

Figure 71 Flange Adaptors (PN10/PN16)

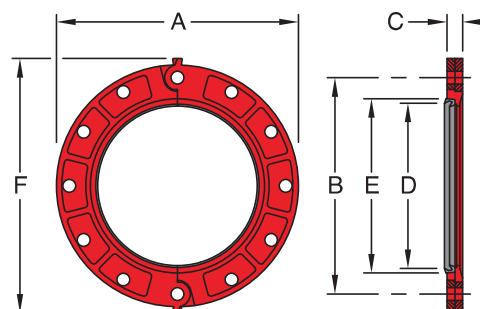
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For Fire Protection Pressure Rating and Listing / Approval information contact Tyco Fire Protection Products.

Grooved Couplings



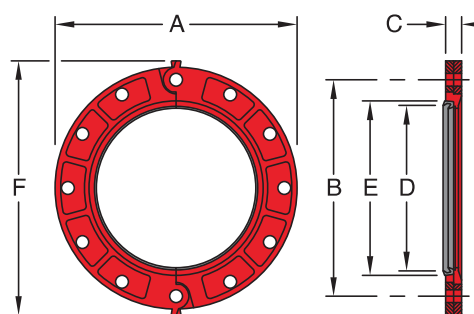
Pipe Size		PN10/ PN16	Max † End Load N Lbs.	Dimensions - mm Inches						Recommended Flange Mating Bolts ‡		Approx. Wt. kg Lbs
Nominal mm Inches	O.D. mm Inches			A	B	C	*D	*E	F	Size Dia. x Lg mm Inches	Qty.	
50 2	60.3 2.375	PN10 / PN16	5889 1,324	162.1 6.38	125.0 4.92	19.1 0.75	60.5 2.38	86.6 3.41	184.2 7.25	M16 x 76	4	1.8 4.0
65 2½	73.0 2.875	PN10 / PN16	8665 1,948	177.8 7.00	139.7 5.50	22.4 0.88	73.6 2.88	99.3 3.91	130.3 5.13	M16 x 76	4	2.4 5.4
65** 76.1mm	76.1 3.000	PN10	8665 1,948	184.9 7.28	145.0 5.71	22.4 0.88	76.1 3.00	102.4 4.03	205.5 8.09	M16 x 76	4	2.6 5.7
65** 76.1mm	76.1 3.000	PN16	8665 1,948	184.9 7.28	144.8 5.70	22.4 0.88	76.1 3.00	102.4 4.03	205.2 8.08	M16 x 76	4	2.5 5.6
80 3**	88.9 3.500	PN10	12,838 2,886	184.4 7.26	146.3 5.76	23.9 0.94	88.9 3.50	115.1 4.53	199.6 7.86	M16 x 76	4	2.4 5.4
80 3**	88.9 3.500	PN16	12,838 2,886	200.2 7.88	160.0 6.30	23.9 0.94	88.9 3.50	115.1 4.53	222.5 8.76	M16 x 76	8	2.5 5.6
100 4**	114.3 4.500	PN10	21,222 4,771	215.9 8.50	177.8 7.00	23.9 0.94	114.3 4.50	140.5 5.53	235.2 9.26	M16 x 76	8	3.5 7.8
100 4**	114.3 4.500	PN16	21,222 4,771	219.9 8.66	180.1 7.09	23.9 0.94	114.3 4.50	140.5 5.53	239.5 9.43	M16 x 76	8	3.6 8.0
125** 139.7mm	139.7 5.500	PN10	32,436 7,292	249.9 9.84	210.1 8.27	25.4 1.00	139.7 5.50	165.9 6.53	271.5 10.69	M16 x 89	8	4.2 9.2
125** 139.7mm	139.7 5.500	PN16	31,702 7,127	249.9 9.84	209.8 8.26	24.5 1.00	139.7 5.50	169.2 6.66	310.4 12.22	M16 x 89	8	4.2 9.2
150** 165.1mm	165.1 6.500	PN10	44,282 9,955	279.4 11.00	234.2 9.26	24.5 1.00	165.1 6.50	194.6 7.66	298.7 11.76	M20 x 89	8	4.7 10.4
150** 165.1mm	165.1 6.500	PN16	44,282 9,955	285.0 11.22	240.3 9.46	24.5 1.00	165.1 6.50	194.6 7.66	307.3 12.10	M20 x 89	8	4.8 10.5

Figure 71 Flange Adaptors (PN10/PN16)

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10
YEAR
LIMITED
WARRANTY



Grooved
Couplings

Pipe Size		PN10/ PN16	Max † End Load N Lbs.	Dimensions - mm Inches						Recommended Flange Mating Bolts ‡		Approx. Wt. kg Lbs
Nominal mm Inches	O.D. mm Inches			A	B	C	*D	*E	F	Size Dia. x Lg mm Inches	Qty.	
150 6	168.3 6.625	PN10 / PN16	77,968 17,528	279.4 11.00	241.1 9.49	25.4 1.00	168.1 6.62	197.6 7.78	301.8 11.88	M20 x 89	8	4.8 10.6
200 8**	219.1 8.625		77,968 17,528	336.8 13.26	292.1 11.50	28.6 1.125	218.9 8.62	254.5 9.94	358.6 14.12	M20 x 89	8	6.9 15.4
200 8**	219.1 8.625	PN16	77,968 17,528	339.8 13.38	295.1 11.62	28.6 1.125	218.9 8.62	254.5 9.94	362.7 14.28	M20 x 89	12	7.5 16.6
250 10**	273.0 10.750	PN10	121,121 27,229	395.2 15.56	350.0 13.78	30.2 1.188	273.1 10.75	312.4 12.31	419.1 16.50	M20 x 102	12	9.6 21.2
250 10**	273.0 10.750	PN16	170,380 38,303	406.4 16.00	355.1 13.98	30.2 1.188	273.1 10.75	312.7 12.31	428.8 16.88	M22 x 102	12	10.2 22.5
300 12**	323.9 12.750	PN10	170,380 38,303	445.0 17.52	399.8 15.74	31.8 1.25	323.9 12.75	363.5 14.31	470.4 18.52	M22 x 102	12	11.2 24.8
300 12**	323.9 12.750	PN16	170,380 38,303	460.2 18.12	410.0 16.14	31.8 1.25	323.9 12.75	363.5 14.31	486.2 19.14	M22 x 102	12	13.1 28.9

Maximum Pressure rating is 2068 kPa (300 psi).

* Dimensions D and E represent minimum and maximum sealing surfaces.

** For noted sizes, PN10 and PN16 dimensional values differ.

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

‡ Mating Bolts and Nuts are not supplied. Flange Mating Bolts must be at least SAE J429, Grade 5 or stronger. Bolt lengths are standard; responsibility lies with the purchaser to verify the correct length for the intended application.

For information on larger sizes, contact GRINNELL Products.

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

See page 26 for flange washer Adaptor and page 96 flange drilling specifications

Figure 71 Flange Adaptors (ANSI Class 125/150)

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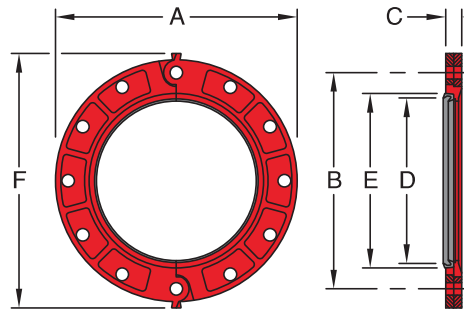
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The Figure 71 Flange Adaptor is capable of pressures up to 2,068 kPa (300 psi) depending on pipe size and wall thickness. It provides a direct transition from flanged components to a grooved piping system. I.P.S. size flange bolt patterns conform to ANSI Class 125 and 150.

The gasket seal is designed with an optimal amount of rubber to provide a dependable seal and to avoid the gasket pocket from overfilling, which may cause assembly difficulties.

Grooved
Couplings



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

Pipe Size		Max † Pressure kPa psi	Max End Load † N Lbs.	Dimensions - mm Inches						Recommended Flange Mating Bolts ‡		Approx. Wt. kg Lbs
Nominal mm Inches	O.D. mm Inches			A	B	C	*D	*E	F	Size Dia. x Lg mm Inches	Qty.	
50	60.3	2068	5889	162.1	120.7	19.1	60.5	86.6	184.2	5/8 x 3	4	1.9
2	2.375	300	1,324	6.38	4.75	0.75	2.38	3.41	7.25	5/8 x 3	4	4.1
65	73.0	2068	8665	178.0	140.0	22.0	73.0	99.0	200.0	5/8 x 3	4	2.4
2-1/2	2.875	300	1,948	7.00	5.50	0.88	2.88	3.91	7.88	5/8 x 3	4	5.4
65	76.1	2068	9435	184.9	145.0	22.0	76.1	102.4	205.2	5/8 x 3	4	2.6
76.1mm	3.000	300	2,121	7.28	5.71	0.88	3.00	4.03	8.08	5/8 x 3	4	5.8
80	88.9	2068	12,838	190.5	152.4	23.9	88.9	115.1	251.0	5/8 x 3	4	2.7
3	3.500	300	2,886	7.50	6.00	0.94	3.50	4.53	9.88	5/8 x 3	4	6.0
100	114.3	2068	21,222	228.6	190.5	23.9	114.3	140.5	251.5	5/8 x 3	8	3.7
4	4.500	300	4,771	9.00	7.50	0.94	4.50	5.53	9.90	5/8 x 3	8	8.1
125	139.7	2068	31,702	249.9	210.1	25.4	139.7	169.2	270.3	3/4 x 3-1/2	8	4.2
139.7mm	5.500	300	7,127	9.84	8.27	1.00	5.50	6.66	10.64	3/4 x 3-1/2	8	9.2
125	141.3	2068	32,436	254.0	215.9	25.4	141.2	170.7	289.1	3/4 x 3-1/2	8	4.2
5	5.563	300	7,292	10.00	8.50	1.00	5.56	6.72	11.38	3/4 x 3-1/2	8	9.2
150	165.1	2068	44,282	285.0	240.6	25.4	165.1	194.6	307.3	3/4 x 3-1/2	8	5.0
165.1mm	6.500	300	9,955	11.22	9.45	1.00	6.50	7.66	12.10	3/4 x 3-1/2	8	11.0
150	168.3	2068	45,999	279.4	241.3	25.4	168.1	197.6	301.8	3/4 x 3-1/2	8	4.8
6	6.625	300	10,341	11.00	9.50	1.00	6.62	7.78	11.88	3/4 x 3-1/2	8	10.5
200	219.1	2068	77,968	342.9	298.5	28.7	218.9	252.5	365.3	3/4 x 3-1/2	8	7.3
8	8.625	300	17,528	13.50	11.75	1.13	8.62	9.94	14.38	3/4 x 3-1/2	8	16.2
250	273.0	2068	121,121	406.4	362.0	30.2	273.1	312.7	428.8	7/8 x 4	12	9.4
10	10.750	300	27,229	16.00	14.25	1.19	10.75	12.31	16.88	7/8 x 4	12	20.7
300	323.9	2068	170,380	482.6	431.8	31.8	323.9	363.5	508.0	7/8 x 4	12	14.4
12	12.750	300	38,303	19.00	17.00	1.25	12.75	14.31	20.00	7/8 x 4	12	31.8

* Dimensions D and E represent minimum and maximum sealing surfaces.

** For segment bolt torque recommendations, refer to Table A below.

• Metric segment bolt are available upon request.

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

‡ Mating bolts and nuts are not supplied. Flange mating bolts must be at least SAE J429, Grade 5 or stronger. Bolt lengths are standard; responsibility lies with the purchaser to verify the correct length for the intended application.

For information on larger sizes, contact GRINNELL Products.

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

See page 26 for flange washer Adaptor and page 96 flange drilling specifications

Figure 71 Flange Adapters (AS2129 Table E)

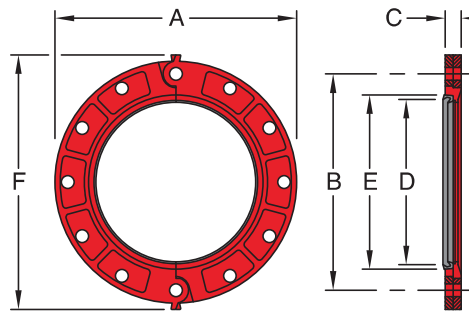
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The Figure 71 Flange Adapter is capable of pressures up to 300 psi (20,7 bar) depending on pipe size and wall thickness. It provides a direct transition from flanged components to a grooved piping system. I.P.S. size flange bolt patterns conform to AS2129 Table E.

The gasket seal is designed with an optimal amount of rubber to provide a dependable seal and to avoid the gasket pocket from overfilling, which may cause assembly difficulties.



Grooved
Couplings

Pipe Size		Max End Load † N Lbs.	Dimensions - mm Inches						Recommended Flange Mating Bolts ‡			Approx. Wt. kg Lbs
Nominal mm Inches	O.D. mm Inches		A	B	C	*D	*E	F	Size Dia. x Lg mm Inches	Qty.	Bolt Torque Range Nm Lbs.-ft.	
80	88,9	12,838	200,2	160,0	23,9	88,9	115,1	222,3	M16 x 76	8	149-190	2,9
3	3.500	2,886	7.88	6.30	0.94	3.50	4.53	8.75	—	8	—	6.4
100	114,3	21,222	228,6	180,1	23,9	114,3	140,5	251,5	M16 x 76	8	—	7.7
4	4.500	4,771	9.00	7.09	0.94	4.50	5.53	9.90	—	8	149-190	3,5
125	139.7	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
139.7mm	5.500	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
150	165.1	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
165.1mm	6.500	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
200	219.1	121,121	339,9	294,9	28,7	218,9	252,5	363,5	M20 x 89	12	298-339	6,8
8	8.625	27,229	13.38	11.61	1.13	8.62	9.94	14.31	—	12	—	15.0

♦ Contact GRINNELL for dimension details.

* Dimensions D and E represent minimum and maximum sealing surfaces.

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

‡ Mating Bolts and Nuts are not supplied. Flange Mating Bolts must be at least SAE J429, Grade 5 or stronger. Bolt lengths are standard; responsibility lies with the purchaser to verify the correct length for the intended application.

Maximum Pressure rating is 300 psi (20,7 bar).

For information on larger sizes, contact GRINNELL Products.

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

See page 26 for Flange Adapter Washers and page 96 Flange Drilling Specifications.