

Figure 577 G-FIRE Rigid Couplings

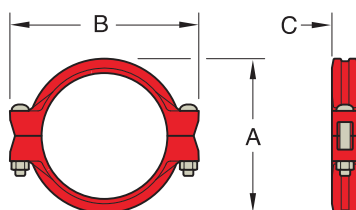
Tech Data Sheet: TFP1854

10
YEAR
LIMITED
WARRANTY

The GRINNELL Figure 577 Grooved Rigid Coupling provides a rigid joint by firmly gripping along the full circumference of the pipe grooves. Figure 577 Grooved Rigid Couplings are a proven dependable method of joining pipe and are an economical alternative to welding, threading, or using flanges. It is capable of pressures up to 350 psi (24,1 bar) depending on pipe size and wall thickness when used in fire protection services.



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 kN Lbs.	Max.*‡ End Gap mm Inches	Dimensions - mm Inches			Coupling Bolts Size ** (Qty 2) mm Inches	Approx. Weight kg Lbs.
Nominal mm Inches	O.D. mm Inches				A	B	C		
25	33,4	2413	2,11	1,5	41	100	42	M10 x 57	0,55
1	1.315	350	475	0.06	1.63	3.92	1.65	3/8 x 2 1/4	1.2
32	42,4	2413	3,37	1,5	68	112	42	M10 x 57	0,59
1 1/4	1.660	350	757	0.06	2.66	4.40	1.64	3/8 x 2 1/4	1.3
40	48,3	2413	4,41	1,5	74	118	42	M10 x 57	0,68
1 1/2	1.900	350	992	0.06	2.90	4.66	1.66	3/8 x 2 1/4	1.5
50	60,3	2413	6,90	1,5	86	132	43	M10 x 57	0,82
2	2.375	350	1,551	0.06	3.38	5.20	1.70	3/8 x 2 1/4	1.8
65	73,0	2413	10,11	1,5	99	143	44	M10 x 57	0,91
2 1/2	2.875	350	2,272	0.06	3.88	5.64	1.75	3/8 x 2 1/4	2.0
65	76,1	2413	11,01	1,5	102	147	44	M10 x 57	0,91
76.1mm	3.000	350	2,474	0.06	4.00	5.78	1.75	—	2.0
80	88,9	2413	14,98	1,5	114	161	44	M10 x 57	1,50
3	3.500	350	3,367	0.06	4.50	6.33	1.75	3/8 x 2 1/4	3.3
100	114,3	2068	21,22	1,5	145	191	46	M10 x 57	1,50
4	4.500	300	4,771	0.06	5.70	7.50	1.83	3/8 x 2 1/4	3.3
125	139,7	2068	31,71	3,2	173	222	49	M12 x 76	2,41
139.7mm	5.500	300	7,127	0.125	6.80	8.75	1.91	—	5.3
125	141,3	2068	32,43	3,2	174	224	49	M12 x 76	2,41
5	5.563	300	7,290	0.125	6.86	8.82	1.91	1/2 x 3	5.3
150	165,1	2068	44,28	3,2	198	248	49	M12 x 76	2,59
165.1mm	6.500	300	9,955	0.125	7.80	9.75	1.91	—	5.7
150	168,3	2068	46,00	3,2	215	251	49	M12 x 76	2,68
6	6.625	300	10,341	0.125	8.47	9.88	1.91	1/2 x 3	5.9
200	219,1	2068	77,97	3,2	260	325	61	M16 x 83	5,32
8	8.625	300	17,528	0.125	10.25	12.78	2.40	5/8 x 3 1/4	11.7
250 □	273,0	1206	70,7	6,4	318	419	65	M20 x 121	8,86
10	10.750	175	15,883	0.25	12.50	16.50	2.56	3/4 x 4 3/4	19.5
300 □	323,9	1206	99,4	6,4	368	470	65	M20 x 121	10,00
12	12.750	175	22,343	0.25	14.50	18.50	2.56	3/4 x 4 3/4	22.0

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

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

‡ Max End Gap is for cut grooved standard weight pipe. Values for roll grooved pipe will be half that of cut grooved.

** Gold color coded metric bolt sizes for 25 - 300mm couplings are available upon request.

□ For 250 and 300mm sizes where VdS Approval is required, refer to Figure 772, Technical Data Sheet G140.

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.