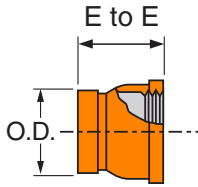


## FIG. 7087 GR X FPT

Female Thread Adapter



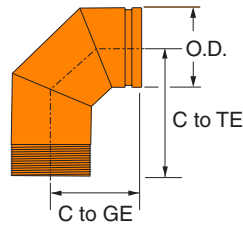
**FIGURE 7087 FEMALE THREAD ADAPTER**

| Nominal Size                        | Grooved End O.D. | End to End                           | Approx. Wt. Ea. |
|-------------------------------------|------------------|--------------------------------------|-----------------|
| In./DN(mm)                          | In./mm           | In./mm                               | Lbs./Kg         |
| 1<br>25                             | 1.315<br>33.4    | 2 <sup>1</sup> / <sub>16</sub><br>52 | 0.7<br>0.3      |
| 1 <sup>1</sup> / <sub>4</sub><br>32 | 1.660<br>42.2    | 2 <sup>5</sup> / <sub>16</sub><br>59 | 1.4<br>0.6      |
| 1 <sup>1</sup> / <sub>2</sub><br>40 | 1.900<br>48.3    | 2 <sup>5</sup> / <sub>16</sub><br>59 | 1.5<br>0.7      |
| 2<br>50                             | 2.375<br>60.3    | 2 <sup>1</sup> / <sub>2</sub><br>64  | 1.6<br>0.7      |
| 2 <sup>1</sup> / <sub>2</sub><br>65 | 2.875<br>73.0    | 2 <sup>3</sup> / <sub>4</sub><br>70  | 1.6<br>0.7      |
| 3<br>80                             | 3.500<br>88.9    | 2 <sup>3</sup> / <sub>4</sub><br>70  | 2.5<br>1.1      |
| 4<br>100                            | 4.500<br>114.3   | 3 <sup>1</sup> / <sub>4</sub><br>83  | 4.5<br>2.0      |

This product is not UL/ULC Listed or FM Approved.

## FIG. 7055 GR X MPT

90° Adapter Elbow

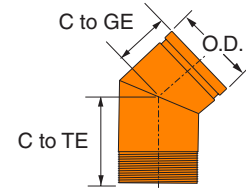


**FIGURE 7055 90° ADAPTER ELBOW**

| Nominal Size                        | Fitting O.D.   | Center to Grooved End                | Center to Threaded End               | Approx. Wt. Ea. |
|-------------------------------------|----------------|--------------------------------------|--------------------------------------|-----------------|
| In./DN(mm)                          | In./mm         | In./mm                               | In./mm                               | Lbs./Kg         |
| 1<br>25                             | 1.315<br>33.4  | 2 <sup>1</sup> / <sub>4</sub><br>57  | 2 <sup>1</sup> / <sub>4</sub><br>57  | 0.6<br>0.3      |
| 1 <sup>1</sup> / <sub>4</sub><br>32 | 1.660<br>42.2  | 2 <sup>3</sup> / <sub>4</sub><br>70  | 2 <sup>3</sup> / <sub>4</sub><br>70  | 1.0<br>0.5      |
| 1 <sup>1</sup> / <sub>2</sub><br>40 | 1.900<br>48.3  | 2 <sup>3</sup> / <sub>4</sub><br>70  | 2 <sup>3</sup> / <sub>4</sub><br>70  | 1.2<br>0.5      |
| 2<br>50                             | 2.375<br>60.3  | 3 <sup>1</sup> / <sub>4</sub><br>83  | 4 <sup>1</sup> / <sub>4</sub><br>108 | 2.3<br>1.0      |
| 2 <sup>1</sup> / <sub>2</sub><br>65 | 2.875<br>73.0  | 3 <sup>3</sup> / <sub>4</sub><br>95  | 3 <sup>3</sup> / <sub>4</sub><br>95  | 3.7<br>1.7      |
| 3<br>80                             | 3.500<br>88.9  | 4 <sup>1</sup> / <sub>4</sub><br>108 | 6<br>152                             | 6.5<br>2.9      |
| 3 <sup>1</sup> / <sub>2</sub><br>90 | 4.000<br>101.6 | 4 <sup>1</sup> / <sub>2</sub><br>114 | 6 <sup>1</sup> / <sub>4</sub><br>159 | 8.2<br>3.7      |
| 4<br>100                            | 4.500<br>114.3 | 5<br>127                             | 7 <sup>1</sup> / <sub>4</sub><br>184 | 11<br>5.0       |
| 6<br>150                            | 6.625<br>168.3 | 6 <sup>1</sup> / <sub>2</sub><br>165 | 6 <sup>1</sup> / <sub>2</sub><br>165 | 19.8<br>9.0     |

## FIG. 7056 GR X MPT

45° Adapter Elbow



**FIGURE 7056 45° ADAPTER ELBOW**

| Nominal Size                        | Fitting O.D.   | Center to Grooved End               | Center to Threaded End               | Approx. Wt. Ea. |
|-------------------------------------|----------------|-------------------------------------|--------------------------------------|-----------------|
| In./DN(mm)                          | In./mm         | In./mm                              | In./mm                               | Lbs./Kg         |
| 1<br>25                             | 1.315<br>33.4  | 1 <sup>3</sup> / <sub>4</sub><br>44 | 1 <sup>3</sup> / <sub>4</sub><br>44  | 0.6<br>0.3      |
| 1 <sup>1</sup> / <sub>4</sub><br>32 | 1.660<br>42.2  | 1 <sup>3</sup> / <sub>4</sub><br>44 | 1 <sup>3</sup> / <sub>4</sub><br>44  | 0.7<br>0.3      |
| 1 <sup>1</sup> / <sub>2</sub><br>40 | 1.900<br>48.3  | 1 <sup>3</sup> / <sub>4</sub><br>44 | 1 <sup>3</sup> / <sub>4</sub><br>44  | 0.8<br>0.4      |
| 2<br>50                             | 2.375<br>60.3  | 2<br>51                             | 3<br>76                              | 1.6<br>0.7      |
| 2 <sup>1</sup> / <sub>2</sub><br>65 | 2.875<br>73.0  | 2 <sup>1</sup> / <sub>4</sub><br>57 | 2 <sup>1</sup> / <sub>4</sub><br>57  | 2.2<br>1.0      |
| 3<br>80                             | 3.500<br>88.9  | 2 <sup>1</sup> / <sub>2</sub><br>64 | 4 <sup>1</sup> / <sub>4</sub><br>108 | 4.3<br>2.0      |
| 3 <sup>1</sup> / <sub>2</sub><br>90 | 4.000<br>101.6 | 2 <sup>3</sup> / <sub>4</sub><br>70 | 2 <sup>3</sup> / <sub>4</sub><br>70  | 4.2<br>1.9      |
| 4<br>100                            | 4.500<br>114.3 | 3<br>76                             | 5 <sup>1</sup> / <sub>4</sub><br>133 | 7.5<br>3.4      |
| 6<br>150                            | 6.625<br>168.3 | 3 <sup>1</sup> / <sub>2</sub><br>89 | 3 <sup>1</sup> / <sub>2</sub><br>89  | 11.1<br>5.0     |



For Listings/Approval Details and Limitations, visit our website at [www.anvilintl.com](http://www.anvilintl.com) or contact an Anvil® Sales Representative.

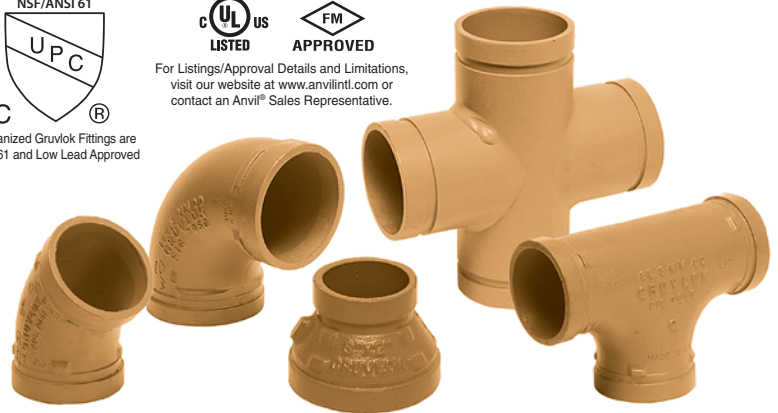
| PROJECT INFORMATION |  | APPROVAL STAMP                             |  |
|---------------------|--|--|--|
| Project:            |  | <input type="checkbox"/> Approved          |  |
| Address:            |  | <input type="checkbox"/> Approved as noted |  |
| Contractor:         |  | <input type="checkbox"/> Not approved      |  |
| Engineer:           |  | Remarks:                                   |  |
| Submittal Date:     |  |  |  |
| Notes 1:            |  |  |  |
| Notes 2:            |  |  |  |

Gruvlok fittings are available through 24" nominal pipe size in a variety of styles. Use the Fitting Size Table to convert nominal pipe size to corresponding pipe O.D.

These fittings are designed to provide minimum pressure drop and uniform strength.

Depending on styles and size, Gruvlok fittings are provided in various materials including ductile iron, forged steel or fabricated steel.

Pressure ratings of Gruvlok standard fittings conform to those of Fig. 7001 Gruvlok coupling.



## FLOW DATA – FRICTIONAL RESISTANCE (EXPRESSED AS EQUIVALENT STRAIGHT PIPE)

| Nom. Size  | O.D.   | Pipe Wall Thickness | Elbow |       | Tee    |       |
|------------|--------|---------------------|-------|-------|--------|-------|
|            |        |                     | 90°   | 45°   | Branch | Run   |
| In./DN(mm) | In./mm | In./mm              | Ft./m | Ft./m | Ft./m  | Ft./m |
| 1          | 1.315  | 0.133               | 1.7   | 0.9   | 4.4    | 1.7   |
| 25         | 33.4   | 3.4                 | 0.5   | 0.3   | 1.3    | 0.5   |
| 1¼         | 1.660  | 0.140               | 2.3   | 1.2   | 5.8    | 2.3   |
| 32         | 42.2   | 3.6                 | 0.7   | 0.4   | 1.8    | 0.7   |
| 1½         | 1.900  | 0.145               | 2.7   | 1.3   | 6.7    | 2.7   |
| 40         | 48.3   | 3.7                 | 0.8   | 0.4   | 2.0    | 0.8   |
| 2          | 2.375  | 0.154               | 3.4   | 1.7   | 8.6    | 3.4   |
| 50         | 60.3   | 3.9                 | 1.0   | 0.5   | 2.6    | 1.0   |
| 2½         | 2.875  | 0.203               | 4.1   | 2.1   | 10.3   | 4.1   |
| 65         | 73.0   | 5.2                 | 1.2   | 0.6   | 3.1    | 1.2   |
| 3 O.D.     | 2.996  | 0.197               | 4.3   | 2.2   | 10.8   | 4.3   |
| 76.1       | 76.1   | 5.0                 | 1.3   | 0.7   | 3.3    | 1.3   |
| 3          | 3.500  | 0.216               | 5.1   | 2.6   | 12.8   | 5.1   |
| 80         | 88.9   | 5.5                 | 1.6   | 0.8   | 3.9    | 1.6   |
| 4¼ O.D.    | 4.250  | 0.220               | 6.4   | 3.2   | 16.1   | 6.4   |
| 108.0      | 108.0  | 5.6                 | 2.0   | 1.0   | 4.9    | 2.0   |
| 4          | 4.500  | 0.237               | 6.7   | 3.4   | 16.8   | 6.7   |
| 100        | 114.3  | 6.0                 | 2.0   | 1.0   | 5.1    | 2.0   |
| 5¼ O.D.    | 5.236  | 0.248               | 8.0   | 4.0   | 20.1   | 8.0   |
| 133.0      | 133.0  | 6.3                 | 2.4   | 1.2   | 6.1    | 2.4   |
| 5½ O.D.    | 5.500  | 0.248               | 8.3   | 4.2   | 20.9   | 8.3   |
| 139.7      | 139.7  | 6.3                 | 2.5   | 1.3   | 6.4    | 2.5   |
| 5          | 5.563  | 0.258               | 8.4   | 4.2   | 21.0   | 8.4   |
| 125        | 141.3  | 6.6                 | 2.6   | 1.3   | 6.4    | 2.6   |
| 6¼ O.D.    | 6.259  | 0.280               | 9.7   | 4.9   | 24.3   | 9.7   |
| 159.0      | 159.0  | 7.1                 | 3.0   | 1.5   | 7.4    | 3.0   |
| 6½ O.D.    | 6.500  | 0.280               | 10.0  | 5.0   | 24.9   | 10.0  |
| 165.1      | 165.1  | 7.1                 | 3.0   | 1.5   | 7.6    | 3.0   |
| 6          | 6.625  | 0.280               | 10.1  | 5.1   | 25.3   | 10.1  |
| 150        | 168.3  | 7.1                 | 3.1   | 1.6   | 7.7    | 3.1   |
| 8          | 8.625  | 0.322               | 13.3  | 6.7   | 33.3   | 13.3  |
| 200        | 219.1  | 8.2                 | 4.1   | 2.0   | 10.1   | 4.1   |
| 10         | 10.750 | 0.365               | 16.7  | 8.4   | 41.8   | 16.7  |
| 250        | 273.1  | 9.3                 | 5.1   | 2.6   | 12.7   | 5.1   |
| 12         | 12.750 | 0.375               | 20.0  | 10.0  | 50.0   | 20.0  |
| 300        | 323.9  | 9.5                 | 6.1   | 3.0   | 15.2   | 6.1   |
| 14         | 14.000 | 0.375               | 22.2  | 11.7  | 64.2   | 22.9  |
| 350        | 355.6  | 9.5                 | 6.8   | 3.4   | 19.6   | 7.0   |
| 16         | 16.000 | 0.375               | 25.5  | 12.4  | 73.9   | 26.4  |
| 400        | 406.4  | 9.5                 | 7.8   | 4.0   | 22.5   | 8.0   |
| 18         | 18.000 | 0.375               | 28.9  | 14.1  | 87.2   | 31.1  |
| 450        | 457.2  | 9.5                 | 8.8   | 4.4   | 26.6   | 9.5   |
| 20         | 20.000 | 0.375               | 32.2  | 15.7  | 97.3   | 34.8  |
| 500        | 508.0  | 9.5                 | 9.8   | 4.9   | 29.7   | 10.6  |
| 24         | 24.000 | 0.375               | 38.9  | 19.1  | 113.0  | 40.4  |
| 600        | 609.6  | 9.5                 | 11.9  | 5.9   | 34.4   | 12.3  |

For the reducing tee and branches, use the value that is corresponding to the branch size. For example: for 6" x 6" x 3" tee, the branch value of 3" is 12.8 ft (3.9).

## MATERIAL SPECIFICATIONS

### CAST FITTINGS:

Ductile iron conforming to ASTM A 536, Grade 65-45-12  
Malleable iron conforming to ASTM A 47

### FABRICATED FITTINGS:

1-12" Carbon steel, Schedule 40, conforming to ASTM A 53, Grade B  
14-24" Carbon steel, 0.375 wall, conforming to ASTM A 53, Grade B

### COATINGS:

Rust inhibiting paint – Color: ORANGE (standard)  
Hot Dipped Zinc Galvanized conforming to ASTM A 153 (optional)  
Other Colors Available (IE: RAL3000 and RAL9000)

| FITTING SIZE |        |              |        |
|--------------|--------|--------------|--------|
| Nominal Size | O.D.   | Nominal Size | O.D.   |
| In./DN(mm)   | In./mm | In./DN(mm)   | In./mm |
| 1            | 1.315  | 5            | 5.563  |
| 25           | 33.4   | 140          | 141.3  |
| 1¼           | 1.660  | 6¼ O.D.      | 6.259  |
| 32           | 42.4   | 159.0        | 159.0  |
| 1½           | 1.900  | 6½ O.D.      | 6.500  |
| 40           | 48.3   | 165.1        | 165.1  |
| 2            | 2.375  | 6            | 6.625  |
| 50           | 60.3   | 150          | 168.3  |
| 2½           | 2.875  | 8            | 8.625  |
| 65           | 73.0   | 200          | 219.1  |
| 3 O.D.       | 2.996  | 10           | 10.750 |
| 76.1         | 76.1   | 250          | 273.0  |
| 3            | 3.500  | 12           | 12.750 |
| 80           | 88.9   | 300          | 323.9  |
| 3½           | 4.000  | 14           | 14.000 |
| 90           | 101.6  | 350          | 355.6  |
| 4¼ O.D.      | 4.250  | 16           | 16.000 |
| 108.0        | 108.0  | 400          | 406.4  |
| 4            | 4.500  | 18           | 18.000 |
| 100          | 114.3  | 450          | 457.2  |
| 5¼ O.D.      | 5.236  | 20           | 20.000 |
| 133.0        | 133.0  | 500          | 508.0  |
| 5½ O.D.      | 5.500  | 24           | 24.000 |
| 139.7        | 139.7  | 600          | 609.6  |

The Fitting Size Chart is used to determine the O.D. of the pipe that the fittings is to be used with. Gruvlok Fittings are identified by either the Nominal size in inches or the Pipe O.D. in/mm.