



G-FIRE
GASKETS

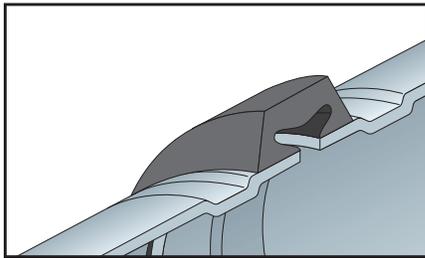
GRINNELL Gasket Seal

Tech Data Sheet: TFP1895

Pressure responsive gaskets are offered in a variety of types. Although they each serve a specific function they all utilise the same sealing design.

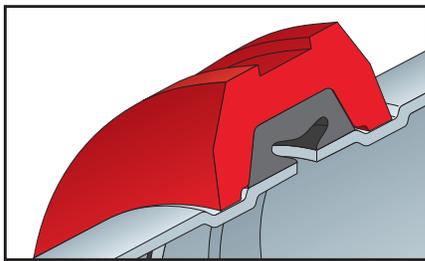
The GRINNELL gasket is designed to provide a three-way sealing action.

- (1) Installation of the gasket over the outside sealing surface of the pipe compresses the lip seal and forms the initial seal.
- (2) The installation of the housing segments around the gasket and into the pipe groove properly positions the gasket. Tightening of the housing segments forms the gasket to the inside of the housing and compresses it around the pipe-sealing surface thus increasing the gasket's sealing against the pipe.
- (3) The introduction of the system pressure energises the pressure responsive seal of the gasket and further enhances the sealing action.



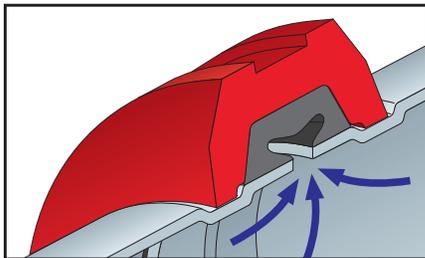
First Seal

C-shaped rubber gasket seals on pipe ends.



Second Seal

The housings compress the gasket to increase the sealing capacity.



Third Seal

The system pressure or vacuum will then maximise the leak-tight seal.



For detailed Listing and Approval information see pages 101 - 108 or contact Tyco Fire Protection Products.



Gaskets

Gasket Styles

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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, and 707 GRINNELL G-FIRE Couplings. The gasket is available in Grade "A" EPDM. Grade "E" is also available for certain applications



Tri-Seal

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



The Tri-Seal gasket can be used with the Figure 577, 705, and 707 GRINNELL Couplings. It is recommended for use in low temperature and vacuum services (greater than 250mm Hg (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.

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

Reducing Coupling

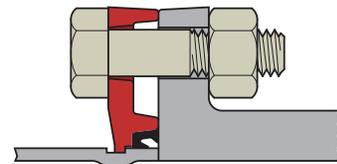
The reducing gasket is provided with ribs used to position the larger pipe so that the sealing lip is located on the sealing surface of the pipe. This gasket is used only with the Figure 716 GRINNELL Reducing Coupling and is available in Grade "E" EPDM.



Reducing couplings are not recommended for low temperature applications.

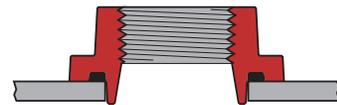
Flange Adaptor

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



Outlet Fittings

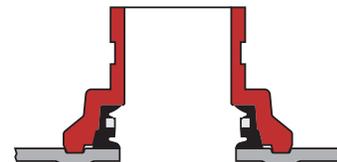
The gasket provides a compression type seal, which is designed to conform to the exterior curve (OD) of the pipe. This design is unique to both the Figure 730 Outlet Fittings (threaded and grooved). The gasket is available in Grade "E" EPDM.



Note: When used in low temperature applications, use a petroleum-free silicone based lubricant, otherwise no lubricant is required on Outlet Fitting gaskets.

Outlet Coupling

This gasket is specifically designed for use with the Figure 702 Outlet 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 GRINNELL Products limited warranty.

Gaskets

GRINNELL Gasket Grade & Recommendations

Tech Data Sheet: TFP1895

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

In evaluating the gasket grade for intended service applications the following consideration must be reviewed: 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.

Contact Tyco Technical Services for recommendations for services not listed.

Gasket recommendations apply to GRINNELL gaskets and valves only.

Grade	Temperature Range	Compound	Colour Stripe Code	General Service Application
"A" Pre-Lubricated	-34°C to 66°C (-30°F to 150°F)	EPDM	Violet	Fire Protection systems Not recommended for hot water systems.
"E" Tri-Seal	-34°C to 110°C (-30°F to 230°F)	EPDM	Green	Fire Protection systems. For dry pipe or freezer systems
"E"	-34°C to 110°C (-30°F to 230°F)	EPDM	Green	Mechanical applications and Fire Protection systems

For local country potable water approvals contact Tyco Technical Services



For detailed Listing and Approval information see pages 101 - 108 or contact Tyco Fire Protection Products.

Figure 702 Replacement Gaskets

Run Pipe Size		Branch Size mm In.
Nominal mm In.	O.D. mm In.	
40 1-1/2	48.3 1.900	21.3 1/2
		26.7 3/4
		33.7 1
		21.3 1/2
50 2	60.3 2.375	26.7 3/4
		33.7 1
		21.3 1/2
		26.7 3/4
65 2-1/2	73.0 2.875	33.7 1
		42.4 1-1/4
		48.3 1-1/2
		21.3 1/2
		26.7 3/4
		33.7 1

Run Pipe Size		Branch Size mm In.
Nominal mm In.	O.D. mm In.	
80 3	88.9 3.500	26.7 3/4
		33.7 1
		42.4 1-1/4
		48.3 1-1/2
		26.7 3/4
		33.7 1
100 4	114.3 4.500	48.3 1-1/2
		60.3 2
		26.7 3/4
		33.7 1

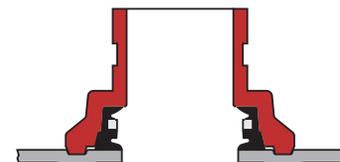
Run Pipe Size		Branch Size mm In.
Nominal mm In.	O.D. mm In.	
150 6	168.3 6.625	33.7 1
		32 1-1/4
		48.3 1-1/2
		60.3 2
		26.7 3/4
		33.7 1

Contact local sales rep or customer service regarding part numbers and availability

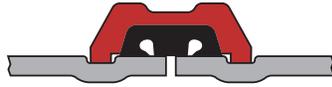
Gaskets

Outlet Coupling

This gasket is specifically designed for use with the GRINNELL Figure 702 Outlet Coupling.



Figures 577, 705, and 707 Replacement gaskets

Style C

Tri-Seal

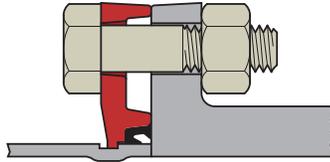

Pipe Size		EPDM		
Nominal mm <i>Inches</i>	O.D. mm <i>Inches</i>	Grade A EPDM C-Style PreLube Gasket	Grade E Tri-Seal	Grade E C-Style
25 <i>1</i>	33.7 <i>1.315</i>	034EPDMAPL	10EPDM-TRI	10EPDM
32 <i>1¼</i>	42.4 <i>1.660</i>	042EPDMAPL	12EPDM-TRI	12EPDM
40 <i>1½</i>	48.3 <i>1.900</i>	048EPDMAPL	15EPDM-TRI	15EPDM
50 <i>2</i>	60.3 <i>2.375</i>	060EPDMAPL	20EPDM-TRI	20EPDM
65 <i>2½</i>	73.0 <i>2.875</i>	073EPDMAPL	25EPDM-TRI	25EPDM
65 <i>76,1mm</i>	76.1 <i>3.000</i>	076EPDMAPL	26EPDM-TRI	26EPDM
80 <i>3</i>	88.9 <i>3.500</i>	089EPDMAPL	30EPDM-TRI	30EPDM
100 <i>108.0mm</i>	108.0 <i>4.252</i>	108EPDMAPL	41EPDM-TRI	41EPDM
100 <i>4</i>	114.3 <i>4.500</i>	114EPDMAPL	42EPDM-TRI	42EPDM
125 <i>133.0mm</i>	133.0 <i>5.236</i>	133EPDMAPL	51EPDM-TRI	51EPDM
125 <i>139.7mm</i>	139.7 <i>5.500</i>	139EPDMAPL	52EPDM-TRI	52EPDM
125 <i>5</i>	141.3 <i>5.563</i>	141EPDMAPL	52EPDM-TRI	52EPDM
150 <i>159.0mm</i>	159.0 <i>6.260</i>	159EPDMAPL	61EPDM-TRI	61EPDM
150 <i>165.1mm</i>	165.1 <i>6.500</i>	165EPDMAPL	62EPDM-TRI	62EPDM
150 <i>6</i>	168.3 <i>6.625</i>	168EPDMAPL	63EPDM-TRI	63EPDM
200 <i>8</i>	219.1 <i>8.625</i>	219EPDMAPL	80EPDM-TRI	80EPDM
250 <i>10</i>	273.0 <i>10.750</i>	273EPDMAPL	11EPDM-TRI	11EPDM
300 <i>12</i>	323.9 <i>12.750</i>	324EPDMAPL	13EPDM-TRI	13EPDM

Gaskets

Figure 71 Replacement Gaskets

Flange Adaptor

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



Pipe Size		EPDM Grade E 71-Style
Nominal mm Inches	O.D. mm Inches	
50 2	60.3 2.375	20EPDM71
65 2½	73.0 2.875	25EPDM71
65 76,1mm	76.1 3.000	26EPDM71
80 3	88.9 3.500	30EPDM71
100 4	114.3 4.500	42EPDM71
125 139,7mm	139.7 5.500	52EPDM71
125 5	141.3 5.563	53EPDM71
150 165,1mm	165.1 6.500	62EPDM71
150 6	168.3 6.625	63EPDM71
200 8	219.1 8.625	80EPDM71
250 10	273.0 10.750	11EPDM71
300 12	323.9 12.750	13EPDM71

Figure 716 Replacement Gaskets

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.



Pipe Size		EPDM Grade E 716-Style
Nominal mm Inches	O.D. mm Inches	
50 x 40 2 x 1½	60.3 x 48.3 2.375 x 1.900	EPDM2015
65 x 50 2½ x 2	73.0 x 60.3 2.875 x 2.375	EPDM2520
65 x 50 76.1 x 2	76.1 x 60.3 3.000 x 2.375	EPDM2620
80 x 50 3 x 2	88.9 x 60.3 3.500 x 2.375	EPDM3020
80 x 65 3 x 2½	88.9 x 73.0 3.500 x 2.875	EPDM3025
80 x 65 3 x 76,1mm	88.9 x 76.1 3.500 x 3.000	EPDM3026
100 x 60 4 x 2	114.3 x 60.3 4.500 x 2.375	EPDM4220
100 x 65 4 x 2½	114.3 x 73.0 4.500 x 2.875	EPDM4225
100 x 65 114,3 x 76,1mm	114.3 x 76.1 4.500 x 3.000	EPDM4226
100 x 80 4 x 3	114.3 x 88.9 4.500 x 3.500	EPDM4230
125 x 100 139,7mm x 4	139.7 x 114.3 5.500 x 4.500	EPDM5242
125 x 100 5 x 4	141.3 x 114.3 5.563 x 4.500	EPDM5342
150 x 100 165mm x 4	165.1 x 114.3 6.500 x 4.500	EPDM6242
150 x 100 6 x 4	168.3 x 114.3 6.625 x 4.500	EPDM6342
150 x 125 6 x 5	168.3 x 141.3 6.625 x 5.563	EPDM6553
200 x 150 8 x 6	219.1 x 168.3 8.625 x 6.625	EPDM8063

Gaskets

Figure 730 & 522 Replacement Gaskets

Outlet Fittings

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 the Figure 730 Mechanical Tee (threaded and grooved) and Figure 522 Sprinkler Outlet.

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.

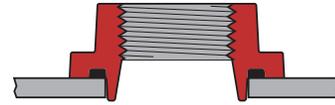
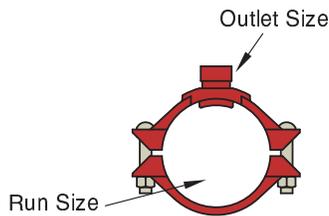
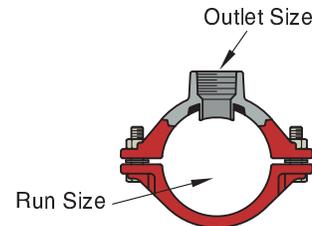


Figure 730 Gaskets



Run Size mm Inches	Outlet Size mm Inches	EPDM Grade E 730-Style	Nitrile Grade T 730-Style
50. 65. 80. 100 2, 2 1/2, 3, 4	15. 20. 25 1/2, 3/4, 1	1EPDM730	1BUNA730
50. 80. 100 2, 3, 4	32 1 1/4	2EPDM730	2BUNA730
50 2	40 1 1/2	2EPDM730	2BUNA730
65. 80. 100. 150 2 1/2, 3, 4, 5, 6	40 1 1/2	3EPDM730	3BUNA730
65 2 1/2	32 1 1/4	3EPDM730	3BUNA730
150 6	32 1 1/4	3EPDM730	3BUNA730
65 2 1/2	50 2	3EPDM730	3BUNA730
80. 100. 125. 150. 200 3, 4, 5, 6, 8	50 2	4EPDM730	4BUNA730
100. 125 4, 5	65 2 1/2	5EPDM730	5BUNA730
150. 200 6, 8	65 2 1/2	6EPDM730	6BUNA730
100. 125 4, 5	80 3	7EPDM730	7BUNA730
150. 200 6, 8	80 3	8EPDM730	8BUNA730
150. 200 6, 8	100 4	9EPDM730	9BUNA730

Figure 522 Gaskets



Run Size mm Inches	Outlet Size mm Inches	EPDM Grade E 522-Style
32 1 1/4	10 3/8	976-001
25. 32. 40 1, 1 1/4, 1 1/2	15. 20. 25 1/2, 3/4, 1	976-001
50 2	15. 20 1/2, 3/4	976-001
65 2 1/2	15. 20 1/2, 3/4	976-001
25 1	15. 20. 25 1/2, 3/4, 1	976-290
50 2	25 1	976-304
65 2 1/2	25 1	976-304

Gaskets

Miscellaneous, Lubricant

Tech Data Sheet: TFP1895



During installation of a GRINNELL G-FIRE Coupling, always lubricate the gasket. For couplings using the tri-seal gasket in a low temperature application, use a petroleum-free silicone based lubricant. For outlet fittings when used in low temperature applications, use a petroleum-free silicone based lubricant, otherwise no lubricant is required. For information on health safety, contact Tyco Technical Services for Material Safety Data Sheets (MSDS).

Part Number	Traditional Lubricant	Approx. Weight kg Lbs.
70006E	English Label	0.5 1.1
70008E	English Label	1.0 2.2
70009E	German Label	1.0 2.2
70010E	French Label	1.0 2.2
70011E	Dutch Label	1.0 2.2
70013E	Spanish Label	1.0 2.2
70015E	Swedish Label	1.0 2.2

Part Number	Quick Dry Lubricant	Approx. Weight kg Lbs.
70006B	English Label	0.5 1.1
70008B	English Label	1.0 2.2
70009B	German Label	1.0 2.2
70010B	French Label	1.0 2.2
70011B	Dutch Label	1.0 2.2
70013B	Spanish Label	1.0 2.2
70015B	Swedish Label	1.0 2.2

Part Number	GETL (GRINNELL Extreme Temperature Lubricant)	Approx. Weight kg Lbs.
8000B	English Label	0.5 1.1

Part Number	Lubricant for Potable Water	Approx. Weight kg Lbs.
VR69-252	With KTW Certificate	1.0 2.2

Application	Traditional Lubricant	Quick Dry Lubricant	GETL (GRINNELL Extreme Temperature Lubricant)
Fire Protection	•	•	•
Chilled Water	•		•
Heating			•
Compressed Air	•	•	•
Drainage	•	•	•
Sewage	•	•	•
Process < 66°C (150°F)	•		•
Process > 66°C (150°F)			•

The below table will give an indication on the number of gaskets which can be lubricated with 1 kg lubricant

Gasket Size mm In.	Traditional Lubricant	Quick Dry Lubricant	GETL (GRINNELL Extreme Temperature Lubricant)
50 2	440	440	1000
80 3	300	300	700
100 4	220	220	500
150 6	135	135	300
200 8	110	110	250
250 10	85	85	200
300 12	65	65	160

Gaskets