300	9,950	0.25	2° 12'	0.46	7.75	10.69	2.06	—	7.1
150	168.3	2068	45,975	6.4	2° 10'	37.8	201.7	271.5	52.3	M16 x 83	3.2
6	6.625	300	10,336	0.25	2° 10'	0.45	7.94	10.69	2.06	5/8 x 3-1/4	7.1
200 JIS	216.3	2068	75,723	6.4	1° 40'	29.2	255.8	342.9	58.7	M20 x 121	5.6
216.3mm	8.500	300	17,024	0.25	1° 40'	0.35	10.07	13.50	2.31	—	12.4
200	219.1	2068	77,925	6.4	1° 40'	29.2	258.8	344.4	63.5	M20 x 121	6.6
8	8.625	300	17,519	0.25	1° 40'	0.35	10.19	13.56	2.50	3/4 x 4-3/4	14.5
250 ▶	273.0	1723	100,876	6.4	1° 20'	23.3	322.3	416.1	66.8	M24 x 165	12.7
10	10.750	250	22,679	0.25	1° 20'	0.28	12.69	16.38	2.63	1 x 6-1/2	28.0
300 ▶	323.9	1723	141,905	6.4	1° 7'	19.5	379.5	479.6	66.8	M24 x 165	14.6
12	12.750	250	31,903	0.25	1° 7'	0.23	14.94	18.88	2.63	1 x 6-1/2	32.2

* Maximum available gap between pipe ends. Minimum gap = 0.

† Maximum pressure and end load are total from all loads based on standard weight steel pipe. Pressure ratings and end loads may differ for other pipe materials and/or wall thickness. Contact GRINNELL Products for details.

‡ Max end gap and deflection is for cut grooved standard weight pipe. Values for roll grooved pipe will be half that of cut grooved.

▶ Sizes are available to JIS standards. Contact GRINNELL Products for details.

For information on larger sizes, Chinese sizes or other alternative sizes, contact GRINNELL Products.

See page 13 for general notes, and see pages 76 - 78 for gasket information.