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## Figures 407GT, 407T and 407GG Dielectric Waterway Fittings

### General Description

Figure 407GT and Figure 407T CLEARFLOW Dielectric Waterway Fittings (Figure 1) protect plumbing systems through an innovative steel-to-plastic design that establishes a dielectric waterway. These dielectric fittings separate dissimilar metals in the electrolyte (waterway) eliminating the local galvanic cell.

The metal-to-metal joint design maintains external electrical continuity, thereby preventing stray current corrosion. This feature is critical when stray current is present due to grounding of direct current (DC) sources, such as phone systems and appliances.

Figure 407GG GRINNELL Dielectric Transition Fitting (Figure 2) provides a direct transition between a grooved end steel pipe (IPS) and grooved end copper tubing. The internal lining effectively eliminates galvanic local cell and stray current problems. For pipe and tube grooving dimensions see Technical Data Sheets G710 and G720.

#### 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 for compatibility with the specific application. Always read and understand the installation instructions.*

*The Figure 407GT, 407T CLEARFLOW, and 407GG GRINNELL Dielectric Waterway Fittings described herein must be installed and maintained in compliance with this document, in addition to the standards of any 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 mechanical system and devices in proper operating condition. Contact the installing contractor or product manufacturer with any questions.*

### Technical Data

#### Approvals

NSF-61 Certified  
IAPMO UPC Certified

#### Pressure Ratings

Up to 300 psi (20,7 bar)

#### Temperature Ratings

CLEARFLOW dielectric fittings meet the requirements of ASTM Standard F492 for continuous use at temperatures up to 230°F (110°C).

407GG GRINNELL Dielectric Fitting is designed for use at temperatures from -40°F to 230°F (-40°C to 100°C)

**For CLEARFLOW only** - Test Data/Results and Listings Data by Pittsburgh Testing Laboratory can be provided upon request.

Additional test data/results by Professional Services Industries, Inc., inclusive of the 407GG, can be provided upon request.



407T

407GT



407GG



For fire protection pressure rating, listing and approval information, contact your Grinnell representative.

**10  
YEAR  
LIMITED  
WARRANTY**

For warranty terms and conditions, visit  
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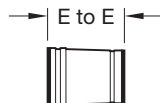
**FIGURE 407GT**  
**GROOVE x MALE THREAD**



**FIGURE 407T**  
**MALE THREAD x THREAD**

Nominal Pipe Size		407GT Grooved x Male Thread		407T Male Thread x Male Thread	
ANSI Inches DN	Pipe O.D. Inches mm	Nominal E to E Inches mm	Approx. Weight Lbs. kg	Nominal E to E Inches mm	Approx. Weight Lbs. kg
1/2 15	0.840 21,3	—	—	3.0 76,2	0.2 0,1
3/4 20	1.050 26,7	—	—	3.0 76,2	0.2 0,1
1 25	1.315 33,7	4.0 101,6	0.3 0,1	4.0 101,6	0.3 0,1
1-1/4 32	1.660 42,4	4.0 101,6	0.6 0,3	4.0 101,6	0.6 0,3
1-1/2 40	1.900 48,3	4.0 101,6	0.8 0,4	4.0 101,6	0.8 0,4
2 50	2.375 60,3	4.0 101,6	1.0 0,5	4.0 101,6	1.0 0,5
2-1/2 65	2.875 73,0	6.0 152,4	1.6 0,7	6.0 152,4	1.6 0,7
3 80	3.500 88,9	6.0 152,4	2.0 0,9	6.0 152,4	2.0 0,9
3-1/2 90	4.000 101,6	6.0 152,4	2.3 1,0	6.0 152,4	2.3 1,0
4 100	4.500 114,3	6.0 152,4	4.5 2,0	6.0 152,4	4.5 2,0

**FIGURE 1**  
**FIGURES 407GT & 407T CLEARFLOW DIELECTRIC WATERWAY FITTINGS**  
**NOMINAL DIMENSIONS**



**FIGURE 407GG**  
**GROOVE x GROOVE**

Nominal Pipe Size ANSI Inches DN	Actual Pipe and Tube O.D.		407GG Grooved x Grooved	
	Steel Pipe Inches mm	Copper Tubing Inches mm	E to E Inches mm	Approx. Weight Lbs. kg
2 50	2.375 60,3	2.125 54,0	4.00 102	1.3 0,6
2-1/2 65	2.875 73,0	2.625 66,7	4.00 102	1.9 0,9
3 80	3.500 88,9	3.125 79,4	4.00 102	2.9 1,3
4 100	4.500 114,3	4.125 104,8	4.00 102	3.3 1,5
5 125	5.563 141,3	5.125 130,2	4.00 102	5.2 2,4
6 150	6.625 168,3	6.125 155,6	4.00 102	6.9 3,1
8 200	8.625 219,1	8.125 206,4	4.00 102	9.4 4,3

**NOTES:**

Field Joint Test: For one time only the system may be tested hydrostatically at 1-1/2 times the maximum working pressure listed.

**FIGURE 2**  
**FIGURE 407GG GRINNELL DIELECTRIC WATERWAY FITTING**  
**NOMINAL DIMENSIONS**

## Ordering Procedure

GRINNELL Products are available globally through a network of distribution centers. For the nearest distributor visit [www.grinnell.com](http://www.grinnell.com).

When placing an order, indicate the full product name, quantity, and size.

