

GROOVED PIPING PRODUCTS



Grooved Piping Products are designed for use in fire protection systems and eliminate the need for screwed, welded, or flanged connections. They provide several economic advantages for connecting pipe and fittings when compared to welded or flanged systems. Grooved Piping Products also make field modifications easy, as couplings and fittings can be rotated, added, changed, or eliminated as necessary. Available in a wide range of sizes and configurations. Tyco makes a full line of grooved domestic and import products for fire protection.

FEATURES:

- **Easy Field Modifications**
- **Quickly Joining Steel Pipe without Welding**
- **Rigid Connections for Long Runs & Risers**
- **Retro-fitting & System Repair**
- **Dampening Noise & Vibration Transmission**

Always refer to the product's Technical Data Sheet for a complete description of all Listing and Approval criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

PIPING & ELECTRICAL DEVICES

GROOVED PIPING PRODUCTS

FIGURE 577

Rigid Coupling

- Available sizes: 1" (DN25) through 12" (DN300)
- For use in fire protection systems, the GRINNELL G-FIRE Figure 577 Grooved Rigid Coupling provides a rigid joint by firmly gripping along the full circumference of the pipe grooves. Figure 577 Grooved Rigid Couplings are a proven dependable method of joining pipe and are an economical alternative to welding, threading, or using flanges.
- Listings and Approvals: UL, ULC, FM, VdS, & LPCB

TECH DATA TFP1854

- It is capable of pressures up to 350 psi (24, 1 bar) depending on pipe size and wall thickness when used in fire protection services
- Standard Grade "A" EPDM pre-lubricated gasket, -30°F to 150°F (-34°C to 66°C)
- Also available with tri-seal Grade "E" EPDM gasket for dry pipe fire protection systems, vacuum systems, and freezer applications



FIGURE 705

Grooved Flexible Coupling

- Available sizes: 1" (DN25) through 12" (DN300)
- The GRINNELL G-FIRE Figure 705 Flexible Coupling is capable of pressures up to 300 psi (20,7 bar) depending on pipe size and wall thickness when used in fire protection services. It provides a dependable method of joining pipe and is suitable for use in a variety of applications.
- Listings and Approvals: UL, ULC, FM, VdS, & LPCB

TECH DATA TFP1820

- Provides the needed flexibility to accommodate differential movement
- Standard Grade "A" EPDM pre-lubricated gasket, -30°F to 150°F (-34°C to 66°C)
- Also available with tri-seal Grade E EPDM gasket for dry pipe fire protection systems, vacuum systems, and freezer applications



FIGURE 716

Flexible Reducing Coupling

- Available sizes: 2" x 1½" (DN50 x DN40) through 8" x 6" (DN200 x DN150)
- Allows easy transition between two different pipe sizes and replaces two couplings and a reducing fitting
- It is capable of pressures up to 350 psi (24,1 bar) depending on pipe size and wall thickness. A flexible reducing coupling is not recommended for low-temperature applications.
- Listings and Approvals: UL, ULC, FM, VdS, & LPCB

TECH DATA TFP1830

- Faster and easier than threading, welding or using flanges
- Standard Grade "E" EPDM gasket, -30°F to 230°F (-34°C to 110°C)



FIGURE 707

Flexible Coupling

- Available sizes: 1 1/4" x 12" (DN32 x DN300)
- Provides a dependable method of joining pipe and is suitable for use in a variety of applications
- Capable of pressures up to 500 psig (34,5 bar) depending on pipe size and wall thickness
- Listings and Approvals: UL, ULC, FM, VdS, & LPCB

TECH DATA TFP1840

- Standard Grade "E" EPDM gasket, -30°F to 230°F (-34°C to 110°C)
- Also available with tri-seal Grade "E" EPDM gasket for dry pipe fire protection systems, vacuum systems, and freezer applications



FIGURE 71

Flange Adapter

- Available sizes: 2" (DN50) through 12" (DN300)
- Allows a direct transition from flanged components to a grooved piping system
- Bolt patterns conform to ANSI Class 125 and 150, or PN16 standards
- Listings and Approvals: UL, ULC, FM, VdS, & LPCB

TECH DATA TFP1880

- Capable of pressures up to 250 psig (17,2 bar) depending on pipe size and wall thickness
- Grade "E" EPDM gasket, -30°F to 230°F (-34°C to 110°C)



FIGURE 702

Mechanical Outlet Coupling

- The Grinnell Figure 702 Mechanical Outlet Coupling has the combined features of a coupling and a reducing outlet. The Grinnell Figure 702 is a pipe joining coupling with an integral reducing outlet, eliminating the need for a mechanical tee or a reducing tee and associated couplings.
- Run sizes from 1 1/2" to 6" (DN40 to DN150)
- Maximum Pressure 500 psi (34,5 bar)

TECH DATA G220

- The Figure 702 is available with grooved, male threaded, or female threaded outlets.
- The Figure 702 can be used for vacuum service up to 10 inHg (254 mmHg) that can occur when the system is drained
- Grade "E" EPDM gasket, -30°F to 230°F (-34°C to 110°C)



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FIGURE 730

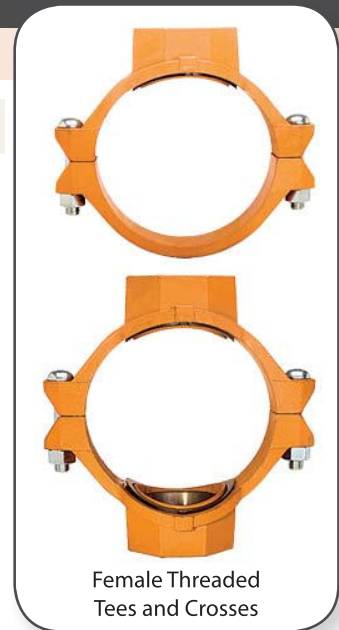
Mechanical Tees & Crosses

- Threaded or grooved outlet
- May be used for any tee connection where a threaded or grooved outlet is needed
- It can be used in place of a tee, a cross connection, or a welded outlet where a threaded or grooved outlet is needed.
- The Mechanical Tee is ideal for use in retrofit or equipment hookup installations as it can be positioned along the pipe at the proper location in the field, ensuring exact lineup of the branch outlet connection.
- Listings and Approvals: UL, ULC, FM, VdS, & LPCB

TECH DATA

TFP1860

- Run sizes in 2" to 8" outlets (DN50 to DN200)
- Branch sizes in 1/2" to 4" outlets (DN15 to DN100)
- Grade "E" EPDM gasket, -30°F to 230°F (-34°C to 110°C)



PIPING & ELECTRICAL DEVICES

GROOVED PIPING PRODUCTS

GROOVED FITTINGS


















Elbows, Tees, Caps and Crosses

- Provide an economical and efficient method of changing direction, adding an outlet, reducing or capping grooved piping systems
- Cast grooved fittings provide full flow characteristics
- Full back stop behind the groove to ensure proper coupling engagement and rigidity
- Wide range of grooved fabricated fittings also available

TECH DATA TFP1815

- 300 psi pressure rated
- 90° elbows and tees are also available in the "short pattern" style
- Available painted or galvanized finish
- Listings and Approvals: UL, ULC, FM, VdS, & LPCB



	Figure 510S Short Pattern 90° Cast Elbows Sizes 2" thru 8" (DN50 – DN200)		Figures 221 & 321 Reducing Tees Sizes 1-1/4" thru 12" (DN32 – DN300)
	Figure 510 90° Cast Elbows Sizes 1-1/4" thru 8" (DN32 – DN200)		Figure 323 Groove x Groove x Male Thread Reducing Tees Sizes 2" thru 12" (DN50 – DN300)
	Figure 510DE 90° Drain Elbows Sizes 2" thru 8" (DN50 – DN200)		Figures 391, 392, & 393 Adaptor Nipples Sizes 1-1/4" thru 12" (DN32 – DN300)
	Figure 501 45° Cast Elbows Sizes 2" thru 8" (DN50 – DN200)		Figure 372 Reducers, Small End Threaded (Male) Sizes 1-1/2" thru 6" (DN40 – DN125)
	Figures 512 & 312 22 1/2° Elbows Sizes 1-1/4" thru 12" (DN32 – DN300)		Figures 550 & 350 Concentric Reducers Sizes 1-1/2" thru 12" (DN40 – DN300)
	Figures 511 & 311 11 1/4° Elbows Sizes 1-1/4" thru 12" (DN32 – DN300)		Figures 327 Fabricated Crosses Sizes 1-1/4" thru 12" (DN32 – DN300)
	Figure 519S Short Pattern Tee Sizes 2" thru 8" (DN50 – DN200)		Figures 260 & 360 End Caps Sizes 1" thru 12" (DN25 – DN300)
	Figure 519 Tees Sizes 1-1/4" thru 8" (DN32 – DN200)		Figure 341 & 342 Flange Adaptors Sizes 1-1/4" thru 12" (DN32 – DN300)
	Figure 320 Groove x Groove x Male Thread Reducing Tees Sizes 1-1/4" thru 12" (DN32 – DN300)		

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