

Grinnell Grooved Fire Protection Products

Figure 71 Flange Adapter

General Description



The 71 Flange Adapter allows a direct transition from flanged components into a grooved piping system. Flange bolt patterns conform to ANSI Class 125 and 150 standards and PN16 as indicated.

WARNING

The Figure 71 Flange Adapter described herein must be installed and maintained in compliance with this document, as well as with the applicable standards of the National Fire Protection Association, in addition to the standards of any other authorities having jurisdiction. Failure to do so may impair the performance of this device. The owner is responsible for maintaining their fire protection system and devices in proper operating condition. The installing contractor or sprinkler manufacturer should be contacted with any questions.

Technical Data

Figure: 71
Sizes: 2" - 12"

Approvals: UL, FM, ULC, VdS, and LPCB;
See Fire Protection Submittal Sheet for exact Listing / Approval information.

Housing: Ductile iron conforming to ASTM A-536, Grade 65-45-12

Protective Coatings:

- Non-lead orange paint
- Fire brigade red (optional) non-lead paint
- Hot dipped galvanized conforming to ASTM A-153

Gasket: (specify when ordering)

- Grade "E" EPDM, green color code.

(See Data Sheet TFP1895 for aid in selecting proper gasket)

Ordering Procedure

When placing an order, indicate the full product name. Please specify the quantity, figure number, type of gasket, Grade "E" EPDM, and size. Grinnell Grooved Piping Products, valves, accessories and other products are available throughout the U.S., Canada, and internationally, through a network of distribution centers. You may write directly or call 215-362-0700 for the distributor nearest you.

Care and Maintenance

The owner is responsible for the inspection, testing, and maintenance of their fire protection system and devices in accordance with the applicable standards of the National Fire Protection Association (e.g., NFPA 25), in addition to the standards of any authority having jurisdiction. The installing contractor or product manufacturer should be contacted relative to any questions. Any impairment must be immediately corrected. It is recommended that automatic sprinkler systems be inspected, tested, and maintained by a qualified Inspection Service.

Limited Warranty

Products manufactured by Tyco Fire Products are warranted solely to the original Buyer for ten (10) years against defects in material and workmanship when paid for and properly installed and maintained under normal use and service. This warranty will expire ten (10) years from date of shipment by Tyco Fire Products. No warranty is given for products or components manufactured by companies not affiliated by ownership with Tyco Fire Products or for products and components which have been subject to misuse, improper installation, corrosion, or which have not been installed, maintained, modified or repaired in accordance with applicable Standards of the National Fire Protection Association (NFPA), and/or the standards of any other Authorities Having Jurisdiction. Materials found by Tyco Fire Products to be defective shall be either repaired or replaced, at Tyco Fire Products' sole option. Tyco Fire Products neither assumes, nor authorizes any person to assume for it, any other obligation in connection with the sale of products or parts of products. Tyco Fire Products shall not be responsible for sprinkler system design errors or inaccurate or incomplete information supplied by Buyer or Buyer's representatives.

IN NO EVENT SHALL TYCO FIRE PRODUCTS BE LIABLE, IN CONTRACT, TORT, STRICT LIABILITY OR UNDER ANY OTHER LEGAL THEORY, FOR INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LABOR CHARGES, REGARDLESS OF WHETHER TYCO FIRE PRODUCTS WAS INFORMED ABOUT THE POSSIBILITY OF SUCH DAMAGES, AND IN NO EVENT SHALL TYCO FIRE PRODUCTS' LIABILITY EXCEED AN AMOUNT EQUAL TO THE SALES PRICE.

THE FOREGOING WARRANTY IS MADE IN LIEU OF ANY AND ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Figure 71 Flange Adapter

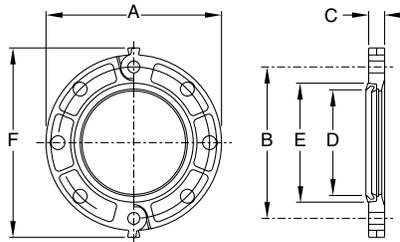


Figure 71 ANSI Calss 125 and 150

Pipe		Max † Pressure psi kPa	Max † End Load Lbs. N	Nominal Dimensions						Bolts ‡		Net Wt. lbs. kg
Nominal Size Inches	O.D. Inches mm			A Inches mm	B Inches mm	C Inches mm	*D Inches mm	*E Inches mm	F Inches mm	Size Dia. x Lg.	Qty.	
2	2.375 60.3	250 1,724	1,107 4,924	6.38 162.1	4.75 120.7	0.75 19.1	2.38 60.5	3.41 86.6	7.25 184.2	5/8" x 3"	4	3.0 1.4
2½	2.875 73.0	250 1,724	1,622 7,215	7.00 178.0	5.50 140.0	0.88 22.0	2.88 73.0	3.91 99.0	7.88 200.0	5/8" x 3"	4	5.0 2.3
3	3.500 88.9	250 1,724	2,404 10,693	7.50 190.5	6.00 152.4	0.94 23.9	3.50 88.9	4.53 115.1	9.88 251.0	5/8" x 3"	4	5.6 2.5
4	4.500 114.3	250 1,724	3,974 17,676	9.00 228.6	7.50 190.5	0.94 23.9	4.50 114.3	5.53 140.5	9.90 251.5	5/8" x 3"	8	7.0 3.2
5	5.563 141.3	250 1,724	6,073 27,013	10.00 254.0	8.50 215.9	1.00 25.4	5.56 141.2	6.72 170.7	11.38 289.1	¾" x 3½"	8	9.2 4.2
6	6.625 168.3	250 1,724	8,614 38,315	11.00 279.4	9.50 241.3	1.00 25.4	6.62 168.1	7.78 197.6	11.88 301.8	¾" x 3½"	8	10.0 4.5
8	8.625 219.1	250 1,724	14,599 64,936	13.50 342.9	11.75 298.5	1.13 28.7	8.62 218.9	9.94 252.5	14.38 365.3	¾" x 3½"	8	16.6 7.5
10	10.750 273.0	250 1,724	22,679 100,876	16.00 406.4	14.25 362.0	1.19 30.2	10.75 273.1	12.31 312.7	16.88 428.8	7/8" x 4"	12	21.8 9.9
12	12.750 323.9	250 1,724	31,903 141,905	19.00 482.6	17.00 431.8	1.25 31.8	12.75 323.9	14.31 363.5	20.00 508.0	7/8" x 4"	12	24.2 11.0

Figure 71 PN16

Pipe		Max † Pressure Bar	Max † End Load Lbs. N	Nominal Dimensions						Bolts ‡		Net Wt. lbs. kg
Nom. Size Inches mm	O.D. Inches mm			A Inches mm	B Inches mm	C Inches mm	*D Inches mm	*E Inches mm	F Inches mm	Size Dia. x Lg.	Qty.	
2" 50	60.3	16	1,028 4,573	6.38 162.1	4.92 125.0	0.75 19.1	2.38 60.5	3.41 86.6	7.25 184.2	M16 x 76	4	3.0 1.4
2½" 65	76.1	16	1,640 7,295	7.28 184.9	5.71 145.0	0.88 22.4	3.00 76.1	4.03 102.4	8.09 205.5	M16 x 76	4	5.6 2.5
3" 80	88.9	16	2,232 9,928	7.88 200.2	6.30 160.0	0.94 23.9	3.50 88.9	4.53 115.1	8.75 222.3	M16 x 76	8	6.6 3.0
4" 100	114.3	16	3,690 16,413	9.00 228.6	7.09 180.1	0.94 23.9	4.50 114.3	5.53 140.5	9.90 251.5	M16 x 76	8	7.0 3.2
5" 125	139.7	16	5,512 24,517	9.84 249.9	8.27 210.1	1.00 25.4	5.50 139.7	6.53 165.9	10.69 271.5	M16 x 89	8	9.2 4.2
6" 150	165.1	16	7,698 34,241	11.25 285.8	9.45 240.0	1.00 25.4	6.50 165.1	7.53 191.3	12.12 307.8	M20 x 89	8	10.0 4.5
6" 150	168.3	16	7,997 35,571	11.00 279.4	9.49 241.1	1.00 25.4	6.62 168.1	7.78 197.6	11.88 301.8	M20 x 89	8	10.0 4.5
8" 200	219.1	16	13,555 60,293	13.38 339.9	11.61 294.9	1.13 28.7	8.62 218.9	9.94 252.5	14.31 363.5	M20 x 89	12	16.6 7.5
10 273.0	273.0	16	21,057 93,662	16.00 406.4	13.98 355.1	1.19 30.2	10.75 273.1	12.31 312.7	16.88 428.8	M22 x 102	12	21.8 9.9
12" 300	323.9	16	29,621 131,754	18.12 460.2	16.14 410.0	1.25 31.8	12.75 323.9	14.31 363.9	19.19 487.4	M24 x 102	12	28.0 12.7

† 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 Tyco Fire Products for details. See Fire Protection Equipment Submittal Sheet for Listing and Approval pressure ratings.

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

‡ Bolts and Nuts are not supplied. Bolt lengths are standard; it is the responsibility of the purchaser to verify correct length for the intended application.

General Notes: It is the Designer's responsibility to select products suitable for the intended service and to ensure that pressure ratings and performance data is not exceeded. Always read and understand the installation instructions (IH-1000). Never remove any piping component or correct or modify any piping deficiencies without first depressurizing and draining the system. Material and gasket selection should be verified to be compatible for the specific application.



Certified Company