Grooved Piping Products

Designed for use in fire protection systems.

- Easy One-Bolt Coupling for Fast Install
- Rigid Connections for Long Runs & Risers
- Quickly Join Steel Pipe without Welding
- Dampening Noise & Vibration Transmission

Grooved Piping Products

Figure 579

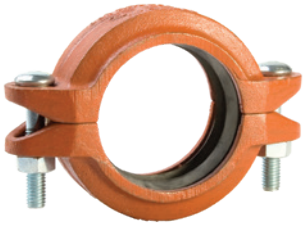
One-Bolt Rigid Coupling

Sizes	2" thru 8" (DN50 thru DN200)
Approvals	UL, ULC Listed & FM Approved
Maximum Working Pressure	Up to 365 psi (25,2 bar)
Grade "A" EPDM Pre-Lubricate Gasket Temperature	-30°F to 150°F (-34°C to 66°C)
Tech Data Sheet	**TFP1856**

For use in fire protection systems, the GRINNELL G-Fire Figure 579 Grooved Rigid Coupling is designed to make joining pipe faster and easier than ever before. ■ Arriving pre-assembled and pre-lubricated, this One-Bolt Coupling is ready to install right out of the box. ■ The unique design consists of a three-piece housing, a center-stop gasket, and just one bolt to tighten. ■ The center-stop gasket ensures proper positioning on the pipe and enables easy push-on installation in both horizontal and vertical applications across wet, dry and freezer systems. ■ The unique, one-bolt design eliminates alternate tightening for a faster, more efficient installation. ■ It is capable of pressures up to 365 psi (25,2 bar) depending on pipe size and wall thickness when used in fire protection services.

Figure 577

Rigid Coupling



Sizes	1" thru 12" (DN25 thru DN300)
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	350 psi (24, 1 bar)
Grade "A" EPDM Pre-Lubricate Gasket Temperature	-30°F to 150°F (-34°C to 66°C)
Tech Data Sheet	**TFP1854**

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. ■ 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 ■ 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

Sizes	1" thru 12" (DN25 thru DN300)
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	300 psi (20,7 bar)
Grade "E" EPDM Gasket Temperature	-30°F to 230°F (-34°C to 110°C)
Tech Data Sheet	**TFP1820**

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. ■ Provides the needed flexibility to accommodate differential movement ■ Also available with tri-seal Grade E EPDM gasket for dry pipe fire protection systems, vacuum systems, and freezer applications

Figure 707

Flexible Coupling

Sizes	1-1/4" x 12" (DN32 x DN300)
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	500 psi (34,5 bar)
Grade "E" EPDM Gasket Temperature	-30°F to 230°F (-34°C to 110°C)
Tech Data Sheet	**TFP1840**

he GRINNELL 707 Flexible Coupling provides a dependable method ofjoining pipe and is suitable for use in a variety of applications ■ Capable of pressures up to 500 psi (34,5 bar) depending on pipe size and wall thickness ■ 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

Sizes	2" x 1-1/2" (DN50 x DN40) through 8" x 6" (DN200 x DN150)
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	350 psi (24,1 bar)
Grade "E" EPDM Gasket Temperature	-30°F to 230°F (-34°C to 110°C)
Tech Data Sheet	**TFP1830**

The GRINNELL G-FIRE 716 Reducing Coupling 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. ■ Faster and easier than threading, welding or using flanges

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.

Grooved Piping Products

Figure 71

Flange Adapter

Sizes	2" x 12" (DN50 x DN300)
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	250 psi (17,2 bar)
Grade "E" EPDM Gasket Temperature	-30°F to 230°F (-34°C to 110°C)
Flange Drilling	ANSI Class 125 and 150, or PN16 standards
Tech Data Sheet	**TFP1880**

The GRINNELL 71 Flange Adapter allows for a direct transition from flanged components to a grooved piping system ■ Capable of pressures up to 250 psi (17,2 bar) depending on pipe size and wall thickness

Figure 730

Mechanical Tees & Crosses

Run Sizes	2" x 8" (DN50 x DN200)
Branch Sizes	½" to 4" outlets (DN15 to DN100)
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	300 psi (20,7 bar)
Grade "E" EPDM Gasket Temperature	-30°F to 230°F (-34°C to 110°C)
Tech Data Sheet	**TFP1860**

The GRINNELL 730 Mechanical Tees & Crosses come with threaded or grooved outlets and can 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.

Grooved Fittings

Elbows, Tees, Reducers, Caps, Crosses and Flange Adapters

Sizes Range	1" x 12" (DN25 x DN300)
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Maximum Working Pressure	300 psi (20,7 bar)
Tech Data Sheet	**TFP1815**

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 ■ 90° elbows and tees are also available in the "short pattern" style ■ Available painted or galvanized finish

Figure 510S
Short Pattern 90° Cast Elbows
Sizes 2" thru 8" (DN50 – DN200)

Figure 510
90° Cast Elbows
Sizes 1" thru 12" (DN25 – DN300)

Figure 510DE
90° Drain Elbows
Sizes 2" thru 8" (DN50 – DN200)

Figure 501
45° Cast Elbows
Sizes 1" thru 12" (DN25 – DN300)

Figures 512 & 312
22-1/2° Elbows
Sizes 1-1/4" thru 12" (DN32 – DN300)

Figures 511 & 311
11-1/4° Elbows
Sizes 1-1/4" thru 12" (DN32 – DN300)

Figure 519S
Short Pattern Tee
Sizes 2" thru 8" (DN50 – DN200)

Figure 519
Tees
Sizes 1" thru 12" (DN25 – DN300)

Figure 320
Groove x Groove x Male Thread
Reducing Tees
Sizes 1" thru 12" (DN25 – DN300)

Figures 221 & 321
Reducing Tees
Sizes 1-1/4" x 1" thru 12" x 10"
(DN32 x DN25 thru DN300 x DN250)

Figure 323
Groove x Groove x Male Thread
Reducing Tees
Sizes 2" x 3/4" thru 12" x 10"
(DN50 x DN20 thru DN300 x DN250)

Figures 391, 392, & 393
Adaptor Nipples
Sizes 1-1/4" thru 12" (DN32 – DN300)

Figure 372
Reducers, Small End Threaded (Male)
Sizes 1-1/2" x 1" thru 6" x 5"
(DN40 x DN25 thru DN150 x DN125)

Figures 250, 550 & 350
Concentric Reducers
Sizes 1-1/4" x 1" thru 12" x 10"
(DN32 x DN25 thru DN300 x DN250)

Figures 327 Fabricated
Crosses
Sizes 1" thru 12" (DN25 – DN300)

Figures 260 & 360
End Caps
Sizes 1" thru 12" (DN25 – DN300)

Figure 341 & 342
Flange Adapters
Sizes 1" thru 12" (DN25 – DN300)

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Grooved Piping Products

40-5

Strap Outlets

Pipe Run Sizes	1-1/4" to 2-1/2" Outlets (DN32 to DN65)
Outlet Thread Sizes	1/2" to 1" NPT Outlet
Approvals	UL, ULC Listed & FM Approved
Maximum Working Pressure	175 psi (12,1 bar)
Grade "E" EPDM Gasket Temperature	-30°F to 230°F (-34°C to 110°C)
Tech Data Sheet	**TFP1720**

The Figure 40-5 Strap is an economical alternative to welded pipe outlets on steel pipe. ■ Can be used with full lengths of pipe and eliminates threading and welding, decreasing waste and installation time. ■ Can be used in wet, dry pipe, and deluge systems

ADACAP®

End of Line Sprinkler Fitting

Pipe Run Sizes	1-1/2" to 2-1/2" Outlets (DN40 to DN65)
Outlet Thread Sizes	1/2" to 1" NPT Outlet
Approvals	UL, ULC Listed & FM, VdS, & LPCB Approved
Rated Pressure	300 psi (20,7 bar)
Tech Data Sheet	**TFP1815**

Used to install the last sprinkler on grooved branch line piping or as a drain fitting ■ End-of-the-line sprinkler fittings eliminate the need for an end cap and female outlet ■ Can be turned down for end of line drain

Tyco CPVC Pipe & Fittings

Manufactured with BlazeMaster® compound.

- Light Hazard & Residential Occupancies
- Unfinished basements
- Underground Water Pressure Service
- Connections to Copper & Steel Piping
- Resistance of Sweating, Condensation, & MIC

BlazeMaster®
FIRE PROTECTION SYSTEMS

CPVC Pipe & Threaded Fittings

CPVC Pipe

Sprinkler Pipe

Sizes	3/4" thru 3" (DN20 thru DN80)
Pipe Length	10' and 15' Lengths
Approvals	UL, C-UL Listed & FM,MEA, NSF, & LPCB Approved
Rated Pressure	175 psi (12,1 bar)
Maximum Temperature Rating	150°F (65°C).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

Manufactured with Lubrizol's BLAZEMASTER® compound ■ Produced from BlazeMaster® thermoplastic compound, RAPID RESPONSE CPVC pipe is designed exclusively for use in wet and dry pipe automatic fire sprinkler systems. ■ Our CPVC pipe is easier to install than traditional steel components, while providing superior heat resistance and strength compared to traditional CPVC and PVC piping materials. ■ TYCO CPVC sprinkler pipe conforms to the requirements of ASTM F442 and is produced to SDR 13.5. SDR (Standard Dimension Ratio) is the ratio of the outside pipe diameter to the wall thickness of the pipe.

Fittings

Sizes	3/4" thru 3" (DN20 thru DN80)
Approvals	UL, C-UL Listed & FM,MEA, NSF, & LPCB Approved
Rated Pressure	175 psi (12,1 bar)
Maximum Temperature Rating	150°F (65°C).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

Manufactured with Lubrizol's BLAZEMASTER® compound ■ Produced from BlazeMaster® thermoplastic compound, RAPID RESPONSE CPVC fittings are designed exclusively for use in wet and dry pipe automatic fire sprinkler systems. ■ Our CPVC is easier to install than traditional steel components, while providing superior heat resistance and strength compared to traditional CPVC and PVC fitting materials. ■ Tees, Crosses, Reducing Tees & Crosses, 90° Elbows, 45° Elbows, Couplings, Bushings, Caps, Sprinkler Head Adapters, Grooved Coupling Adapters, Female and Male Adapters, Sprinkler Adapter Tees, etc...

Rapid Seal Adapter (RSA) Fittings

Sizes	3/4" thru 1" (DN20 thru DN25)
Pipe Thread Connection	1/2" NPS
Approvals	UL, C-UL Listed & FM, & LPCB Approved Certified to all requirements of NSF/ANSI 61, Annex G
Rated Pressure	175 psi (12,1 bar)
Maximum Temperature Rating	150°F (65°C).
Tech Data Sheet	**TFP1925 and Installation Handbook - IH-1900**

Rapid Seal Adapter (RSA) Fittings are intended for use in fire protection sprinkler systems comprised of CPVC pipe and fittings. A gasket housed within the fitting eliminates the need to apply sealant to sprinkler threads and reduces the effort necessary to complete a leak-free installation. ■ No need for thread tape or sealant ■ No brass, no lead, no dezincification ■ Thanks to its brass-free design, Rapid Seal is not prone to dezincification in hard water environments and also complies with growing state and federal low-lead requirements for sprinkler and plumbing systems. ■ 90° Elbow, Straight Adapter, Spigot

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.

CPVC Pipe & Threaded Fittings

CPVC

Back-to-Back Fittings

Sizes	3/4" thru 3" (DN20 thru DN80)
Approvals	UL, C-UL Listed & FM,MEA, NSF, & LPCB Approved
Rated Pressure	175 psi (12,1 bar)
Maximum Temperature Rating	150°F (65°C).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

Included in the Tyco line of BLAZEMASTER® CPVC products ■ Allows two sidewall sprinklers to be piped from one fitting ■ Ideal when the CPVC piping is located in a 3-1/2" (2" x 4") vertical wall, eliminating the need for extra nipples, fittings and sprinkler head adapters typically associated with supplying two rooms with the same pipe ■ Specially designed and dimensioned to enable the sidewall sprinklers to be recessed with 1/2" or 5/8" sheet-rock wall covering

CPVC to Copper Fitting

Sizes	3/4" thru 2" (DN20 thru DN50)
Approvals	UL, C-UL Listed & FM,MEA, NSF, & LPCB Approved
Rated Pressure	175 psi (12,1 bar)
Maximum Temperature Rating	150°F (65°C).
Tech Data Sheet	**TFP1915 and Installation Handbook - IH-1900**

Transition to BLAZEMASTER pipe from traditional copper tube for plumbing services ■ Transition to steel or BLAZEMASTER CPVC Fire Sprinkler System piping from traditional copper tube for plumbing services is fast, easy, and readily available in the most complete fire sprinkler package in the industry

CPVC Hangers & SHB1 Head Set

Sizes	3/4" thru 1" NPT
Approvals	UL Listed
Material	Galvanized aluminum, 20 gauge
Tech Data Sheet	**TFP1920 and Installation Handbook - IH-1900**

"No Block Hanger" is a two hole strap that eliminates blocking to the beam when hanging CPVC pipe ■ The TYCO CPVC Hanger Head Set Model SHB1 offers a time saving installation method for proper placement of an automatic sprinkler before the ceiling is installed. ■ Positions the face of the pipe 1-1/2" off the face of the joist ■ Provides vertical restraint, eliminating need for additional hangers

CPVC Supplies

Tech Data Sheet	**TFP-600 One Step Solvent Cement (TFP1994) and CPVC Installation Handbook (IH-1900)**

One-Step CPVC Cement specifically formulated for use with BlazeMaster® pipe and fittings ■ BLAZEMASTER Caulk and Walk® Firestop

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