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Rev. 1



**Grinnell**  
*A Tyco International Company*

## **South Asia List Prices**

*for*

## **Grooved G-FIRE and Fire Protection Products**

**Prices are in U.S. Dollars**



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### GRINNELL Gasket Styles, Grades and Recommendations

#### Standard

The standard style gasket, with a “C” shape configuration, is the most commonly used. It is provided as the standard gasket in the Figure 577, 705, 707, 770, 772, 405, and 472 GRINNELL Couplings. The gasket is available in Grade “E” and “EN” EPDM Grade “T” Nitrile, Grade “L” Silicone, and Grade “O” Fluoroelastomer.



#### Tri-Seal

The tri-seal gasket is designed to close off the gap or gasket cavity. This is accomplished by positioning the center “rib” of the gasket over the gap between the pipes. The tri-seal gasket has two tapered sealing edges in addition to the center rib for additional strength and sealing.



The Tri-Seal gasket can be used with the Figure 577, 705, 707, 770, 772, 405, and 472 GRINNELL Couplings. It is recommended for use in low temperature and vacuum services (greater than 10” Hg) applications and potable water systems. Note only a petroleum-free silicone based lubricant is recommended for low temperature applications. The gasket is available in Grade “E”, “EN” EPDM and Grade “T” Nitrile.

**Note:** Rigid couplings are recommended for vacuum and low temperature applications

#### Reducing Coupling

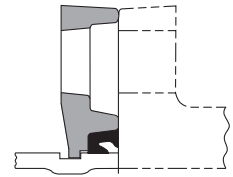
The reducing gasket is provided with ribs used to position the larger pipe so that the sealing lip is located on the sealing surface of the pipe. This gasket is used only with the Figure 716 GRINNELL Reducing Coupling and is available in Grade “E” EPDM and Grade “T” Nitrile.



**Note:** Reducing couplings are not recommended for low temperature applications.

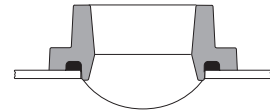
#### Flange Adaptor

This gasket is specifically designed for use with the Figure 71 Flange Adaptor. The gasket has an optimal amount of rubber to provide a dependable seal between both the pipe and mating surface. The gasket is available in Grade “E” EPDM and Grade “T” Nitrile.



#### Mechanical Tee and Strap

The gasket provides a compression type seal, which is designed to conform to the exterior curve (OD) of the pipe. This design is unique to both the Figure 730 Mechanical Tee (threaded and grooved) and Figure 40-5 Strap. The gasket is available in Grade “E” EPDM and Grade “T” Nitrile.



**Note:** When used in low temperature applications, use a petroleum-free silicone based lubricant, otherwise no lubricant is required on Mechanical Tee and Strap gaskets

#### Plain End Coupling

This gasket is designed for use with the Figure 909 Plain End Coupling.



**GRINNELL gaskets are designed exclusively for use with GRINNELL manufactured coupling housings. The mixing of other manufacturer’s gaskets or housings with GRINNELL gaskets or housings may result in pipe joint leakage or failure and will void the Tyco Fire Protection Products limited warranty.**

The Gasket Recommendation Table has been developed to maximize service life. The table was developed from information supplied by the elastomer material manufacturers, reference technical literature, and testing conducted by GRINNELL Products.

In evaluating the gasket grade for intended service, consider the following: system operating temperature, fluid or solution concentration, and duration of service.

All gasket recommendations are based on a temperature of 21°C (70°F) unless otherwise noted.

When considering combinations of service solutions, consult Technical Services and Mechanical Services.

GRINNELL Products for recommendations for services not listed.

Gasket recommendations apply to GRINNELL gaskets and valves only.









Grade	Temperature Range	Compound	Color Code	General Service Application
“E”	-34°C to 110°C (-30°F to 230°F)	EPDM	Green	Hot water, dilute acids, alkalis, oil free air, and many chemical services not involving petroleum products. Excellent oxidation resistance. <b>NOT FOR USE WITH HYDROCARBONS.</b> <b>NOT RECOMMENDED FOR STEAM SERVICE.</b>
“E” Type A	-34°C to 66°C (-30°F to 150°F)	EPDM	Violet Stripe	Applicable for wet and dry (oil-free air) sprinkler services only. For dry/freezer services, GRINNELL recommends the use of Tri-Seal gaskets. <b>NOT RECOMMENDED FOR HOT WATER SERVICES.</b>
“E” Tri-Seal	-34°C to 110°C (-30°F to 230°F)	EPDM	Green	Hot water, dilute acids, alkalis, and many chemical services not involving petroleum products. Excellent oxidation resistance. <b>NOT FOR USE WITH HYDROCARBONS.</b> <b>Recommended for low temperature and vacuum services.</b>
“T” and “T” Tri-Seal	-29°C to 82°C (-20°F to 180°F)	Nitrile	Orange	Petroleum products, vegetable oils, mineral oils and air with oils. High-End oil vapor temperature, decrease to 150°F (66°C). <b>Not Recommended for Hot Water Systems.</b> <b>Not Recommended for Hot Dry Air Systems.</b>
“O”	-7°C to 149°C (+20°F to 300°F)	Fluoroelastomer	Blue	Oxidizing acids, petroleum products, hydraulic fluids, lubricants, halogenated hydrocarbons.
“L”	-34°C to 177°C (-30°F to 350°F)	Silicone *	Red Gasket	Air without hydrocarbons, dry heat.
“EN” and “EN” Tri-Seal IPS Pipe	Cold and Hot Potable Water up to 82°C (180°F)	EPDM	Green/Yellow Stripe	<b>IPS Sizes Only</b> , NSF 61 Approved for potable water. <b>NOT RECOMMENDED FOR HYDROCARBONS.</b>



\* To prevent gasket from deteriorating, NEVER use silicone-based lubricants with Grade “L” Silicone gaskets.











## Agency Listings and Approvals

Our products bear the seal of approval from the following agencies, associations and laboratories.

### General Code Groups, Associations, Laboratories, Government Agencies & Approval Bodies

<b>ACS</b>	
<b>ACTIVFIRE</b> Active Fire Protection Product Certification	
<b>AP SAD</b>	
<b>AMERICAN BUREAU OF SHIPPING (ABS)</b>	
<b>AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)</b>	
<b>AMERICAN WATER WORKS ASSOCIATION (AWWA)</b>	
<b>AMERICAN PETROLEUM INSTITUTE (API)</b> API Std. 5L, Sect. 7.5	
<b>AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE)</b>	
<b>AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)</b>	
<ul style="list-style-type: none"> <li>• Power Piping, B-31.1</li> <li>• Chemical Plant and Petroleum Refinery Piping, B-31.3</li> <li>• Refrigeration Piping, B-31.5</li> <li>• Building Services Piping, B31.9</li> <li>• Elevator, Escalator, A17.1</li> </ul>	<b>ARPA</b>
<b>ARPA</b>	
<b>BUILDING OFFICIALS AND CODE ADMINISTRATORS (BOCA)</b>	
<b>BUREAU VERITAS (BV)</b>	
<b>CNBOP</b> Centrum Naukowo-Badawcze Ochrony Przeciwpozarowe	
<b>COAST GUARD</b> Approved each vessel individually	
<b>CORPS OF ENGINEERS (COE)</b> GEGS 15000	
<b>CRN</b> Canadian Registration Number	
<b>CSTB</b>	
<b>DNV</b> Det Norske Veritas	

<b>DVGW</b> Deutscher Verein des Gas-und Wasserfaches e.V.	
<b>FACTORY MUTUAL ENGINEERING CORP. (FM)</b> Approved for Fire Protection Services	
<b>FEDERAL AVIATION ADMINISTRATION (FAA)</b> HVAC, Plumbing and Fire Protection	
<b>FEDERAL HOUSING ADMINISTRATION (FHA)</b>	
<b>GENERAL SERVICES ADMINISTRATION (GSA)</b> 15000 Series	
<b>GERMANISCHER LLOYD</b>	
<b>ICC-ES</b> International Association of Plumbing and Mechanical Officials (IAPMO)	
<b>IPC</b> Association Connecting Electronics Industries	
<b>LLOYD'S</b> Lloyd's Register of Shipping	
<b>LOSS PREVENTION CERTIFICATION BOARD (LPCB)</b> Approved for Fire Protection Services	
<b>MATERIAL EQUIPMENT AND ACCEPTANCE (MEA)</b>	
<b>MILITARY SPECIFICATIONS (MIL)</b> <ul style="list-style-type: none"> <li>• MIL-P – 10388 Fittings</li> <li>• MIL-C – 10387 Couplings</li> <li>• MIL-P – 11087A (CE) Steel Pipe</li> <li>• Grooved MIL-I – 45208 Inspection Procedure</li> </ul>	
<b>NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)</b>	
<b>NATIONAL INSTITUTE OF HEALTH (NIH)</b> Department of Health – 5000 Series	
<b>NAVAL FACILITIES ENGINEERING COMMAND (NAVFAC)</b> NFGS 15000 Series	
<b>NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)</b>	

<b>NATIONAL SANITATION FOUNDATION (NSF)</b> The Public Health and Safety Company	
<b>PAVUS</b>	
<b>PCT</b>	
<b>PRESSURE EQUIPMENT DIRECTIVE</b>	
<b>RINA</b> Registro Italiano Navale	
<b>T/S/U</b>	
<b>SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL (SBCCI)</b> Standard Plumbing	
<b>UNDERWRITERS LABORATORIES, INC. (UL)</b> Listed for Fire Protection Services	
<b>UNDERWRITERS LABORATORIES OF CANADA (ULC)</b> Listed for Fire Protection Services	
<b>UNIFORM PLUMBING CODE (UPC)</b>	
<b>VERBAND DER SACHVERSICHERE E.V. (VDS)</b> Approved for Fire Protective Service	
<b>VETERANS AFFAIRS (VA)</b> 15000 Series	
<b>WATERMARK</b> Pending Approved for Potable Water Service (AU)	
<b>WRAS</b> Water Regulations Advisory Scheme (UK)	
<b>WSD</b> Pending Approved for Potable Water Service (HK)	
<b>97/23/EC</b>	



### #577 – G-FIRE Rigid Coupling with Grade “E” Type “A” Pre Lube Gasket

 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1"	33.4mm	577MA00341	POA	577MA00342	POA
	1 1/4"	42.4mm	577MA00421	\$26.75	577MA00422	\$32.50
	1 1/2"	48.3mm	577MA00481	\$27.25	577MA00482	\$33.25
	2"	60.3mm	577MA00601	\$39.50	577MA00602	\$36.75
	2 1/2"	73.0mm	577MA00731	\$41.00	577MA00732	\$42.75
	76.1mm	76.1mm	577MA00761	\$40.50	577MA00762	\$47.25
	3"	88.9mm	577MA00891	\$41.00	577MA00892	\$49.75
	4"	114.3mm	577MA01141	\$65.25	577MA01142	\$69.75
	139.7mm	139.7mm	577MA01391	\$94.75	577MA01392	\$104.00
	5"	141.3mm	577MA01411	\$85.75	577MA01412	\$104.00
	165.1mm	165.1mm	577MA01651	\$99.00	577MA01652	\$120.25
	6"	168.3mm	577MA01681	\$99.00	577MA01682	\$120.25
	8"	219.1mm	577MA02191	\$193.25	577MA02192	\$201.75
	10"	273.0mm	577MA02731	\$355.25	577MA02732	\$475.00
12"	323.9mm	577MA03241	\$397.25	577MA03242	\$532.50	

Metric bolts are supplied as standard.

Orders for items in shaded areas *cannot* be cancelled or returned.

**Technical Data Sheet: TFP1854**

### #577 – G-FIRE Rigid Coupling with Grade “E” EPDM Tri-Seal Gasket Recommended for Dry Pipe Systems and Freezer Applications – Use Silicone Lubricant


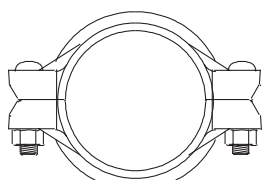
 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1"	33.4mm	577AT00341	POA	577AT00342	POA
	1 1/4"	42.4mm	577AT00421	\$40.75	577AT00422	\$45.75
	1 1/2"	48.3mm	577AT00481	\$43.25	577AT00482	\$50.25
	2"	60.3mm	577AT00601	\$46.25	577AT00602	\$54.25
	2 1/2"	73.0mm	577AT00731	\$55.25	577AT00732	\$64.25
	76.1mm	76.1mm	577AT00761	\$55.25	577AT00762	\$64.25
	3"	88.9mm	577AT00891	\$59.75	577AT00892	\$69.75
	4"	114.3mm	577AT01141	\$84.00	577AT01142	\$97.75
	139.7mm	139.7mm	577AT01391	\$142.45	577AT01392	\$164.25
	5"	141.3mm	577AT01411	\$142.25	577AT01412	\$164.25
	165.1mm	165.1mm	577AT01651	\$157.25	577AT01652	\$183.50
	6"	168.3mm	577AT01681	\$157.25	577AT01682	\$183.50
	8"	219.1mm	577AT02191	\$254.75	577AT02192	\$295.50
	10"	273.0mm	577AT02731	\$427.50	577AT02732	\$543.75
12"	323.9mm	577AT03241	\$486.25	577AT03242	\$626.00	


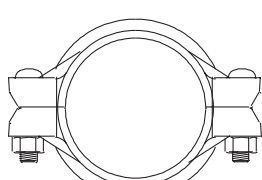
Metric bolts are supplied as standard.

Orders for items in shaded areas *cannot* be cancelled or returned.

**Technical Data Sheet: TFP1854**


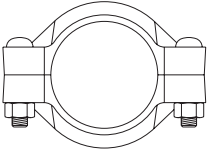
**#705 – Flexible Coupling  
with Grade “E” Type “A” Pre Lube Gasket**

	Pipe Size		Painted		Galvanized	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1"	33.4mm	705MA00341	\$28.25	705MA00342	\$35.00
	1 1/4"	42.4mm	705MA00421	\$29.00	705MA00422	\$37.50
	1 1/2"	48.3mm	705MA00481	\$35.00	705MA00482	\$44.00
	2"	60.3mm	705MA00601	\$35.75	705MA00602	\$45.25
	2 1/2"	73.0mm	705MA00731	\$41.25	705MA00732	\$52.25
	76.1mm	76.1mm	705MA00761	\$41.25	705MA00762	\$52.25
	3"	88.9mm	705MA00891	\$48.25	705MA00892	\$60.50
	4"	114.3mm	705MA01141	\$67.25	705MA01142	\$87.50
	139.7mm	139.7mm	705MA01391	\$96.50	705MA01392	\$125.25
	5"	141.3mm	705MA01411	\$96.50	705MA01412	\$125.25
	165.1mm	165.1mm	705MA01651	\$115.50	705MA01652	\$150.50
	6"	168.3mm	705MA01681	\$115.50	705MA01682	\$150.50
	216.3mm	216.3mm	705MA02161	\$181.00	705MA02162	\$241.50
	8"	219.1mm	705MA02191	\$181.00	705MA02192	\$241.50
	10"	273.0mm	705MA02731	\$386.75	705MA02732	\$555.00
12"	323.9mm	705MA03241	\$440.50	705MA03242	\$630.75	
Metric bolts are supplied as standard.						
Orders for items in shaded areas <i>cannot</i> be cancelled or returned.						
<b>Technical Data Sheet: TFP1854</b>						

	Pipe Size		Painted		Galvanized	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1"	33.4mm	705MT00341	\$45.25	705034G3E	\$53.50
	1 1/4"	42.4mm	705MT00421	\$47.75	705042G3E	\$56.75
	1 1/2"	48.3mm	705MT00481	\$52.25	705048G3E	\$62.25
	2"	60.3mm	705MT00601	\$53.75	705060G3E	\$63.75
	2 1/2"	73.0mm	705MT00731	\$63.75	705073G3E	\$75.75
	76.1mm	76.1mm	705MT00761	\$63.75	705076G3E	\$75.75
	3"	88.9mm	705MT00891	\$67.75	705089G3E	\$81.75
	4"	114.3mm	705MT01141	\$96.75	705114G3E	\$118.50
	139.7mm	139.7mm	705MT01391	\$165.50	705139G3E	\$198.00
	5"	141.3mm	705MT01411	\$165.50	705141G3E	\$198.00
	165.1mm	165.1mm	705MT01651	\$183.00	705165G3E	\$222.00
	6"	168.3mm	705MT01681	\$183.00	705168G3E	\$222.00
	216.3mm	216.3mm	705MT02161	\$236.00	705216G3E	\$300.00
	8"	219.1mm	705MT02191	\$236.00	705219G3E	\$300.00
	10"	273.0mm	705MT02731	\$459.50	705273G3E	\$618.00
12"	323.9mm	705MT03241	\$539.75	705324G3E	\$710.75	
Metric bolts are supplied as standard.						
Orders for items in shaded areas <i>cannot</i> be cancelled or returned.						
<b>Technical Data Sheet: TFP1854</b>						

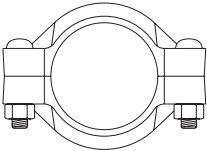


### #707 Heavy-Duty Flexible Coupling with Grade "E" EPDM Gasket

 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1"	33.4mm	707034ME	\$27.50	707034GE	\$37.50
	1 1/4"	42.4mm	707042ME	\$36.50	707042GE	\$49.25
	1 1/2"	48.3mm	707048ME	\$40.00	707048GE	\$52.50
	2"	60.3mm	707060ME	\$42.50	707060GE	\$56.50
	2 1/2"	73.0mm	707073ME	\$49.75	707073GE	\$69.75
	76.1mm	76.1mm	707076ME	\$49.75	707076GE	\$69.75
	3"	88.9mm	707089ME	\$55.25	707089GE	\$77.00
	4"	114.3mm	707114ME	\$80.00	707114GE	\$113.00
	139.7mm	139.7mm	707139ME	\$143.75	707139GE	\$175.00
	5"	141.3mm	707141ME	\$143.75	707141GE	\$175.00
	165.1mm	165.1mm	707165ME	\$143.75	707165GE	\$206.75
	6"	168.3mm	707168ME	\$143.75	707168GE	\$206.75
	8"	219.1mm	707219ME	\$233.75	707219GE	\$348.50
	10"	273.0mm	707273ME	\$386.75	707273GE	\$555.00
12"	323.9mm	707324ME	\$440.50	707324GE	\$630.75	

Technical Data Sheet: TFP1840

### #707 Heavy-Duty Flexible Coupling with Grade "E" EPDM Tri-Seal Gasket Recommended for Dry Pipe Systems and Freezer Applications – Use Silicone Lubricant


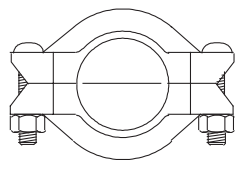
 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1"	33.4mm	707034M3E	\$44.00	707034G3E	\$54.25
	1 1/4"	42.4mm	707042M3E	\$54.25	707042G3E	\$67.50
	1 1/2"	48.3mm	707048M3E	\$56.50	707048G3E	\$70.50
	2"	60.3mm	707060M3E	\$59.50	707060G3E	\$74.50
	2 1/2"	73.0mm	707073M3E	\$72.50	707073G3E	\$92.50
	76.1mm	76.1mm	707076M3E	\$72.50	707076G3E	\$92.50
	3"	88.9mm	707089M3E	\$75.25	707089G3E	\$97.50
	4"	114.3mm	707114M3E	\$108.50	707114G3E	\$142.75
	139.7mm	139.7mm	707139M3E	\$191.25	707139G3E	\$248.25
	5"	141.3mm	707141M3E	\$191.25	707141G3E	\$248.25
	165.1mm	165.1mm	707165M3E	\$211.25	707165G3E	\$277.50
	6"	168.3mm	707168M3E	\$211.25	707168G3E	\$277.50
	8"	219.1mm	707219M3E	\$286.00	707219G3E	\$392.25
	10"	273.0mm	707273M3E	\$459.50	707273G3E	\$618.00
12"	323.9mm	707324M3E	\$539.75	707324G3E	\$710.75	

Orders for items in shaded areas *cannot* be cancelled or returned.

Technical Data Sheet: TFP1840

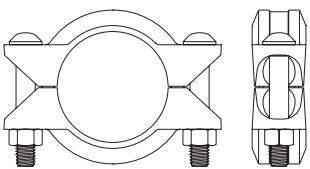


**#716 – Reducing Coupling  
with Grade “E” EPDM Gasket**

 For additional listings or approvals, visit our website at www.grinnell.com	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	2" x 1 1/2"	60.3 x 48.3mm	716060048ME	\$59.75	716060048GE	\$92.25
	2 1/2" x 2"	73.0 x 60.3mm	716073060ME	\$77.75	716073060GE	\$97.50
	76.1mm x 2"	76.1 x 60.3mm	716076060ME	\$77.75	716076060GE	\$97.50
	3" x 2"	88.9 x 60.3mm	716089060ME	\$88.75	716089060GE	\$112.25
	3" x 2 1/2"	88.9 x 73.0mm	716089073ME	\$76.25	716089073GE	\$97.50
	3" x 76.1mm	88.9 x 76.1mm	716089076ME	\$76.25	716089076GE	\$97.50
	4" x 2"	114.3 x 60.3mm	716114060ME	\$140.25	716114060GE	\$177.75
	4" x 2 1/2"	114.3 x 73.0mm	716114073ME	\$126.00	716114073GE	\$165.75
	4" x 76.1mm	114.3 x 76.1mm	716114076ME	\$126.00	716114076GE	\$165.75
	4" x 3"	114.3 x 88.9mm	716114089ME	\$118.00	716114089GE	\$152.25
	139.7mm x 4"	139.7 x 114.3mm	716139114ME	\$158.75	716139114GE	\$209.00
	5" x 4"	141.3 x 114.3mm	716141114ME	\$158.75	716141114GE	\$209.00
	165.1mm x 4"	165.1 x 114.3mm	716165114ME	\$239.50	716165114GE	\$302.25
	6" x 4"	168.3 x 114.3mm	716168114ME	\$239.50	716168114GE	\$302.25
	6" x 5"	168.3 x 141.3mm	716168141ME	\$209.50	716168141GE	\$272.00
	8" x 6"	219.1 x 168.3mm	716219168ME	\$358.75	716219168GE	\$454.75

Technical Data Sheet: TFP1830

**#770 High Pressure Rigid Coupling  
with Grade “E” EPDM**

	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Grade “E” EPDM	List Price	Grade “E” EPDM	List Price
	2"	60.3mm	770060ME	\$52.25	770060GE	\$70.50
	2 1/2"	73.0mm	770073ME	\$62.50	770073GE	\$80.25
	76.1mm	76.1mm	770076ME	\$62.50	770076GE	\$80.25
	3"	88.9mm	770089ME	\$66.00	770089GE	\$89.75
	4"	114.3mm	770114ME	\$96.75	770114GE	\$137.70
	139.7mm	139.7mm	770139ME	POA	770139GE	POA
	5"	141.3mm	770141ME	POA	770141GE	POA
	165.1mm	165.1mm	770165ME	\$174.50	770165GE	\$252.00
	6"	168.3mm	770168ME	\$174.50	770168GE	\$252.00
	8"	219.1mm	770219ME	\$280.25	770219GE	\$402.50
	10"	273.0mm	770273ME	\$518.25	770273GE	\$709.50
	12"	323.9mm	770324ME	\$755.50	770324GE	\$1,011.25

**Notes**

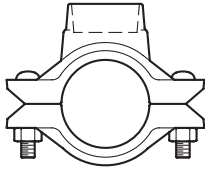
Orders for items in shaded areas **cannot** be cancelled or returned.

For price and availability for the #770 High Pressure Rigid Coupling with Grade “E” EPDM Tri-Seal, Grade “T” Nitrile Tri-Seal, Grade “L” Silicone, or Grade “O” Fluoroelastomer Gasket, contact GRINNELL Products.

Technical Data Sheet: G138



### #702 – Outlet Coupling Grade “E” Gasket, Female BSP Threaded End, Painted\*



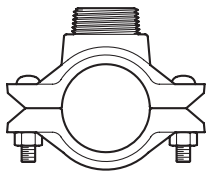
	Pipe Size		Part Number	List Price
	Nominal Size	Outside Diameter		
	1½" x ½"	48.3 x 21.3mm	702T048021FES	\$76.00
	1½" x ¾"	48.3 x 26.7mm	702T048027FES	\$76.00
	1½" x 1"	48.3 x 33.4mm	702T048034FES	\$76.00
	2" x ½"	60.3 x 21.3mm	702T060021FES	\$77.75
	2" x ¾"	60.3 x 26.7mm	702T060027FES	\$77.75
	2" x 1"	60.3 x 33.4mm	702T060034FES	\$77.75
	2½" x ½"	73.0 x 21.3mm	702T073021FES	\$120.00
	2½" x ¾"	73.0 x 26.7mm	702T073027FES	\$120.00
	2½" x 1"	73.0 x 33.4mm	702T073034FES	\$120.00
	2½" x 1¼"	73.0 x 42.4mm	702T073042FES	\$135.50
	2½" x 1½"	73.0 x 48.3mm	702T073048FES	\$153.00
	3" x ¾"	88.9 x 26.7mm	702T089027FES	\$116.00
	3" x 1"	88.9 x 33.4mm	702T089034FES	\$153.00
	3" x 1¼"	88.9 x 42.4mm	702T089042FES	\$176.00
	3" x 1½"	88.9 x 48.3mm	702T089048FES	\$176.00
	4" x ¾"	114.3 x 26.7mm	702T114027FES	\$170.25
	4" x 1"	114.3 x 33.4mm	702T114034FES	\$170.25
	4" x 1½"	114.3 x 48.3mm	702T114048FES	\$241.50
	4" x 2"	114.3 x 60.3mm	702T114060FES	\$241.50
	6" x 1"	168.3 x 33.4mm	702T168034FES	\$341.75
	6" x 1½"	168.3 x 48.3mm	702T168048FES	\$341.75
	6" x 2"	168.3 x 60.3mm	702T168060FES	\$341.75

\* Galvanised available upon request.

NPT threads available on request, contact GRINNELL Products.

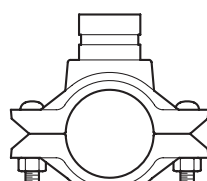
Orders for items in shaded areas **cannot** be cancelled or returned.

**#702 – Outlet Coupling**  
**Grade “E” Gasket, Male BSP Threaded End, Painted\***

	Pipe Size		Part Number	List Price
	Nominal Size	Outside Diameter		
	2" x 1"	60.3 x 33.4mm	702T060034MES	\$93.00
2½" x 1¼"	73.0 x 42.4mm	702T073042MES	\$161.50	
2½" x 1½"	73.0 x 48.3mm	702T073048MES	\$182.50	
3" x 1"	88.9 x 33.4mm	702T089034MES	\$182.50	
3" x 1½"	88.9 x 48.3mm	702T089048MES	\$209.50	
4" x 1½"	114.3 x 48.3mm	702T114048MES	\$287.50	
4" x 2"	114.3 x 60.3mm	702T114060MES	\$287.50	
6" x 1½"	168.3 x 48.3mm	702T168048MES	\$406.50	
6" x 2"	168.3 x 60.3mm	702T168060MES	\$406.50	


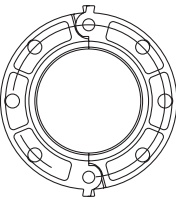
\* Galvanised available upon request.  
 NPT threads available on request, contact GRINNELL Products.  
 Orders for items in shaded areas **cannot** be cancelled or returned.

**#702 – Outlet Coupling**  
**Grade “E” Gasket, Grooved End, Painted\***

	Pipe Size		Part Number	List Price
	Nominal Size	Outside Diameter		
	2" x 1"	60.3 x 33.4mm	702060034GES	\$93.00
2½" x 1¼"	73.0 x 42.4mm	702073042GES	\$161.50	
2½" x 1½"	73.0 x 48.3mm	702073048GES	\$182.50	
3" x 1"	88.9 x 33.4mm	702089034GES	\$182.50	
3" x 1½"	88.9 x 48.3mm	702089048GES	\$209.50	
4" x ¾"	114.3 x 26.7mm	702114027GES	POA	
4" x 1"	114.3 x 33.4mm	702114034GES	POA	
4" x 1½"	114.3 x 48.3mm	702114048GES	\$287.50	
4" x 2"	114.3 x 60.3mm	702114060GES	\$287.50	
6" x 1"	168.3 x 33.4mm	702168034GES	POA	
6" x 1¼"	168.3 x 42.4mm	702168042GES	POA	
6" x 1½"	168.3 x 48.3mm	702168048GES	\$406.50	
6" x 2"	168.3 x 60.3mm	702168060GES	\$406.50	

Metric sizes available upon request.  
 \* Galvanised available upon request.  
 Orders for items in shaded areas **cannot** be cancelled or returned.


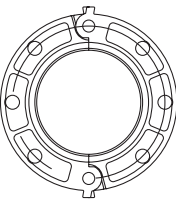
### #71 – Grooved Flange Adaptor PN16 with Grade “E” EPDM Type “A” Fire Protection Gasket

 For additional listings or approvals, visit our website at www.grinnell.com	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	2"	60.3mm	71DAA00601	\$126.75	71DAA00602	\$147.50
	2 1/2"	73.0mm	71DAA00731	\$148.25	71DAA00732	\$176.55
	76.1mm	76.1mm	71DAA00761	\$148.25	71DAA00762	\$176.55
	3"	88.9mm	71DAA00891	\$167.00	71DAA00892	\$200.75
	4"	114.3mm	71DAA01141	\$217.50	71DAA01142	\$265.25
	139.7mm	139.7mm	71DAA01391	\$262.00	71DAA01392	\$318.75
	165.1mm	165.1mm	71DAA01651	\$285.25	71DAA01652	\$347.25
	6"	168.3mm	71DAA01681	\$285.25	71DAA01682	\$347.25
	8"	219.1mm	71DAA02191	\$358.75	71DAA02192	\$448.75
	10"	273.0mm	71DAA02731	\$692.25	71DAA02732	\$879.75
	12"	323.9mm	71DAA03241	\$906.00	71DAA03242	\$1,164.25

Orders for items in shaded areas **cannot** be cancelled or returned.

**Technical Data Sheet: TFP1880**


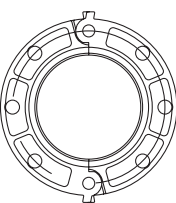
### #71 –Grooved Flange Adaptor PN10 with Grade “E” EPDM Type “A” Fire Protection Gasket

 For additional listings or approvals, visit our website at www.grinnell.com	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	139.7mm	139.7mm	71DMA81391	\$262.00	71DMA81392	\$318.75
	165.1mm	165.1mm	71DMA81651	\$285.25	71DMA81652	\$347.25
	6"	168.3mm	71DMA81681	\$285.25	71DMA81682	\$347.25
	8"	219.1mm	71DMA82191	\$358.75	71DMA82192	\$448.75
	10"	273.0mm	71DMA82731	\$692.25	71DMA82732	\$879.75
	12"	323.9mm	71DMA83241	\$906.00	71DMA83242	\$1,164.25

Orders for items in shaded areas **cannot** be cancelled or returned.

**Technical Data Sheet: TFP1880**


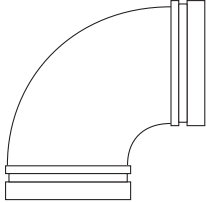
### #71 – Grooved Flange Adaptor - ANSI Class 125 with Grade “E” EPDM Type “A” Fire Protection Gasket

 For additional listings or approvals, visit our website at www.grinnell.com	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	2"	60.3mm	71BMA00601	\$126.75	71BMA00602	\$147.50
	2 1/2"	73.0mm	71BMA00731	\$148.25	71BMA00732	\$176.25
	3"	88.9mm	71BMA00891	\$167.00	71BMA00892	\$200.75
	4"	114.3mm	71BMA01141	\$217.50	71BMA01142	\$265.25
	139.7mm	139.7mm	71BMA01391	\$262.00	71BMA01392	\$318.75
	5"	141.3mm	71BMA01411	\$262.00	71BMA01412	\$318.75
	165.1mm	165.1mm	71BMA01651	\$285.25	71BMA01652	\$347.25
	6"	168.3mm	71BMA01681	\$285.25	71BMA01682	\$347.25
	8"	219.1mm	71BMA02191	\$358.75	71BMA02192	\$448.75
	10"	273.0mm	71BMA02731	\$692.25	71BMA02732	\$879.75
	12"	323.9mm	71BMA03241	\$906.00	71BMA03242	\$1,164.25

Orders for items in shaded areas **cannot** be cancelled or returned.

**Technical Data Sheet: TFP1880**


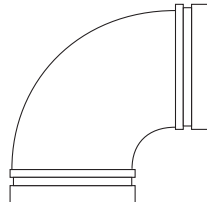
**#510S – G-FIRE Short Pattern Cast Grooved 90° Elbow**

 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	2"	60.3mm	510SA00601	\$29.00	510SA00602	\$34.50
	2 1/2"	73.0mm	510SA00731	\$41.25	510SA00732	\$48.75
	76.1mm	76.1mm	510SA00761	\$39.25	510SA00762	\$48.75
	3"	88.9mm	510SA00891	\$47.75	510SA00892	\$63.50
	4"	114.3mm	510SA01141	\$80.50	510SA01142	\$95.50
	139.7mm	139.7mm	510SA01391	\$304.75	510SA01392	\$215.00
	5"	141.3mm	510SA01411	\$304.75	510SA01412	\$215.00
	165.1mm	165.1mm	510SA01651	\$220.50	510SA01652	\$264.25
	6"	168.3mm	510SA01681	\$220.50	510SA01682	\$264.25
	8"	219.1mm	510SA02191	\$426.75	510SA02192	\$535.00

All elbows are cast fittings.  
Orders for items in shaded areas **cannot** be cancelled or returned.

**Technical Data Sheet: TFP1810**

**#510 – G-FIRE Standard Pattern Grooved 90° Elbow**


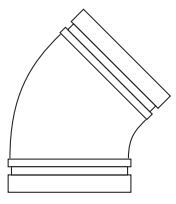
 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1"	33.4mm	510A000341	\$51.00	510A000342	\$67.75
	1 1/4"	42.4mm	510A000421	\$51.00	510A000422	\$67.75
	1 1/2"	48.3mm	510A000481	\$51.00	510A000482	\$67.75
	2"	60.3mm	510A000601	\$51.00	510A000602	\$67.75
	2 1/2"	73.0mm	510A000731	\$51.00	510A000732	\$67.75
	76.1mm	76.1mm	210M000761	\$55.75	210076G	\$67.75
	3"	88.9mm	510A000891	\$90.25	510A000892	\$113.00
	4"	114.3mm	510A001141	\$98.50	510A001142	\$137.75
	139.7mm	139.7mm	210M001391	\$236.00	210139G	\$305.25
	5"	141.3mm	510A001411	\$236.00	510A001412	\$305.25
	165.1mm	165.1mm	210M001651	\$277.25	210165G	\$367.50
	6"	168.3mm	510A001681	\$277.25	510A001682	\$367.50
	216.3mm	216.3mm	210M002161	\$579.00	210216G	\$763.25
	8"	219.1mm	510A002191	\$579.00	510A002192	\$763.25
	10"	273.0mm	510A002731	\$1,052.00	510A002732	\$1,343.75
12"	323.9mm	510A003241	\$1,604.75	510A003242	\$2,174.00	

All elbows are cast fittings.

**Technical Data Sheet: TFP1810**



### #501 – G-FIRE Standard Pattern Grooved 45° Elbow


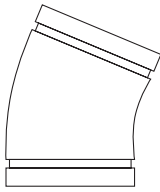
 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1"	33.4mm	501M000341	\$51.00	501M000342	\$64.25
	1 1/4"	42.4mm	501M000421	\$51.00	501M000422	\$64.25
	1 1/2"	48.3mm	501M000481	\$51.00	501M000482	\$64.25
	2"	60.3mm	501M000601	\$51.00	501M000602	\$64.25
	2 1/2"	73.0mm	501M000731	\$51.00	501M000732	\$64.25
	76.1mm	76.1mm	201M000761	\$51.00	201076G	\$64.25
	3"	88.9mm	501M000891	\$90.25	501M000892	\$106.75
	4"	114.3mm	501M001141	\$104.75	501M001142	\$137.25
	139.7mm	139.7mm	201M001391	\$236.00	201139G	\$292.75
	5"	141.3mm	501M001411	\$236.00	501M001412	\$292.75
	165.1mm	165.1mm	201M001651	\$277.25	201165G	\$350.25
	6"	168.3mm	501M001681	\$277.25	501M001682	\$350.25
	216.3mm	216.3mm	201M002161	\$579.00	201216G	\$726.75
	8"	219.1mm	501M002191	\$579.00	501M002192	\$726.75
	10"	273.0mm	501M002731	\$1,052.00	501M002732	\$1,148.00
12"	323.9mm	501M003241	\$1,604.75	501M003242	\$1,964.25	

All elbows are cast fittings.

Orders for items in shaded areas **cannot** be cancelled or returned.

**Technical Data Sheet: TFP1810**

### #212 and #312 – Grooved 22 1/2° Elbow


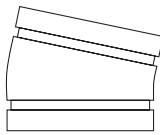
 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1"	33.4mm	312034M	\$325.00	312034G	\$336.75
	1 1/4" *	42.4mm	212042M	\$55.25	212042G	\$70.50
	1 1/2" *	48.3mm	212048M	\$55.25	212048G	\$70.50
	2" *	60.3mm	212060M	\$55.25	212060G	\$70.50
	2 1/2" *	73.0mm	212073M	\$55.25	212073G	\$70.50
	76.1mm *	76.1mm	212076M	\$55.25	212076G	\$70.50
	3" *	88.9mm	212089M	\$80.00	212089G	\$101.25
	4" *	114.3mm	212114M	\$106.50	212114G	\$138.00
	139.7mm *	139.7mm	212139M	\$328.00	212139G	\$395.75
	5" *	141.3mm	212141M	\$328.00	212141G	\$395.75
	6" *	168.3mm	212168M	\$299.75	212168G	\$382.00
	8" *	219.1mm	212219M	\$625.25	212219G	\$776.75
	10"	273.0mm	312273M	\$857.00	312273G	\$1,113.00
	12"	323.9mm	312324M	\$1,158.50	312324G	\$1,436.50

Elbow is segmentally welded except where a \* indicates it is available as a cast fitting.

Orders for items in shaded areas **cannot** be cancelled or returned.


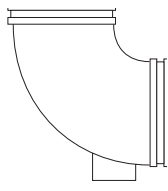
**Technical Data Sheet: TFP1810**

**#211 and #311 – Grooved 11<sup>1</sup>/<sub>4</sub>° Elbow**

 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1"	33.4mm	311034M	\$129.50	311034G	\$151.00
	1 <sup>1</sup> / <sub>4</sub> " *	42.4mm	211042M	\$55.25	211042G	\$70.50
	1 <sup>1</sup> / <sub>2</sub> " *	48.3mm	211048M	\$55.25	211048G	\$70.50
	2" *	60.3mm	211060M	\$129.00	211060G	\$151.00
	2 <sup>1</sup> / <sub>2</sub> " *	73.0mm	211073M	\$129.00	211073G	\$151.00
	76.1mm *	76.1mm	211076M	\$129.00	211076G	\$151.00
	3" *	88.9mm	211089M	\$80.00	211089G	\$99.75
	4" *	114.3mm	211114M	\$98.50	211114G	\$131.00
	139.7mm *	139.7mm	211139M	\$328.00	211139G	\$385.75
	5" *	141.3mm	211141M	\$328.00	211141G	\$385.75
	165.1mm *	165.1mm	211165M	\$299.75	211165G	\$362.25
	6" *	168.3mm	211168M	\$299.75	211168G	\$362.25
	8" *	219.1mm	211219M	\$534.25	211219G	\$635.00
	10"	273.0mm	311273M	\$800.00	311273G	\$955.00
12"	323.9mm	311324M	\$1,158.50	311324G	\$1,403.25	


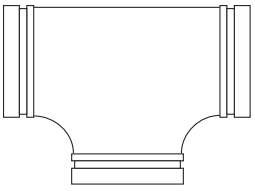
Elbow is segmentally welded except where a \* indicates it is available as a cast fitting.  
Orders for items in shaded areas **cannot** be cancelled or returned.  
**Technical Data Sheet: TFP1810**

**#510DE – G-FIRE 90° Elbow with 25mm Outlet**

 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	2"	60.3mm	510DE0601	\$120.00	510DE0602	\$154.75
	2 <sup>1</sup> / <sub>2</sub> " *	73.0mm	510DE0731	\$120.00	510DE0732	\$154.75
	3" *	88.9mm	510DE0891	\$153.50	510DE0892	\$183.75
	4" *	114.3mm	510DE1141	\$156.25	510DE1142	\$212.50
	6" *	168.3mm	510DE1681	\$275.00	510DE1682	\$391.00
	8"	219.1mm	510DE2191	POA	510DE2192	POA

Elbow is segmentally welded except where a \* indicates it is available as a cast fitting.  
Orders for items in shaded areas **cannot** be cancelled or returned.  
**Technical Data Sheet: TFP1810**

**#519S – G-FIRE Short Pattern Grooved Tee**


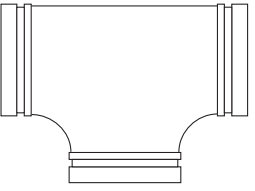
 For additional listings or approvals, visit our website at <a href="http://www.grinnell.com">www.grinnell.com</a>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	2"	60.3mm	519SA00601	\$44.25	519SA00602	\$51.00
	2½"	73.0mm	519SA00731	\$61.25	519SA00732	\$70.00
	76.1mm	76.1mm	519SA00761	\$61.25	519SA00762	\$70.00
	3"	88.9mm	519SA00891	\$76.00	519SA00892	\$98.00
	4"	114.3mm	519SA01141	\$115.25	519SA01142	\$151.25
	139.7mm	139.7mm	519SA01391	\$453.25	519SA01392	\$337.25
	5"	141.3mm	519SA01411	\$453.25	519SA01412	\$337.25
	165.1mm	165.1mm	519SA01651	\$386.25	519SA01652	\$405.00
	6"	168.3mm	519SA01681	\$386.25	519SA01682	\$405.00
	8"	219.1mm	519SA02191	\$659.75	519SA02192	\$872.00

All tees are cast fittings.

Orders for items in shaded areas **cannot** be cancelled or returned.

**Technical Data Sheet: TFP1810**

**#519 – G-FIRE Standard Pattern Grooved Tee**

 For additional listings or approvals, visit our website at <a href="http://www.grinnell.com">www.grinnell.com</a>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1"	33.4mm	519A000341	\$78.75	519A000342	\$103.50
	1¼"	42.4mm	519A000421	\$78.75	519A000422	\$103.50
	1½"	48.3mm	519A000481	\$78.75	519A000482	\$103.50
	2"	60.3mm	519A000601	\$78.75	519A000602	\$103.50
	2½"	73.0mm	519A000731	\$78.75	519A000732	\$103.50
	76.1mm	76.1mm	219M000761	\$78.75	219076G	\$103.50
	3"	88.9mm	519A000891	\$109.25	519A000892	\$150.00
	4"	114.3mm	519A001141	\$166.50	519A001142	\$226.50
	139.7mm	139.7mm	219M001391	\$389.75	219139G	\$494.50
	5"	141.3mm	519A001411	\$389.75	519A001412	\$494.50
	165.1mm	165.1mm	219M001651	\$449.75	219165G	\$613.75
	6"	168.3mm	519A001681	\$449.75	519A001682	\$613.75
	216.3mm	216.3mm	219M002161	\$986.00	219216G	\$1,294.75
	8"	219.1mm	519A002191	\$986.00	519A002192	\$1,294.75
	10"	273.0mm	519A002731	\$2,048.75	519A002732	\$2,653.00
12"	323.9mm	519A003241	\$2,855.50	519A003242	\$3,647.50	


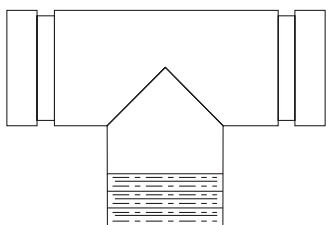
All tees are cast fittings.

Orders for items in shaded areas **cannot** be cancelled or returned.

**Technical Data Sheet: TFP1810**



**#320 Groove x Male BSP Thread – Tee**

 For additional listings or approvals, visit our website at <a href="http://www.grinnell.com">www.grinnell.com</a>	Pipe Size		Painted		Galvanised	
	Nominal Size	O.D. Size	Part Number	List Price	Part Number	List Price
	1"	33.4mm	320T034M	POA	320T034G	POA
	1 <sup>1</sup> / <sub>4</sub> "	42.4mm	320T042M	\$166.75	320T042G	\$196.75
	1 <sup>1</sup> / <sub>2</sub> "	48.3mm	320T048M	\$261.00	320T048G	\$307.50
	2"	60.3mm	320T060M	\$166.75	320T060G	\$196.75
	2 <sup>1</sup> / <sub>2</sub> "	73.0mm	320T073M	POA	320T073G	POA
	76.1mm	76.1mm	320T076M	POA	320T076G	POA
	3"	88.9mm	320T089M	\$222.25	320T089G	\$266.00
	4"	114.3mm	320T114M	\$346.50	320T114G	\$476.75
	139.7mm	139.7mm	320T139M	\$778.00	320T139G	POA
	5"	141.3mm	320T141M	\$778.00	320T141G	POA
	165.1mm	165.1mm	320T165M	\$890.50	320T165G	\$1,048.50
	6"	168.3mm	320T168M	\$890.50	320T168G	\$1,048.50
	8"	219.1mm	320T219M	POA	320T219G	POA
	10"	273.0mm	320T273M	POA	320T273G	POA
12"	323.9mm	320T324M	POA	320T324G	POA	

Tee is segmentally welded.

Also available with NPT threads, contact GRINNELL Products for details.

Orders for items in shaded areas **cannot** be cancelled or returned.

**Technical Data Sheet: TFP1810**

**#508 – Standpipe Tee**

Pipe Size		Painted		Galvanised	
Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
4" x 4" x 2 <sup>1</sup> / <sub>2</sub> "	114.3 x 114.3 x 73.0mm	50842251	\$245.00	50842252	\$299.25
6" x 6" x 2 <sup>1</sup> / <sub>2</sub> "	168.3 x 168.3 x 73.0mm	50863251	\$500.00	50863252	\$435.75

Orders for items in shaded areas **cannot** be cancelled or returned.


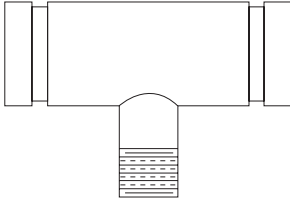
**#507/#50L – Bullhead Tee**

Pipe Size		Painted		Galvanised	
Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
5" x 5" x 8"	141.3 x 141.3 x 219.1mm	50753801	\$1,264.25	50753802	\$1,593.25
6" x 6" x 8"	168.3 x 168.3 x 219.1mm	50763801	\$1,446.00	50763802	\$1,787.75

Orders for items in shaded areas **cannot** be cancelled or returned.



**#323 – Reducing Tee with BSP Threaded Branch**


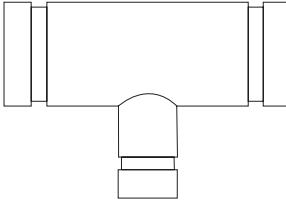
 <small>For additional listings or approvals, visit our website at <a href="http://www.grinnell.com">www.grinnell.com</a></small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	2" x 3/4"	60.3 x 26.7mm	323T060027M	\$195.50	323T060027G	\$230.00
	2" x 1"	60.3 x 33.4mm	323T060034M	\$178.25	323T060034G	\$210.00
	2" x 1 1/4"	60.3 x 42.4mm	323T060042M	\$300.00	323T060042G	\$320.25
	2" x 1 1/2"	60.3 x 48.3mm	323T060048M	\$178.25	323T060048G	\$211.25
	2 1/2" x 3/4"	73.0 x 26.7mm	323T073027M	\$350.00	323T073027G	\$361.50
	2 1/2" x 1"	73.0 x 33.4mm	323T073034M	\$178.25	323T073034G	\$210.00
	2 1/2" x 1 1/4"	73.0 x 42.4mm	323T073042M	\$390.25	323T073042G	\$400.75
	2 1/2" x 1 1/2"	73.0 x 48.3mm	323T073048M	\$178.25	323T073048G	\$211.25
	2 1/2" x 2"	73.0 x 60.3mm	323T073060M	\$178.25	323T073060G	\$213.25
	3" x 3/4"	88.9 x 26.7mm	323T089027M	\$327.25	323T089027G	\$347.50
	3" x 1"	88.9 x 33.4mm	323T089034M	\$178.25	323T089034G	\$222.75
	3" x 1 1/4"	88.9 x 42.4mm	323T089042M	\$440.25	323T089042G	\$468.75
	3" x 1 1/2"	88.9 x 48.3mm	323T089048M	\$178.25	323T089048G	\$224.25
	3" x 2"	88.9 x 60.3mm	323T089060M	\$178.25	323T089060G	\$224.25
	3" x 2 1/2"	88.9 x 73.0mm	323T089073M	\$430.00	323T089073G	\$466.00
	4" x 3/4"	114.3 x 26.7mm	323T114027M	\$475.25	323T114027G	\$585.25
	4" x 1"	114.3 x 33.4mm	323T114034M	\$222.50	323T114034G	\$275.25
	4" x 1 1/4"	114.3 x 42.4mm	323T114042M	\$458.50	323T114042G	\$494.00
	4" x 1 1/2"	114.3 x 48.3mm	323T114048M	\$222.50	323T114048G	\$279.50
	4" x 2"	114.3 x 60.3mm	323T114060M	\$222.50	323T114060G	\$279.50
	4" x 2 1/2"	114.3 x 73.0mm	323T114073M	\$222.50	323T114073G	\$287.25
	4" x 3"	114.3 x 88.9mm	323T114089M	\$222.50	323T114089G	\$288.50
	5" x 2"	141.3 x 60.3mm	323T141060M	\$477.00	323T141060G	\$520.75
	5" x 2 1/2"	141.3 x 73.0mm	323T141073M	\$429.25	323T141073G	\$543.50
	5" x 3"	141.3 x 88.9mm	323T141089M	\$396.75	323T141089G	\$499.75
	5" x 4"	141.3 x 114.3mm	323T141114M	\$429.25	323T141114G	\$585.25
	6" x 1"	168.3 x 33.4mm	323T168034M	\$652.00	323T168034G	\$757.50
	6" x 1 1/2"	168.3 x 48.3mm	323T168048M	\$596.50	323T168048G	\$725.25
	6" x 2"	168.3 x 60.3mm	323T168060M	\$557.25	323T168060G	\$992.00
	6" x 2 1/2"	168.3 x 73.0mm	323T168073M	\$557.25	323T168073G	\$992.00
	6" x 3"	168.3 x 88.9mm	323T168089M	\$557.25	323T168089G	\$992.00
	6" x 4"	168.3 x 114.3mm	323T168114M	\$704.25	323T168114G	\$757.50
	6" x 5"	168.3 x 141.3mm	323T168141M	\$557.25	323T168141G	\$992.00
	8" x 2"	219.1 x 60.3mm	323T219060M	\$682.25	323T219060G	\$941.50
	8" x 3"	219.1 x 88.9mm	323T219089M	\$941.50	323T219089G	\$1,220.75
	8" x 4"	219.1 x 114.3mm	323T219114M	\$986.00	323T219114G	\$1,274.75
	8" x 5"	219.1 x 141.3mm	323T219141M	\$986.00	323T219141G	\$1,282.50
	8" x 165.1mm	219.1 x 165.1mm	323T219165M	\$1,091.00	323T219165G	\$1,500.00
	8" x 6"	219.1 x 168.3mm	323T219168M	\$1,091.00	323T219168G	\$1,500.00
	10" x 2"	273.0 x 60.3mm	323T273060M	\$1,188.50	323T273060G	\$1,736.50
	10" x 3"	273.0 x 88.9mm	323T273089M	\$1,188.50	323T273089G	\$1,474.00
	10" x 4"	273.0 x 114.3mm	323T273114M	\$1,242.25	323T273114G	\$1,588.00
	10" x 5"	273.0 x 141.3mm	323T273141M	\$1,092.50	323T273141G	\$1,621.50
	10" x 6"	273.0 x 168.3mm	323T273168M	\$1,270.00	323T273168G	\$1,642.25
	10" x 8"	273.0 x 219.1mm	323T273219M	\$1,713.00	323T273219G	\$1,915.50
	12" x 3"	323.9 x 88.9mm	323T324089M	\$1,600.00	323T324089G	\$2,066.00
	12" x 4"	323.9 x 114.3mm	323T324114M	\$1,714.50	323T324114G	\$2,202.25
	12" x 5"	323.9 x 141.3mm	323T324141M	\$1,813.00	323T324141G	\$2,354.75
12" x 6"	323.9 x 168.3mm	323T324168M	\$1,834.50	323T324168G	\$2,399.50	
12" x 8"	323.9 x 219.1mm	323T324219M	\$1,856.00	323T324219G	\$2,431.75	
12" x 10"	323.9 x 273.0mm	323T324273M	\$1,973.25	323T324273G	\$2,435.00	

All tees are segmentally welded.

NPT threads available on request, contact GRINNELL Products.

Orders for items in shaded areas **cannot** be cancelled or returned.

**#221 and #321 – Grooved Reducing Tee**

 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1" x 3/4"	33.4 x 26.7mm	321034027M	POA	321034027G	POA
	1 1/4" x 1"	42.4 x 33.4mm	321042034M	POA	321042034G	POA
	1 1/2" x 3/4"	48.3 x 26.7mm	321048027M	POA	321048027G	POA
	1 1/2" x 1"	48.3 x 33.4mm	321048034M	\$196.25	321048034G	\$201.75
	1 1/2" x 1 1/4"	48.3 x 42.4mm	321048042M	\$148.25	321048042G	\$164.25
	2" x 3/4"	60.3 x 26.7mm	321060027M	\$185.00	321060027G	\$217.50
	2" x 1"	60.3 x 33.4mm	321060034M	\$168.50	321060034G	\$278.00
	2" x 1 1/4"	60.3 x 42.4mm	321060042M	\$210.50	321060042G	\$221.00
	* 2" x 1 1/2"	60.3 x 48.3mm	221060048M	\$168.50	221060048G	\$181.50
	2 1/2" x 3/4"	73.0 x 26.7mm	321073027M	\$227.75	321073027G	\$246.50
	2 1/2" x 1"	73.0 x 33.4mm	321073034M	\$168.50	321073034G	\$198.00
	2 1/2" x 1 1/4"	73.0 x 42.4mm	321073042M	\$254.25	321073042G	\$299.75
	2 1/2" x 1 1/2"	73.0 x 48.3mm	321073048M	\$168.50	321073048G	\$181.50
	* 2 1/2" x 2"	73.0 x 60.3mm	221073060M	\$168.50	221073060G	\$200.75
	76.1mm x 1 1/2"	76.1 x 48.3mm	321076048M	\$168.50	321076048G	\$181.50
	* 76.1mm x 2"	76.1 x 60.3mm	221076060M	\$168.50	221076060G	\$200.75
	3" x 3/4"	88.9 x 26.7mm	321089027M	\$263.00	321089027G	\$274.00
	* 3" x 1"	88.9 x 33.4mm	221089034M	\$148.75	221089034G	\$190.50
	3" x 1 1/4"	88.9 x 42.4mm	321089042M	\$209.25	321089042G	\$276.00
	* 3" x 1 1/2"	88.9 x 48.3mm	221089048M	\$148.75	221089048G	\$173.25
	* 3" x 2"	88.9 x 60.3mm	221089060M	\$148.75	221089060G	\$191.75
	* 3" x 2 1/2"	88.9 x 73.0mm	221089073M	\$148.75	221089073G	\$191.75
	* 3" x 76.1mm	88.9 x 76.1mm	221089076M	\$148.75	221089076G	\$191.75
	4" x 3/4"	114.3 x 26.7mm	321114027M	\$336.00	321114027G	\$358.75
	4" x 1"	114.3 x 33.4mm	321114034M	\$200.75	321114034G	\$250.50
	4" x 1 1/4"	114.3 x 42.4mm	321114042M	\$496.75	321114042G	\$460.75
	4" x 1 1/2"	114.3 x 48.3mm	321114048M	\$211.75	321114048G	\$226.75
	* 4" x 2"	114.3 x 60.3mm	221114060M	\$200.75	221114060G	\$264.00
	* 4" x 2 1/2"	114.3 x 73.0mm	221114073M	\$200.75	221114073G	\$264.00
	* 4" x 76.1mm	114.3 x 76.1mm	221114076M	\$200.75	221114076G	\$264.00
	* 4" x 3"	114.3 x 88.9mm	221114089M	\$200.75	221114089G	\$264.00
	* 139.7mm x 3"	139.7 x 88.9mm	221139089M	\$396.75	221139089G	\$499.75
	* 139.7mm x 4"	139.7 x 114.3mm	221139114M	\$429.50	221139114G	\$543.25
	5" x 1"	141.3 x 33.4mm	321141034M	\$442.75	321141034G	\$545.25
	5" x 1 1/2"	141.3 x 48.3mm	321141048M	\$562.75	321141048G	\$609.50
	5" x 2"	141.3 x 60.3mm	321141060M	\$487.50	321141060G	\$602.00
	* 5" x 2 1/2"	141.3 x 73.0mm	221141073M	\$396.75	221141073G	\$452.25
	* 5" x 3"	141.3 x 88.9mm	221141089M	\$396.75	221141089G	\$499.75
	* 5" x 4"	141.3 x 114.3mm	221141114M	\$429.50	221141114G	\$543.25
	* 165.1mm x 3"	165.1 x 88.9mm	221165089M	\$473.25	221165089G	\$621.50
	* 165.1mm x 4"	165.1 x 114.3mm	221165114M	\$473.25	221165114G	\$621.50

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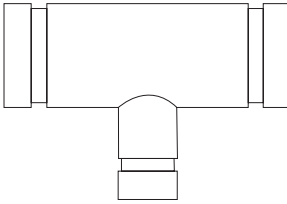
Preparation Equipment

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### #221 and #321 – Grooved Reducing Tee


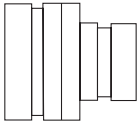
 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
 <p>(Continued from Previous Page)</p>	6" x 1"	168.3 x 33.4mm	321168034M	\$534.25	321168034G	\$654.75
	6" x 1 1/2"	168.3 x 48.3mm	321168048M	\$551.75	321168048G	\$756.50
	* 6" x 2"	168.3 x 60.3mm	221168060M	\$473.25	221168060G	\$621.50
	* 6" x 2 1/2"	168.3 x 73.0mm	221168073M	\$473.25	221168073G	\$621.50
	* 6" x 76.1mm	168.3 x 76.1mm	221168076M	\$473.25	221168076G	\$621.50
	* 6" x 3"	168.3 x 88.9mm	221168089M	\$473.25	221168089G	\$621.50
	* 6" x 4"	168.3 x 114.3mm	221168114M	\$473.25	221168114G	\$621.50
	6" x 139.7mm	168.3 x 139.7mm	321168139M	\$473.25	321168139G	\$565.75
	6" x 5"	168.3 x 141.3mm	321168141M	\$473.25	321168141G	\$565.75
	8" x 1 1/2"	219.1 x 48.3mm	321219048M	\$682.25	321219048G	\$830.00
	8" x 2"	219.1 x 60.3mm	321219060M	\$1,028.75	321219060G	\$861.50
	8" x 2 1/2"	219.1 x 73.0mm	321219073M	\$1,108.25	321219073G	\$861.50
	8" x 3"	219.1 x 88.9mm	321219089M	\$682.25	321219089G	\$878.50
	* 8" x 4"	219.1 x 114.3mm	221219114M	\$986.00	221219114G	\$1,274.75
	8" x 139.7mm	219.1 x 139.7mm	321219139M	\$986.00	321219139G	\$1,283.50
	8" x 5"	219.1 x 141.3mm	321219141M	\$986.00	321219141G	\$1,283.50
	* 8" x 165.1mm	219.1 x 165.1mm	221219165M	\$986.00	221219165G	\$1,289.00
	* 8" x 6"	219.1 x 168.3mm	221219168M	\$986.00	221219168G	\$1,289.00
	* 216.3 x 165.1mm	216.3 x 165.1mm	221216165M	\$986.00	221216165G	\$1,289.00
	10" x 1 1/2"	273.0 x 48.3mm	321273048M	POA	321273048G	POA
	10" x 2"	273.0 x 60.3mm	321273060M	\$1,188.75	321273060G	\$1,804.50
	10" x 2 1/2"	273.0 x 73.0mm	321273073M	\$1,188.75	321273073G	\$1,498.00
	10" x 3"	273.0 x 88.9mm	321273089M	\$1,188.75	321273089G	\$1,891.25
	* 10" x 4"	273.0 x 114.3mm	221273114M	\$1,242.25	221273114G	\$1,588.25
	10" x 5"	273.0 x 141.3mm	321273141M	\$1,269.50	321273141G	POA
	* 10" x 6"	273.0 x 168.3mm	221273168M	\$1,269.50	221273168G	\$2,062.25
	* 10" x 8"	273.0 x 219.1mm	221273219M	\$1,293.00	221273219G	\$2,073.00
	12" x 1"	323.9 x 33.4mm	321324034M	POA	321324034G	POA
	12" x 2"	323.9 x 60.3mm	321324060M	POA	321324060G	POA
	12" x 2 1/2"	323.9 x 73.0mm	321324073M	POA	321324073G	POA
	12" x 3"	323.9 x 88.9mm	321324089M	\$1,600.00	321324089G	\$2,065.75
	12" x 4"	323.9 x 114.3mm	321324114M	\$1,714.50	321324114G	\$2,412.25
	12" x 5"	323.9 x 141.3mm	321324141M	POA	321324141G	POA
	12" x 6"	323.9 x 168.3mm	321324168M	\$1,834.50	321324168G	\$2,691.75
	12" x 8"	323.9 x 219.1mm	321324219M	\$1,885.75	321324219G	\$2,751.75
	12" x 10"	323.9 x 273.0mm	321324273M	\$1,973.25	321324273G	\$3,069.25

Tee is segmentally welded except where a \* indicates it is available as a cast fitting.

Orders for items in shaded areas **cannot** be cancelled or returned.

#### Technical Data Sheet: TFP1810

**#250 and #350 – Grooved Concentric Reducer**

 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1 1/4" x 3/4"	42.4 x 26.7mm	350042027M	\$232.00	350042027G	\$254.25
	* 1 1/4" x 1"	42.4 x 33.4mm	250042034M	\$242.50	250042034G	\$267.50
	1 1/2" x 3/4"	48.3 x 26.7mm	350048027M	\$273.50	350048027G	\$295.50
	* 1 1/2" x 1"	48.3 x 33.4mm	250048034M	\$60.00	250048034G	\$70.25
	* 1 1/2" x 1 1/4"	48.3 x 42.4mm	250048042M	\$60.00	250048042G	\$70.25
	2" x 3/4"	60.3 x 26.7mm	350060027M	\$60.00	350060027G	\$70.25
	* 2" x 1"	60.3 x 33.4mm	250060034M	\$60.00	250060034G	\$70.25
	* 2" x 1 1/4"	60.3 x 42.4mm	250060042M	\$65.50	250060042G	\$77.00
	* 2" x 1 1/2"	60.3 x 48.3mm	250060048M	\$60.00	250060048G	\$70.25
	2 1/2" x 3/4"	73.0 x 26.7mm	350073027M	\$476.00	350073027G	\$514.25
	2 1/2" x 1"	73.0 x 33.4mm	350073034M	\$374.00	350073034G	\$410.75
	* 2 1/2" x 1 1/4"	73.0 x 42.4mm	250073042M	\$60.00	250073042G	\$70.25
	* 2 1/2" x 1 1/2"	73.0 x 48.3mm	250073048M	\$60.00	250073048G	\$70.25
	* 2 1/2" x 2"	73.0 x 60.3mm	250073060M	\$60.00	250073060G	\$70.25
	* 76.1mm x 1 1/4"	76.1 x 42.4mm	250076042M	\$60.00	250076042G	\$70.25
	* 76.1mm x 1 1/2"	76.1 x 48.3mm	250076048M	\$60.00	250076048G	\$70.25
	* 76.1mm x 2"	76.1 x 60.3mm	250076060M	\$60.00	250076060G	\$70.25
	3" x 3/4"	88.9 x 26.7mm	350089027M	\$479.25	350089027G	\$536.00
	3" x 1"	88.9 x 33.4mm	350089034M	\$65.50	350089034G	\$79.75
	3" x 1 1/4"	88.9 x 42.4mm	350089042M	\$371.25	350089042G	\$416.75
	* 3" x 1 1/2"	88.9 x 48.3mm	250089048M	\$71.75	250089048G	\$88.00
	* 3" x 2"	88.9 x 60.3mm	250089060M	\$52.50	250089060G	\$64.50
	* 3" x 2 1/2"	88.9 x 73.0mm	250089073M	\$71.75	250089073G	\$87.00
	* 3" x 76.1mm	88.9 x 76.1mm	250089076M	\$71.75	250089076G	\$87.00
	4" x 1"	114.3 x 33.4mm	350114034M	\$78.75	350114034G	\$97.50
	4" x 1 1/4"	114.3 x 42.4mm	350114042M	\$613.25	350114042G	\$687.00
	4" x 1 1/2"	114.3 x 48.3mm	350114048M	\$469.25	350114048G	\$513.50
	* 4" x 2"	114.3 x 60.3mm	250114060M	\$70.00	250114060G	\$86.25
	* 4" x 2 1/2"	114.3 x 73.0mm	250114073M	\$87.00	250114073G	\$106.00
	* 4" x 76.1mm	114.3 x 76.1mm	250114076M	\$87.00	250114076G	\$106.00
	* 4" x 3"	114.3 x 88.9mm	250114089M	\$87.00	250114089G	\$106.00
	* 139.7mm x 3"	139.7 x 88.9mm	250139089M	\$101.25	250139089G	\$125.00
	* 139.7mm x 4"	139.7 x 114.3mm	250139114M	\$120.50	250139114G	\$151.00
	5" x 2"	141.3 x 60.3mm	350141060M	\$863.00	350141060G	\$953.00
	5" x 2 1/2"	141.3 x 73.0mm	350141073M	\$669.50	350141073G	\$726.50
	* 5" x 3"	141.3 x 88.9mm	250141089M	\$101.25	250141089G	\$125.00
	* 5" x 4"	141.3 x 114.3mm	250141114M	\$120.50	250141114G	\$151.00
	* 165.1mm x 3"	165.1 x 88.9mm	250165089M	\$159.75	250165089G	\$199.50
	* 165.1mm x 4"	165.1 x 114.3mm	250165114M	\$139.50	250165114G	\$181.00
	* 165.1 x 139.7mm	165.1 x 139.7mm	250165139M	\$206.25	250165139G	\$256.75
	* 6" x 1"	168.3 x 33.4mm	250168034M	\$159.75	250168034G	\$199.75
	* 6" x 1 1/2"	168.3 x 48.3mm	250168048M	POA	250168048G	POA
	* 6" x 2"	168.3 x 60.3mm	250168060M	\$159.75	250168060G	\$199.50
	* 6" x 2 1/2"	168.3 x 73.0mm	250168073M	\$178.25	250168073G	\$219.00
	* 6" x 76.1mm	168.3 x 76.1mm	250168076M	\$178.25	250168076G	\$219.00
	* 6" x 3"	168.3 x 88.9mm	250168089M	\$159.75	250168089G	\$199.50
	* 6" x 4"	168.3 x 114.3mm	250168114M	\$139.50	250168114G	\$181.00
	* 6" x 139.7mm	168.3 x 139.7mm	250168139M	\$206.25	250168139G	\$256.75
	* 6" x 5"	168.3 x 141.3mm	250168141M	\$206.25	250168141G	\$256.75
	* 8" x 3"	219.1 x 88.9mm	250219089M	\$285.25	250219089G	\$355.50
* 8" x 4"	219.1 x 114.3mm	250219114M	\$285.25	250219114G	\$357.75	
* 8" x 139.7mm	219.1 x 139.7mm	250219139M	\$285.25	250219139G	\$360.00	
* 8" x 5"	219.1 x 141.3mm	250219141M	\$285.25	250219141G	\$360.00	
* 8" x 165.1mm	219.1 x 165.1mm	250219165M	\$363.00	250219165G	\$454.75	
* 8" x 6"	219.1 x 168.3mm	250219168M	\$363.00	250219168G	\$454.75	

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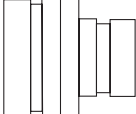
Gaskets & Spare Parts

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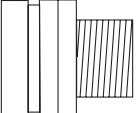
**#250 and #350 – Grooved Concentric Reducer**

 For additional listings or approvals, visit our website at www.grinnell.com	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
 (Continued from Previous Page)	10" x 4"	273.0 x 114.3mm	<b>350273114M</b>	\$676.25	<b>350273114G</b>	\$833.25
	10" x 5"	273.0 x 141.3mm	<b>350273141M</b>	\$1,489.75	<b>350273141G</b>	\$1,700.00
	* 10" x 165.1mm	273.0 x 165.1mm	<b>250273165M</b>	\$739.50	<b>250273165G</b>	\$923.00
	* 10" x 6"	273.0 x 168.3mm	<b>250273168M</b>	\$739.50	<b>250273168G</b>	\$923.00
	* 10" x 8"	273.0 x 219.1mm	<b>250273219M</b>	\$739.50	<b>250273219G</b>	\$938.00
	* 12" x 4"	323.9 x 114.3mm	<b>250324114M</b>	\$3,242.25	<b>250324114G</b>	\$3,858.75
	* 12" x 6"	323.9 x 168.3mm	<b>250324168M</b>	\$882.50	<b>250324168G</b>	\$1,090.75
	* 12" x 8"	323.9 x 219.1mm	<b>250324219M</b>	\$1,324.50	<b>250324219G</b>	\$1,564.25
	* 12" x 10"	323.9 x 273.0mm	<b>250324273M</b>	\$1,324.50	<b>250324273G</b>	\$1,640.50

Reducer is segmentally welded except where a \* indicates it is available as a cast fitting.

 Orders for items in shaded areas **cannot** be cancelled or returned.

**Technical Data Sheet: TFP1810**
**#372 Groove x Male BSP Thread – Reducer**

 For additional listings or approvals, visit our website at www.grinnell.com	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1 1/2" x 1"	48.3 x 33.4mm	<b>372T048034M</b>	\$62.00	<b>372T048034G</b>	\$76.40
	1 1/2" x 1 1/4"	48.3 x 42.4mm	<b>372T048042M</b>	\$65.50	<b>372T048042G</b>	\$77.00
	2" x 3/4"	60.3 x 26.7mm	<b>372T060027M</b>	\$62.00	<b>372T060027G</b>	\$76.40
	2" x 1"	60.3 x 33.4mm	<b>372T060034M</b>	\$62.00	<b>372T060034G</b>	\$76.40
	2" x 1 1/4"	60.3 x 42.4mm	<b>372T060042M</b>	\$62.00	<b>372T060042G</b>	\$76.40
	2" x 1 1/2"	60.3 x 48.3mm	<b>372T060048M</b>	\$62.00	<b>372T060048G</b>	\$76.40
	2 1/2" x 1"	73.0 x 33.4mm	<b>372T073034M</b>	\$360.75	<b>372T073034G</b>	\$384.75
	2 1/2" x 1 1/4"	73.0 x 42.4mm	<b>372T073042M</b>	\$88.25	<b>372T073042G</b>	\$109.00
	2 1/2" x 1 1/2"	73.0 x 48.3mm	<b>372T073048M</b>	\$92.50	<b>372T073048G</b>	\$109.00
	2 1/2" x 2"	73.0 x 60.3mm	<b>372T073060M</b>	\$62.00	<b>372T073060G</b>	\$76.50
	3" x 3/4"	88.9 x 26.7mm	<b>372T089027M</b>	\$451.00	<b>372T089027G</b>	\$480.75
	3" x 1"	88.9 x 33.4mm	<b>372T089034M</b>	\$67.75	<b>372T089034G</b>	\$81.50
	3" x 1 1/2"	88.9 x 48.3mm	<b>372T089048M</b>	\$76.50	<b>372T089048G</b>	\$91.75
	3" x 2"	88.9 x 60.3mm	<b>372T089060M</b>	\$76.50	<b>372T089060G</b>	\$91.75
	3" x 2 1/2"	88.9 x 73.0mm	<b>372T089073M</b>	\$92.50	<b>372T089073G</b>	\$109.00
	4" x 1"	114.3 x 33.4mm	<b>372T114034M</b>	\$87.50	<b>372T114034G</b>	\$106.00
	4" x 1 1/2"	114.3 x 48.3mm	<b>372T114048M</b>	\$491.00	<b>372T114048G</b>	\$529.50
	4" x 2"	114.3 x 60.3mm	<b>372T114060M</b>	\$132.50	<b>372T114060G</b>	\$112.00
	4" x 2 1/2"	114.3 x 73.0mm	<b>372T114073M</b>	\$93.50	<b>372T114073G</b>	\$115.00
	4" x 3"	114.3 x 88.9mm	<b>372T114089M</b>	\$114.25	<b>372T114089G</b>	\$136.00
	5" x 4"	141.3 x 114.3mm	<b>372T141114M</b>	\$653.75	<b>372T141114G</b>	\$711.50
	6" x 1"	168.3 x 33.4mm	<b>372T168034M</b>	\$178.25	<b>372T168034G</b>	\$219.00
	6" x 2"	168.3 x 60.3mm	<b>372T168060M</b>	\$178.25	<b>372T168060G</b>	\$219.00
	6" x 2 1/2"	168.3 x 73.0mm	<b>372T168073M</b>	\$178.25	<b>372T168073G</b>	\$219.00
	6" x 3"	168.3 x 88.9mm	<b>372T168089M</b>	\$178.25	<b>372T168089G</b>	\$219.00
	6" x 4"	168.3 x 114.3mm	<b>372T168114M</b>	\$1,074.25	<b>372T168114G</b>	\$1,190.00
	6" x 5"	168.3 x 141.3mm	<b>372T168141M</b>	POA	<b>372T168141G</b>	POA


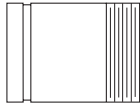
Reducer is segmentally welded.

Available with NPT threads, contact GRINNELL Products for details.


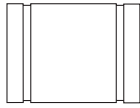
 Orders for items in shaded areas **cannot** be cancelled or returned.

**Technical Data Sheet: TFP1810**

**#391 Groove x Male BSP Thread – Adaptor Nipple**


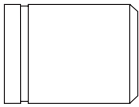
 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size			Painted		Galvanised	
	Nominal Size (O.D. x Length)	Outside Diameter	Length	Part Number	List Price	Part Number	List Price
	1" x 4"	33.4mm	101.6mm	391T034100M	POA	391T034100G	POA
	1 1/4" x 4"	42.4mm	101.6mm	391T042100M	\$30.00	391T042100G	POA
	1 1/2" x 4"	48.3mm	101.6mm	391T048100M	\$30.00	391T048100G	POA
	2" x 4"	60.3mm	101.6mm	391T060100M	\$30.00	391T060100G	POA
	2" x 6"	60.3mm	152.4mm	391T060150M	\$48.00	391T060150G	POA
	2 1/2" x 4"	73.0mm	101.6mm	391T073100M	\$35.00	391T073100G	POA
	3" x 4"	88.9mm	101.6mm	391T089100M	\$45.00	391T089100G	POA
	3" x 6"	88.9mm	152.4mm	391T089150M	\$70.00	391T089150G	POA
	4" x 6"	114.3mm	152.4mm	391T114150M	\$71.00	391T114150G	POA
	5" x 6"	141.3mm	152.4mm	391T141150M	\$147.00	391T141150G	POA
	6" x 6"	168.3mm	152.4mm	391T168150M	POA	391T168150G	POA
	8" x 6"	219.1mm	152.4mm	391T219150M	POA	391T219150G	POA
10" x 8"	273.0mm	203.2mm	391T273200M	\$308.75	391T273200G	POA	
12" x 8"	323.9mm	203.2mm	391T324200M	\$387.25	391T324200G	POA	
Adaptor Nipple is segmentally welded.							
Available with NPT threads, contact GRINNELL Products for details.							
Orders for items in shaded areas <b>cannot</b> be cancelled or returned.							
<b>Technical Data Sheet: TFP1810</b>							

**#392 Groove x Groove – Adaptor Nipple**

 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size			Painted		Galvanised	
	Nominal Size (O.D. x Length)	Outside Diameter	Length	Part Number	List Price	Part Number	List Price
	1" x 4"	33.4mm	101.6mm	392034100M	POA	392034100G	POA
	1 1/4" x 4"	42.4mm	101.6mm	392042100M	\$30.00	392042100G	POA
	1 1/2" x 4"	48.3mm	101.6mm	392048100M	\$30.00	392048100G	POA
	2" x 4"	60.3mm	101.6mm	392060100M	\$30.00	392060100G	POA
	2 1/2" x 4"	73.0mm	101.6mm	392073100M	\$35.00	392073100G	POA
	3" x 4"	88.9mm	101.6mm	392089100M	\$45.00	392089100G	POA
	4" x 6"	114.3mm	152.4mm	392114150M	\$71.00	392114150G	POA
	5" x 6"	141.3mm	152.4mm	392141150M	\$147.00	392141150G	POA
	6" x 6"	168.3mm	152.4mm	392168150M	\$189.50	392168150G	POA
	8" x 6"	219.1mm	152.4mm	392219150M	\$212.50	392219150G	POA
	10" x 8"	273.0mm	203.2mm	392273200M	\$308.75	392273200G	POA
	12" x 8"	323.9mm	203.2mm	392324200M	\$387.25	392324200G	POA
Adaptor Nipple is segmentally welded.							
Orders for items in shaded areas <b>cannot</b> be cancelled or returned.							
<b>Technical Data Sheet: TFP1810</b>							



### #393 Groove x Plain – Adaptor Nipple


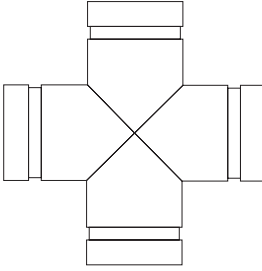
 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size			Painted		Galvanised	
	Nominal Size (O.D. x Length)	Outside Diameter	Length	Part Number	List Price	Part Number	List Price
	1" x 4"	33.4mm	101.6mm	393034100M	POA	393034100G	POA
	1 1/4" x 4"	42.4mm	101.6mm	393042100M	\$30.00	393042100G	POA
	1 1/2" x 4"	48.3mm	101.6mm	393048100M	\$30.00	393048100G	POA
	2" x 4"	60.3mm	101.6mm	393060100M	\$30.00	393060100G	POA
	2 1/2" x 4"	73.0mm	101.6mm	393073100M	\$35.00	393073100G	POA
	3" x 4"	88.9mm	101.6mm	393089100M	\$45.00	393089100G	POA
	4" x 6"	114.3mm	152.4mm	393114150M	\$71.00	393114150G	POA
	5" x 6"	141.3mm	152.4mm	393141150M	\$147.00	393141150G	POA
	6" x 6"	168.3mm	152.4mm	393168150M	\$189.50	393168150G	POA
	8" x 6"	219.1mm	152.4mm	393219150M	\$212.50	393219150G	POA
	10" x 8"	273.0mm	203.2mm	393273200M	\$308.75	393273200G	POA
	12" x 8"	323.9mm	203.2mm	393324200M	\$387.25	393324200G	POA

Adaptor Nipple is segmentally welded.

Orders for items in shaded areas **cannot** be cancelled or returned.

**Technical Data Sheet: TFP1810**

### #227 and #327 – Grooved Cross

 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1"	33.4mm	327034M	\$192.50	327034G	\$222.00
	1 1/4" *	42.4mm	227042M	\$232.00	227042G	\$270.25
	1 1/2" *	48.3mm	227048M	\$249.75	227048G	\$289.75
	2" *	60.3mm	227060M	\$142.25	227060G	\$169.75
	2 1/2" *	73.0mm	227073M	\$142.25	227073G	\$169.75
	76.1mm *	76.1mm	227076M	\$142.25	227076G	\$169.75
	3" *	88.9mm	227089M	\$253.75	227089G	\$311.00
	4" *	114.3mm	227114M	\$421.50	227114G	\$518.75
	139.7mm *	139.7mm	227139M	\$859.50	227139G	\$1,036.75
	5" *	141.3mm	227141M	\$859.50	227141G	\$1,036.75
	165.1mm *	165.1mm	227165M	\$1,104.75	227165G	\$1,340.50
	6" *	168.3mm	227168M	\$1,104.75	227168G	\$1,340.50
	216.3mm *	216.3mm	227216M	\$1,454.75	227216G	\$1,799.75
	8" *	219.1mm	227219M	\$1,454.75	227219G	\$1,799.75
10" *	273.0mm	227273M	\$2,480.00	227273G	\$3,067.50	
12" *	323.9mm	227324M	\$3,578.25	227324G	\$4,458.75	


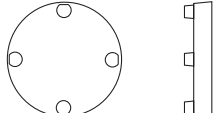
Cross is segmentally welded except where a \* indicates it is available as a cast fitting.

Orders for items in shaded areas **cannot** be cancelled or returned.

**Technical Data Sheet: TFP1810**


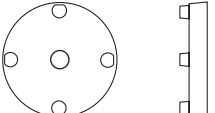


**#560/#260 and #360 – G-FIRE Grooved Cap**

 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1"	33.4mm	360M000341	\$42.75	360034G	\$51.75
	* 1 1/4"	42.4mm	260M000421	\$42.75	260042G	\$51.75
	* 1 1/2"	48.3mm	260M000481	\$42.75	260048G	\$51.75
	* 2"	60.3mm	260M000601	\$42.75	260060G	\$51.75
	* 2 1/2"	73.0mm	260M000731	\$42.75	260073G	\$51.75
	* 76.1mm	76.1mm	260M000761	\$42.75	260076G	\$51.75
	* 3"	88.9mm	260M000891	\$42.75	260089G	\$51.75
	* 4"	114.3mm	260M001141	\$46.25	260114G	\$60.75
	* 139.7mm	139.7mm	260M001391	\$109.00	260139G	\$146.25
	* 5"	141.3mm	260M001411	\$109.00	260141G	\$146.25
	* 165.1mm	165.1mm	260M001651	\$109.00	260165G	\$146.25
	* 6"	168.3mm	260M001681	\$109.00	260168G	\$146.25
	* 8"	219.1mm	260M002191	\$208.75	260219G	\$276.25
	* 10"	273.0mm	260M002731	\$440.00	260273G	\$573.00
	* 12"	323.9mm	260M003241	\$720.00	260324G	\$916.75


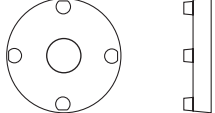
Cap is segmentally welded except where a \* indicates it is available as a cast fitting.  
Orders for items in shaded areas **cannot** be cancelled or returned.  
**Technical Data Sheet: TFP1810**

**#560/#260 – Grooved Cap with 15mm BSP Tap**

 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	2"	60.3mm	260M20051	\$149.00	260M20052	POA
	2 1/2"	73.0mm	260M25051	\$158.00	260M25052	POA
	76.1mm	76.1mm	260M26051	\$158.00	260M26052	POA
	3"	88.9mm	260M30051	\$181.50	260M30052	POA
	4"	114.3mm	260M42051	\$236.50	260M42052	POA
	139.7mm	139.7mm	260M52051	\$376.50	260M52052	POA
	5"	141.3mm	260M53051	\$376.50	260M53052	POA
	165.1mm	165.1mm	260M62051	\$425.50	260M62052	POA
	6"	168.3mm	260M63051	\$425.50	260M63052	POA
	8"	219.1mm	260M80051	\$796.00	260M80052	POA


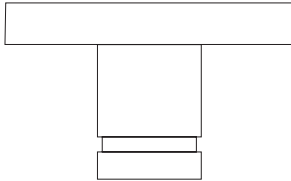
All Caps are cast fittings.  
Available with NPT threads, contact GRINNELL Products for details.  
**Technical Data Sheet: TFP1810**

**#560/#260 – Grooved Cap with 25mm BSP Tap**

 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	2"	60.3mm	260M20101	\$158.00	260M20102	POA
	2 1/2"	73.0mm	260M25101	\$168.00	260M25102	POA
	76.1mm	76.1mm	260M26101	\$168.00	260M26102	POA
	3"	88.9mm	260M30101	\$190.50	260M30102	POA
	4"	114.3mm	260M42101	\$248.00	260M42102	POA
	139.7mm	139.7mm	260M52101	\$384.00	260M52102	POA
	5"	141.3mm	260M53101	\$384.00	260M53102	POA
	165.1mm	165.1mm	260M62101	\$450.50	260M62102	POA
	6"	168.3mm	260M63101	\$450.50	260M63102	POA
	8"	219.1mm	260M80101	\$846.00	260M80102	POA

All Caps are cast fittings.  
Available with NPT threads, contact GRINNELL Products for details.  
**Technical Data Sheet: TFP1810**


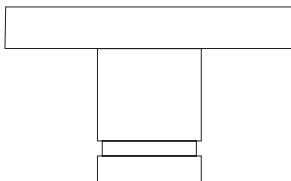
**#343 – Grooved x Flanged Adaptor – PN16**

 For additional listings or approvals, visit our website at <a href="http://www.grinnell.com">www.grinnell.com</a>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1"	33.4mm	343034M	POA	343034G	POA
	1 1/4"	42.4mm	343042M	POA	343042G	POA
	1 1/2"	48.3mm	343048M	\$217.50	343048G	\$343.75
	2"	60.3mm	343060M	\$217.50	343060G	\$343.75
	2 1/2"	73.0mm	343073M	\$435.25	343073G	\$512.75
	76.1mm	76.1mm	343076M	\$435.25	343076G	\$512.75
	3"	88.9mm	343089M	\$445.75	343089G	\$530.00
	4"	114.3mm	343114M	\$508.25	343114G	\$741.25
	139.7mm	139.7mm	343139M	\$703.50	343139G	\$716.25
	5"	141.3mm	343141M	\$703.50	343141G	\$716.25
	165.1mm	165.1mm	343165M	\$716.25	343165G	\$716.25
	6"	168.3mm	343168M	\$716.25	343168G	\$716.25
	8"	219.1mm	343219M	\$886.50	343219G	\$1,466.00
	10"	273.0mm	343273M	\$1,391.75	343273G	\$1,887.00
12"	323.9mm	343324M	\$1,905.50	343324G	\$2,832.25	

All Adaptors are segmentally welded.

 Orders for items in shaded areas **cannot** be cancelled or returned.


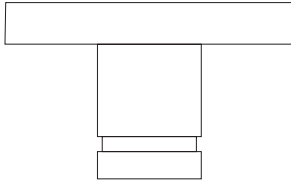
**Technical Data Sheet: TFP1810**
**#341 – Grooved x Flanged Adaptor 150 Lbs. – Schedule 40**

 For additional listings or approvals, visit our website at <a href="http://www.grinnell.com">www.grinnell.com</a>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1"	33.4mm	341034M	POA	341034G	POA
	1 1/4"	42.4mm	341042M	POA	341042G	POA
	1 1/2"	48.3mm	341048M	\$217.50	341048G	\$343.75
	2"	60.3mm	341060M	\$217.50	341060G	\$343.75
	2 1/2"	73.0mm	341073M	\$435.25	341073G	\$512.75
	3"	88.9mm	341089M	\$445.75	341089G	\$530.00
	4"	114.3mm	341114M	\$508.25	341114G	\$741.25
	5"	141.3mm	341141M	\$703.50	341141G	\$716.25
	6"	168.3mm	341168M	\$716.25	341168G	\$716.25
	8"	219.1mm	341219M	\$886.50	341219G	\$1,466.00
	10"	273.0mm	341273M	\$1,391.75	341273G	\$1,887.00
	12"	323.9mm	341324M	\$1,905.50	341324G	\$2,832.25

All Adaptors are segmentally welded.

 Orders for items in shaded areas **cannot** be cancelled or returned.


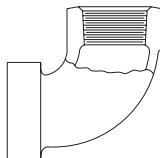
**Technical Data Sheet: TFP1810**
**#342 – Grooved x Flanged Adaptor 300 Lbs. – Schedule 40**

 For additional listings or approvals, visit our website at <a href="http://www.grinnell.com">www.grinnell.com</a>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1"	33.4mm	342034M	POA	342034G	POA
	1 1/4"	42.4mm	342042M	POA	342042G	POA
	1 1/2"	48.3mm	342048M	\$250.25	342048G	POA
	2"	60.3mm	342060M	\$267.50	342060G	\$314.25
	2 1/2"	73.0mm	342073M	\$267.50	342073G	\$314.25
	3"	88.9mm	342089M	\$371.00	342089G	\$469.50
	4"	114.3mm	342114M	\$699.75	342114G	\$800.25
	5"	141.3mm	342141M	\$716.25	342141G	POA
	6"	168.3mm	342168M	\$716.25	342168G	\$1,082.25
	8"	219.1mm	342219M	\$1,466.00	342219G	\$1,743.75
	10"	273.0mm	342273M	\$1,887.00	342273G	POA
	12"	323.9mm	342324M	\$2,832.25	342324G	POA

All Adaptors are segmentally welded.

 Orders for items in shaded areas **cannot** be cancelled or returned.


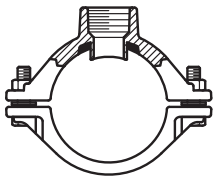
**Technical Data Sheet: TFP1810**

<b>#750 – ADACAP, NPT Threads</b>				
	<i>Pipe Size</i>		<i>Part Number</i>	<i>List Price</i>
	<i>Nominal Size</i>	<i>Outside Diameter</i>		
	1 1/2" x 1/2"	48.3 x 21.3mm	<b>ADA15051</b>	\$47.75
	1 1/2" x 3/4"	48.3 x 26.7mm	<b>ADA15071</b>	\$47.75
	1 1/2" x 1"	48.3 x 33.4mm	<b>ADA15101</b>	\$47.75
	2" x 1/2"	60.3 x 21.3mm	<b>ADA20051</b>	\$51.00
	2" x 3/4"	60.3 x 26.7mm	<b>ADA20071</b>	\$51.00
	2" x 1"	60.3 x 33.4mm	<b>ADA20011</b>	\$51.00
	2 1/2" x 1/2"	73.0 x 21.3mm	<b>ADA25051</b>	\$60.75
	2 1/2" x 3/4"	73.0 x 26.7mm	<b>ADA25071</b>	\$60.75
	2 1/2" x 1"	73.0 x 33.4mm	<b>ADA25011</b>	\$60.75
BSP threads available on request, contact GRINNELL Products.				
<b>Technical Data Sheet: TFP1810</b>				

Introduction  
Couplings & Fittings  
Mechanical Tees  
Valves  
Plain End Systems  
Gaskets & Spare Parts  
Preparation Equipment  
Miscellaneous  
Indices



### #522 – G-FIRE Sprinkler Outlet, BSP Threaded with Grade “E” Type “A” Gasket


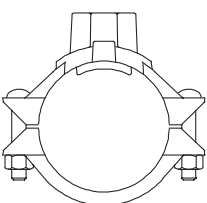
 <small>For additional listings or approvals, visit our website at <a href="http://www.grinnell.com">www.grinnell.com</a></small>	Pipe Size		Painted		Electro Plated	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1" x 1/2"	33.4 x 21.3mm	522F10051	POA	522F10052	POA
	1" x 3/4"	33.4 x 26.7mm	522F10071	POA	522F10072	POA
	1" x 1"	33.4 x 33.4mm	522F10101	POA	522F10102	POA
	1 1/4" x 1/2"	42.4 x 21.3mm	522F12051	\$9.75	522F12052	POA
	1 1/4" x 3/4"	42.4 x 26.7mm	522F12071	\$9.75	522F12072	POA
	1 1/4" x 1"	42.4 x 33.4mm	522F12101	\$10.00	522F12102	POA
	1 1/2" x 1/2"	48.3 x 21.3mm	522F15051	\$10.00	522F15052	POA
	1 1/2" x 3/4"	48.3 x 26.7mm	522F15071	\$10.00	522F15072	POA
	1 1/2" x 1"	48.3 x 33.4mm	522F15101	\$10.00	522F15102	POA
	2" x 1/2"	60.3 x 21.3mm	522F20051	\$10.00	522F20052	POA
	2" x 3/4"	60.3 x 26.7mm	522F20071	\$10.00	522F20072	POA
	2" x 1"	60.3 x 33.4mm	522F20101	\$10.25	522F20102	POA
	76.1mm x 1/2"	76.1 x 21.3mm	522F26051	\$12.00	522F26052	POA
	76.1mm x 3/4"	76.1 x 26.7mm	522F26071	\$12.00	522F26072	POA
	76.1mm x 1"	76.1 x 33.4mm	522F26101	\$12.00	522F26102	POA

Metric bolts are supplied as standard.

NPT threads available on request, contact GRINNELL Products.

Orders for items in shaded areas **cannot** be cancelled or returned.

**#730 – Mechanical Tee  
with Grade “E” EPDM Gasket, BSP Threaded Outlet**

 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	2" x 1/2"	60.3 x 21.3mm	730AT20051	\$47.25	730T060021GE	\$59.50
	2" x 3/4"	60.3 x 26.7mm	730AT20071	\$47.25	730T060027GE	\$59.50
	2" x 1"	60.3 x 33.4mm	730AT20101	\$47.25	730T060034GE	\$59.50
	2" x 1 1/4"	60.3 x 42.4mm	730AT20121	\$54.50	730T060042GE	\$68.00
	2" x 1 1/2"	60.3 x 48.3mm	730AT20151	\$54.50	730T060048GE	\$68.00
	2 1/2" x 1/2"	73.0 x 21.3mm	730AT25051	\$47.25	730T073021GE	\$59.50
	2 1/2" x 3/4"	73.0 x 26.7mm	730AT25071	\$47.25	730T073027GE	\$59.50
	2 1/2" x 1"	73.0 x 33.4mm	730AT25101	\$47.25	730T073034GE	\$59.50
	2 1/2" x 1 1/4"	73.0 x 42.4mm	730AT25121	\$66.75	730T073042GE	\$81.50
	2 1/2" x 1 1/2"	73.0 x 48.3mm	730AT25151	\$66.75	730T073048GE	\$81.50
	2 1/2" x 2"	73.0 x 60.3mm	730MT25201	POA	730T073060GE	POA
	76.1mm x 1/2"	76.1 x 21.3mm	730AT26051	\$47.25	730T076021GE	\$59.50
	76.1mm x 3/4"	76.1 x 26.7mm	730AT26071	\$47.25	730T076027GE	\$59.50
	76.1mm x 1"	76.1 x 33.4mm	730AT26101	\$47.25	730T076034GE	\$59.50
	76.1mm x 1 1/4"	76.1 x 42.4mm	730MT26121	\$66.75	730T076042GE	\$59.50
	76.1mm x 1 1/2"	76.1 x 48.3mm	730MT26151	\$66.75	730T076048GE	\$81.50
	76.1mm x 2"	76.1 x 60.3mm	730MT26201	POA	730T076060GE	POA
	3" x 1/2"	88.9 x 21.3mm	730MT30051	\$54.50	730T089021GE	\$66.50
	3" x 3/4"	88.9 x 26.7mm	730MT30071	\$54.50	730T089027GE	\$66.50
	3" x 1"	88.9 x 33.4mm	730MT30101	\$54.50	730T089034GE	\$66.50
	3" x 1 1/4"	88.9 x 42.4mm	730MT30121	\$69.50	730T089042GE	\$87.25
	3" x 1 1/2"	88.9 x 48.3mm	730MT30151	\$69.50	730T089048GE	\$87.25
	3" x 2"	88.9 x 60.3mm	730MT30201	\$80.00	730T089060GE	\$99.75
	4" x 1/2"	114.3 x 21.3mm	730MT42051	\$69.00	730T114021GE	\$82.50
	4" x 3/4"	114.3 x 26.7mm	730MT42071	\$69.00	730T114027GE	\$82.50
	4" x 1"	114.3 x 33.4mm	730MT42101	\$69.00	730T114034GE	\$82.50
	4" x 1 1/4"	114.3 x 42.4mm	730MT42121	\$81.25	730T114042GE	\$95.50
	4" x 1 1/2"	114.3 x 48.3mm	730MT42151	\$84.50	730T114048GE	\$106.50
	4" x 2"	114.3 x 60.3mm	730MT42201	\$84.50	730T114060GE	\$107.25
	4" x 76.1mm	114.3 x 76.1mm	730MT42261	\$88.00	730T114076GE	\$114.75
	4" x 3"	114.3 x 88.9mm	730MT42301	\$94.00	730T114089GE	\$121.00
	5" x 2"	141.3 x 60.3mm	730MT53201	\$103.25	730T141060GE	\$131.25
	5" x 2 1/2"	141.3 x 73.0mm	730MT53251	\$109.00	730T141073GE	\$139.25
	5" x 76.1mm	141.3 x 76.1mm	730MT53261	\$109.00	730T141076GE	\$139.25
	5" x 3"	141.3 x 88.9mm	730MT53301	\$116.25	730T141089GE	\$150.00
	165.1mm x 1 1/4"	165.1 x 42.4mm	730MT62121	POA	730T165042GE	POA
	165.1mm x 1 1/2"	165.1 x 48.3mm	730AT62151	\$105.75	730T165048GE	\$136.00
	165.1mm x 2"	165.1 x 60.3mm	730AT62201	\$105.75	730T165060GE	\$136.00
	165.1 x 76.1mm	165.1 x 76.1mm	730AT62261	\$114.25	730T165076GE	\$147.75
	165.1mm x 3"	165.1 x 88.9mm	730AT62301	\$121.50	730T165089GE	\$156.50
6" x 1 1/4"	168.3 x 42.4mm	730MT63121	POA	730T168042GE	POA	
6" x 1 1/2"	168.3 x 48.3mm	730AT63151	\$105.75	730T168048GE	\$136.00	
6" x 2"	168.3 x 60.3mm	730AT63201	\$105.75	730T168060GE	\$136.00	
6" x 76.1mm	168.3 x 76.1mm	730AT63261	\$114.25	730T168076GE	\$147.75	
6" x 3"	168.3 x 88.9mm	730AT63301	\$121.50	730T168089GE	\$156.50	
8" x 2"	219.1 x 60.3mm	730AT80201	\$185.75	730T219060GE	\$235.00	
8" x 76.1mm	219.1 x 76.1mm	730AT80261	\$185.75	730T219076GE	\$235.00	
8" x 3"	219.1 x 88.9mm	730AT80301	\$196.50	730T219089GE	\$249.00	

Metric bolts are supplied as standard.


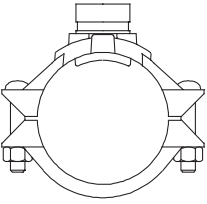
Orders for items in shaded areas **cannot** be cancelled or returned.

NPT threads available on request, contact GRINNELL Products.

**Technical Data Sheet: TFP1860**



### #730 – Mechanical Tee with Grade “E” EPDM Gasket, Grooved Outlet


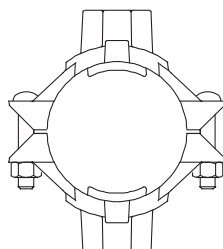
 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	2" x 1 1/4"	60.3 x 42.4mm	730AG20121	\$54.50	730R060042GE	\$68.00
	2" x 1 1/2"	60.3 x 48.3mm	730AG20151	\$54.50	730R060048GE	\$68.00
	2 1/2" x 1 1/4"	73.0 x 42.4mm	730AG25121	\$66.75	730R073042GE	\$81.50
	2 1/2" x 1 1/2"	73.0 x 48.3mm	730AG25151	\$66.75	730R073048GE	\$81.50
	2 1/2" x 2"	73.0 x 60.3mm	730MG25201	POA	730R073060GE	POA
	76.1mm x 1 1/4"	76.1 x 42.4mm	730MG26121	\$66.75	730R076042GE	\$81.50
	76.1mm x 1 1/2"	76.1 x 48.3mm	730MG26151	\$66.75	730R076048GE	\$81.50
	76.1mm x 2"	76.1 x 60.3mm	730MG26201	POA	730R076060GE	POA
	3" x 1 1/4"	88.9 x 42.4mm	730MG30121	\$69.50	730R089042GE	\$87.25
	3" x 1 1/2"	88.9 x 48.3mm	730MG30151	\$69.50	730R089048GE	\$87.25
	3" x 2"	88.9 x 60.3mm	730MG30201	\$80.00	730R089060GE	\$99.75
	4" x 1 1/4"	114.3 x 42.4mm	730AG42121	\$81.25	730R114042GE	\$95.50
	4" x 1 1/2"	114.3 x 48.3mm	730AG42151	\$84.50	730R114048GE	\$106.50
	4" x 2"	114.3 x 60.3mm	730MG42201	\$84.50	730R114060GE	\$107.25
	4" x 2 1/2"	114.3 x 73.0mm	730MG42251	\$88.00	730R114073GE	\$114.75
	4" x 76.1mm	114.3 x 76.1mm	730MG42261	\$88.00	730R114076GE	\$114.75
	4" x 3"	114.3 x 88.9mm	730MG42301	\$94.00	730R114089GE	\$121.00
	5" x 1 1/2"	141.3 x 48.3mm	730MG53151	\$103.25	730R141048GE	POA
	5" x 2"	141.3 x 60.3mm	730MG53201	\$103.25	730R141060GE	POA
	5" x 2 1/2"	141.3 x 73.0mm	730MG53251	\$109.00	730R141073GE	POA
	5" x 76.1mm	141.3 x 76.1mm	730MG53261	\$109.00	730R141076GE	POA
	5" x 3"	141.3 x 88.9mm	730MG53301	\$116.25	730R141089GE	POA
	165.1mm x 1 1/4"	165.1 x 42.4mm	730MG62121	\$105.75	730R165042GE	\$136.00
	165.1mm x 1 1/2"	165.1 x 48.3mm	730AG62151	\$105.75	730R165048GE	\$136.00
	165.1mm x 2"	165.1 x 60.3mm	730AG62201	\$105.75	730R165060GE	\$136.00
	165.1mm x 2 1/2"	165.1 x 73.0mm	730AG62251	\$116.25	730R165073GE	\$147.75
	165.1 x 76.1mm	165.1 x 76.1mm	730AG62261	\$116.25	730R165076GE	\$147.75
	165.1mm x 3"	165.1 x 88.9mm	730AG62301	\$121.50	730R165089GE	\$156.50
	165.1mm x 4"	165.1 x 114.3mm	730AG62421	\$134.75	730R165114GE	\$175.25
	6" x 1 1/4"	168.3 x 42.4mm	730MG63121	\$105.75	730R168042GE	\$136.00
	6" x 1 1/2"	168.3 x 48.3mm	730AG63151	\$105.75	730R168048GE	\$136.00
	6" x 2"	168.3 x 60.3mm	730AG63201	\$105.75	730R168060GE	\$136.00
6" x 2 1/2"	168.3 x 73.0mm	730AG63251	\$116.25	730R168073GE	\$147.75	
6" x 76.1mm	168.3 x 76.1mm	730AG63261	\$116.25	730R168076GE	\$147.75	
6" x 3"	168.3 x 88.9mm	730AG63301	\$121.50	730R168089GE	\$156.50	
6" x 4"	168.3 x 114.3mm	730AG63421	\$134.75	730R168114GE	\$175.25	
8" x 2"	219.1 x 60.3mm	730AG80201	POA	730R219060GE	POA	
8" x 2 1/2"	219.1 x 73.0mm	730AG80251	\$185.75	730R219073GE	\$235.00	
8" x 76.1mm	219.1 x 76.1mm	730AG80261	\$185.75	730R219076GE	\$235.00	
8" x 3"	219.1 x 88.9mm	730AG80301	\$196.50	730R219089GE	\$249.00	
8" x 4"	219.1 x 114.3mm	730AG80421	\$202.25	730R219114GE	\$261.75	

Metric bolts are supplied as standard.

Orders for items in shaded areas **cannot** be cancelled or returned.

**Technical Data Sheet: TFP1860**

**#730 – Mechanical Cross  
with Grade “E” EPDM Gasket, BSP Threaded Outlet**

 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	2" x 1/2"	60.3 x 21.3mm	730TX20051	POA	730XT060021GE	POA
	2" x 3/4"	60.3 x 26.7mm	730TX20071	POA	730XT060027GE	POA
	2" x 1"	60.3 x 33.4mm	730TX20101	\$78.75	730XT060034GE	\$101.50
	2" x 1 1/4"	60.3 x 42.4mm	730TX20121	\$90.25	730XT060042GE	\$117.00
	2" x 1 1/2"	60.3 x 48.3mm	730TX20151	\$90.25	730XT060048GE	\$117.00
	2 1/2" x 1/2"	73.0 x 21.3mm	730TX25051	POA	730XT073021GE	POA
	2 1/2" x 3/4"	73.0 x 26.7mm	730TX25071	POA	730XT073027GE	POA
	2 1/2" x 1"	73.0 x 33.4mm	730TX25101	\$78.75	730XT073034GE	\$101.50
	2 1/2" x 1 1/4"	73.0 x 42.4mm	730TX25121	\$109.00	730XT073042GE	\$140.75
	2 1/2" x 1 1/2"	73.0 x 48.3mm	730TX25151	\$109.00	730XT073048GE	\$140.75
	3" x 1/2"	88.9 x 21.3mm	730TX30051	POA	730XT089021GE	POA
	3" x 3/4"	88.9 x 26.7mm	730TX30071	\$88.75	730XT089027GE	\$114.50
	3" x 1"	88.9 x 33.4mm	730TX30101	\$88.75	730XT089034GE	\$114.50
	3" x 1 1/4"	88.9 x 42.4mm	730TX30121	\$109.00	730XT089042GE	\$136.50
	3" x 1 1/2"	88.9 x 48.3mm	730TX30151	\$109.00	730XT089048GE	\$136.50
	3" x 2"	88.9 x 60.3mm	730TX30201	\$126.00	730XT089060GE	\$156.75
	4" x 1/2"	114.3 x 21.3mm	730TX42051	POA	730XT114021GE	POA
	4" x 3/4"	114.3 x 26.7mm	730TX42071	POA	730XT114027GE	POA
	4" x 1"	114.3 x 33.4mm	730TX42101	\$109.25	730XT114034GE	\$141.75
	4" x 1 1/4"	114.3 x 42.4mm	730TX42121	\$132.50	730XT114042GE	\$166.50
	4" x 1 1/2"	114.3 x 48.3mm	730TX42151	\$132.50	730XT114048GE	\$166.50
	4" x 2"	114.3 x 60.3mm	730TX42201	\$141.75	730XT114060GE	\$168.00
	4" x 2 1/2"	114.3 x 73.0mm	730TX42251	\$141.75	730XT114073GE	\$180.25
	4" x 76.1mm	114.3 x 76.1mm	730TX42261	\$141.75	730XT114076GE	\$180.25
	4" x 3"	114.3 x 88.9mm	730TX42301	\$148.25	730XT114089GE	\$191.25
	5" x 1/2"	141.3 x 48.3mm	730TX53151	\$162.00	730XT141048GE	\$206.50
	5" x 2"	141.3 x 60.3mm	730TX53201	\$171.00	730XT141060GE	\$206.50
	5" x 2 1/2"	141.3 x 73.0mm	730TX53251	\$171.00	730XT141073GE	\$219.00
	5" x 3"	141.3 x 88.9mm	730TX53301	\$183.00	730XT141089GE	\$235.50
	165.1mm x 1 1/4"	165.1 x 42.4mm	730TX62121	POA	730XT165042GE	POA
	165.1mm x 1 1/2"	165.1 x 48.3mm	730TX62151	POA	730XT165048GE	POA
	165.1mm x 2"	165.1 x 60.3mm	730TX62201	POA	730XT165060GE	POA
	165.1 x 76.1mm	165.1 x 76.1mm	730TX62261	\$179.25	730XT165076GE	\$231.00
	6" x 1 1/4"	168.3 x 42.4mm	730TX63121	POA	730XT168042GE	POA
	6" x 1 1/2"	168.3 x 48.3mm	730TX63151	POA	730XT168048GE	POA
	6" x 2"	168.3 x 60.3mm	730TX63201	POA	730XT168060GE	POA
	6" x 2 1/2"	168.3 x 73.0mm	730TX63251	\$179.25	730XT168073GE	\$231.00
	6" x 3"	168.3 x 88.9mm	730TX63301	\$190.50	730XT168089GE	\$245.50
	6" x 4"	168.3 x 114.3mm	730TX63421	\$210.75	730XT168114GE	\$275.25
	8" x 2"	219.1 x 60.3mm	730TX80201	\$292.25	730XT219060GE	\$369.50
	8" x 2 1/2"	219.1 x 73.0mm	730TX80251	\$292.25	730XT219073GE	\$369.50
	8" x 3"	219.1 x 88.9mm	730TX80301	\$308.25	730XT219089GE	\$392.00
	8" x 4"	219.1 x 114.3mm	730TX80421	\$318.25	730XT219114GE	\$411.75

Metric bolts are supplied as standard.


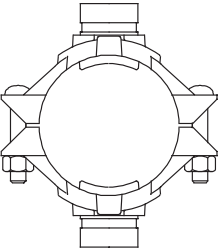
Orders for items in shaded areas **cannot** be cancelled or returned.

NPT threads available on request, contact GRINNELL Products.

**Technical Data Sheet: TFP1860**



### #730 – Mechanical Cross with Grade “E” EPDM Gasket, Grooved Outlet

 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	2" x 1/2"	60.3 x 21.3mm	730GX20051	POA	730XR060021GE	POA
	2" x 3/4"	60.3 x 26.7mm	730GX20071	POA	730XR060027GE	POA
	2" x 1"	60.3 x 33.4mm	730GX20101	\$78.75	730XR060034GE	\$101.50
	2" x 1 1/4"	60.3 x 42.4mm	730GX20121	\$90.25	730XR060042GE	\$117.00
	2" x 1 1/2"	60.3 x 48.3mm	730GX20151	\$90.25	730XR060048GE	\$117.00
	2 1/2" x 1/2"	73.0 x 21.3mm	730GX25051	POA	730XR073021GE	POA
	2 1/2" x 3/4"	73.0 x 26.7mm	730GX25071	POA	730XR073027GE	POA
	2 1/2" x 1"	73.0 x 33.4mm	730GX25101	\$78.75	730XR073034GE	\$101.50
	2 1/2" x 1 1/4"	73.0 x 42.4mm	730GX25121	\$109.00	730XR073042GE	\$140.75
	2 1/2" x 1 1/2"	73.0 x 48.3mm	730GX25151	\$109.00	730XR073048GE	\$140.75
	3" x 1/2"	88.9 x 21.3mm	730GX30051	POA	730XR089021GE	POA
	3" x 3/4"	88.9 x 26.7mm	730GX30071	\$88.75	730XR089027GE	\$114.50
	3" x 1"	88.9 x 33.4mm	730GX30101	\$88.75	730XR089034GE	\$114.50
	3" x 1 1/4"	88.9 x 42.4mm	730GX30121	\$109.00	730XR089042GE	\$136.50
	3" x 1 1/2"	88.9 x 48.3mm	730GX30151	\$109.00	730XR089048GE	\$136.50
	3" x 2"	88.9 x 60.3mm	730GX30201	\$126.00	730XR089060GE	\$156.75
	4" x 1/2"	114.3 x 21.3mm	730GX42051	POA	730XR114021GE	POA
	4" x 3/4"	114.3 x 26.7mm	730GX42071	POA	730XR114027GE	POA
	4" x 1"	114.3 x 33.4mm	730GX42101	\$109.25	730XR114034GE	\$141.75
	4" x 1 1/4"	114.3 x 42.4mm	730GX42121	\$132.50	730XR114042GE	\$166.50
	4" x 1 1/2"	114.3 x 48.3mm	730GX42151	\$132.50	730XR114048GE	\$166.50
	4" x 2"	114.3 x 60.3mm	730GX42201	\$141.75	730XR114060GE	\$168.00
	4" x 2 1/2"	114.3 x 73.0mm	730GX42251	\$141.75	730XR114073GE	\$180.25
	4" x 76.1mm	114.3 x 76.1mm	730GX42261	\$141.75	730XR114076GE	\$180.25
	4" x 3"	114.3 x 88.9mm	730GX42301	\$148.25	730XR114089GE	\$191.25
	5" x 1 1/2"	141.3 x 48.3mm	730GX53151	\$162.00	730XR141048GE	\$206.50
	5" x 2"	141.3 x 60.3mm	730GX53201	\$171.00	730XR141060GE	\$206.50
	5" x 2 1/2"	141.3 x 73.0mm	730GX53251	\$171.00	730XR141073GE	\$219.00
	5" x 3"	141.3 x 88.9mm	730GX53301	\$183.00	730XR141089GE	\$235.50
	165.1mm x 1 1/4"	165.1 x 42.4mm	730GX62121	POA	730XR165042GE	POA
	6" x 1 1/4"	168.3 x 42.4mm	730GX63121	POA	730XR168042GE	POA
	6" x 1 1/2"	168.3 x 48.3mm	730GX63151	POA	730XR168048GE	POA
	6" x 2"	168.3 x 60.3mm	730GX63201	POA	730XR168060GE	POA
	6" x 2 1/2"	168.3 x 73.0mm	730GX63251	\$179.25	730XR168073GE	\$231.00
	6" x 3"	168.3 x 88.9mm	730GX63301	\$190.50	730XR168089GE	\$245.50
	6" x 4"	168.3 x 114.3mm	730GX63421	\$210.75	730XR168114GE	\$275.25
	8" x 2"	219.1 x 60.3mm	730GX80201	\$292.25	730XR219060GE	\$369.50
	8" x 2 1/2"	219.1 x 73.0mm	730GX80251	\$292.25	730XR219073GE	\$369.50
	8" x 3"	219.1 x 88.9mm	730GX80301	\$308.25	730XR219089GE	\$392.00
	8" x 4"	219.1 x 114.3mm	730GX80421	\$318.25	730XR219114GE	\$411.75


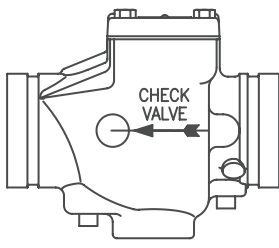
Metric bolts are supplied as standard.

Orders for items in shaded areas *cannot* be cancelled or returned.

**Technical Data Sheet: TFP1860**




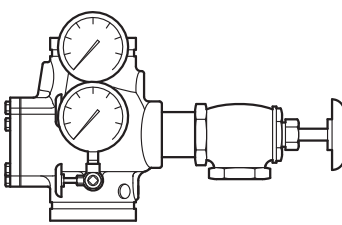
**#CV-1F – G-FIRE Grooved Check Valve**

 For additional listings or approvals, visit our website at <a href="http://www.grinnell.com">www.grinnell.com</a>	Pipe Size		Painted	
	Nominal Size	Outside Diameter	Part Number	List Price
		2"	60.3mm	59-590-0-020
2½"		73.0mm	59-590-0-025	\$287.50
76.1mm		76.1mm	59-590-0-076	\$287.50
3"		88.9mm	59-590-0-030	\$287.50
4"		114.3mm	59-590-0-040	\$299.00
139.7mm		139.7mm	59-590-0-139	\$728.75
5"		141.3mm	59-590-0-050	\$728.75
165.1mm		165.1mm	59-590-0-165	\$746.75
6"		168.3mm	59-590-0-060	\$746.75
8"		219.1mm	59-590-0-080	\$1,298.00
10"		273.0mm	59-590-0-100	\$2,473.75

Orders for items in shaded areas **cannot** be cancelled or returned.

**Technical Data Sheet: TFP1550**

**#CV-1FR – G-FIRE Grooved Shotgun Riser Check Valve**

 For additional listings or approvals, visit our website at <a href="http://www.grinnell.com">www.grinnell.com</a>	Pipe Size		Painted		
	Nominal Size	Outside Diameter	Part Number	List Price	
		2"	60.3mm	59-590-1-020	\$572.50
2½"		73.0mm	59-590-1-025	\$562.00	
76.1mm		76.1mm	59-590-1-076	\$562.00	
3"		88.9mm	59-590-1-030	\$572.50	
4"		114.3mm	59-590-1-040	\$572.50	
139.7mm		139.7mm	59-590-1-139	\$1,045.00	
5"		141.3mm	59-590-1-050	\$1,045.00	
165.1mm		165.1mm	59-590-1-165	\$1,063.00	
6"		168.3mm	59-590-1-060	\$1,063.00	
8"		219.1mm	59-590-1-080	\$1,923.00	
10"		273.0mm	59-590-1-100	POA	
<b>Trim Assemblies for Model CV-1FR G-FIRE Grooved Riser Check Valve (with gauges)</b>					
2"		60.3mm	59-591-1-020	\$388.50	
2½ – 3"		73.0 thru 88.9mm	59-591-1-030	\$388.50	
4" thru 10"	114.3 thru 273.0mm	59-591-1-080	\$388.50		


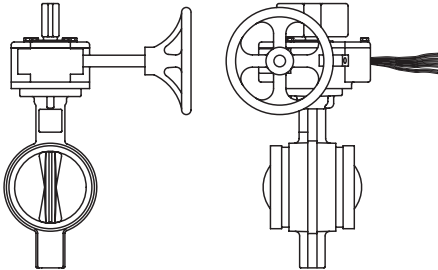
Orders for items in shaded areas **cannot** be cancelled or returned.

**Technical Data Sheet: TFP950**

Introduction  
 Couplings & Fittings  
 Mechanical Tees  
 Valves  
 Plain End Systems  
 Gaskets & Spare Parts  
 Preparation Equipment  
 Miscellaneous  
 Indices




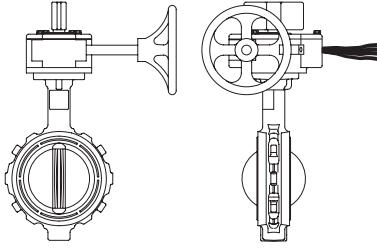
### Model BFV-N – G-FIRE Butterfly Valves - Groove x Groove, 300 psi

 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Pipe Size		Gear Operated with Tamper Switches	
	Nominal Size	Outside Diameter	Part Number	List Price
	2½"	73.0mm	59-300-F-025N	\$525.75
	76.1mm	76.1mm	59-300-F-076N	\$525.75
	3"	88.9mm	59-300-F-030N	\$568.50
	4"	114.3mm	59-300-F-040N	\$595.75
	5"	141.3mm	59-300-F-050N	\$893.25
	165.1mm	165.1mm	59-300-F-165N	\$893.25
	6"	168.3mm	59-300-F-060N	\$846.75
	8"	219.1mm	59-300-F-080N	\$1,297.75
	10"	273.0mm	59-300-F-100N	\$3,143.50

PIVA extensions are available on request.

Orders for items in shaded areas **cannot** be cancelled or returned.


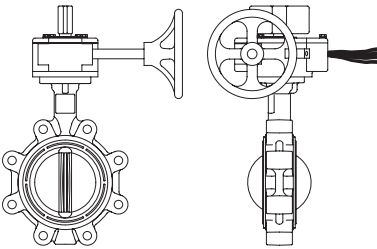
### Model BFV-N – G-FIRE Butterfly Valves - Wafer Style, 250 psi

 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Nominal Pipe Size	Gear Operated with Supervisory Switches	
		Part Number	List Price
	2"	59-801-1-020N	\$725.50
	2½"	59-801-1-025N	\$766.00
	3"	59-801-1-030N	\$857.00
	4"	59-801-1-040N	\$887.00
	5"	59-801-1-050N	\$1,148.00
	6"	59-801-1-060N	\$1,148.00
	8"	59-801-1-080N	\$1,700.00
	10"	59-801-1-100N	\$2,323.00
	12"	59-801-1-120N	\$2,823.00

PIVA extensions are available on request.

**Technical Data Sheet - TFP1515**

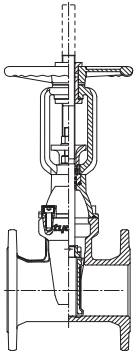
### Model BFV-N – G-FIRE Butterfly Valves - Lug Style, 250 psi

 <small>For additional listings or approvals, visit our website at www.grinnell.com</small>	Nominal Pipe Size	Gear Operated with Supervisory Switches	
		Part Number	List Price
	2"	59-802-1-020N	\$835.50
	2½"	59-802-1-025N	\$881.50
	3"	59-802-1-030N	\$905.50
	4"	59-802-1-040N	\$971.50
	5"	59-802-1-050N	\$1,269.00
	6"	59-802-1-060N	\$1,269.00
	8"	59-802-1-080N	\$1,834.00
	10"	59-802-1-100N	\$2,369.00
	12"	59-802-1-120N	\$3,785.00

PIVA extensions are available on request.

**Technical Data Sheet - TFP1520**

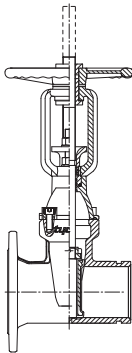
**Model #TMRX – Shut Off Valve, Gate Valve, OS&Y,  
Flange x Flange, ANSI Class #125, PN10 & PN16**



Nominal Size	Pipe Size		ANSI Class #125		PN10		PN16	
	Outside Diameter	Part Number	List Price	Part Number	List Price	Part Number	List Price	
2"	50 - 60.3mm	TMRX00605	POA	-	-	TMRX00608	POA	
2½"	65 - 76.1mm	TMRX00765	\$662.00	-	-	TMRX00768	\$662.00	
3"	80 - 88.9mm	TMRX00895	\$860.00	-	-	TMRX00898	\$860.00	
4"	100 - 114.3mm	TMRX01145	\$1,013.00	-	-	TMRX01148	\$1,013.00	
5"	125 - 139.7mm	TMRX01395	POA	-	-	TMRX01398	POA	
6"	150 - 168.3mm	TMRX01685	\$1,357.25	-	-	TMRX01688	\$1,357.25	
8"	200 - 219.1mm	TMRX02195	\$2,128.75	TMRX02197	\$2,128.75	TMRX02198	\$2,128.75	
10"	250 - 273.0mm	TMRX02735	\$2,865.75	TMRX02737	\$2,865.75	TMRX02738	\$2,865.75	
12"	300 - 323.9mm	TMRX03245	\$4,471.25	TMRX03247	\$4,471.25	TMRX03248	\$4,471.25	

Orders for items in shaded areas **cannot** be cancelled or returned.

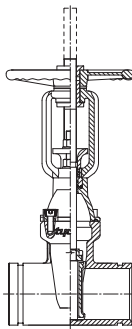
**Model #TMRT – Shut Off Valve, Gate Valve, OS&Y,  
Flange x Groove**



Nominal Size	Pipe Size		PN16 x Groove	
	Outside Diameter	Part Number	List Price	
2"	50 - 60.3mm	TMRT0060T	POA	
2½"	65 - 76.1mm	TMRT0076T	\$662.00	
3"	80 - 88.9mm	TMRT0089T	\$860.00	
4"	100 - 114.3mm	TMRT0114T	\$1,013.00	
5"	125 - 139.7mm	TMRT0139T	POA	
6"	150 - 168.3mm	TMRT0168T	\$1,357.25	
8"	200 - 219.1mm	TMRT0219T	\$2,128.75	
10"	250 - 273.0mm	TMRT0273T	\$2,865.75	
12"	300 - 323.9mm	TMRT0324T	\$4,471.25	

Orders for items in shaded areas **cannot** be cancelled or returned.

**Model #TMRG – Shut Off Valve, Gate Valve, OS&Y,  
Groove x Groove**

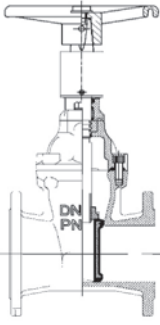


Nominal Size	Pipe Size		PN16 x Groove	
	Outside Diameter	Part Number	List Price	
2"	50 - 60.3mm	TMRG0060G	POA	
2½"	65 - 73.0mm	TMRG0073G	\$662.00	
76.1mm	65 - 76.1mm	TMRG0076G	\$662.00	
3"	80 - 88.9mm	TMRG0089G	\$860.00	
4"	100 - 114.3mm	TMRG0114G	\$1,013.00	
139.7mm	125 - 139.7mm	TMRG0139G	POA	
5"	125 - 141.3mm	TMRG0141G	POA	
165.1mm	150 - 165.1mm	TMRG0168G	\$1,357.25	
6"	150 - 168.3mm	TMRG0165G	\$1,357.25	
8"	200 - 219.1mm	TMRG0219G	\$2,128.75	
10"	250 - 273.0mm	TMRG0273G	\$2,865.75	
12"	300 - 323.9mm	TMRG0324G	\$4,471.25	

Orders for items in shaded areas **cannot** be cancelled or returned.

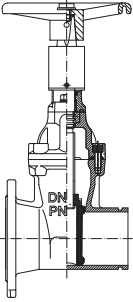


### Model #TMCX – Shut Off Valve, Gate Valve, NRS, Flange x Flange, ANSI Class #125, PN10 & PN16

	Pipe Size		ANSI Class #125		PN10		PN16	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price	Part Number	List Price
	2"	50 - 60.3mm	TMCX00605	POA	–	–	TMCX00608	POA
	2½"	65 - 76.1mm	TMCX00765	\$612.50	–	–	TMCX00768	\$612.50
	3"	80 - 88.9mm	TMCX00895	\$823.00	–	–	TMCX00898	\$823.00
	4"	100 - 114.3mm	TMCX01145	\$980.75	–	–	TMCX01148	\$980.75
	5"	125 - 139.7mm	TMCX01395	POA	–	–	TMCX01398	POA
	6"	150 - 168.3mm	TMCX01685	\$1,257.75	–	–	TMCX01688	\$1,257.75
	8"	200 - 219.1mm	TMCX02195	\$1,858.00	TMCX02197	\$1,858.00	TMCX02198	\$1,858.00
	10"	250 - 273.0mm	TMCX02735	\$2,700.25	TMCX02737	\$2,700.25	TMCX02738	\$2,700.25
	12"	300 - 323.9mm	TMCX03245	\$3,778.75	TMCX03247	\$3,778.75	TMCX03248	\$3,778.75

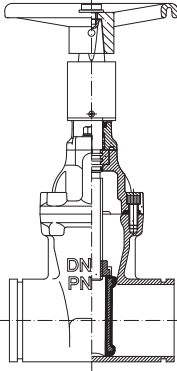
Orders for items in shaded areas **cannot** be cancelled or returned.

### Model #TMCT – Shut Off Valve, Gate Valve, NRS, Flange x Groove

	Pipe Size		PN16 x Groove	
	Nominal Size	Outside Diameter	Part Number	List Price
	2"	50 - 60.3mm	TMCT0060T	POA
	2½"	65 - 76.1mm	TMCT0076T	\$612.50
	3"	80 - 88.9mm	TMCT0089T	\$823.00
	4"	100 - 114.3mm	TMCT0114T	\$980.75
	5"	125 - 139.7mm	TMCT0139T	POA
	6"	150 - 168.3mm	TMCT0168T	\$1,257.75
	8"	200 - 219.1mm	TMCT0219T	\$1,858.00
	10"	250 - 273.0mm	TMCT0273T	\$2,700.25
	12"	300 - 323.9mm	TMCT0324T	\$3,778.75

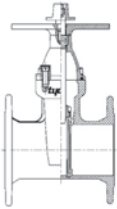
Orders for items in shaded areas **cannot** be cancelled or returned.

### Model #TMCG – Shut Off Valve, Gate Valve, NRS, Groove x Groove

	Pipe Size		PN16 x Groove	
	Nominal Size	Outside Diameter	Part Number	List Price
	2"	50 - 60.3mm	TMCG0060G	POA
	2½"	65 - 73.0mm	TMCG0073G	\$612.50
	76.1mm	65 - 76.1mm	TMCG0076G	\$612.50
	3"	80 - 88.9mm	TMCG0089G	\$823.00
	4"	100 - 114.3mm	TMCG0114G	\$980.75
	139.7mm	125 - 139.7mm	TMCG0139G	POA
	5"	125 - 141.3mm	TMCG0141G	POA
	165.1mm	150 - 165.1mm	TMCG0168G	\$1,257.75
	6"	150 - 168.3mm	TMCG0165G	\$1,257.75
	8"	200 - 219.1mm	TMCG0219G	\$1,858.00
	10"	250 - 273.0mm	TMCG0273G	\$2,700.25
	12"	300 - 323.9mm	TMCG0324G	\$3,778.75

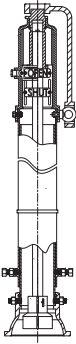
Orders for items in shaded areas **cannot** be cancelled or returned.

**Model #TMCXP – Shut Off Valve, Gate Valve, NRS,  
Flange x Flange, ANSI Class #125, PN10 & PN16**

	Pipe Size		ANSI Class #125		PN10		PN16	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price	Part Number	List Price
	4"	100mm	TMCXP1145	\$608.00	-	-	TMCXP1148	\$608.00
5"	125mm	TMCXP1395	POA	-	-	TMCXP1398	POA	
6"	150mm	TMCXP1685	\$912.00	-	-	TMCXP1688	\$912.00	
8"	200mm	TMCXP2195	\$1,263.00	TMCXP2197	\$1,263.00	TMCXP2198	\$1,263.00	
10"	250mm	TMCXP2735	\$2,147.00	TMCXP2737	\$2,147.00	TMCXP2738	\$2,147.00	
12"	300mm	TMCXP3245	\$3,040.00	TMCXP3247	\$3,040.00	TMCXP3248	\$3,040.00	

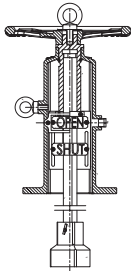
Orders for items in shaded areas **cannot** be cancelled or returned.

**Model #POST-IND – Indicator Post, Adjustable, TMCXP**

	Pipe Size		PN16 x Groove	
	Nominal Size	Adjustment Range	Part Number	List Price
	4" - 12"	403 - 1,043mm	POST-IND-A	\$1,425.00
4" - 12"	995 - 1,635mm	POST-IND-B	\$1,465.00	
4" - 12"	1,545 - 2,185mm	POST-IND-C	\$1,515.25	
4" - 12"	2,100 - 2,740mm	POST-IND-D	\$1,565.25	

Orders for items in shaded areas **cannot** be cancelled or returned.

**Model #WALL-IND – Indicator Post Wall Type**

	Pipe Size		PN16 x Groove	
	Nominal Size	Adjustment Range	Part Number	List Price
	4" - 12"	710mm	WALL-IND	\$774.25

Orders for items in shaded areas **cannot** be cancelled or returned.



### #909 Plain End Coupling with Grade "E" EPDM Gasket

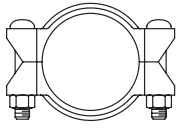


Fig. 909 – 1" thru 6"

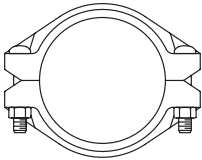
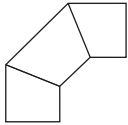


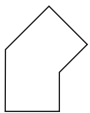
Fig. 909 – 8" thru 12"

Pipe Size		Painted		Galvanised	
Nominal Size	Outside Diameter	Grade "E" EPDM Part No.	List Price	Grade "E" EPDM Part No.	List Price
1"	33.4mm	909034ME	\$108.50	909034GE	\$140.75
1½"	48.3mm	909048ME	\$108.50	909048GE	\$140.75
2"	60.3mm	909060ME	\$108.50	909060GE	\$140.75
2½"	73.0mm	909073ME	\$108.50	909073GE	\$140.75
3"	88.9mm	909089ME	\$159.25	909089GE	\$209.00
4"	114.3mm	909114ME	\$184.75	909114GE	\$245.50
6"	168.3mm	909168ME	\$321.00	909168GE	\$436.50
8"	219.1mm	909219ME	\$567.00	909219GE	\$748.50
10"	273.0mm	909273ME	\$737.25	909273GE	\$989.50
12"	323.9mm	909324ME	\$925.00	909324GE	\$1,275.50

Orders for items in shaded areas *cannot* be cancelled or returned.

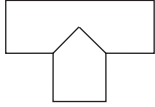
**Technical Data Sheet: G190**

<b>#910 Plain End 90° Elbow</b>						
	<i>Pipe Size</i>		<i>Painted</i>		<i>Galvanised</i>	
	<i>Nominal Size</i>	<i>Outside Diameter</i>	<i>Part Number</i>	<i>List Price</i>	<i>Part Number</i>	<i>List Price</i>
	1"	33.4mm	910034M	\$180.75	910034G	\$200.50
	1½"	48.3mm	910048M	\$214.25	910048G	\$234.50
	2"	60.3mm	910060M	\$319.50	910060G	\$352.50
	2½"	73.0mm	910073M	\$374.25	910073G	\$416.00
	3"	88.9mm	910089M	\$388.25	910089G	\$434.50
	4"	114.3mm	910114M	\$440.25	910114G	\$484.50
	5"	141.3mm	910141M	\$506.00	910141G	\$1,016.00
	6"	168.3mm	910168M	\$640.25	910168G	\$779.00
	8"	219.1mm	910219M	\$1,203.25	910219G	\$1,359.75
	10"	273.0mm	910273M	\$1,591.25	910273G	\$1,779.75
	12"	323.9mm	910324M	\$1,769.75	910324G	\$2,723.50
Orders for items in shaded areas <b>cannot</b> be cancelled or returned.						
<b>Technical Data Sheet: G192</b>						

<b>#901 Plain End 45° Elbow</b>						
	<i>Pipe Size</i>		<i>Painted</i>		<i>Galvanised</i>	
	<i>Nominal Size</i>	<i>Outside Diameter</i>	<i>Part Number</i>	<i>List Price</i>	<i>Part Number</i>	<i>List Price</i>
	1"	33.4mm	901034M	\$107.75	901034G	\$123.75
	1½"	48.3mm	901048M	\$161.25	901048G	\$193.00
	2"	60.3mm	901060M	\$338.50	901060G	\$417.00
	2½"	73.0mm	901073M	\$338.50	901073G	\$417.00
	3"	88.9mm	901089M	\$388.25	901089G	\$437.75
	4"	114.3mm	901114M	\$404.75	901114G	\$448.25
	5"	141.3mm	901141M	\$506.00	901141G	\$595.25
	6"	168.3mm	901168M	\$580.00	901168G	\$681.25
	8"	219.1mm	901219M	\$680.00	901219G	\$960.50
	10"	273.0mm	901273M	\$729.25	901273G	\$912.50
	12"	323.9mm	901324M	\$1,319.75	901324G	\$1,554.00
Orders for items in shaded areas <b>cannot</b> be cancelled or returned.						
<b>Technical Data Sheet: G192</b>						



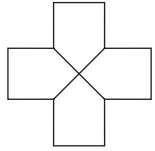
### #919 Plain End Tee

	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1"	33.4mm	919034M	\$202.25	919034G	\$238.25
	1½"	48.3mm	919048M	\$260.50	919048G	\$299.75
	2"	60.3mm	919060M	\$260.50	919060G	\$292.50
	2½"	73.0mm	919073M	\$339.75	919073G	\$385.75
	3"	88.9mm	919089M	\$523.00	919089G	\$598.25
	4"	114.3mm	919114M	\$749.75	919114G	\$937.50
	5"	141.3mm	919141M	\$1,026.00	919141G	\$1,025.00
	6"	168.3mm	919168M	\$893.00	919168G	POA
	8"	219.1mm	919219M	\$1,287.25	919219G	POA
	10"	273.0mm	919273M	POA	919273G	POA
	12"	323.9mm	919324M	\$2,450.00	919324G	POA

Orders for items in shaded areas **cannot** be cancelled or returned.

#### Technical Data Sheet: G192

### #927 Plain End Cross

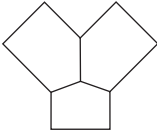
	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1"	33.4mm	927034M	POA	927034G	POA
	1½"	48.3mm	927048M	POA	927048G	POA
	2"	60.3mm	927060M	POA	927060G	POA
	2½"	73.0mm	927073M	POA	927073G	POA
	3"	88.9mm	927089M	POA	927089G	POA
	4"	114.3mm	927114M	POA	927114G	POA
	5"	141.3mm	927141M	POA	927141G	POA
	6"	168.3mm	927168M	POA	927168G	POA
	8"	219.1mm	927219M	POA	927219G	POA
	10"	273.0mm	927273M	POA	927273G	POA
	12"	323.9mm	927324M	POA	927324G	POA

Orders for items in shaded areas **cannot** be cancelled or returned.

#### Technical Data Sheet: G192




**#924 Plain End True Wye**

	<i>Pipe Size</i>		<i>Painted</i>		<i>Galvanised</i>	
	<i>Nominal Size</i>	<i>Outside Diameter</i>	<i>Part Number</i>	<i>List Price</i>	<i>Part Number</i>	<i>List Price</i>
	1"	33.4mm	924034M	POA	924034G	POA
	1½"	48.3mm	924048M	POA	924048G	POA
	2"	60.3mm	924060M	POA	924060G	POA
	2½"	73.0mm	924073M	POA	924073G	POA
	3"	88.9mm	924089M	POA	924089G	POA
	4"	114.3mm	924114M	POA	924114G	POA
	5"	141.3mm	924141M	POA	924141G	POA
	6"	168.3mm	924168M	POA	924168G	POA
	8"	219.1mm	924219M	POA	924219G	POA
	10"	273.0mm	924273M	POA	924273G	POA
	12"	323.9mm	924324M	POA	924324G	POA

Orders for items in shaded areas *cannot* be cancelled or returned.

**Technical Data Sheet: G192**

**#960 Plain End Cap (Bull Plug)**

	<i>Pipe Size</i>		<i>Painted</i>		<i>Galvanised</i>	
	<i>Nominal Size</i>	<i>Outside Diameter</i>	<i>Part Number</i>	<i>List Price</i>	<i>Part Number</i>	<i>List Price</i>
	1"	33.4mm	960034M	POA	960034G	POA
	1½"	48.3mm	960048M	POA	960048G	\$182.00
	2"	60.3mm	960060M	POA	960060G	\$182.00
	2½"	73.0mm	960073M	POA	960073G	\$182.00
	3"	88.9mm	960089M	POA	960089G	\$266.25
	4"	114.3mm	960114M	POA	960114G	\$344.00
	5"	141.3mm	960141M	POA	960141G	\$606.00
	6"	168.3mm	960168M	POA	960168G	\$807.75
	8"	219.1mm	960219M	POA	960219G	\$1,518.00
	10"	273.0mm	960273M	POA	960273G	POA
	12"	323.9mm	960324M	POA	960324G	\$4,234.25

Orders for items in shaded areas *cannot* be cancelled or returned.

**Technical Data Sheet: G192**

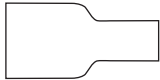


### #914 Plain End Lateral

	Pipe Size		Painted		Galvanised	
	Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price
	1"	33.4mm	914034M	POA	914034G	POA
	1½"	48.3mm	914048M	\$308.50	914048G	\$363.25
	2"	60.3mm	914060M	\$352.50	914060G	\$428.00
	2½"	73.0mm	914073M	\$406.00	914073G	\$477.00
	3"	88.9mm	914089M	\$481.75	914089G	\$566.00
	4"	114.3mm	914114M	\$663.75	914114G	\$743.75
	5"	141.3mm	914141M	\$1,126.75	914141G	\$1,338.00
	6"	168.3mm	914168M	\$1,162.75	914168G	\$1,411.00
	8"	219.1mm	914219M	\$1,951.50	914219G	\$2,298.00
	10"	273.0mm	914273M	\$2,026.50	914273G	\$3,545.25
	12"	323.9mm	914324M	\$3,726.00	914324G	\$4,791.75

Orders for items in shaded areas *cannot* be cancelled or returned.

### Technical Data Sheet: G192

<b>#999 Plain End Swaged Nipple</b>						
	<i>Pipe Size</i>		<i>Painted</i>		<i>Galvanised</i>	
	<i>Nominal Size</i>	<i>Outside Diameter</i>	<i>Part Number</i>	<i>List Price</i>	<i>Part Number</i>	<i>List Price</i>
	1 1/2" x 1"	48.3 x 33.4mm	999048034M	POA	999048034G	POA
	2" x 1"	60.3 x 33.4mm	999060034M	POA	999060034G	POA
	2" x 1 1/2"	60.3 x 48.3mm	999060048M	POA	999060048G	POA
	2 1/2" x 1"	73.0 x 33.4mm	999073034M	POA	999073034G	POA
	2 1/2" x 1 1/2"	73.0 x 48.3mm	999073048M	POA	999073048G	POA
	2 1/2" x 2"	73.0 x 60.3mm	999073060M	POA	999073060G	POA
	3" x 1"	88.9 x 33.4mm	999089034M	POA	999089034G	POA
	3" x 1 1/2"	88.9 x 48.3mm	999089048M	POA	999089048G	POA
	3" x 2"	88.9 x 60.3mm	999089060M	POA	999089060G	POA
	3" x 2 1/2"	88.9 x 73.0mm	999089073M	POA	999089073G	POA
	4" x 1"	114.3 x 33.4mm	999114034M	POA	999114034G	POA
	4" x 1 1/2"	114.3 x 48.3mm	999114048M	POA	999114048G	POA
	4" x 2"	114.3 x 60.3mm	999114060M	POA	999114060G	POA
	4" x 2 1/2"	114.3 x 73.0mm	999114073M	POA	999114073G	POA
	4" x 3"	114.3 x 88.9mm	999114089M	POA	999114089G	POA
	5" x 2"	141.3 x 60.3mm	999141060M	POA	999141060G	POA
	5" x 3"	141.3 x 88.9mm	999141089M	POA	999141089G	POA
	5" x 4"	141.3 x 114.3mm	999141114M	POA	999141114G	POA
	6" x 1"	168.3 x 33.4mm	999168034M	POA	999168034G	POA
	6" x 1 1/2"	168.3 x 48.3mm	999168048M	POA	999168048G	POA
	6" x 2"	168.3 x 60.3mm	999168060M	POA	999168060G	POA
	6" x 2 1/2"	168.3 x 73.0mm	999168073M	POA	999168073G	POA
	6" x 3"	168.3 x 88.9mm	999168089M	POA	999168089G	POA
	6" x 4"	168.3 x 114.3mm	999168114M	POA	999168114G	POA
	6" x 5"	168.3 x 141.3mm	999168141M	POA	999168141G	POA
	8" x 3"	219.1 x 88.9mm	999219089M	POA	999219089G	POA
	8" x 4"	219.1 x 114.3mm	999219114M	POA	999219114G	POA
	8" x 5"	219.1 x 141.3mm	999219141M	POA	999219141G	POA
8" x 6"	219.1 x 168.3mm	999219168M	POA	999219168G	POA	

Orders for items in shaded areas *cannot* be cancelled or returned.

**Technical Data Sheet: G192**

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Gaskets & Spare Parts

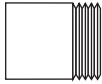
Preparation Equipment

Miscellaneous

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### #991 Adaptor Nipple Plain x BSP Thread


	Nominal Size	Outside Diameter	Painted	
			Part Number	List Price
			1"	33.4mm
1 1/2"	48.3mm	991048M	\$30.00	
2"	60.3mm	991060M	\$30.00	
2 1/2"	73.0mm	991073M	\$35.00	
3"	88.9mm	991089M	\$43.00	
4"	114.3mm	991114M	\$71.00	
6"	168.3mm	991168M	\$189.50	

Available with NPT threads, contact GRINNELL Products for details.

Orders for items in shaded areas **cannot** be cancelled or returned.

Technical Data Sheet: G192


### #992 Adaptor Nipple Plain x Grooved

	Nominal Size	Outside Diameter	Painted	
			Part Number	List Price
			1"	33.4mm
1 1/2"	48.3mm	992048M	\$30.00	
2"	60.3mm	992060M	\$30.00	
2 1/2"	73.0mm	992073M	\$35.00	
3"	88.9mm	992089M	\$43.00	
4"	114.3mm	992114M	\$71.00	
6"	168.3mm	992168M	\$189.50	

Orders for items in shaded areas **cannot** be cancelled or returned.

Technical Data Sheet: G192

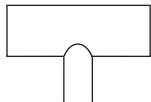
### #993 Adaptor Nipple Plain x Plain

	Nominal Size	Outside Diameter	Painted	
			Part Number	List Price
			1"	33.4mm
1 1/2"	48.3mm	993048M	\$30.00	
2"	60.3mm	993060M	\$30.00	
2 1/2"	73.0mm	993073M	\$35.00	
3"	88.9mm	993089M	\$43.00	
4"	114.3mm	993114M	\$71.00	
6"	168.3mm	993168M	\$189.50	

Orders for items in shaded areas **cannot** be cancelled or returned.

Technical Data Sheet: G192

**#921 Reducing Tee Plain End**

	Nominal Size	Outside Diameter	Painted		Galvanised	
			Part Number	List Price	Part Number	List Price
	1 1/2" x 1 1/2" x 1"	48.3 x 48.3 x 33.4mm	921048034M	POA	921048034G	POA
	2" x 2" x 1"	60.3 x 60.3 x 33.4mm	921060034M	POA	921060034G	POA
	2" x 2" x 1 1/2"	60.3 x 60.3 x 48.3mm	921060048M	POA	921060048G	POA
	3" x 3" x 1"	88.9 x 88.9 x 33.4mm	921089034M	POA	921089034G	POA
	3" x 3" x 1 1/2"	88.9 x 88.9 x 48.3mm	921089048M	POA	921089048G	POA
	3" x 3" x 2"	88.9 x 88.9 x 60.3mm	921089060M	POA	921089060G	POA
	4" x 4" x 1"	114.3 x 114.3 x 33.4mm	921114034M	POA	921114034G	POA
	4" x 4" x 1 1/2"	114.3 x 114.3 x 48.3mm	921114048M	POA	921114048G	POA
	4" x 4" x 2"	114.3 x 114.3 x 60.3mm	921114060M	POA	921114060G	POA
	4" x 4" x 2 1/2"	114.3 x 114.3 x 73.0mm	921114073M	POA	921114073G	POA
	4" x 4" x 3"	114.3 x 114.3 x 88.9mm	921114089M	POA	921114089G	POA
	6" x 6" x 2"	168.3 x 168.3 x 60.3mm	921168060M	POA	921168060G	POA
	6" x 6" x 3"	168.3 x 168.3 x 88.9mm	921168089M	POA	921168089G	POA
	6" x 6" x 4"	168.3 x 168.3 x 114.3mm	921168114M	POA	921168114G	POA
	8" x 8" x 2"	219.1 x 219.1 x 60.3mm	921219060M	POA	921219060G	POA
	8" x 8" x 3"	219.1 x 219.1 x 88.9mm	921219089M	POA	921219089G	POA
	8" x 8" x 4"	219.1 x 219.1 x 114.3mm	921219114M	POA	921219114G	POA
	8" x 8" x 5"	219.1 x 219.1 x 141.3mm	921219141M	POA	921219141G	POA
	8" x 8" x 6"	219.1 x 219.1 x 168.3mm	921219168M	POA	921219168G	POA
	10" x 10" x 4"	273.0 x 273.0 x 114.3mm	921273114M	POA	921273114G	POA
10" x 10" x 6"	273.0 x 273.0 x 168.3mm	921273168M	POA	921273168G	POA	
10" x 10" x 8"	273.0 x 273.0 x 219.1mm	921273219M	POA	921273219G	POA	
12" x 12" x 6"	323.9 x 323.9 x 168.3mm	921324168M	POA	921324168G	POA	
12" x 12" x 8"	323.9 x 323.9 x 219.1mm	921324219M	POA	921324219G	POA	
12" x 12" x 10"	323.9 x 323.9 x 273.0mm	921324273M	POA	921324273G	POA	

Orders for items in shaded areas *cannot* be cancelled or returned.

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**Replacement Gaskets**

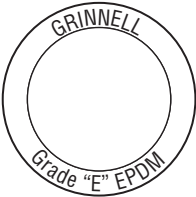
Pipe Size		Grade "E" Type "A" Pre-Lube Gasket (for #577, #705)		Grade "E" EPDM Gasket (for #707, #770)		Tri-Seal Grade "E" EPDM Gasket (for #577, #705, #707)		Grade "E" EPDM Type "A" Gasket (for #71)	
Nominal Size	Outside Diameter	Part Number	List Price	Part Number	List Price	Part Number	List Price	Part Number	List Price
1"	33.4mm	034EPDMA-PL	POA	034EPDME	\$19.25	034EPDME3	\$37.75	-	-
1 1/4"	42.4mm	042EPDMA-PL	\$20.50	042EPDME	\$20.25	042EPDME3	\$39.75	-	-
1 1/2"	48.3mm	048EPDMA-PL	\$21.75	048EPDME	\$21.75	048EPDME3	\$40.00	-	-
2"	60.3mm	060EPDMA-PL	\$22.25	060EPDME	\$21.75	060EPDME3	\$40.50	71060EPDMA	\$21.75
2 1/2"	73.0mm	073EPDMA-PL	\$27.00	073EPDME	\$26.00	073EPDME3	\$50.25	71073EPDMA	\$25.50
76.1mm	76.1mm	076EPDMA-PL	\$29.00	076EPDME	\$26.00	076EPDME3	\$50.25	71076EPDMA	\$25.50
3"	88.9mm	089EPDMA-PL	\$29.25	089EPDME	\$28.25	089EPDME3	\$50.25	71089EPDMA	\$27.25
4"	114.3mm	114EPDMA-PL	\$37.50	114EPDME	\$35.00	114EPDME3	\$67.50	71114EPDMA	\$35.75
139.7mm	139.7mm	139EPDMA-PL	\$53.50	139EPDME	\$45.50	139EPDME3	\$120.00	71139EPDMA	\$43.25
5"	141.3mm	141EPDMA-PL	\$49.50	141EPDME	\$45.50	141EPDME3	\$120.00	71141EPDMA	\$43.25
165.1mm	165.1mm	165EPDMA-PL	\$59.00	165EPDME	\$49.50	165EPDME3	\$122.00	71165EPDMA	\$50.25
6"	168.3mm	168EPDMA-PL	\$54.50	168EPDME	\$49.50	168EPDME3	\$122.00	71168EPDMA	\$50.25
8"	219.1mm	219EPDMA-PL	\$78.00	219EPDME	\$67.25	219EPDME3	\$127.25	71219EPDMA	\$67.25
10"	273.0mm	273EPDMA-PL	\$131.00	273EPDME	\$85.50	273EPDME3	\$164.00	71273EPDMA	\$69.25
12"	323.9mm	324EPDMA-PL	\$136.50	324EPDME	\$99.25	324EPDME3	\$195.25	71324EPDMA	\$80.75

Orders for items in shaded areas *cannot* be cancelled or returned.

**Technical Data Sheet: TFP1895**

**Replacement Gaskets**

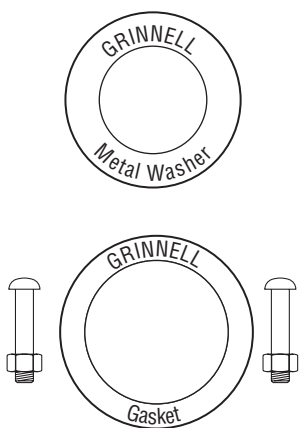
**EPDM "E" Gaskets For #716 Reducing Coupling**

	Nominal Size	Outside Diameter	Part No. "E" EPDM	List Price
	2" x 1 1/2"	60.3 x 48.3mm	716060048EPDME	\$20.25
2 1/2" x 2"	73.0 x 60.3mm	716073060EPDME	\$26.25	
76.1mm x 2"	76.1 x 60.3mm	716076060EPDME	POA	
3" x 2"	88.9 x 60.3mm	716089060EPDME	\$30.50	
3" x 2 1/2"	88.9 x 73.0mm	716089073EPDME	\$30.50	
3" x 76.1mm	88.9 x 76.1mm	716089076EPDME	\$30.50	
4" x 2"	114.3 x 60.3mm	716114060EPDME	\$35.25	
4" x 2 1/2"	114.3 x 73.0mm	716114073EPDME	\$35.75	
4" x 76.1mm	114.3 x 76.1mm	716114076EPDME	\$35.75	
4" x 3"	114.3 x 88.9mm	716114089EPDME	\$37.50	
139.7mm x 4"	139.7 x 114.3mm	716139114EPDME	\$43.75	
5" x 4"	141.3 x 114.3mm	716141114EPDME	\$43.75	
165.1mm x 4"	165.1 x 114.3mm	716165114EPDME	\$49.75	
6" x 4"	168.3 x 114.3mm	716168114EPDME	\$49.75	
6" x 5"	168.3 x 141.3mm	716168141EPDME	\$54.00	
8" x 6"	219.1 x 168.3mm	716219168EPDME	\$60.00	

Orders for items in shaded areas *cannot* be cancelled or returned.

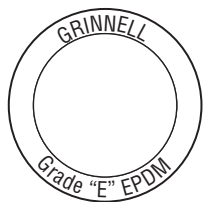
**Technical Data Sheet: G610**

**#71 Flange Adaptor – Nut, Bolt, and Gasket Kit & Metal Washer**

	Pipe Size		Nut, Bolt, and Gasket Kit		Washer	
	Nominal Size	Outside Diameter	Part No.	List Price	Part No.	List Price
	2"	60.3mm	NBGK06071	POA	71060FWC	\$57.75
2½"	73.0mm	NBGK07371	POA	71073FWC	\$60.75	
76.1mm	76.1mm	NBGK07671	POA	71076FWC	\$60.75	
3"	88.9mm	NBGK08971	POA	71089FWC	\$71.25	
4"	114.3mm	NBGK11471	POA	71114FWC	\$82.75	
5"	141.3mm	NBGK14171	POA	71141FWC	\$100.75	
165.1mm	165.1mm	NBGK16571	POA	71165FWC	\$115.00	
6"	168.3mm	NBGK16871	POA	71168FWC	\$115.00	
8"	219.1mm	NBGK21971	POA	71219FWC	\$145.75	
10"	273.0mm	NBGK27371	POA	71273FWC	\$202.25	
12"	323.9mm	NBGK32471	POA	71324FWC	\$296.25	

Orders for items in shaded areas *cannot* be cancelled or returned.

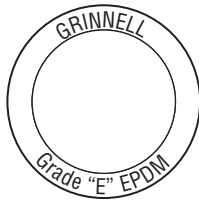
**#702 – Outlet Coupling  
Replacement Grade "E" EPDM Gaskets**

	Pipe Size		Grade "E" EPDM	
	Nominal Size	Outside Diameter	Part Number	List Price
	1½" x ½"	48.3 x 21.3mm	702048021EPDME	\$34.50
1½" x ¾"	48.3 x 26.7mm	702048027EPDME	\$34.50	
1½" x 1"	48.3 x 33.4mm	702048034EPDME	\$34.50	
2" x ½"	60.3 x 21.3mm	702060021EPDME	\$35.00	
2" x ¾"	60.3 x 26.7mm	702060027EPDME	\$35.00	
2" x 1"	60.3 x 33.4mm	702060034EPDME	\$35.00	
2½" x ½"	73.0 x 21.3mm	702073021EPDME	\$73.25	
2½" x ¾"	73.0 x 26.7mm	702073027EPDME	\$73.25	
2½" x 1"	73.0 x 33.4mm	702073034EPDME	\$73.25	
2½" x 1¼"	73.0 x 42.4mm	702073042EPDME	\$81.50	
2½" x 1½"	73.0 x 48.3mm	702073048EPDME	\$81.50	
3" x ¾"	88.9 x 26.7mm	702089027EPDME	\$59.50	
3" x 1"	88.9 x 33.4mm	702089034EPDME	\$84.50	
3" x 1¼"	88.9 x 42.4mm	702089042EPDME	\$84.50	
3" x 1½"	88.9 x 48.3mm	702089048EPDME	\$84.50	
4" x ¾"	114.3 x 26.7mm	702114027EPDME	\$84.50	
4" x 1"	114.3 x 33.4mm	702114034EPDME	\$84.50	
4" x 1¼"	114.3 x 42.4mm	702114042EPDME	\$84.50	
4" x 1½"	114.3 x 48.3mm	702114048EPDME	\$132.00	
4" x 2"	114.3 x 60.3mm	702114060EPDME	\$132.00	
6" x 1"	168.3 x 33.4mm	702168034EPDME	\$172.25	
6" x 1½"	168.3 x 48.3mm	702168048EPDME	\$172.25	
6" x 2"	168.3 x 60.3mm	702168060EPDME	\$172.25	



### #730 Replacement "E" EPDM Gasket

	<i>Nominal Size</i>	<i>Outside Diameter</i>	<i>Part Number</i>	<i>List Price</i>
	2" x 1/2"	60.3 x 21.3mm	730060021EPDME	POA
	2" x 3/4"	60.3 x 26.7mm	730060027EPDME	POA
	2" x 1"	60.3 x 33.4mm	730060034EPDME	\$8.75
	2" x 1 1/4"	60.3 x 42.4mm	730060042EPDME	\$10.25
	2" x 1 1/2"	60.3 x 48.3mm	730060048EPDME	\$10.25
	2 1/2" x 1/2"	73.0 x 21.3mm	730073021EPDME	POA
	2 1/2" x 3/4"	73.0 x 26.7mm	730073027EPDME	POA
	2 1/2" x 1"	73.0 x 33.4mm	730073034EPDME	\$8.75
	2 1/2" x 1 1/4"	73.0 x 42.4mm	730073042EPDME	\$10.25
	2 1/2" x 1 1/2"	73.0 x 48.3mm	730073048EPDME	\$10.25
	76.1mm x 1/2"	76.1 x 21.3mm	730076021EPDME	POA
	76.1mm x 3/4"	76.1 x 26.7mm	730076027EPDME	POA
	76.1mm x 1"	76.1 x 33.4mm	730076034EPDME	\$8.75
	76.1mm x 1 1/4"	76.1 x 42.4mm	730076042EPDME	\$10.25
	76.1mm x 1 1/2"	76.1 x 48.3mm	730076048EPDME	\$10.25
	76.1mm x 2"	76.1 x 60.3mm	730076060EPDME	POA
	3" x 1/2"	88.9 x 21.3mm	730089021EPDME	POA
	3" x 3/4"	88.9 x 26.7mm	730089027EPDME	POA
	3" x 1"	88.9 x 33.4mm	730089034EPDME	\$8.75
	3" x 1 1/4"	88.9 x 42.4mm	730089042EPDME	\$10.25
	3" x 1 1/2"	88.9 x 48.3mm	730089048EPDME	\$10.25
	3" x 2"	88.9 x 60.3mm	730089060EPDME	\$10.25
	4" x 1/2"	114.3 x 21.3mm	730114021EPDME	POA
	4" x 3/4"	114.3 x 26.7mm	730114027EPDME	POA
	4" x 1"	114.3 x 33.4mm	730114034EPDME	\$8.75
	4" x 1 1/4"	114.3 x 42.4mm	730114042EPDME	\$10.25
	4" x 1 1/2"	114.3 x 48.3mm	730114048EPDME	\$10.25
	4" x 2"	114.3 x 60.3mm	730114060EPDME	\$10.25
	4" x 2 1/2"	114.3 x 73.0mm	730114073EPDME	\$12.00
	4" x 76.1mm	114.3 x 76.1mm	730114076EPDME	\$12.00
	4" x 3"	114.3 x 88.9mm	730114089EPDME	\$13.25
	5" x 1 1/2"	141.3 x 48.3mm	730141048EPDME	\$10.25
	5" x 2"	141.3 x 60.3mm	730141060EPDME	\$10.25
	5" x 2 1/2"	141.3 x 73.0mm	730141073EPDME	\$12.00
	5" x 76.1mm	141.3 x 76.1mm	730141076EPDME	\$12.00
	5" x 3"	141.3 x 88.9mm	730141089EPDME	\$13.25
	165.1mm x 1"	165.1 x 33.4mm	730165034EPDME	\$10.25
	165.1mm x 1 1/4"	165.1 x 42.4mm	730165042EPDME	\$10.25
	165.1mm x 1 1/2"	165.1 x 48.3mm	730165048EPDME	\$10.25
	165.1mm x 2"	165.1 x 60.3mm	730165060EPDME	\$12.00
	165.1mm x 2 1/2"	165.1 x 73.0mm	730165073EPDME	\$13.25
	165.1 x 76.1mm	165.1 x 76.1mm	730165076EPDME	\$13.25
	165.1mm x 3"	165.1 x 88.9mm	730165089EPDME	\$13.25
	165.1mm x 4"	165.1 x 114.3mm	730165114EPDME	\$18.25
	6" x 1 1/4"	168.3 x 42.4mm	730168042EPDME	\$10.25
	6" x 1 1/2"	168.3 x 48.3mm	730168048EPDME	\$10.25
	6" x 2"	168.3 x 60.3mm	730168060EPDME	\$10.25
	6" x 2 1/2"	168.3 x 73.0mm	730168073EPDME	\$12.00
	6" x 76.1mm	168.3 x 76.1mm	730168076EPDME	\$12.00
	6" x 3"	168.3 x 88.9mm	730168089EPDME	\$13.25
	6" x 4"	168.3 x 114.3mm	730168114EPDME	\$18.25
	8" x 2"	219.1 x 60.3mm	730219060EPDME	\$12.50
	8" x 2 1/2"	219.1 x 73.0mm	730219073EPDME	\$12.50
	8" x 76.1mm	219.1 x 76.1mm	730219076EPDME	\$12.50
	8" x 3"	219.1 x 88.9mm	730219089EPDME	\$13.25
	8" x 4"	219.1 x 114.3mm	730219114EPDME	\$18.25

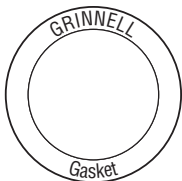


Orders for items in shaded areas **cannot** be cancelled or returned.

#### Technical Data Sheet: G610



**Replacement Gaskets**  
**Grade "E" Type "A" Gaskets For #522 G-FIRE Sprinkler Outlet**

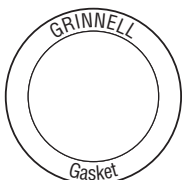


<i>Nominal Size</i>	<i>Outside Diameter</i>	<i>Part Number</i>	<i>List Price</i>
1" x 1/2"	33.4 x 21.3mm	522EPDMA-290	POA
1" x 3/4"	33.4 x 26.7mm	522EPDMA-290	POA
1" x 1"	33.4 x 33.4mm	522EPDMA-290	POA
1 1/4 x 1/2"	42.4 x 21.3mm	522EPDMA-001	POA
1 1/4 x 3/4"	42.4 x 26.7mm	522EPDMA-001	POA
1 1/4 x 1"	42.4 x 33.4mm	522EPDMA-001	POA
1 1/2 x 1/2"	48.3 x 21.3mm	522EPDMA-001	POA
1 1/2 x 3/4"	48.3 x 26.7mm	522EPDMA-001	POA
1 1/2 x 1"	48.3 x 33.4mm	522EPDMA-001	POA
2" x 1/2"	60.3 x 21.3mm	522EPDMA-001	POA
2" x 3/4"	60.3 x 26.7mm	522EPDMA-001	POA
2" x 1"	60.3 x 33.4mm	522EPDMA-304	POA
76.1mm x 1/2"	76.1 x 21.3mm	522EPDMA-001	POA
76.1mm x 3/4"	76.1 x 26.7mm	522EPDMA-001	POA
76.1mm x 1"	76.1 x 33.4mm	522EPDMA-304	POA

Orders for items in shaded areas **cannot** be cancelled or returned.

**Technical Data Sheet: G610**

**Replacement Gaskets**  
**EPDM "E" Gaskets For #909 Plain End Coupling**

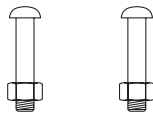


<i>Nominal Size</i>	<i>Outside Diameter</i>	<i>Grade "E" EPDM Part Number</i>	<i>List Price</i>
1"	33.4mm	909034EPDME	\$19.25
1 1/2"	48.3mm	909048EPDME	\$21.75
2"	60.3mm	909060EPDME	\$27.50
2 1/2"	73.0mm	909073EPDME	\$29.25
3"	88.9mm	909089EPDME	\$35.25
4"	114.3mm	909114EPDME	\$46.75
6"	168.3mm	909168EPDME	\$67.75
8"	219.1mm	909219EPDME	\$88.75
10"	273.0mm	909273EPDME	\$113.75
12"	323.9mm	909324EPDME	\$139.00

Orders for items in shaded areas **cannot** be cancelled or returned.

**Technical Data Sheet: G610**

**Coupling Nut and Bolt Kit**




<i>Size</i>	<i>Qty/Kit</i>	<i>Part Number</i>	<i>List Price</i>
3/8" x 2 1/8"	–	NB38-218	\$9.50
3/8" x 2 1/4"	M10 x 57	NBM10-57	\$9.50
1/2" x 2 3/8"	–	NB12-238	\$9.75
1/2" x 3"	M12 x 89	NBM12-76	\$10.00
5/8" x 2 3/4"	M16 x 70	NBM16-70	\$12.00
5/8" x 3 1/4"	M16 x 83	NBM16-83	\$12.00
5/8" x 3 1/2"	M16 x 89	NBM16-89	\$13.00
3/4" x 4 1/4"	M20 x 108	NBM20-108	\$13.75
3/4" x 4 3/4"	M20 x 121	NBM20-121	\$19.00
7/8" x 5 1/2"	M22 x 140	NBM22-139	\$29.25
7/8" x 6 1/2"	M22 x 165	NBM22-165	\$32.50
1" x 5 1/2"	M24 x 140	NB100-512	\$32.50
1" x 6 1/2"	M24 x 165	NBM24-165	\$34.00
1 1/8" x 5 3/4"	–	NB118-534	\$44.00

Orders for items in shaded areas **cannot** be cancelled or returned.

All standard couplings can be provided with stainless steel nuts and bolts upon request.

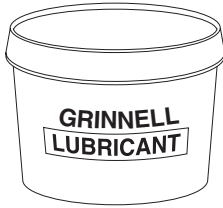


### GRINNELL Gasket Lubricant

	<i>Nominal Size</i>	<i>Part Number</i>	<i>List Price</i>
	1 Quart	GRINQT	\$94.75

Orders for items in shaded areas **cannot** be cancelled or returned.

### GRINNELL Silicone Gasket Lubricant Recommended for use with Tri-Seal Gasket Dow Corning\* #DC No. 7

	<i>Nominal Size</i>	<i>Part Number</i>	<i>List Price</i>
	4.5 oz Tube	LUB45HOZ	POA
8 Lb. Can	GRINCAN	POA	

Orders for items in shaded areas **cannot** be cancelled or returned.

### Pipe Tape Chrome Plated with GRINNELL Logo

	<i>Size</i>	<i>Part Number</i>	<i>List Price</i>
	1 Roll	GRNTAPE	\$43.75

\* Dow Corning is a trademark of Dow Corning Corporation.

See technical data sheets for specific approvals, listings, and design parameters.  
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Refer to back cover for country-specific customer care numbers.

**Roll Grooving Machine Selection Chart**

Machine Type	Pace Model	Size Range				Drive	Rolls Supplied		Part No.	List Price **
		Sch. 40	Sch. 10	Std. Wall	Copper		Size	Steel		
Portable with Electric Motor	1112	1" – 12"	–	–	2" – 8"	1PH, 220v 50Hz	1" – 12"	■	41048	\$8,655.50
	1023	1 1/4" – 12"	–	12" – 24"	2" – 8"	1PH, 220v 50Hz	1 1/4" – 12"	■	41029	\$12,800.50
							2" – 12"	■	41250	\$12,182.00
							1 1/4" – 24"	■	41251	\$14,260.00
2" – 24"	■	41252	\$13,636.00							
Portable for Rigid 300	1012	1" – 12"	–	–	2" – 8"	Rigid 300	1" – 12"	■	41041	\$4,803.50
	1022	1 1/4" – 12"	–	12" – 16"	2" – 8"	Rigid 300	1 1/4" – 16"	■	41027	\$10,812.50
Mini-Mites	1039	1 1/4" – 6"	–	–	2" – 8"	Rigid 300, Hand Crank	1 1/4" – 6" IPS	■	41017	\$1,326.00
	1034	1 1/4" – 6"	–	–	–	Rigid 300	1 1/4" – 6" IPS	■	41015	\$1,256.50
	1039-66	1 1/4" – 6"	–	–	2" – 8"	Rigid 300, Hand Crank	2" – 8" CTS		41047	\$1,256.50
Automated	2021	1 1/4" – 12"	–	12" – 24"	2" – 8"	3PH, 220v 50Hz	1 1/4" – 12"	■	41257	\$22,496.00
							2" – 12"	■	41258	\$21,878.50
							1 1/4" – 24"	■	41032	\$23,957.50
							2" – 24"	■	41259	\$23,275.00
2010	1 1/2" – 6"	1 1/2" – 12"	–	–	1PH, 220v 50Hz	1 1/2" – 12"	■	41031	\$14,121.50	
Portable Cut Groover	1000	2" – 8"	–	–	–	1PH, 220v 50Hz	2" – 8"		41260	\$10,077.00
		2" – 12"	–	–	–	1PH, 220v 50Hz	2" – 12"		41261	\$11,023.00

\*\* Accessories not included, refer to Accessory Table Below.

**Accessories**

Item	Pace Model	Size Range	Capacity	Part No.	List Price
Pipe Stands	4031	1" – 4"	600 Lbs.	41037	\$514.00
	4000	2" – 8"	900 Lbs.	41038	\$635.00
	4033	2" – 14"	1,200 Lbs.	41039	\$795.00
	4040	12" – 24"	4,000 Lbs.	41040	\$2,017.00
Nipple Bracket	4037	Fits Model 1021 / 22 / 23 / 2021	–	41035	\$642.50
	4045	4" – 12" Fits Model 1012 / 1112	–	41512	\$534.50
Mounting Feet	4039	Fits Portable Roll Groovers and Model 1000	–	41034	\$162.00
	4046	PA Mounting Feet	–	41013	\$151.00
Porta-Bore	3013	Up to 4 1/4" Holes in Pipe 1 1/4" – 12"	–	41049	\$2,653.00

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<b>Roll Selection Chart</b>										
Machine	Pipe	Size	Top		Size	Bottom		Parts	Part Number	List Price
			Part No.	List Price		Part No.	List Price			
1021, 1023, 2021	Sch. 40	1 1/4" – 1 1/2"	41262	\$360.00	1 1/4" – 1 1/2"	41281	\$261.00			
		2" – 3 1/2"	41263	\$314.00	2" – 3 1/2"	41282	\$242.00			
		4" – 6"	41264	\$279.00	4" – 6"	41283	\$366.00			
		8" – 12"	41265	\$279.00	8" – 12"	41284	\$437.00			
	Std. Wall	14" – 16"	41266	\$262.00	14" – 16"	41285	\$480.50			
		18" – 24"	41267	\$262.00	18" – 24"	41286	\$480.50			
Copper Tube	2" – 8"	41268	\$314.00	2" – 8"	41287	\$242.00	Depth Gauge 4043	41509	\$36.00	
1010, 2010	Sch. 10, Sch. 40	1 1/2" – 6"	41269	\$262.00	1 1/2"	41288	\$242.00			
			–	–	2" – 3 1/2"	41289	\$242.00			
			–	–	4" – 6"	41290	\$352.00			
	Sch. 10	8" – 12"	41270	\$262.00	8" – 12"	41291	\$352.00			
1040, 2040	Sch. 40	1" – 1 1/2"	41271	\$215.00	1" – 1 1/2"	41292	\$215.00			
		1" – 6"	41272	\$190.00	1" – 6"	41293	\$180.00			
		2" – 6"	41273	\$215.00	–	–	–			
	Sch. 10	8" – 12"	41274	\$190.00	8" – 12"	41294	\$297.00			
	Copper Tube	2" – 8"	41275	\$191.50	2" – 8"	41295	\$184.00	Depth Gauge 4021	41510	\$36.00
1012, 1112, 2112	Sch. 40	1" – 1 1/2"	41276	\$215.00	1" – 1 1/2"	41296	\$215.00			
		2" – 6"	41277	\$215.00	2" – 6"	41297	\$180.00			
		8" – 12"	41278	\$215.00	8" – 12"	41298	\$299.50			
	Copper Tube	2" – 8"	41506	\$215.00	2" – 8"	41507	\$184.00	Depth Gauge 4021	41510	\$36.00
1021, 1022, 1023, 2021	SS 10 Ga.				2" – 3 1/2"	41299	\$264.50			
					4" – 6"	41500	\$403.00			
					8" – 12"	41501	\$480.50			
					14" – 16"	41504	\$528.00			
					18" – 24"	41505	\$528.00			
1040, 1112, 2112	SS 10 Ga.				2" – 6"	41502	\$199.00			
					8" – 12"	41503	\$356.00			
1034, 1039	Sch. 40	1 1/4" – 6", with brg.	41279	\$50.50				1034 Drive Shaft 1 1/4" – 6"	41511	\$79.00
								1039 Drive Shaft 1 1/4" – 6"	41513	\$100.00
								Depth Gauge 4021	41510	\$36.00
1039-66	Copper Tube	2" – 8", with brg.	41280	\$67.00				Depth Gauge 4021	41510	\$36.00
1066	Copper Tube	2" – 8", with brg.	41508	\$67.00				Drive Shaft 2" – 8"	41514	\$79.00
								Depth Gauge 4021	41510	\$36.00

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Refer to back cover for country-specific customer care numbers.

**Grooved Couplings – Pieces Per Carton/Pallet**

Nominal Size	#577 Rigid Coupling		#705 Flexible Coupling				#707 HD Flexible Coupling			
	Primary Warehouse		Primary Warehouse		Secondary Warehouse		Primary Warehouse		Secondary Warehouse	
	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet
1	28	1008	28	1008	–	–	–	–	–	800
1¼	24	864	24	864	32	384	24	648	–	–
1½	20	720	20	720	32	384	–	–	–	480
2"	16	576	16	576	28	336	–	–	–	385
2½	–	741	12	432	20	240	–	–	–	315
76.1mm	–	728	–	637	–	350	–	–	–	315
3"	–	630	8	288	35	210	–	–	–	240
4"	–	377	–	324	–	175	–	–	–	150
139.7mm	–	240	–	198	–	–	–	198	–	–
5"	–	220	–	198	–	96	–	198	–	80
165.1mm	–	180	–	165	–	100	–	–	–	70
6"	–	180	–	165	–	100	–	–	–	64
8"	–	80	–	80	–	48	–	–	–	36
10"	–	–	–	40	–	24	–	–	–	24
12"	–	–	–	30	–	20	–	–	–	20

**Grooved Couplings – Pieces Per Carton/Pallet**

Nominal Size	#71 Flange Adaptor				#770 Heavy Duty Coupling		Nominal Size	#716 Reducing Coupling			
	Primary Warehouse		Secondary Warehouse		Primary Warehouse			Primary Warehouse		Secondary Warehouse	
	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet		Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet
2"	–	–	–	210	–	385	2" x 1½"	–	–	20	240
2½	–	–	–	210	–	315	2½" x 2"	9	324	20	240
76.1mm	–	–	–	156	–	–	3" x 2"	–	–	12	144
3"	–	–	–	124	–	240	3" x 2½"	–	–	12	144
4"	–	–	–	124	–	120	3" x 76.1mm	7	252	–	–
5"	1	176	–	30	–	–	4" x 2"	–	–	8	96
165.1mm	–	–	–	36	–	–	4" x 2½"	–	–	8	96
6"	–	–	–	30	–	60	4" x 76.1mm	5	180	–	–
8"	1	96	–	30	–	36	4" x 3"	–	–	8	96
10"	1	20	–	24	–	18	5" x 4"	3	108	–	80
12"	1	20	–	24	–	20					

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**Grooved Fittings – Pieces Per Carton/Pallet**

Nominal Size	#510 90° Elbow				#501 45° Elbow				#212 22½° Elbow		#211 11¼° Elbow	
	Primary Warehouse		Secondary Warehouse		Primary Warehouse		Secondary Warehouse		Primary Warehouse		Primary Warehouse	
	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Crate	Pieces / Carton	Pieces / Crate
1"	81	2916	–	–	60	2160	–	–	–	–	–	–
1¼"	32	1152	40	480	56	2016	45	540	72	864	–	–
1½"	28	1008	36	432	42	1512	39	468	60	720	80	960
2"	15	540	18	216	24	864	24	288	38	456	48	576
2½"	8	288	12	144	12	432	15	180	24	288	24	288
76.1mm	8	288	6	72	12	432	10	120	–	–	–	–
3"	5	180	6	72	8	288	10	120	12	144	40	480
4"	–	120	–	56	–	210	–	96	–	112	–	198
139.7mm	–	65	–	–	–	96	–	–	–	–	–	–
5"	–	56	–	35	–	80	–	140	–	210	–	315
165.1mm	–	42	–	63	–	72	–	30	–	–	–	–
6"	–	40	–	24	–	54	–	90	–	–	–	72
8"	–	21	–	11	–	36	–	16	–	16	–	–
10"	–	10	–	7	–	16	–	9	–	–	–	–
12"	–	6	–	5	–	12	–	9	–	–	–	–

**Grooved Short Pattern Fittings – Pieces Per Carton/Pallet**

Nominal Size	#510S Short Pattern 90° Elbow				#519S Short Pattern Tee			
	Primary Warehouse		Secondary Warehouse		Primary Warehouse		Secondary Warehouse	
	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet
2"	18	648	18	216	14	504	15	180
2½"	10	360	12	144	6	216	20	120
76.1mm	10	360	–	–	6	216	–	–
3"	8	288	10	120	5	180	7	84
4"	–	168	–	70	–	102	–	60
139.7mm	–	72	–	–	–	60	–	–
5"	–	72	–	–	–	60	–	–
165.1mm	–	48	–	–	–	37	–	–
6"	–	44	–	28	–	37	–	15
8"	–	22	–	11	–	18	–	24

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**Grooved Fittings – Pieces Per Carton/Pallet**

Nominal Size	#519 Tee				#260 Cap				Nominal Size	#522 G-FIRE Sprinkler Outlet	
	Primary Warehouse		Secondary Warehouse		Primary Warehouse		Secondary Warehouse			Primary Warehouse	
	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet		Pieces / Carton	Pieces / Pallet
1"	50	1800	–	–	147	5292	–	–	1" x 1/2"	48	1728
1 1/4"	26	936	28	336	140	5040	294	3528	1" x 3/4"	36	1296
1 1/2"	18	648	28	336	105	3780	210	2520	1" x 1"	36	1296
2"	12	432	24	144	64	2304	140	1680	1 1/4 x 1/2"	32	1152
2 1/2"	5	180	8	96	42	1512	84	1008	1 1/4 x 3/4"	28	1008
76.1mm	5	180	3	36	42	1512	–	–	1 1/4 x 1"	24	864
3"	3	108	3	36	30	1080	63	756	1 1/2" x 1/2"	32	1152
4"	–	80	–	46	12	432	30	360	1 1/2" x 3/4"	24	864
139.7mm	–	46	–	–	6	216	–	–	1 1/2" x 1"	24	864
5"	–	33	–	36	6	216	–	392	2" x 1/2"	24	864
165.1mm	–	29	–	–	4	144	–	288	2" x 3/4"	20	720
6"	–	29	–	12	4	144	–	288	2" x 1"	20	720
8"	–	14	–	8	3	108	–	160	76.1 x 21.3mm	20	720
10"	–	7	–	10	–	70	–	96	76.1 x 26.7mm	16	576
12"	–	4	–	8	–	50	–	63	76.1 x 33.4mm	16	576
14"	–	–	–	–	–	–	–	–	–	–	–
16"	–	2	–	–	–	–	–	–	–	–	–

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**Grooved Fittings – Pieces Per Carton/Pallet**

Nominal Size	#221 Reducing Tee				Nominal Size	#250 Concentric Reducer				#251 Eccentric Reducer	
	Primary Warehouse		Secondary Warehouse			Primary Warehouse		Secondary Warehouse		Primary Warehouse	
	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet		Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet
2" x 2" x 1 1/2"	12	432	24	144	1 1/4" x 1"	100	3600	-	-	-	-
2 1/2" x 2 1/2" x 1 1/2"	5	180	-	-	1 1/2" x 1"	100	3600	-	-	-	-
2 1/2" x 2 1/2" x 2"	5	180	-	-	1 1/2" x 1 1/4"	-	-	90	1080	-	-
2 1/2" x 2 1/2" x 2 1/2"	5	180	-	-	2" x 1"	64	2304	-	-	-	-
3" x 3" x 1"	3	108	12	72	2" x 1 1/4"	64	2304	-	-	-	-
3" x 3" x 1 1/2"	-	-	4	48	2" x 1 1/2"	45	1620	-	-	-	-
3" x 3" x 2"	3	108	3	36	2 1/2" x 1 1/4"	36	1296	36	432	-	-
3" x 3" x 2 1/2"	3	108	3	36	2 1/2" x 1 1/2"	36	1296	36	432	-	-
4" x 4" x 2"	-	80	-	46	2 1/2" x 2"	27	972	36	432	-	-
4" x 4" x 2 1/2"	-	80	-	46	3" x 1 1/2"	-	-	45	270	-	-
4" x 4" x 3"	-	80	-	46	3" x 2"	29	1044	24	288	18	216
5" x 5" x 3"	-	46	-	75	3" x 2 1/2"	23	828	24	288	18	216
5" x 5" x 4"	-	46	-	36	4" x 2"	14	504	10	120	-	144
6" x 6" x 2"	-	30	-	12	4" x 2 1/2"	14	504	10	120	-	144
6" x 6" x 2 1/2"	-	30	-	48	4" x 3"	14	504	10	120	10	120
6" x 6" x 3"	-	30	-	48	5" x 3"	8	288	-	147	-	147
6" x 6" x 4"	-	29	-	48	5" x 4"	7	252	-	147	-	98
6" x 6" x 5"	-	29	-	-	6" x 2"	5	180	-	72	-	-
8" x 8" x 4"	-	-	-	8	6" x 2 1/2"	5	180	-	72	-	-
8" x 8" x 5"	-	15	-	-	6" x 3"	5	180	-	72	-	72
8" x 8" x 6"	-	15	-	6	6" x 4"	4	144	-	72	-	36
-	-	-	-	-	6" x 5"	4	144	-	216	-	144
-	-	-	-	-	8" x 3"	-	-	-	80	-	-
-	-	-	-	-	8" x 4"	-	-	-	80	-	-
-	-	-	-	-	8" x 5"	-	-	-	32	-	-
-	-	-	-	-	8" x 6"	-	-	-	32	-	-
-	-	-	-	-	10" x 6"	-	-	-	11	-	-
-	-	-	-	-	12" x 4"	-	-	-	9	-	-
-	-	-	-	-	12" x 8"	-	-	-	36	-	-
-	-	-	-	-	12" x 10"	-	-	-	36	-	-

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**Mechanical Tees – Pieces Per Carton/Pallet**

Nominal Size	#730 Mechanical Tee - Grooved				#730 Mechanical Tee - Threaded			
	Primary Warehouse		Secondary Warehouse		Primary Warehouse		Secondary Warehouse	
	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet
2" x 1/2"	–	–	–	–	14	378	15	180
2" x 3/4"	–	–	–	–	14	378	15	180
2" x 1"	–	–	–	–	13	351	15	180
2" x 1 1/4"	15	405	15	180	15	405	15	180
2" x 1 1/2"	15	351	12	144	15	351	12	144
2 1/2" x 1/2"	–	–	–	–	13	351	14	168
2 1/2" x 3/4"	–	–	–	–	13	351	14	168
2 1/2" x 1"	–	–	–	–	13	351	14	168
2 1/2" x 1 1/4"	13	351	14	168	13	351	14	168
2 1/2" x 1 1/2"	13	351	14	168	13	351	14	168
2 1/2" x 2"	10	270	–	–	10	270	–	–
76.1 x 21.3mm	–	–	–	–	13	351	–	–
76.1 x 26.7mm	–	–	–	–	13	351	–	–
76.1 x 33.4mm	–	–	–	–	13	351	–	–
76.1 x 42.4mm	13	351	–	–	13	351	–	–
76.1 x 48.3mm	13	351	–	–	13	351	–	–
76.1 x 60.3mm	10	270	–	–	10	270	–	–
3" x 1/2"	–	–	–	–	10	270	11	132
3" x 3/4"	–	–	–	–	10	270	11	132
3" x 1"	–	–	–	–	10	270	11	132
3" x 1 1/4"	10	270	11	132	10	270	11	132
3" x 1 1/2"	9	243	11	132	9	243	11	132
3" x 2"	7	189	8	96	7	189	8	96
4" x 1/2"	–	–	–	–	7	189	8	96
4" x 3/4"	–	–	–	–	8	216	8	96
4" x 1"	–	–	–	–	8	216	8	96
4" x 1 1/4"	14	378	8	96	14	378	8	96
4" x 1 1/2"	14	378	8	96	14	378	8	96
4" x 2"	6	162	6	72	6	162	6	72
4" x 2 1/2"	6	162	5	60	6	162	5	60
4" x 76.1mm	6	162	–	–	6	162	–	–
4" x 3"	5	135	4	48	5	135	8	48
5" x 1 1/2"	4	108	–	–	4	108	–	–
5" x 2"	4	108	4	48	4	108	4	48
5" x 2 1/2"	4	108	8	96	4	108	8	96
5" x 76.1mm	4	108	–	–	4	108	–	–
5" x 3"	3	81	–	–	3	81	–	–
165.1 x 42.4mm	3	81	–	–	3	81	–	–
165.1 x 48.3mm	3	81	–	–	3	81	–	–
165.1 x 60.3mm	3	81	–	–	3	81	–	–
165.1 x 73.0mm	3	81	–	–	3	81	–	–
165.1 x 76.1mm	3	81	–	–	–	–	–	–
165.1 x 88.9mm	–	–	–	–	2	54	–	–
165.1 x 114.3mm	2	54	–	–	–	–	–	–

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**Mechanical Tees – Pieces Per Carton/Pallet**

Nominal Size	#730 Mechanical Tee - Grooved				#730 Mechanical Tee - Threaded			
	Primary Warehouse		Secondary Warehouse		Primary Warehouse		Secondary Warehouse	
	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet
6" x 1 <sup>1</sup> / <sub>4</sub> "	3	81	–	–	3	81	–	–
6" x 1 <sup>1</sup> / <sub>2</sub> "	3	81	8	48	3	81	8	48
6" x 2"	3	81	8	48	3	81	7	42
6" x 2 <sup>1</sup> / <sub>2</sub> "	3	81	7	42	3	81	7	42
6" x 76.1mm	3	81	–	–	–	–	–	–
6" x 3"	2	54	7	42	2	54	6	36
6" x 4"	2	54	6	36	–	–	6	36
8" x 2"	–	50	–	–	–	50	–	–
8" x 2 <sup>1</sup> / <sub>2</sub> "	–	50	4	24	–	50	4	24
8" x 76.1mm	–	50	–	–	–	–	–	–
8" x 3"	–	50	4	24	–	50	4	24
8" x 4"	–	50	4	24	–	–	4	24

**CV-1 – Pieces Per Carton/Pallet**

Nominal Size	#CV-1F G-FIRE Grooved Check Valve	
	Primary Warehouse	
	Pieces / Carton	Pieces / Pallet
2"	–	45
2 <sup>1</sup> / <sub>2</sub> "	–	30
3"	–	30
4"	–	20
5"	–	18
6"	–	12
8"	–	8
10"	–	4

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[www.grinnell.com](http://www.grinnell.com)

**Replacement Gaskets – Pieces Per Carton/Pallet**

Nominal Size	C-Style Gaskets		Tri-Seal Gaskets	
	Primary Warehouse		Primary Warehouse	
	Pieces / Carton	Pieces / Pallet	Pieces / Carton	Pieces / Pallet
1"	858	5148	858	5148
1 1/4"	567	3402	567	3402
1 1/2"	464	2784	464	2784
2"	329	1974	329	1974
2 1/2"	252	1512	252	1512
76.1mm	228	1368	228	1368
3"	171	1026	171	1026
4"	99	594	99	594
139.7mm	63	378	63	378
165.1mm	60	360	60	360
6"	60	360	60	360
8"	28	168	28	168
10"	20	120	20	120
12"	14	84	14	84
14"	12	72		
16"	10	60		
18"	10	60		
20"	12	72		

**Replacement Gaskets – Pieces Per Carton/Pallet**

Nominal Size	#522 G-FIRE Sprinkler Outlet	
	Primary Warehouse	
	Pieces / Carton	Pieces / Pallet
1" x 1/2"	48	1728
1" x 3/4"	36	1296
1" x 1"	36	1296
1 1/4 x 1/2"	32	1152
1 1/4 x 3/4"	28	1008
1 1/4 x 1"	24	864
1 1/2" x 1/2"	32	1152
1 1/2" x 3/4"	24	864
1 1/2" x 1"	24	864
2" x 1/2"	24	864
2" x 3/4"	20	720
2" x 1"	20	720
76.1mm x 1/2"	20	720
76.1mm x 3/4"	16	576
76.1mm x 1"	16	576



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034EPDME	46	211165M	15	221141114G	19	250060048G	21	250219165G	21
034EPDME3	46	211168G	15	221141114M	19	250060048M	21	250219165M	21
042EPDMA-PL	46	211168M	15	221165089G	19	250073042G	21	250219168G	21
042EPDME	46	211219G	15	221165089M	19	250073042M	21	250219168M	21
042EPDME3	46	211219M	15	221165114G	19	250073048G	21	250273165G	22
048EPDMA-PL	46	212042G	14	221165114M	19	250073048M	21	250273165M	22
048EPDME	46	212042M	14	221168060G	20	250073060G	21	250273168G	22
048EPDME3	46	212048G	14	221168060M	20	250073060M	21	250273168M	22
060EPDMA-PL	46	212048M	14	221168073G	20	250076042G	21	250273219G	22
060EPDME	46	212060G	14	221168073M	20	250076042M	21	250273219M	22
060EPDME3	46	212060M	14	221168076G	20	250076048G	21	250324114G	22
073EPDMA-PL	46	212073G	14	221168076M	20	250076048M	21	250324114M	22
073EPDME	46	212073M	14	221168089G	20	250076060G	21	250324168G	22
073EPDME3	46	212076G	14	221168089M	20	250076060M	21	250324168M	22
076EPDMA-PL	46	212076M	14	221168114G	20	250089048G	21	250324219G	22
076EPDME	46	212089G	14	221168114M	20	250089048M	21	250324219M	22
076EPDME3	46	212089M	14	221216165G	20	250089060G	21	250324273G	22
089EPDMA-PL	46	212114G	14	221216165M	20	250089060M	21	250324273M	22
089EPDME	46	212114M	14	221219114G	20	250089073G	21	260042G	25
089EPDME3	46	212139G	14	221219114M	20	250089073M	21	260048G	25
114EPDMA-PL	46	212139M	14	221219165G	20	250089076G	21	260060G	25
114EPDME	46	212141G	14	221219165M	20	250089076M	21	260073G	25
114EPDME3	46	212141M	14	221219168G	20	250114060G	21	260076G	25
139EPDMA-PL	46	212168G	14	221219168M	20	250114060M	21	260089G	25
139EPDME	46	212168M	14	221273114G	20	250114073G	21	260114G	25
139EPDME3	46	212219G	14	221273114M	20	250114073M	21	260139G	25
141EPDMA-PL	46	212219M	14	221273168G	20	250114076G	21	260141G	25
141EPDME	46	219076G	16	221273168M	20	250114076M	21	260165G	25
141EPDME3	46	219139G	16	221273219G	20	250114089G	21	260168G	25
165EPDMA-PL	46	219165G	16	221273219M	20	250114089M	21	260219G	25
165EPDME	46	219216G	16	227042G	24	250139089G	21	260273G	25
165EPDME3	46	219EPDMA-PL	46	227042M	24	250139089M	21	260324G	25
168EPDMA-PL	46	219EPDME	46	227048G	24	250139114G	21	260M00042I	25
168EPDME	46	219EPDME3	46	227048M	24	250139114M	21	260M00048I	25
168EPDME3	46	219M00076I	16	227060G	24	250141089G	21	260M00060I	25
201076G	14	219M00139I	16	227060M	24	250141089M	21	260M00073I	25
201139G	14	219M00165I	16	227073G	24	250141114G	21	260M00076I	25
201165G	14	219M00216I	16	227073M	24	250141114M	21	260M00089I	25
201216G	14	221060048G	19	227076G	24	250165089G	21	260M00114I	25
201M00076I	14	221060048M	19	227076M	24	250165089M	21	260M00139I	25
201M00139I	14	221073060G	19	227089G	24	250165114G	21	260M00141I	25
201M00165I	14	221073060M	19	227089M	24	250165114M	21	260M00165I	25
201M00216I	14	221076060G	19	227114G	24	250165139G	21	260M00168I	25
210076G	13	221076060M	19	227114M	24	250165139M	21	260M00219I	25
210139G	13	221089034G	19	227139G	24	250168034G	21	260M00273I	25
210165G	13	221089034M	19	227139M	24	250168034M	21	260M00324I	25
210216G	13	221089048G	19	227141G	24	250168048G	21	260M20051	25
210M00076I	13	221089048M	19	227141M	24	250168048M	21	260M20052	25
210M00139I	13	221089060G	19	227165G	24	250168060G	21	260M20101	25
210M00165I	13	221089060M	19	227165M	24	250168060M	21	260M20102	25
210M00216I	13	221089073G	19	227168G	24	250168073G	21	260M25051	25
211042G	15	221089073M	19	227168M	24	250168073M	21	260M25052	25
211042M	15	221089076G	19	227216G	24	250168076G	21	260M25101	25
211048G	15	221089076M	19	227216M	24	250168076M	21	260M25102	25
211048M	15	221114060G	19	227219G	24	250168089G	21	260M26051	25
211060G	15	221114060M	19	227219M	24	250168089M	21	260M26052	25
211060M	15	221114073G	19	227273G	24	250168114G	21	260M26101	25
211073G	15	221114073M	19	227273M	24	250168114M	21	260M26102	25
211073M	15	221114076G	19	227324G	24	250168139G	21	260M30051	25
211076G	15	221114076M	19	227324M	24	250168139M	21	260M30052	25
211076M	15	221114089G	19	250042034G	21	250168141G	21	260M30101	25
211089G	15	221114089M	19	250042034M	21	250168141M	21	260M30102	25
211089M	15	221139089G	19	250048034G	21	250219089G	21	260M42051	25
211114G	15	221139089M	19	250048034M	21	250219089M	21	260M42052	25
211114M	15	221139114G	19	250048042G	21	250219114G	21	260M42101	25
211139G	15	221139114M	19	250048042M	21	250219114M	21	260M42102	25
211139M	15	221141073G	19	250060034G	21	250219139G	21	260M52051	25
211141G	15	221141073M	19	250060034M	21	250219139M	21	260M52052	25
211141M	15	221141089G	19	250060042G	21	250219141G	21	260M52101	25

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260M53052	25	321060027G	19	321324089G	20	323T168073G	18	341273M	26
260M53101	25	321060027M	19	321324089M	20	323T168073M	18	341324G	26
260M53102	25	321060034G	19	321324114G	20	323T168089G	18	341324M	26
260M62051	25	321060034M	19	321324114M	20	323T168089M	18	342034G	26
260M62052	25	321060042G	19	321324141G	20	323T168114G	18	342034M	26
260M62101	25	321060042M	19	321324141M	20	323T168114M	18	342042G	26
260M62102	25	321073027G	19	321324168G	20	323T168141G	18	342042M	26
260M63051	25	321073027M	19	321324168M	20	323T168141M	18	342048G	26
260M63052	25	321073034G	19	321324219G	20	323T219060G	18	342048M	26
260M63101	25	321073034M	19	321324219M	20	323T219060M	18	342060G	26
260M63102	25	321073042G	19	321324273G	20	323T219089G	18	342060M	26
260M80051	25	321073042M	19	321324273M	20	323T219089M	18	342073G	26
260M80052	25	321073048G	19	323T060027G	18	323T219114G	18	342073M	26
260M80101	25	321073048M	19	323T060027M	18	323T219114M	18	342089G	26
260M80102	25	321076048G	19	323T060034G	18	323T219141G	18	342089M	26
273EPDMA-PL	46	321076048M	19	323T060034M	18	323T219141M	18	342114G	26
273EPDME	46	321089027G	19	323T060042G	18	323T219165G	18	342114M	26
273EPDME3	46	321089027M	19	323T060042M	18	323T219165M	18	342141G	26
311034G	15	321089042G	19	323T060048G	18	323T219168G	18	342141M	26
311034M	15	321089042M	19	323T060048M	18	323T219168M	18	342168G	26
311273G	15	321114027G	19	323T073027G	18	323T273060G	18	342168M	26
311273M	15	321114027M	19	323T073027M	18	323T273060M	18	342219G	26
311324G	15	321114034G	19	323T073034G	18	323T273089G	18	342219M	26
311324M	15	321114034M	19	323T073034M	18	323T273089M	18	342273G	26
312034G	14	321114042G	19	323T073042G	18	323T273114G	18	342273M	26
312034M	14	321114042M	19	323T073042M	18	323T273114M	18	342324G	26
312273G	14	321114048G	19	323T073048G	18	323T273141G	18	342324M	26
312273M	14	321114048M	19	323T073048M	18	323T273141M	18	343034G	26
312324G	14	321141034G	19	323T073060G	18	323T273168G	18	343034M	26
312324M	14	321141034M	19	323T073060M	18	323T273168M	18	343042G	26
320T034G	17	321141048G	19	323T089027G	18	323T273219G	18	343042M	26
320T034M	17	321141048M	19	323T089027M	18	323T273219M	18	343048G	26
320T042G	17	321141060G	19	323T089034G	18	323T324089G	18	343048M	26
320T042M	17	321141060M	19	323T089034M	18	323T324089M	18	343060G	26
320T048G	17	321168034G	20	323T089042G	18	323T324114G	18	343060M	26
320T048M	17	321168034M	20	323T089042M	18	323T324114M	18	343073G	26
320T060G	17	321168048G	20	323T089048G	18	323T324141G	18	343073M	26
320T060M	17	321168048M	20	323T089048M	18	323T324141M	18	343076G	26
320T073G	17	321168139G	20	323T089060G	18	323T324168G	18	343076M	26
320T073M	17	321168139M	20	323T089060M	18	323T324168M	18	343089G	26
320T076G	17	321168141G	20	323T089073G	18	323T324219G	18	343089M	26
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POA = Price on availability. Prices subject to change without notice.

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