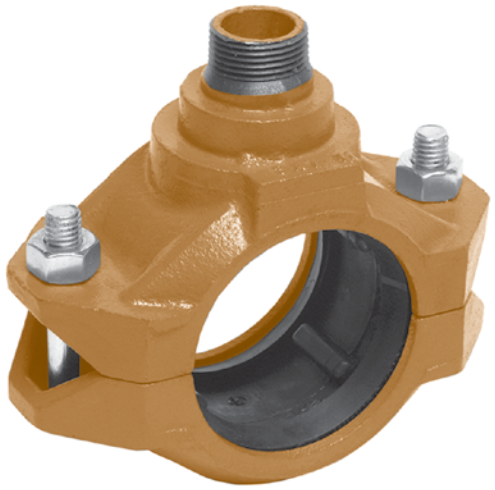
# FIG. 7042
## Outlet Coupling

The Gruvlok Fig. 7042 Outlet Coupling is designed to join two sections of grooved end pipe and form a reducing outlet connection. The outlet couplings are available for the 1 1/2" through 6" IPS or ISO run pipe sizes with the outlet pipe sizes ranging from 1/2" through 2".

Assembly of the coupling will create a gap between the pipe ends allowing the space required for the introduction of an outlet connection. The outlet connections are available grooved (Fig. 7042G), FPT (Fig. 7042F) and MPT (Fig. 7042M).

The gaskets are available in EPDM and Nitrile to suit a wide range of applications. The gasket design is a unique pressure responsive design that provides a higher sealing force as pressure is increased. The outlet gasket seal is reinforced by a steel ring and is mated to a machined housing surface to assure a leak-tight outlet seal. Center ribs inside the gasket ease positioning of the pipe during installation and provide additional support to the gasket. The outlet couplings are NOT recommended for vacuum applications or for use with beveled end pipe.



The Figure 7074 Cast Caps are **NOT** recommended for use on run connections. Figure 7075 Bull Plugs must be used on end of line run connections. Figure 7074 Cast Caps may be used on Figure 7042G outlet connections. Flow into the outlet connection of the Figure 7042 Outlet Couplings must not exceed 7 ft./sec.

## MATERIAL SPECIFICATIONS

**ANSI BOLTS & HEAVY HEX NUTS:**
Heat treated, oval neck track head bolts conforming to ASTM A 183 Grade 2 with a minimum tensile strength of 110,000 psi and heavy hex nuts of carbon steel conforming to ASTM A 563 Grade A or Grade B, or J995 Grade 2. Bolts and nuts are provided zinc electroplated as standard.

**METRIC BOLTS & HEAVY HEX NUTS:**
Heat treated, zinc electroplated oval-neck track head bolts made of carbon steel with mechanical properties per ISO 898-1 Class 8.8. Hex nuts are zinc electroplated followed by a yellow chromate dip.

**STAINLESS STEEL BOLTS & NUTS:**
304SS Stainless Steel bolts and nuts are available as a standard option. (316SS are available for special order).

**HOUSING:**
Ductile Iron conforming to ASTM A 536, Grade 65-45-12.

**COATINGS:**
Rust inhibiting paint – Color: ORANGE (standard)
Hot Dipped Zinc Galvanized (optional)
Other Colors Available (IE: RAL3000 and RAL9000)
For other Coating requirements contact an Anvil Representative.

**GASKETS: Materials**
Properties as designated in accordance with ASTM D 2000

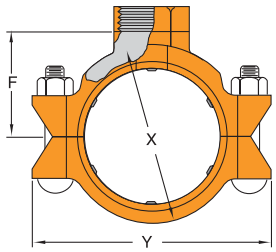
**Grade "E" EPDM** (Green color code)
-40°F to 150°F (Service Temperature Range)(-40°C to 66°C)
Recommended for water service, diluted acids, alkalies solutions, oil-free air and many other chemical services.
NOT FOR USE IN PETROLEUM APPLICATIONS.

**Grade "T" Nitrile** (Orange color code)
-20°F to 150°F (Service Temperature Range)(-29°C to 66°C)
Recommended for petroleum applications. air with oil vapor and vegetable and mineral oils.
NOT FOR USE IN HOT WATER OR HOT AIR.

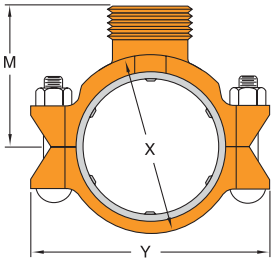
**LUBRICATION:**
Standard Gruvlok
Gruvlok Xtreme™(Do Not use with Grade "L")

# FIG. 7042

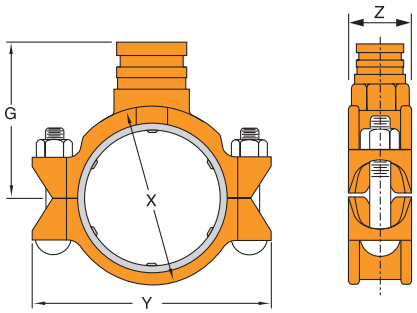
## Outlet Coupling



Female IPS Outlet- 7042F



Male IPS Outlet - 7042M



Grooved Outlet - 7042G

**FIGURE 7042 - OUTLET COUPLING**

| Nominal Pipe Size | | | Working Pressure | Max. Run End Load | Range of Pipe End Separation | Coupling Dimensions | | | | | | Bolt Size | Approx. Wt. Each |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Run | Outlet | | | | | X | Y | Z | FPT F | MPT M | Grv. G | | |
| | FPT F | MPT/Grv. M/G | | | | | | | | | | | |
| *In./DN(mm)* | *In./mm* | *In./mm* | *PSI/bar* | *Lbs./kN* | *In./mm* | *In./mm* | *In./mm* | *In./mm* | *In./mm* | *In./mm* | *In./mm* | *In./mm* | *Lbs./Kg* |
| | ½ | — | 500 | 1418 | ¾-1 1/16 | 2 15/16 | 4¾ | 2¾ | 2 1/16 | — | — | ⅜ x 2⅛ | 2.6 |
| | *15* | — | *34.5* | *6.31* | *19-27* | *75* | *121* | *70* | *52* | — | — | - | *1.2* |
| 1½ | ¾ | — | 500 | 1418 | ¾-1 1/16 | 2 15/16 | 4¾ | 2¾ | 2 1/16 | — | — | ⅜ x 2⅛ | 2.6 |
| *40* | *20* | — | *34.5* | *6.31* | *19-27* | *75* | *121* | *70* | *52* | — | — | - | *1.2* |
| | 1 | — | 500 | 1418 | ¾-1 1/16 | 2 15/16 | 4¾ | 2¾ | 1 15/16 | — | — | ⅜ x 2⅛ | 2.9 |
| | *25* | — | *34.5* | *6.31* | *19-27* | *75* | *121* | *70* | *49* | — | — | - | *1.3* |
| | ½ | — | 500 | 2215 | 1 1/16-1 | 3 7/16 | 5¼ | 2¾ | 2 5/16 | — | — | ⅜ x 2⅛ | 3.1 |
| | *15* | — | *34.5* | *9.85* | *17-25* | *87* | *133* | *70* | *59* | — | — | - | *1.4* |
| 2 | ¾ | — | 500 | 2215 | 1 1/16-1 | 3 7/16 | 5¼ | 2¾ | 2 5/16 | — | — | ⅜ x 2⅛ | 3.1 |
| *50* | *20* | — | *34.5* | *9.85* | *17-25* | *87* | *133* | *70* | *59* | — | — | - | *1.4* |
| | 1 | 1 | 500 | 2215 | 1 1/16-1 | 3 7/16 | 5¼ | 2¾ | 2 3/16 | 2⅞ | 3½ | ⅜ x 2⅛ | 3.3 |
| | *25* | *25* | *34.5* | *9.85* | *17-25* | *87* | *133* | *70* | *56* | *73* | *89* | - | *1.5* |
| | ½ | — | 500 | 3246 | 1 3/16-1½ | 4 3/16 | 6½ | 3¼ | 2 9/16 | — | — | ½ x 2⅜ | 4.8 |
| | *15* | — | *34.5* | *14.44* | *30-38* | *106* | *165* | *83* | *65* | — | — | - | *2.2* |
| | ¾ | — | 500 | 3246 | 1 3/16-1½ | 4 3/16 | 6½ | 3¼ | 2 9/16 | — | — | ½ x 2⅜ | 4.6 |
| 2½ | *20* | — | *34.5* | *14.44* | *30-38* | *106* | *165* | *83* | *65* | — | — | - | *2.1* |
| *65* | 1 | — | 500 | 3246 | 1 3/16-1½ | 4 3/16 | 6½ | 3¼ | 2 7/16 | — | — | ½ x 2⅜ | 4.4 |
| | *25* | — | *34.5* | *14.44* | *30-38* | *106* | *165* | *83* | *62* | — | — | - | *2.2* |
| | — | 1¼ | 500 | 3246 | 1 3/16-1½ | 4 3/16 | 6½ | 3¼ | — | 3⅝ | 3⅝ | ½ x 2⅜ | 5.1 |
| | — | *32* | *34.5* | *14.44* | *30-38* | *106* | *165* | *83* | — | *92* | *92* | - | *2.3* |
| | — | 1½ | 500 | 3246 | 1 3/16-1½ | 4 3/16 | 6½ | 3¼ | — | 3⅝ | 3⅝ | ½ x 2⅜ | 5.9 |
| | — | *40* | *34.5* | *14.44* | *30-38* | *106* | *165* | *83* | — | *92* | *92* | - | *2.4* |
| | ¾ | — | 500 | 4811 | 1 3/16-1½ | 4¾ | 7¼ | 3¼ | 2 13/16 | — | — | ½ x 3 | 5.9 |
| | *20* | — | *34.5* | *21.40* | *30-38* | *121* | *184* | *83* | *72* | — | — | - | *2.7* |
| 3 | 1 | 1 | 500 | 4811 | 1 3/16-1½ | 4¾ | 7¼ | 3¼ | 2¾ | 3⅜ | 4 | ½ x 3 | 6.2 |
| *80* | *25* | *25* | *34.5* | *21.40* | *30-38* | *121* | *184* | *83* | *70* | *86* | *102* | - | *2.8* |
| | — | 1½ | 500 | 4811 | 1 3/16-1½ | 4¾ | 7¼ | 3¼ | — | 4 | 4 | ½ x 3 | 6.4 |
| | — | *40* | *34.5* | *21.40* | *30-38* | *121* | *184* | *83* | — | *102* | *102* | - | *2.9* |
| | ¾ | — | 500 | 7952 | 1 9/16-1⅞ | 6 3/16 | 8⅞ | 3⅝ | 3 11/16 | — | — | ⅝ x 3½ | 9.2 |
| | *20* | — | *34.5* | *35.37* | *40-48* | *157* | *225* | *92* | *94* | — | — | - | *4.2* |
| | 1 | — | 500 | 7952 | 1 9/16-1⅞ | 6 3/16 | 8⅞ | 3⅝ | 3 9/16 | — | — | ⅝ x 3½ | 9.5 |
| 4 | *25* | — | *34.5* | *35.37* | *40-48* | *157* | *225* | *92* | *91* | — | — | - | *4.3* |
| *100* | — | 1½ | 500 | 7952 | 1 9/16-1⅞ | 6 3/16 | 8⅞ | 3⅝ | — | 4⅞ | 4⅞ | ⅝ x 3½ | 9.5 |
| | — | *40* | *34.5* | *35.37* | *40-48* | *157* | *225* | *92* | — | *124* | *124* | - | *4.3* |
| | — | 2 | 500 | 7952 | 1 9/16-1⅞ | 6 3/16 | 8⅞ | 3⅝ | — | 4⅞ | 4⅞ | ⅝ x 3½ | 9.9 |
| | — | *50* | *34.5* | *35.37* | *40-48* | *157* | *225* | *92* | — | *124* | *124* | - | *4.5* |
| | 1 | — | 500 | 17236 | 1⅝-1 15/16 | 8⅛ | 11¼ | 3 11/16 | 4¾ | — | — | ⅝ x 3½ | 13.2 |
| | *25* | — | *34.5* | *76.66* | *41-51* | *206* | *286* | *94* | *121* | — | — | - | *6.0* |
| 6 | 1½ | 1½ | 500 | 17236 | 1⅝-1 15/16 | 8⅛ | 11¼ | 3 11/16 | 4¾ | 6 | 6 | ⅝ x 3½ | 13.6 |
| *150* | *40* | *40* | *34.5* | *76.66* | *41-51* | *206* | *286* | *94* | *121* | *154* | *152* | - | *6.2* |
| | — | 2 | 500 | 17236 | 1⅝-1 15/16 | 8⅛ | 11¼ | 3 11/16 | — | 6 | 6 | ⅝ x 3½ | 14.3 |
| | — | *50* | *34.5* | *76.66* | *41-51* | *206* | *286* | *94* | — | *154* | *152* | - | *6.5* |

NOTES:

Pipe ends must be prepared in accordance with Gruvlok "Roll or Cut Groove Specifications for Steel and Other IPS or ISO size Pipe". Not recommended on beveled pipe.

Pressure and end load ratings are for use with standard wall steel pipe.

For a one-time field test only, the maximum working pressure may be increased 1½ times the figure shown.

For additional details see "Coupling Data Chart Notes" on page 17.
See Installation & Assembly directions on page 179.
Not for use in copper systems.