

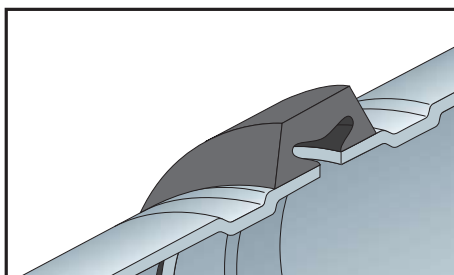
GRINNELL Gasket Seal

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.

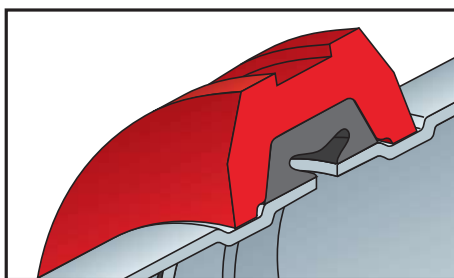
The GRINNELL gasket is designed to provide a three-way sealing action.

- (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.



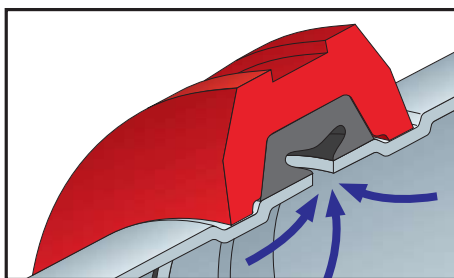
First Seal

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.



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, 707, and 770 GRINNELL Couplings. The gasket is available in Grade "E" EPDM or Grade "A" EPDM.



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

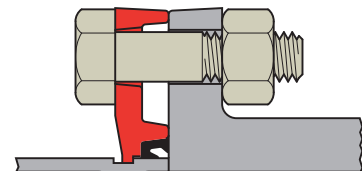
The reducing gasket is provided with ribs used to position the larger pipe so that the sealing lip is located on the sealing surface of the pipe. This gasket is used only with the Figure 716 GRINNELL Reducing Coupling and is available in Grade "E" EPDM.

Reducing couplings are not recommended for low temperature applications.



Flange Adaptor

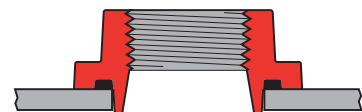
This gasket is specifically designed for use with the Figure 71 Flange Adaptor. The gasket has an optimum amount of rubber to provide a dependable seal between both the pipe and mating surface. The gasket is available in Grade "E" EPDM.



Mechanical Tee

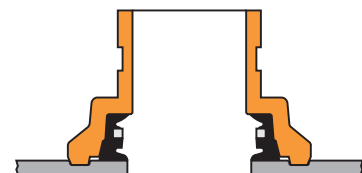
The gasket provides a compression type seal, which is designed to conform to the exterior curve (OD) of the pipe. This design is unique to the Figure 730 Mechanical Tee (threaded and grooved). The gasket is available in Grade "E" EPDM.

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



Outlet Coupling

This gasket is specifically designed for use with the GRINNELL 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

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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.

Technical and Engineering Services should be consulted (Phone 1300 725 688, Fax +61 3 9933 6204) if combinations of service solutions are being considered.

Contact GRINNELL Products for recommendations for services not listed.

Gasket recommendations apply to GRINNELL gaskets and valves only.

Grade	Temperature Range	Compound	Colour 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"	-34°C to 110°C (-30°F to 230°F)	EPDM	Green	Fire Protection 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
For local country potable water approvals contact GRINNELL Products				



GRINNELL Gasket Lubricants

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During installation of a GRINNELL 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 mechanical tees and straps when used in low temperature applications, use a petroleum-free silicone based lubricant, otherwise no lubricant is required.

GRINNELL Piping Products recommends two kinds of lubricant:

- La-Co Industries Lubri-Joint
- Dow Corning* 7 Release Compound (Silicone)

Check lubricant chart to be certain the proper lubricant is recommended for the service intended. For information on health safety, contact GRINNELL Products for Material Safety Data Sheets (MSDS).

Application	La-Co Industries Lubri-Joint	Dow Corning* 7 Release Compound (Silicone)
Chilled Water	•	•
Heating	•	•
Compressed Air	•	•
Drainage	•	•
Sewage	•	•
Low Temp./Vacuum	•	•
Fire Protection	•	•



Available in:

- 0.95 Litre (1 Quart)
- 3.8 Litre (1 Gallon)

Silicone Gasket Lubricant recommended for use with tri-seal gasket (Dow Corning D.C. No. 7)* available in:

- 150 grammes (5.3 oz) Tube
- 3.6 kg (8 lb) Can

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