tyco / Fire & Building Products

Technical Services: Tel: (800) 381-9312 / Fax: (800) 791-5500

Pipe Fittings NPT Threaded, Ductile Iron

General Description

The Tyco® Series 800 Threaded Pipe Fittings and California Tees & Elbows are manufactured from ductile iron. They are stronger and more corrosion resistant than cast iron fittings. The additional strength is provided by the ductile properties and by adding magnesium while the iron is being poured into the final cast shape. Although lighter than standard cast iron, the fittings have an added advantage of being less susceptible to cracking due to their added strength.

The Series 800, California, and Figure 719 Threaded Pipe Fittings are a redesignation for the Central Series 800, California, and Figure 719 Threaded Pipe Fittings.

WARNINGS

The Threaded Pipe Fittings 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 these devices.***

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

Approvals:
UL Listed and FM Approved

Maximum Working Pressure:
Series 800 and California Fittings:
250 psi (17,2 bar)
Figure 719 Plug:
250 psi (17,2 bar)

Material:
Series 800 and California Fittings:
Ductile Iron
Figure 719 Plug:
Cast Iron

Pipe Thread:
NPT per ANSI B1.20.1

Installation

Apply Teflon† tape or high quality pipe joint compound on male pipe threads and tighten two to three turns beyond hand tight.

NOTE

Installers who have not used ductile iron threaded fittings should be instructed that the fittings are stronger than the pipe and overtightening the fitting can create leaks and cause damage to pipe threads. In general, there is about one-half turn difference between cast iron and ductile iron fittings. Apply Teflon tape or high quality pipe joint compound on the male pipe threads and tighten two to three turns beyond hand tight. If an automatic make-on machine is being used, please exercise caution in setting the machine to the proper parameters prior to tightening fittings onto the male pipe threads.

Limited Warranty

Products manufactured by Tyco Fire & Building Products (TFBP) 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 TFBP. No warranty is given for products or components manufactured by companies not affiliated by ownership with TFBP 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, and/or the standards of any other Authorities Having Jurisdiction. Materials found by TFBP to be defective shall be either repaired or replaced, at TFBP's sole option. TFBP neither assumes, nor authorizes any person to assume for it, any other obligation in connection with the sale of products or parts of products. TFBP 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 TFBP 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 TFBP was informed about the possibility of such damages, and in no event shall TFBP's 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.

This limited warranty sets forth the exclusive remedy for claims based on failure of or defect in products, materials or components, whether the claim is made in contract, tort, strict liability or any other legal theory.

This warranty will apply to the full extent permitted by law. The invalidity, in whole or part, of any portion of this warranty will not affect the remainder.

Ordering Procedure

When placing an order, indicate the full product name. Please specify the quantity, figure number, wall thickness, and size.

† registered trademark of E. I. du Pont de Nemours and Company or its affiliates.

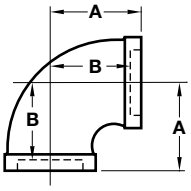


FIGURE 811
90° ELBOW

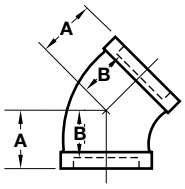


FIGURE 813
45° ELBOW

Nominal Pipe Size	Figure 811				Figure 813			
ANSI Inches DN	**A Inches (mm)**	**B Inches (mm)**	**Approx. Weight Lbs. (kg)**	**Part Number**	**A Inches (mm)**	**B Inches (mm)**	**Approx. Weight Lbs. (kg)**	**Part Number**
1/2 DN15	1.13 (28,7)	0.56 (14,2)	0.24 (0,11)	86206	0.88 (22,4)	0.38 (9,7)	0.22 (0,09)	86780
3/4 DN20	1.31 (33,3)	0.75 (19,0)	0.40 (0,18)	86205	1.00 (25,4)	0.44 (11,2)	0.33 (0,15)	86781
1 DN25	1.50 (38,1)	0.81 (20,6)	0.64 (0,29)	86200	1.13 (28,7)	0.81 (20,6)	0.48 (0,21)	86280
1-1/4 DN32	1.75 (44,5)	1.06 (26,9)	0.95 (0,43)	86201	1.31 (33,3)	0.63 (16,0)	0.73 (0,33)	86281
1-1/2 DN40	1.94 (49,3)	1.19 (30,2)	1.24 (0,56)	86202	1.44 (36,6)	0.69 (17,5)	0.93 (0,42)	86282
2 DN50	2.25 (57,1)	1.50 (38,1)	1.74 (0,79)	86203	1.68 (42,7)	0.94 (23,9)	1.55 (0,70)	86283
2-1/2 DN65	2.69 (68,3)	1.56 (39,6)	3.28 (1,49)	86204	1.94 (49,3)	1.00 (25,4)	2.70 (1,22)	86782

TABLE 1
NOMINAL DIMENSIONS FIGURES 811 & 813

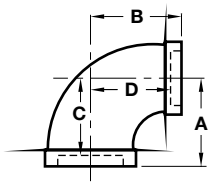


FIGURE 812
90° REDUCING ELBOW

Nominal Pipe Size	Figure 812					
ANSI Inches DN	A Inches (mm)	B Inches (mm)	C Inches (mm)	D Inches (mm)	Approx. Weight Lbs. (kg)	Part Number
3/4 x 1/2 DN20 x 15	1.19 (30,2)	1.19 (30,2)	0.63 (16,0)	0.63 (16,0)	0.33 (0,15)	86342
1 x 1/2 DN25 x 15	1.25 (31,8)	1.38 (35,1)	0.56 (14,2)	0.81 (20,6)	0.44 (0,20)	86210
1 x 3/4 DN25 x 20	1.38 (35,1)	1.44 (36,6)	0.69 (17,5)	0.88 (22,4)	0.53 (0,24)	86211
1-1/4 x 1/2 DN32 x 15	1.31 (33,3)	1.50 (38,1)	0.63 (16,0)	0.94 (23,9)	0.64 (0,29)	86212
1-1/4 x 3/4 DN32 x 20	1.44 (36,6)	1.63 (41,4)	0.75 (19,0)	1.06 (26,9)	0.75 (0,34)	86213
1-1/4 x 1 DN32 x 25	1.56 (39,6)	1.68 (42,7)	0.88 (22,4	1.00 (25,4)	0.77 (0,35)	86214
1-1/2 x 3/4 DN40 x 20	1.50 (38,1)	1.75 (44,4)	0.75 (19,0)	1.19 (30,2)	0.95 (0,43)	86221
1-1/2 x 1 DN40 x 25	1.63 (41,4)	1.81 (46,0)	0.88 (22,4)	1.13 (28,7)	0.99 (0,45)	86215
1-1/2 x 1-1/4 DN40 x 32	1.81 (46,0)	1.88 (47,8)	1.13 (28,7)	1.19 (30,2)	1.14 (0,52)	86216
2 x 3/4 DN50 x 20	1.63 (41,4)	1.94 (49,3)	0.88 (22,4)	1.38 (35,1)	1.39 (0,63)	86217
2 x 1 DN50 x 25	1.75 (44,4)	2.06 (52,3)	2.00 (50,8)	1.31 (33,3)	1.58 (0,72)	86218
2 x 1-1/2 DN50 x 40	2.00 (50,8)	2.19 (55,6)	1.25 (31,8)	1.44 (36,6)	1.67 (0,76)	86220
2-1/2 x 2 DN65 x 50	2.38 (60,5)	2.63 (66,8)	1.25 (31,8)	1.88 (47,8)	3.01 (1,36)	86262

TABLE 2
NOMINAL DIMENSIONS FIGURE 812

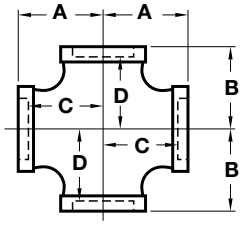


FIGURE 817
CROSS

Nominal Pipe Size	Figure 817					
ANSI Inches DN	**A Inches (mm)**	**B Inches (mm)**	**C Inches (mm)**	**D Inches (mm)**	**Approx. Weight Lbs. (kg)**	**Part Number**
1 DN25	1.50 (38,1)	1.50 (38,1)	0.81 (20,6)	0.81 (20,6)	0.97 (0,44)	86284
1-1/4 DN32	1.75 (44,4)	1.75 (44,4)	1.06 (26,9)	1.06 (27,0)	1.59 (0,72)	86285
1-1/2 DN40	1.94 (49,3)	1.94 (49,3)	1.19 (30,2)	1.19 (30,2)	1.89 (0,86)	86286
2 DN50	2.25 (57,1)	2.25 (57,1)	1.50 (38,1)	1.50 (38,1)	2.93 (1,33)	86287
1-1/4 x 1-1/4 x 1 x 1 DN32 x 32 x 25 x 25	1.69 (42,9)	1.56 (39,6)	1.00 (25,4)	0.88 (22,4)	1.25 (0,56)	86289
1-1/2 x 1-1/2 x 1 x 1 DN40 x 40 x 25 x 25	1.81 (46,0)	1.63 (41,4)	1.06 (26,9)	1.94 (49,3)	1.48 (0,71)	86322
2 x 2 x 1 x 1 DN50 x 50 x 25 x 25	2.00 (50,8)	1.75 (44,4)	1.25 (31,8)	1.06 (26,9)	2.64 (1,20)	86291

TABLE 3
NOMINAL DIMENSIONS FIGURE 817

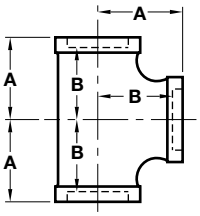


FIGURE 814
IRON TEE

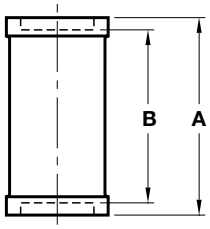


FIGURE 818
STRAIGHT COUPLING

Nominal Pipe Size	Figure 814				Figure 818			
ANSI Inches DN	**A Inches (mm)**	**B Inches (mm)**	**Approx. Weight Lbs. (kg)**	**Part Number**	**A Inches (mm)**	**B Inches (mm)**	**Approx. Weight Lbs. (kg)**	**Part Number**
1/2 DN15	1.13 (28,7)	0.56 (14,2)	0.33 (0,15)	86340	1.38 (35,1)	0.31 (7,9)	0.18 (0,08)	72779
3/4 DN20	1.31 (33,3)	0.75 (19,0)	0.50 (0,23)	86341	1.63 (41,4)	0.56 (14,0)	0.26 (0,11)	72778
1 DN25	1.50 (38,1)	0.81 (20,6)	0.85 (0,38)	86230	1.75 (44,4)	0.38 (9,7)	0.44 (0,20)	72755
1-1/4 DN32	1.75 (44,4)	1.06 (26,9)	1.30 (0,59)	86231	2.00 (50,8)	0.56 (14,0)	0.54 (0,24)	72754
1-1/2 DN40	1.94 (49,3)	1.19 (30,2)	1.63 (0,74)	86232	2.19 (55,6)	0.75 (19,0)	0.71 (0,32)	72753
2 DN50	2.25 (57,1)	1.50 (38,1)	2.63 (1,19)	86233	2.63 (66,8)	1.13 (28,7)	1.15 (0,52)	72752
2-1/2 DN65	2.69 (68,3)	1.56 (39,6)	4.55 (2,06)	86234	3.00 (76,2)	0.75 (19,0)	2.29 (1,04)	72758

TABLE 4
NOMINAL DIMENSIONS FIGURES 814 & 818

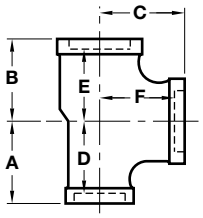


FIGURE 815
REDUCING TEE

Nominal Pipe Size	Figure 815							
ANSI Inches DN	A Inches (mm)	B Inches (mm)	C Inches (mm)	D Inches (mm)	E Inches (mm)	F Inches (mm)	Approx. Weight Lbs. (kg)	Part Number
3/4 x 3/4 x 1/2 DN20 x 20 x 15	1.19 (30,2)	1.19 (30,2)	1.25 (31,8)	0.63 (16,0)	0.63 (16,0)	0.69 (17,5)	0.46 (0,21)	86235
3/4 x 3/4 x 1 DN20 x 20 x 25	1.44 (36,6)	1.44 (36,6)	1.38 (35,1)	0.88 (22,4)	0.88 (22,4)	0.69 (17,5)	0.68 (0,31)	86755
1 x 1/2 x 1 DN25 x 15 x 25	1.50 (38,1)	1.38 (35,1)	1.50 (38,1)	0.81 (20,6)	0.81 (20,6)	0.81 (20,6)	0.70 (0,32)	86236
1 x 3/4 x 1/2 DN25 x 20 x 15	1.25 (31,8)	1.19 (30,2)	1.38 (35,1)	0.56 (14,2)	0.63 (16,0)	0.81 (20,6)	0.63 (0,28)	86756
1 x 3/4 x 3/4 DN25 x 20 x 20	1.38 (35,1)	1.31 (33,3)	1.44 (36,6)	0.69 (17,5)	0.75 (19,0)	0.88 (22,4)	0.68 (0,31)	86757
1 x 3/4 x 1 DN25 x 20 x 25	1.50 (38,1)	1.44 (36,6)	1.50 (38,1)	0.81 (20,6)	0.88 (22,4)	0.81 (20,6)	0.77 (0,35)	86237
1 x 1 x 1/2 DN25 x 25 x 15	1.25 (31,8)	1.25 (31,8)	1.38 (35,1)	0.56 (14,3)	0.56 (14,3)	0.81 (20,6)	0.66 (0,30)	86238
1 x 1 x 3/4 DN25 x 25 x 20	1.38 (35,1)	1.38 (35,1)	1.44 (36,6)	0.69 (17,5)	0.69 (17,5)	0.88 (22,4)	0.73 (0,33)	86239
1 x 1 x 1-1/4 DN25 x 25 x 32	1.69 (42,9)	1.69 (42,9)	1.56 (39,6)	1.00 (25,4)	1.00 (25,4)	0.88 (22,4)	0.97 (0,44)	86240
1 x 1 x 1-1/2 DN25 x 25 x 40	1.81 (46,0)	1.81 (46,0)	1.63 (41,4)	1.13 (28,6)	1.13 (28,6)	0.88 (22,4)	1.14 (0,52)	86241
1-1/4 x 1 x 1/2 DN32 x 25 x 15	1.94 (49,2)	1.25 (31,8)	1.56 (39,6)	0.63 (15,9)	0.56 (14,3)	1.00 (25,4)	0.81 (0,37)	86242
1-1/4 x 1 x 3/4 DN32 x 25 x 20	1.44 (36,6)	1.38 (35,1)	1.62 (41,2)	0.75 (19,0)	0.69 (17,5)	1.06 (27,0)	0.90 (0,41)	86243
1-1/4 x 1 x 1 DN32 x 25 x 25	1.56 (39,6)	1.50 (38,1)	1.69 (42,9)	0.88 (22,4)	0.81 (20,6)	1.00 (25,4)	1.03 (0,47)	86244
1-1/4 x 1 x 1-1/4 DN32 x 25 x 32	1.75 (44,4)	1.69 (42,9)	1.75 (44,4)	1.06 (27,0)	1.00 (25,4)	1.06 (27,0)	1.10 (0,50)	86245
1-1/4 x 1 x 1-1/2 DN32 x 25 x 40	1.88 (47,6)	1.81 (46,0)	1.81 (46,0)	1.19 (30,1)	1.13 (28,6)	1.06 (27,0)	1.43 (0,65)	86246
1-1/4 x 1-1/4 x 1/2 DN32 x 32 x 15	1.38 (35,1)	1.38 (35,1)	1.56 (39,6)	0.69 (17,5)	0.69 (17,5)	1.00 (25,4)	0.87 (0,39)	86247
1-1/4 x 1-1/4 x 3/4 DN32 x 32 x 20	1.44 (36,6)	1.44 (36,6)	1.63 (41,4)	0.75 (19,0)	0.75 (19,0)	1.06 (27,0)	0.96 (0,43)	86248
1-1/4 x 1-1/4 x 1 DN32 x 32 x 25	1.56 (39,6)	1.56 (39,6)	1.69 (42,9)	0.88 (22,4)	0.88 (22,4)	1.00 (25,4)	1.10 (0,50)	86249
1-1/4 x 1-1/4 x 1-1/2 DN32 x 32 x 40	1.88 (47,6)	1.88 (47,6)	1.81 (46,0)	1.81 (46,0)	1.81 (46,0)	1.06 (27,0)	1.50 (0,68)	86250
1-1/4 x 1-1/4 x 2 DN32 x 32 x 50	2.13 (54,1)	2.13 (54,1)	2.00 (50,8)	1.44 (36,6)	1.44 (36,6)	1.13 (28,6)	2.00 (0,91)	86251
1-1/2 x 1 x 1/2 DN40 x 25 x 15	1.44 (36,6)	1.31 (33,3)	1.69 (42,9)	0.69 (17,5)	0.63 (15,9)	1.13 (28,6)	0.97 (0,44)	86252
1-1/2 x 1 x 3/4 DN40 x 25 x 20	1.50 (38,1)	1.38 (35,1)	1.75 (44,4)	0.75 (19,0)	0.69 (17,5)	1.19 (30,2)	1.14 (0,52)	86253
1-1/2 x 1 x 1 DN40 x 25 x 25	1.63 (41,4)	1.50 (38,1)	1.81 (46,0)	0.88 (22,4)	0.81 (20,6)	1.13 (28,7)	1.14 (0,52)	86254
1-1/2 x 1 x 1-1/2 DN40 x 25 x 40	1.94 (49,3)	1.81 (46,0)	1.94 (49,2)	1.19 (30,2)	1.13 (28,6)	1.19 (30,2)	1.52 (0,69)	86255

TABLE 5 (1 OF 2)
NOMINAL DIMENSIONS FIGURE 815

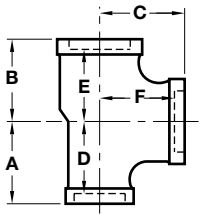


FIGURE 815
REDUCING TEE

Nominal Pipe Size	Figure 815							
ANSI Inches DN	**A Inches (mm)**	**B Inches (mm)**	**C Inches (mm)**	**D Inches (mm)**	**E Inches (mm)**	**F Inches (mm)**	**Approx. Weight Lbs. (kg)**	**Part Number**
1-1/2 x 1-1/4 x 1/2 DN40 x 32 x 15	1.44 (36,6)	1.31 (33,3)	1.69 (42,9)	0.69 (17,5)	0.63 (16,0)	1.13 (28,7)	1.03 (0,47)	86257
1-1/2 x 1-1/4 x 3/4 DN40 x 32 x 20	1.50 (38,1)	1.44 (36,6)	1.75 (44,5)	0.75 (19,0)	0.75 (19,0)	1.19 (30,1)	1.10 (0,50)	86258
1-1/2 x 1-1/4 x 1 DN40 x 32 x 25	1.63 (41,4)	1.56 (39,7)	1.81 (46,0)	0.88 (22,4)	0.88 (22,4)	1.13 (28,7)	1.31 (0,59)	86259
1-1/2 x 1-1/4 x 2 DN40 x 32 x 50	2.19 (55,6)	2.13 (54,1)	2.00 (50,8)	1.44 (36,6)	1.44 (36,6)	1.25 (57,1)	1.94 (0,88)	86260
1-1/2 x 1-1/2 x 1/2 DN40 x 40 x 15	1.44 (36,6)	1.44 (36,6)	1.69 (42,9)	0.69 (17,5)	0.69 (17,5)	1.13 (28,7)	1.14 (0,52)	86261
1-1/2 x 1-1/2 x 3/4 DN40 x 40 x 20	1.50 (38,1)	1.50 (38,1)	1.75 (44,4)	0.75 (19,0)	0.75 (19,0)	1.19 (30,1)	1.23 (0,56)	86262
1-1/2 x 1-1/2 x 1 DN40 x 40 x 25	1.63 (41,2)	1.63 (41,2)	1.81 (46,0)	0.88 (22,4)	0.88 (22,4)	1.13 (28,7)	1.38 (0,62)	86263
1-1/2 x 1-1/2 x 1-1/4 DN40 x 40 x 32	1.81 (46,0)	1.81 (46,0)	1.88 (47,6)	1.06 (27,0)	1.06 (27,0)	1.19 (30,1)	1.50 (0,68)	86264
1-1/2 x 1-1/2 x 2 DN40 x 40 x 50	2.19 (55,5)	2.19 (55,5)	2.00 (50,8)	1.44 (36,6)	1.44 (36,6)	1.25 (31,7)	2.00 (0,91)	86265
2 x 1 x 2 DN50 x 25 x 50	2.25 (57,2)	2.00 (50,8)	2.25 (57,2)	1.50 (38,1)	1.31 (33,3)	1.50 (38,1)	2.18 (0,99)	86266
2 x 1-1/4 x 2 DN50 x 32 x 50	2.25 (57,2)	2.13 (54,1)	2.25 (57,2)	1.50 (38,1)	1.44 (36,6)	1.50 (38,1)	2.31 (1,05)	86267
2 x 1-1/2 x 1/2 DN50 x 40 x 15	1.50 (38,1)	1.44 (36,6)	1.88 (47,8)	0.75 (19,0)	0.69 (17,5)	1.31 (33,3)	1.50 (0,68)	86268
2 x 1-1/2 x 3/4 DN50 x 40 x 20	1.63 (41,4)	1.50 (38,1)	1.94 (49,3)	0.88 (22,4)	0.75 (19,0)	1.38 (35,0)	1.61 (0,73)	86269
2 x 1-1/2 x 1 DN50 x 40 x 25	1.75 (44,5)	1.63 (41,4)	2.00 (50,8)	1.00 (25,4)	0.88 (22,4)	1.31 (33,3)	1.65 (0,75)	86270
2 x 1-1/2 x 1-1/2 DN50 x 40 x 40	2.06 (52,4)	1.94 (49,2)	2.19 (55,5)	1.31 (33,3)	1.19 (30,2)	1.44 (36,6)	2.03 (0,92)	86272
2 x 1-1/2 x 2 DN50 x 40 x 50	2.25 (57,1)	2.19 (55,5)	2.50 (63,5)	1.50 (38,1)	1.44 (36,6)	1.50 (38,1)	2.37 (1,07)	86273
2 x 2 x 1/2 DN50 x 50 x 15	1.50 (38,1)	1.50 (38,1)	1.88 (47,8)	0.75 (19,0)	0.75 (19,0)	1.31 (33,3)	1.50 (0,68)	86222
2 x 2 x 3/4 DN50 x 50 x 20	1.63 (41,4)	1.63 (41,4)	1.94 (49,3)	0.88 (22,4)	0.88 (22,4)	1.38 (35,0)	1.67 (0,76)	86223
2 x 2 x 1 DN50 x 50 x 25	1.75 (44,5)	1.75 (44,5)	2.00 (50,8)	1.00 (25,4)	1.00 (25,4)	1.31 (33,3)	1.91 (0,86)	86224
2 x 2 x 1-1/4 DN50 x 50 x 32	1.88 (47,8)	1.88 (47,8)	2.13 (54,1)	1.13 (28,7)	1.13 (28,7)	1.44 (36,6)	2.05 (0,93)	86225
2 x 2 x 1-1/2 DN50 x 50 x 40	2.00 (50,8)	2.00 (50,8)	2.19 (55,6)	1.25 (31,8)	1.25 (31,8)	1.50 (38,1)	2.11 (0,96)	86226
2 x 2 x 2-1/2 DN50 x 50 x 65	2.63 (66,8)	2.63 (66,8)	2.38 (60,5)	1.75 (44,5)	1.88 (47,8)	1.44 (36,6)	3.67 (1,66)	86227
2-1/2 x 2 x 3/4 DN65 x 50 x 20	1.75 (44,5)	1.63 (41,4)	2.31 (58,7)	0.63 (15,9)	0.88 (22,4)	1.75 (44,5)	2.22 (1,01)	86274

TABLE 5 (2 OF 2)
NOMINAL DIMENSIONS FIGURE 815

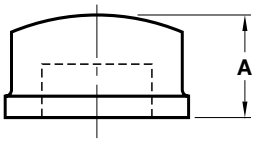


FIGURE 820
CAP

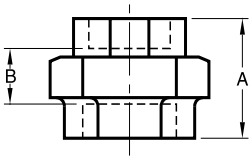


FIGURE 830
BRASS SEAT UNION

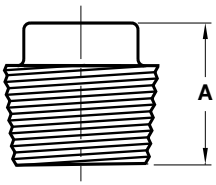


FIGURE 719
PLUG

Nominal Pipe Size	Figure 820			Figure 830				Figure 719		
ANSI Inches DN	**A Inches (mm)**	**Approx. Weight Lbs. (kg)**	**Part Number**	**A Inches (mm)**	**B Inches (mm)**	**Approx. Weight Lbs. (kg)**	**Part Number**	**A Inches (mm)**	**Approx. Weight Lbs. (kg)**	**Part Number**
1/2 DN15	0.88 (22,4)	0.15 (0,06)	72776	1.88 (47,8)	0.81 (20,6)	0.47 (0,21)	86207	0.94 (23,9)	0.10 (0,04)	86292
3/4 DN20	1.00 (25,4)	0.22 (0,10)	72777	2.00 (50,8)	0.94 (23,9)	0.66 (0,30)	86275	1.13 (28,7)	0.18 (0,08)	86293
1 DN25	1.18 (30,0)	0.33 (0,15)	72824	2.19 (55,6)	0.81 (20,6)	1.08 (0,49)	86276	1.25 (31,7)	0.28 (0,13)	86294
1-1/4 DN32	1.31 (33,3)	0.54 (0,24)	72756	2.50 (63,5)	1.06 (26,9)	1.54 (0,70)	86277	1.38 (35,1)	0.50 (0,23)	86295
1-1/2 DN40	1.38 (35,1)	0.68 (0,31)	72822	2.63 (66,8)	1.19 (30,2)	2.03 (0,92)	86278	1.44 (36,6)	0.70 (0,32)	86296
2 DN50	1.50 (38,1)	0.96 (0,43)	72823	3.13 (79,5)	1.63 (41,4)	3.15 (1,43)	86279	1.50 (38,1)	0.90 (0,41)	86297
2-1/2 DN65	1.75 (44,5)	1.80 (0,82)	72825	-	-	-	-	-	-	-

TABLE 6
NOMINAL DIMENSIONS FIGURES 820, 830 & 719

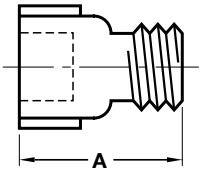


FIGURE 825
EXTENSION PIECE

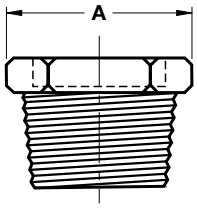


FIGURE 827
HEX BUSHING

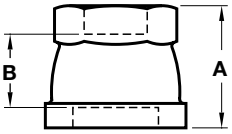
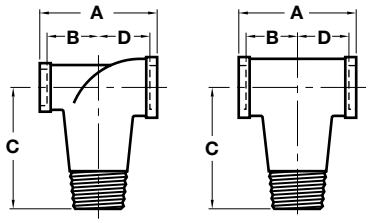


FIGURE 816
REDUCING COUPLING

Nominal Pipe Size	Figure 825 Extension Piece			Figure 827 Hex Bushing			Figure 816 Reducing Coupling			
ANSI Inches DN	**A Inches (mm)**	**Approx. Weight Lbs. (kg)**	**Part Number**	**A Inches (mm)**	**Approx. Weight Lbs. (kg)**	**Part Number**	**A Inches (mm)**	**B Inches (mm)**	**Approx. Weight Lbs. (kg)**	**Part Number**
1/2 x 1/2 DN15 x 15	1.50 (38,1)	0.20 (0,09)	72751	-	-	-	-	-	-	-
1/2 x 1/2 DN15 x 15	2.00 (50,8)	0.27 (0,12)	72980	-	-	-	-	-	-	-
3/4 x 3/4 DN20 x 20	1.50 (38,1)	0.22 (0,10)	72981	-	-	-	-	-	-	-
3/4 x 3/4 DN20 x 20	2.00 (50,8)	0.31 (0,14)	73982	-	-	-	-	-	-	-
3/4 x 1/2 DN20 x 15	-	-	-	-	-	-	1.75 (43,2)	0.69 (17,5)	0.38 (0,17)	86772
1 x 1/2 DN25 x 15	-	-	-	1.06 (26,9)	0.22 (0,10)	72726	1.69 (42,9)	0.50 (12,7)	0.38 (0,17)	86228
1 x 3/4 DN25 x 20	-	-	-	1.06 (26,9)	0.18 (0,08)	72762	1.75 (43,2)	0.50 (12,7)	0.53 (0,24)	86229
1-1/4 x 1 DN32 x 25	-	-	-	1.19 (30,2)	0.31 (0,14)	72763	-	-	-	-
1-1/2 x 1 DN40 x 25	-	-	-	1.25 (31,7)	0.53 (0,24)	72757	-	-	-	-
1-1/2 x 1-1/4 DN40 x 32	-	-	-	1.25 (31,7)	0.35 (0,10)	72764	-	-	-	-
2 x 1 DN50 x 25	-	-	-	1.38 (35,1)	0.75 (0,34)	72759	-	-	-	-
2 x 1-1/4 DN50 x 32	-	-	-	1.38 (35,1)	0.69 (0,31)	72761	-	-	-	-
2 x 1-1/2 DN50 x 40	-	-	-	1.38 (35,1)	0.62 (0,28)	72775	-	-	-	-

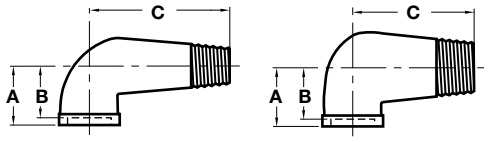
TABLE 7
NOMINAL DIMENSIONS FIGURE 825, 827 & 816



CALIFORNIA TEES

Nominal Pipe Size	California Tees					
ANSI Inches DN	**A Inches (mm)**	**B Inches (mm)**	**C Inches (mm)**	**D Inches (mm)**	**Approx. Weight Lbs. (kg)**	**Part Number**
1 x 1/2 x 1 DN25 x 15 x 25	1.50 (38,1)	0.88 (22,4)	3.00 (76,2)	0.75 (19,1)	0.95 (0,43)	42000
1 x 1 x 1 DN25 x 25 x 25	1.50 (38,1)	0.75 (19,1)	3.00 (76,2)	0.75 (19,1)	0.95 (0,43)	42001

TABLE 8
NOMINAL DIMENSIONS CALIFORNIA TEES



STREET ELBOWS

Nominal Pipe Size	Street Elbows				
ANSI Inches DN	**A Inches (mm)**	**B Inches (mm)**	**C Inches (mm)**	**Approx. Weight Lbs. (kg)**	**Part Number**
1 x 1/2 DN25 x 15	1.50 (38,1)	0.75 (19,1)	3.00 (76,2)	0.70 (0,32)	42003
1 x 1 DN25 x 25	1.50 (38,1)	0.75 (19,1)	3.00 (76,2)	0.90 (0,40)	42002

TABLE 9
NOMINAL DIMENSIONS STREET ELBOWS

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Worldwide Contacts | www.tyco-fire.com

GRINNELL G-FIRE
Grooved Fittings, Ductile Iron

General Description

GRINNELL G-FIRE Grooved Fittings provide an economical and efficient method of changing direction, adding an outlet, reducing, or capping piping systems. The G-FIRE grooved fittings are available in ductile iron or fabricated steel as indicated.

Note: *Figure 510S and 519S fittings are special short radius fittings with smaller center to end dimensions than standard grooved fittings. Depending on the size and coupling used, there may be interferences at the bolt pads that require repositioning of the coupling orientation. The use of flange adapters is not recommended with Figures 510S and 519S fittings. Contact Tyco Fire Protection Products for details.*

NOTICE

Never remove any piping component nor correct or modify any piping deficiencies without first de-pressurizing and draining the system. Failure to do so may result in serious personal injury, property damage, and/or impaired device performance.

It is the designer's responsibility to select products suitable for the intended service and to ensure that pressure ratings and performance data are not exceeded. Material and gasket selection should be verified to be compatible for the specific application. Always read and understand the installation instructions.

The GRINNELL G-FIRE Grooved Fittings described herein must be installed and maintained in compliance with this document, as well as with the applicable standards of the approval agency, in addition to the standards of any other authorities having jurisdiction. Failure to do so may result in serious personal injury or impair the performance of these devices.

The owner is responsible for maintaining their system and devices in proper operating condition. The installing contractor or device manufacturer should be contacted with any questions

Technical Data

Approvals
UL, FM, ULC, VdS, and LPCB.

Material
Cast: Ductile iron conforming to ASTM A536, Grade 65-45-12

Protective Coatings
- Non-lead orange paint
- RAL red or non-lead paint
- Hot dipped galvanized conforming to ASTM A153

Care and Maintenance

The following inspection procedure must be performed as indicated, in addition to any specific requirements of the NFPA. Any impairments must be immediately corrected.

Before closing a fire protection system main control valve for maintenance work on the fire protection system that it controls, obtain permission to shut down the affected fire protection system from the proper authorities and notify all personnel who may be affected by this decision.

The owner is responsible for the inspection, testing, and maintenance of their fire protection system and devices in compliance with this document, as well as 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.

For Fire Protection pressure rating, listing and approval information, contact Tyco Fire & Building Products.

10 YEAR LIMITED WARRANTY

Full warranty terms can be found on www.grinnell.com

Automatic sprinkler systems are recommended to be inspected, tested, and maintained by a qualified Inspection Service in accordance with local requirements and/or national codes.

After placing a fire protection system in service, notify the proper authorities and advise those responsible for monitoring proprietary and/or central station alarms.

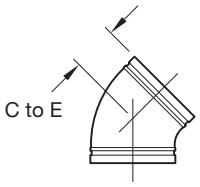


FIGURE 501
CAST 45° ELBOW

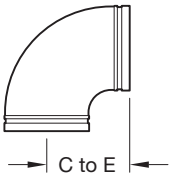


FIGURE 510
CAST 90° ELBOW

Nominal Pipe Size		Figure 501			Figure 510		
ANSI Inches DN	O.D. Inches (mm)	Nominal C to E Inches (mm)	Approx. Weight (Domestic) Lbs. (kg)	Approx. Weight (International) Lbs. (kg)	Nominal C to E Inches (mm)	Approx. Weight (Domestic) Lbs. (kg)	Approx. Weight (International) Lbs. (kg)
1-1/4 DN32	1.660 (42,4)	-	-	-	2.75 (69,9)	1.30 (0,59)	1.05 (0,48)
1-1/2 DN40	1.900 (48,3)	-	-	-	2.75 (69,9)	1.60 (0,73)	1.21 (0,55)
2 DN50	2.375 (60,3)	2.00 (50,8)	2.05 (0,93)	1.61 (0,73)	3.25 (82,6)	2.35 (1,07)	1.85 (0,84)
2-1/2 DN65	2.875 (73,0)	2.25 (57,2)	2.70 (1,22)	2.06 (0,93)	3.75 (95,3)	2.75 (1,25)	2.75 (1,25)
– DN65	3.000 (76,1)	2.25 (57,2)	2.80 (1,27)	2.13 (0,97)	3.75 (95,3)	3.80 (1,72)	2.89 (1,31)
3 DN80	3.500 (88,9)	2.50 (63,5)	3.95 (1,79)	2.94 (1,33)	4.25 (108,0)	3.98 (1,80)	3.98 (1,80)
4 DN100	4.500 (114,3)	3.00 (76,2)	6.30 (2,85)	4.64 (2,10)	5.00 (127,0)	6.34 (2,86)	6.34 (2,86)
– DN125	5.500 (139,7)	3.25 (82,6)	8.55 (3,88)	6.45 (2,93)	5.50 (139,7)	12.15 (5,51)	9.16 (4,15)
– DN150	6.500 (165,1)	3.50 (88,9)	11.75 (5,33)	8.79 (3,99)	6.50 (165,1)	17.45 (7,92)	13.05 (5,92)
6 DN150	6.625 (168,3)	3.50 (88,9)	12.40 (5,62)	9.04 (4,10)	6.50 (165,1)	13.49 (6,12)	13.49 (6,12)
8 DN200	8.625 (219,1)	4.50 (108,0)	21.65 (9,82)	14.61 (6,63)	7.75 (196,9)	32.25 (14,63)	21.77 (9,87)

FIGURE 1
NOMINAL DIMENSIONS FIGURES 501 AND 510

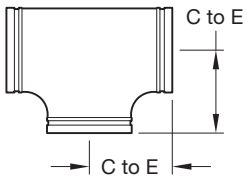


FIGURE 519
CAST TEE

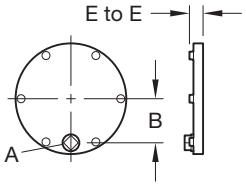


FIGURE 260
CAST END CAP

Nominal Pipe Size		Figure 519			Figure 260‡	
ANSI Inches DN	O.D. Inches (mm)	Nominal C to E Inches (mm)	Approx. Weight (Domestic) Lbs. (kg)	Approx. Weight (International) Lbs. (kg)	Nominal E to E Inches (mm)	Approx. Weight (Domestic) Lbs. (kg)
1 DN25	1.315 (33,4)	-	-	-	0.88 (22,4)	0.3 (0,1)
1-1/4 DN32	1.660 (42,4)	2.75 (69,9)	2.05 (0,93)	1.66 (0,73)	0.88 (22,4)	0.4 (0,2)
1-1/2 DN40	1.900 (48,3)	2.75 (69,9)	2.25 (1,56)	1.70 (0,77)	0.88 (22,4)	0.6 (0,3)
2 DN50	2.375 (60,3)	3.25 (82,6)	3.40 (1,54)	2.68 (1,22)	0.88 (22,4)	0.9 (0,4)
2-1/2 DN65	2.875 (73,0)	3.75 (95,3)	5.45 (2,47)	4.16 (1,89)	0.88 (22,4)	0.9 (0,4)
– DN65	3.000 (76,1)	3.75 (95,3)	5.55 (2,52)	4.22 (1,91)	0.94 (23,9)	1.1 (0,5)
3 DN80	3.500 (88,9)	4.25 (108,0)	8.00 (3,63)	5.95 (2,70)	0.88 (22,4)	1.1 (0,5)
4 DN100	4.500 (114,3)	5.00 (127,0)	9.32 (4,23)	9.32 (4,23)	1.00 (25,4)	2.6 (1,2)
– DN125	5.500 (139,7)	5.50 (139,7)	16.15 (7,72)	12.18 (5,52)	0.92 (23,4)	4.7 (2,1)
5 DN125	5.563 (141,3)	-	-	-	1.00 (25,4)	5.0 (2,3)
– DN150	6.500 (165,1)	6.50 (165,1)	25.25 (11,45)	12.89 (5,85)	1.00 (25,4)	7.5 (3,4)
6 DN150	6.625 (168,3)	6.50 (165,1)	26.90 (12,20)	19.61 (8,89)	1.00 (25,4)	7.5 (3,4)
8 DN200	8.625 (219,1)	7.75 (196,9)	45.35 (20,57)	30.61 (13.88)	1.19 (30,2)	12.8 (5,8)
10 DN250	10.750 (273,0)	-	-	-	1.25 (31,8)	20.0 (9,1)
12 DN300	12.750 (323,9)	-	-	-	1.25 (31,8)	36.0 (16,3)

‡ - Available with tapped plugs. Contact Tyco Fire Protection Products.

FIGURE 2
NOMINAL DIMENSIONS FIGURES 519 AND 260

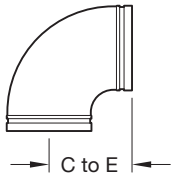


FIGURE 510S
90° ELBOW
SHORT PATTERN

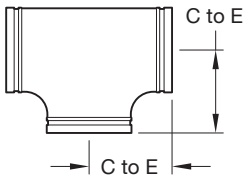


FIGURE 519S
TEE
SHORT PATTERN

Nominal Pipe Size		Figure 510S 90° Elbow			Figure 519S Tee		
ANSI Inches DN	O.D. Inches (mm)	Nominal C to E Inches (mm)	Approx. Weight (Domestic) Lbs. (kg)	Approx. Weight (International) Lbs. (kg)	Nominal C to E Inches (mm)	Approx. Weight (Domestic) Lbs. (kg)	Approx. Weight (International) Lbs. (kg)
2 DN50	2.375 (60,3)	2.75 (69,9)	1.85 (0,84)	1.85 (0,84)	2.75 (69,9)	2.65 (1,20)	2.65 (1,20)
2-1/2 DN65	2.875 (73,0)	3.00 (76,2)	2.55 (1,56)	2.55 (1,56)	3.00 (76,2)	3.55 (1,61)	3.55 (1,61)
- DN65	3.000 (76,1)	3.00 (76,2)	2.70 (1,22)	2.70 (1,22)	3.00 (76,2)	3.65 (1,66)	3.65 (1,66)
3 DN80	3.500 (88,9)	3.38 (85,9)	3.40 (1,54)	3.40 (1,54)	3.8 (85,9)	4.85 (2,20)	4.85 (2,20)
4 DN100	4.500 (114,3)	4.00 (101,6)	4.68 (2,12)	4.68 (2,12)	4.00 (101,6)	8.75 (3,97	6.45 (2,92)
139mm DN125	5.500 (139,7)	4.88 (124,0)	10.00 (4,54)	10.00 (4,54)	4.88 (124,0)	13.40 (6,08)	13.40 (6,08)
- DN150	6.500 (165,1)	5.50 (139,7)	12.03 (5,46)	12.03 (5,46)	5.50 (139,7)	16.55 (7,51)	16.55 (7,51))
6 DN150	6.625 (168,3)	5.50 (139,7)	12.25 (5,56)	12.25 (5,56)	5.50 (139,7)	16.65 (7,55)	16.65 (7,55)
8 DN200	8.625 (219,1)	6.88 (174,8)	25.00 (11,34)	16.88 (7,66)	6.88 (174,8)	33.60 (15,24)	22.68 (10,29)

FIGURE 3
NOMINAL DIMENSIONS FIGURES 510S AND 519S

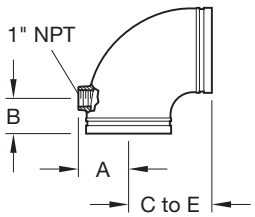
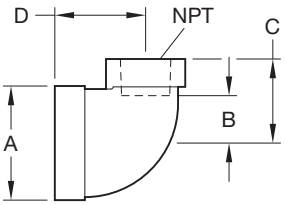


FIGURE 510DE
90° DRAIN ELBOW

Nominal Pipe Size		Figure 510DE 90° Drain Elbow			
ANSI Inches DN	O.D. Inches (mm)	Nominal C to E Inches (mm)	Nominal A Lbs. (kg)	Nominal B Inches (mm)	Approx. Weight Lbs. (kg)
2 DN50	2.375 (60,3)	3.75 (95,3)	2.00 50,8)	2.75 69,9)	2.7 (1,2)
2-1/2 DN65	2.875 (73,0)	3.75 (95,3)	2.00 50,8)	2.75 69,9)	3.8 (1,7)
3 DN80	3.500 (88,9)	4.25 (108,0)	2.34 59,4)	2.75 69,9)	5.8 (1,7)
4 DN100	4.500 (114,3)	5.00 (127,0)	2.85 (72,4)	2.75 69,9)	8.0 (3,6)
6 DN150	6.625 (168,3)	6.50 (165,1)	3.92 (99,6)	2.75 69,9)	17.6 (8,0)
8 DN200	8.625 (219,1)	7.75 (196,9)	4.95 (125,7)	2.75 69,9)	30.4 (13,8)

FIGURE 4
NOMINAL DIMENSIONS FIGURES 510DE



ADACAP

Nominal Pipe Size		Dimensions- Inches (mm)				Approx. Weight Lbs. (kg)
ANSI Inches DN	**Outlet NPT***	**A O.D.**	**B Takeout**	**C**	**D**	
1-1/2 DN40	1/2	1.900 (48,3)	1.25 (31,8)	1.75 (44,5)	1.89 (48,0)	0.77 (0,3)
	3/4		1.25 (31,8)	1.75 (44,5)	1.89 (48,0)	0.77 (0,3)
	1		1.37 (34,8)	2.00 (50,8)	2.02 (51,3))	0.88 (0,4)
2 DN50	1/2	2.375 (60,3)	1.25 (31,8)	1.75 (44,5)	1.89 (48,0)	9.2 (0,4)
	3/4		1.25 (31,8)	1.75 (44,5)	1.89 (48,0)	9.2 (0,4)
	1		1.37 (34,8)	2.00 (50,8)	2.02 (51,3)	1.06 (0,5)
2-1/2 DN65	1/2	2.875 (73,0)	1.47 (37,3)	1.97 (50,0)	1.89 (48,0)	1.28 (0,6)
	3/4		1.47 (37,3)	1.97 (50,0)	1.89 (48,0)	1.28 (0,6)
	1		1.37 (34,8)	2.00 (50,8)	2.02 (51,3)	1.50 (0,7)

*ISO threaded outlets are available upon request.
Rated pressure 300 psi (20,7 bar)

FIGURE 5
NOMINAL DIMENSIONS ADACAP

Friction Resistance					
Nominal Pipe Size		Elbows 90° Feet (m)	Elbows 45° Feet (m)	Tee* Branch Feet (m)	Tee Run Feet (m)
ANSI Inches DN	O.D. Inches (mm)				
1-1/4 DN32	1.660 (42,4)	1.9 (0,6)	1.0 (0,3)	4.8 (1,5)	1.9 (0,6)
1-1/2 DN40	1.900 (48,3)	2.3 (0,7)	1.2 (0,4)	5.8 (1,8)	2.3 (0,7)
2 DN50	2.375 (60,3)	3.2 (1,0)	1.6 (0,5)	8.0 (2,5)	3.2 (1,0)
2-1/2 DN65	2.875 (73,0)	3.9 (1,2)	2.0 (0,6)	9.8 (3,0)	3.9 (1,2)
– DN65	3.000 (76,1)	4.1 (1,2)	2.1 (0,6)	10.3 (3,1)	4.1 (1,2)
3 DN80	3.500 (88,9)	4.9 (1,5)	2.4 (0,7)	12.2 (3,7)	4.9 (1,5)
4 DN100	4.500 (114,3)	6.5 (2,0)	3.3 (1,0)	16.3 (5,0)	6.5 (2,0)
– DN125	5.500 (139,7)	8.0 (2,4)	4.1 (1,3)	20.0 (6,1)	8.0 (2,4)
5 DN125	5.563 (141,3)	8.2 (2,5)	4.1 (1,3)	20.5 (6,3)	8.2 (2,5)
– DN150	6.500 (165,1)	9.5 (2,9)	4.8 (1,4)	23.8 (7,2)	9.5 (2,9)
6 DN150	6.625 (168,3)	9.9 (3,0)	5.0 (1,5)	24.8 (7,6)	9.9 (3,0)
8 DN200	8.625 (219,1)	13.1 (4,0)	6.6 (2,0)	32.8 (10,0)	13.1 (4,0)
10 DN250	10.750 (273,0)	16.5 (5,0)	8.3 (2,5)	41.3 (12,6)	16.5 (5,0)
12 DN300	12.750 (323,9)	19.9 (6,1)	9.9 (3,0)	49.7 (15,1)	19.9 (6,1)

*For the reducing tee branches, use the value that is corresponding to the branch size.
Example:
For 8” x 8” x 2” tee, the branch value of 2” is 8.0 feet.
For sizes not listed interpolate from the values shown.

TABLE A
FRICTION RESISTANCE FOR
FIGURES 501, 510, 510DE AND 519
(EXPRESSED AS EQUIVALENT STRAIGHT PIPE)

Friction Resistance					
Nominal Pipe Size		Elbows 90° Feet (m)	Elbows 45° Feet (m)	Tee* Branch Feet (m)	Tee Run Feet (m)
ANSI Inches DN	O.D. Inches (mm)				
2 DN50	2.375 (60,3)	3.5 (1,1)	1.6 (0,5)	8.0 (2,4)	3.2 (1,0)
2-1/2 DN65	2.875 (73,0)	4.3 (1,3)	2.0 (0,6)	9.8 (3,0)	3.9 (1,2)
– DN65	3.000 (76,1)	4.3 (1,3)	2.1 (0,6)	10.3 (3,1)	4.1 (1,2)
3 DN80	3.500 (88,9)	5.0 (1,5)	2.4 (0,7)	12.2 (3,7)	4.9 (1,5)
4 DN100	4.500 (114,3)	6.7 (2,0)	3.3 (1,0)	16.3 (5,0)	6.5 (2,0)
– DN125	5.500 (139,7)	8.3 (2,5)	4.1 (1,2)	20.0 (6,1)	8.0 (2,4)
– DN150	6.500 (165,1)	9.6 (2,9)	4.8 (1,5)	23.8 (7,3)	9.5 (2,9)
6 DN150	6.625 (168,3)	10.0 (3,0)	5.0 (1,5)	24.8 (7,6)	9.9 (3,0)
8 DN200	8.625 (219,1)	13.1 (4,0)	6.6 (2,0)	32.8 (10,0)	13.0 (4,0)

TABLE B
FRICTION RESISTANCE FOR
FIGURES 501S, 510S, AND 519S
(EXPRESSED AS EQUIVALENT STRAIGHT PIPE)

Ordering Procedure

GRINNELL Products are available globally through a network of distribution centers. For the nearest distributor, visit www.grinnell.com. When placing an order, indicate the full product name.

Please specify the quantity, figure number, wall thickness, and size.

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Fire Sprinkler Pipe

Schedule 10 and Schedule 40

Submittal Data Sheet

FM Approved and Fully Listed Sprinkler Pipe
Wheatland's Schedule 10 and Schedule 40 steel fire sprinkler pipe is FM Approved and UL, C-UL and FM Listed.

Approvals and Specifications
Both products meet or exceed the following standards:

- ASTM A135, Type E, Grade A (Schedule 10)
- ASTM A795, Type E, Grade A (Schedule 40)
- NFPA 13

Manufacturing Protocols
Schedule 10 and Schedule 40 are subjected to the toughest possible testing protocols to ensure the highest quality and long-lasting performance.

Finishes and Coatings
All Wheatland black steel fire sprinkler pipe up to 6" receives a proprietary mill coating to ensure a clean, corrosion-resistant surface that outperforms and outlasts standard lacquer coatings. This coating allows the pipe to be easily painted, without special preparation. Schedule 10 and Schedule 40 can be ordered in black, or with hot-dip galvanizing, to meet FM/UL requirements for dry systems that meet the zinc coating specifications of ASTM A795 or A53. All Wheatland galvanized material is also UL Listed.

Product Marking
Each length of Wheatland fire sprinkler pipe is continuously stenciled to show the manufacturer, type of pipe, grade, size and length. Barcoding is acceptable as a supplementary identification method.

SCHEDULE 10 SPECIFICATIONS

NPS	NOM OD		NOM ID		NOMINAL WALL		NOMINAL WEIGHT		UL	PIECES
	in.	mm	in.	mm	in.	mm	lbs./ft.	kg/m	CRR*	Lift
1¼	1.660	42.2	1.442	36.6	.109	2.77	1.81	2.69	7.3	61
1½	1.900	48.3	1.682	42.7	.109	2.77	2.09	3.11	5.8	61
2	2.375	60.3	2.157	54.8	.109	2.77	2.64	3.93	4.7	37
2½	2.875	73.0	2.635	66.9	.120	3.05	3.53	5.26	3.5	30
3	3.500	88.9	3.260	82.8	.120	3.05	4.34	6.46	2.6	19
4	4.500	114.3	4.260	108.2	.120	3.05	5.62	8.37	1.6	19
5	5.563	141.3	5.295	134.5	.134	3.40	7.78	11.58	1.5	13
6	6.625	168.3	6.357	161.5	.134	3.40	9.30	13.85	1.0	10
8	8.625	219.1	8.249	209.5	.188	4.78	16.96	25.26	2.1	7

** Calculated using Standard UL CRR formula, UL Fire Protection Directory, Category VIZY.*
** The CRR is a ratio value used to measure the ability of a pipe to withstand corrosion. Threaded Schedule 40 steel pipe is used as the benchmark (value of 1.0).*

SCHEDULE 40 SPECIFICATIONS

NPS	NOM OD		NOM ID		NOMINAL WALL		NOMINAL WEIGHT		UL	PIECES
	in.	mm	in.	mm	in.	mm	lbs./ft.	kg/m	CRR*	Lift
1	1.315	33.4	1.049	26.6	.133	3.38	1.68	2.50	1.00	70
1¼	1.660	42.2	1.380	35.1	.140	3.56	2.27	3.39	1.00	51
1½	1.900	48.3	1.610	40.9	.145	3.68	2.72	4.05	1.00	44
2	2.375	60.3	2.067	52.5	.154	3.91	3.66	5.45	1.00	30

** Calculated using Standard UL CRR formula, UL Fire Protection Directory, Category VIZY.*
** The CRR is a ratio value used to measure the ability of a pipe to withstand corrosion. Threaded Schedule 40 steel pipe is used as the benchmark (value of 1.0).*

FM APPROVED

SUBMITTAL INFORMATION

PROJECT: _____ CONTRACTOR: _____ DATE: _____

ENGINEER: _____ SPECIFICATION REFERENCE: _____ SYSTEM TYPE: _____

LOCATIONS: _____ COMMENTS: _____

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Wheatland Tube 700 South Dock Street Sharon, PA 16146
P 800.257.8182 | **F** 724.346.7260 | info@wheatland.com | wheatland.com

Wheatland Tube
JMC STEEL GROUP