

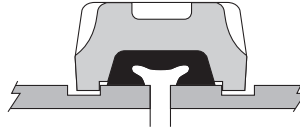
Gruvlok® Gasket Styles

Gruvlok offers a variety of pressure responsive gasket styles. Each serves a specific function while utilizing the same basic sealing concept. Proper installation of the gasket compresses the inclined gasket lips on the pipe O.D., forming a leak tight seal. This sealing action is reinforced when the gasket is encompassed and compressed by the coupling housings. The application of internal line pressure energizes the elastometric gasket and further enhances the gasket sealing action.



“C” Style

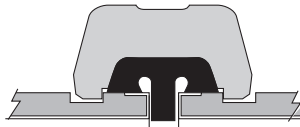
The “C” Style cross section configuration is the most widely used gasket. It is the gasket style provided as standard in many Gruvlok Couplings (Fig. 7000, 7001, 7003, 7004HPR, 7307, 7400 and 7401). Grade “E” and “T” are standard grades while other grades are available for special applications.



End Guard™

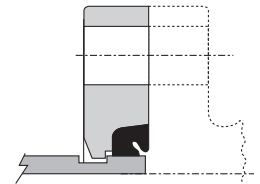
The projecting rib fits between the ends of lined pipe to prevent damage to unprotected pipe ends during coupling joint assembly. The E.G. gasket is provided as standard with the Fig. 7004 E.G. Coupling.

Grade “E” and “T” gaskets are available.



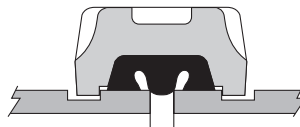
Flange

A specially designed gasket for the Fig. 7012, 7013 and 7312 Flange provides for a reliable seal on both the pipe and the mating flange.



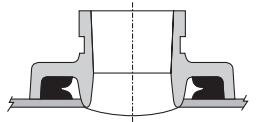
Flush Gap™

Designed to prohibit contaminants from building up in the gasket cavity. The centering rib fits flush over the gap between the two pipe ends thus closing off the gasket cavity. It can be used with Fig. 7000, 7001, 7400 and 7401 Couplings for many applications. Recommended for use in dry fire protection systems.



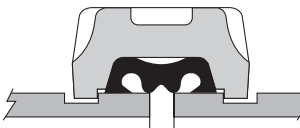
Clamp-T™

These gaskets conform to the curved exterior of the pipe to provide a pressure responsive seal. This unique design is only used with Fig. 7045, 7046 Clamp-T and Fig. 7047, 7048, and 7049 Clamp-T Crosses.



SlideLOK™ Pressure Responsive

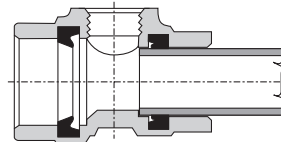
SlideLOK gasket patent pending design easily slides over the grooved pipe end for quick installation. The gasket design provides a 360° consistent compression seal when fully installed. The internal ribs are design to prohibit contaminants from building in the gasket cavity by engaging individually with each pipe end.



Sock-it®

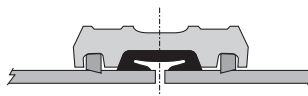
Used in Sock-It fittings only, this pressure energized gasket provides a leak-tight seal on plain end seal pipe.

Available in Grade “E” material only.



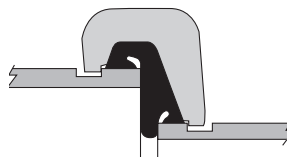
Roughneck®

This “C” style gasket is similar in appearance and design to the Standard gasket but is only used with Fig. 7005 Roughneck Couplings and Fig. 7305 HDPE Couplings. The Roughneck gasket is wider, which allows for minor pipe end separation as line pressure sets the grippers into the plain end pipe.



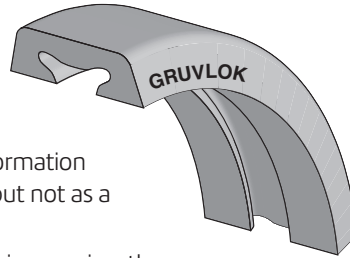
Reducing Coupling

The centering rib allows for pipe positioning and serves to keep the smaller pipe from telescoping during installation. Used only with the Fig. 7010 Reducing Coupling.



Gasket Grade Index & Recommendation

The lists are provided as an aid in selecting the optimum gasket grade for a specific application to assure the maximum service life. The recommendations have been developed from current information supplied by manufacturers of the elastomers, technical publications, and industry applications. The information supplied should be considered as a basis for evaluation but not as a guarantee.



Selection of the optimum gasket grade for a specific service requires the consideration of many factors; primarily temperature, fluid concentration, and continuity of service. Unless otherwise noted, all gasket recommendations are based on 100°F (38°C) maximum temperature service condition. Where more than one gasket grade is shown, the preferred grade is listed first.

Combinations of fluids should be referred to an ASC Engineered Solutions Representative for an engineering evaluation and recommendation. In unusual or severe services, gasket materials should be subjected to simulated service conditions to determine the most suitable gasket grade.

Gasket recommendations apply only to Gruklok gaskets. Contact an ASC Engineered Solutions Representative for recommendations for services not listed. These listings do not apply to Gruklok Butterfly Valves.

All Gruklok products marked with UL/ULC Listed, FM approved VdS and/or LPC symbols are Listed/Approved with EPDM material. For other Listed/Approved materials, please contact an ASC Engineered Solutions for more information.

Approved Gasket Applications - Water & Air

Service	Gasket Grade
Air, (no oil vapors) Temp. -40°F to 250°F (-40°C to 121°C)	EP
Air, (no oil vapors) Temp. -40°F to 350°F (-40°C to 177°C)	L
Air, Oil vapor Temp. -20°F to 150°F (-29°C to 66°C)	T
Air, Oil vapor Temp. 20°F to 300°F (-7°C to 149°C)	O
Water, Temp to 150°F (66°C)	E/EP/T
Water, Temp to 250°F (121°C)	EP
Water, Acid Mine	E/T
Water, Chlorine	(E/EP/O)
Water, Deionized	E/EP/T
Water, Seawater	E/EP/T
Water, Waste	E/EP/T
Water, Lime	E/EP/T

Where more than one gasket grade is shown the preferred gasket grade is listed first. Where the gasket grade is shown in parentheses, Contact an ASC Engineered Solutions Representative for an engineering evaluation and recommendation. Specify gasket grade when ordering. Use Gruklok lubricant on gasket. Check gasket color code to be certain it is recommended for the service intended.

Gasket Grade Index - Standard Gasket

Grade	Temp. Range	Compound	Color Code	General Service Applications
EP	-40°F to +250°F (-40°C to 121°C)	EPDM	Green and Red	Water, dilute acids, alkalis, salts, and many chemical services not involving hydrocarbons, oils, or gases. Excellent oxidation resistance. NOT FOR USE WITH HYDROCARBONS
E	-40°F to +230°F (-40°C to 110°C)	EPDM	Green	Water, dilute acids, alkalis, salts, and many chemical services not involving hydrocarbons, oils, or gases. Excellent oxidation resistance. NOT FOR USE WITH HYDROCARBONS
T	-20°F to +180°F (-29°C to 82°C)	Nitrile (Buna-N)	Orange	Petroleum products, vegetable oils, mineral oils, and air contaminated with petroleum oils. NOT FOR USE IN HOT WATER SERVICES

Gasket Grade Index - Special Gasket

Grade	Temp. Range	Compound	Color Code	General Service Applications
O	+20°F to +300°F (-7°C to 149°C)	Fluoro Elastomer	Blue	High temperature resistance to oxidizing acids, petroleum oils, hydraulic fluids, halogenated, hydrocarbons and lubricants
L	-40°F to +350°F (-40°C to 177°C)	Silicone	Red Gasket	Dry, hot air and some high temperature chemical services.
E Type A	-40°F to +150°F (-40°C to 66°C)	Pre-Lubricated	Violet	Wet & Dry (oil free air) Pipe in Fire Protection Systems. For dry pipe systems, Gruklok Xtreme™ Temperature Lubricant is required.

Vacuum Service

Size	Vacuum Level	Gasket Recommendation
1" - 12" (25 - 300mm)	0" - 10" Hg	Standard
14" - 16" (350 - 400mm)	0" - 10" Hg	Standard
1½" - 24" (40 - 600mm)	0" - 29.9" Hg	Flush Gap
2" - 8" (50 - 200mm)	0" - 29.9" Hg	SlideLOK

Approved Gasket Applications - Petroleum Products

Service	Gasket Grade
Biodiesel	O
Crude Oil - Sour	T
Diesel Oil	T
Fuel Oil	T
Gasoline, Leaded	T
Gasoline, Unleaded*	(O)
Hydraulic Oil	T
JP-3, JP-4 and JP-5	T/O
JP-6, 100°F (38°C) Maximum Temp.	O
Kerosene	T
Lube Oil, to 150°F (66°C)	T
Motor Oil	T
Natural Gas**	T
Tar and Tar Oil	T
Transmission Fluid - Type A	O
Turbo Oil #15 Diester Lubricant	O

Unless otherwise noted, all gasket listings are based upon 100°F (38°C) maximum temperature service conditions. For services not listed, contact an Anvil Representative for recommendation. *Contact an Anvil Representative for service evaluation. **Extreme caution and care is required when installing Gruklok couplings on a natural gas system. Must be located in a well ventilated area.

Gasket Grade Index & Recommendation

Chemical Services

Chemical Composition	Gasket Grade
Acetic Acid 50%	E/EP
Acetic Acid Glacial	L/E/EP
Acetone	E/EP
Acethlene	E/EP/T
Alkalis	T/E/EP
Alums	E/EP/T/O
Aluminum Chloride	E/EP/T
Aluminum Fluoride	E/EP/T/O
Aluminum Hydroxide	E/EP/O
Aluminum Nitrate	E/EP/T
Aluminum Salts	E/EP
Ammonia Gas, Cold	E/EP
Ammonia Liquid	E/EP
Ammonium Chloride	T/E/EP
Ammonium Fluoride	E/EP
Ammonium Hydroxide	E/EP
Ammonium Nitrate	T/E/EP
Amyl Acetate	E/EP
Amyl Alcohol	E/EP
Aniline	E/EP
Animal Fats	T
Argon-Gas	L
Arsenic Acid, to 75%	T/E/EP/O
Barium Carbonate	E/EP/T
Barium Chloride	E/EP/T
Barium Hydroxide	E/EP/T
Barium Nitrate	E/EP/O
Barium Sulphide	E/EP/T
Beet Sugar Liquors	T
Benzene	O
Benzene Sulfonic (Aromatic Acid)	(E/EP)
Benzoic Acid	O
Benzyl Alcohol	E/EP
Benzyl Chloride	E/EP
Biodeisel	O
Black Sulphate Liquor	T
Bleach, 5% Active Cl2	E/EP/O
Borax	E/EP/O
Boric Acid	E/EP/T
Bromine	O
Butyl Alcohol	E/EP/T
Butyl Stearate	E/EP
Butylene	T/O
Calcium Bisulfate	T/O
Calcium Bisulphide	T/O
Calcium Bisulphite	T/O
Calcium Carbonate	E/EP/T
Calcium Chloride	E/EP/T

Chemical Services

Chemical Composition	Gasket Grade
Calcium Hydroxide (Lime)	E/EP/T
Calcium Sulfate	E/EP/T
Calcium Sulfide	E/EP/T
Caliche Liquors	E/EP/T
Cane Sugar Liquors	T
Carbitol	E/EP/T
Carbon Dioxide, Dry	E/EP/T
Carbon Dioxide, Wet	E/EP/T
Carbon Monoxide	E/EP
Carbon Tetrachloride	O
Castor Oil	T
Caustic Potash	E/EP
Caustic Soda	E/EP
Cellosolve	E/EP
Chlorine Dry	(O)
Chlorinate Solvents	(O)
Chlorobenzene	O
Chlorobenzene Chloride	O
Chlorobromomethane	O
Chloroform	O
Chrome Alum	E/T
Chrome Plating Solutions	O
Chromic Acid, to 50%	O
Citric Acid	E/EP/T
Coconut Oil	T
Cod Liver Oil	T
Coke Oven Gas	T/O
Copper Carbonate	E/EP/T
Copper Chloride	E/EP/T
Copper Cyanide	E/EP/T
Copper Sulphate	E/EP/T
Corn Oil	T
Cotton Seed Oil	T
Cresole, Cresylic Acid	T/O
Creosote, Coal Tar	(T/O)
Creosote, Wood	T/O
Cupric Chloride	E/EP/T
Cupric Fluoride	E/EP/T
Cupric Sulphate	E/EP/T
Cychohexanol	O
Diacetone Alcohol	E/EP
Dichlorobenzene	O
Dichloroethylene	O
Diocetyl Phthalate	(E/EP)
Epson-Salt	E/EP/T
Ethane	E/EP
Ethanolamine	E/EP
Ethyl Acetate	(E/EP)

Chemical Services

Chemical Composition	Gasket Grade
Ethyl Alcohol	E/EP/T
Ethyl-Chloride	E/EP/T
Ethyl Ether	(T)
Ethylene Chloride	E/EP
Ethylene Chlorohydrin	E/EP
Ethylene Diamine	E/EP/T
Ethylene Dichloride (Dichloroethane)	O
Ethylene Glycol	E/EP/T
Ethylene Oxide	(E/EP)
Ferric Chloride, to 35%	E/EP/T
Ferric Nitrate	E/EP/T
Ferric Sulphate	E/EP/T
Ferrous Chloride	E/EP/T
Fish Oils	T
Fluoroboric Acid	E/EP
Fluorosilicic Acid	E/EP
Fly-Ash	E/EP
Formaldehyde	E/EP/T
Formamide	E/EP/T
Formic Acid	E/EP/O
Freon 11, 130°F (54°C) Max.	T
Freon 12, 113, 114, 115, 130°F (54°C) Max.	T
Fructose	T
Furfuryl Alcohol	(E/EP)
Glucose	E/EP/T
Glue	T
Glycerin	E/EP/T
Glycerol	E/EP/T
Glycol	E/EP/T
Heptane	T
Hexaldehyde	E/EP
Hexane	T
Hexylene Glycol	T
Hydrochloric Acid, to 36%, 75°F (24°C)-Max.	E/EP
Hydrochloric Acid, to 36%, 158°F (70°C)-Max.	(O)
Hydrofluoric Acid, to 75%, 158°F (70°C)-Max.	(O)
Hydrofluosilicic Acid	T/E/EP
Hydrogen Peroxide, to 50%	E/EP/T/O
Hydrogen Peroxide, to 90%	(L/O)
Hydroquinone	T/O
Iodine, Wet	E/EP
Isoamyl Alcohol	E/EP
Isooctane	T
Isobutyl Alcohol	E/EP
Isopropyl Alcohol	E/EP
Lacquer	(O)
Lacquer Solvent	(O)
Lactic Acid	T

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Building connections that last™

Gasket Grade Index & Recommendation (Cont.)

Chemical Services		Chemical Services		Chemical Services	
Chemical Composition	Gasket Grade	Chemical Composition	Gasket Grade	Chemical Composition	Gasket Grade
Lard Oil	T	Phosphoric Acid, to 75% & 70°F (21°C)-Max.	E/EP/T	Sodium Nitrate	E/EP/T
Latex (1% Styrene & Butadiene)	O	Phosphoric Acid, to 85% & 150°F (66°C) Max.	O	Sodium Peroxide	E/EP
Lead Acetate	E/EP/T	Photographic Solutions	T	Sodium Phosphate	E/EP/T
Linseed Oil	T	Potassium Bromide	E/EP/T	Sodium Silicate	E/EP/T
Lithium Bromide	T/O	Potassium Carbonate	E/EP/T	Sodium Sulphide	E/EP/T
Magnesium Chloride	E/EP/T	Potassium Chloride	E/EP/T	Sodium Sulphite Solution, to 20%	E/EP/T
Magnesium Hydroxide	E/EP/T	Plating Solutions (gold, brass cadmium, copper, lead, silver, tin, zinc)	E/EP	Sodium Thiosulphate, "Hypo"	E/EP/T
Magnesium Nitrate	E/EP	Potassium Chromate	T	Soybean Oil	T
Magnesium Sulphate	E/EP/T	Potassium Cyanide	E/EP/T	Stannous Chloride, to 15%	E/EP/T/O
Malonyl Nitrile	E/EP/T	Potassium Ferricyanide	E/EP/T	Starch	E/EP/T
Mercuric Chloride	E/EP/T	Potassium Ferrocyanide	E/EP/T	Stearic Acid	T
Mercuric Cyanide	E/EP/T	Potassium Hydroxide	T	Styrene	O
Mercury	E/EP/T	Potassium Iodide	E/EP/T	Sucrose Solutions	T
Methyl Acetate	(E/EP)	Potassium Nitrate	E/EP/T	Sulphur	E/EP
Methyl Alcohol, Methanol	E/EP/T	Potassium Permanganate, saturated, to 25%	E/EP	Sulphuric Acid, to 25%, 150°F (66°C)-Max.	E/EP
Methyl Cellosolve (Ether)	E/EP	Potassium Sulphate	E/EP/T	Sulphuric Acid, 25-50%, 200°F (93°C) Max.	O
Methyl Chloride	(O)	Propanol	E/EP	Sulphuric Acid, 50-95%, 150°F (66°C)-Max.	O
Methyl Ethyl Ketone	(E/EP)	Propyl Alcohol	E/EP/T	Sulphuric Acid, Fuming	(O)
Methyl Formate	E/EP	Propylene Glycol	E/EP/T	Sulphuric Acid, Oleum	(O)
Methyl Isobutyl Carbinol	E/EP/T	Pydraul 312C	O	Sulphurous Acid	(O)
Methyl Isobutyl Ketone	(E/EP)	Pyroguard "C" & "D"	T	Tetrachloroethylene	O
Mineral Oils	T	Pyroguard 55	E/EP	Toluene	O
Naphtha, 160°F (71°C)-Max.	O	Pyrrrole	E/EP	Tributyl Phosphate	(E/EP)
Naphthalene 176°F	O	Salicylic Acid	E/EP/T	Trichloroethylene, 200°F (93°C)-Max	O
Nickel Chloride	E/EP/T	Silver Cyanide	E/EP	Triethanolamine	E/EP/T
Nickel Nitrate	E/EP	Silver Nitrate	E/EP	Trisodium Phosphate	(E/EP/T)
Nickel Plating Solution 125°F (52°C)-Max.	E/EP	Skydrol, 200°F (93°C)-Max.	L	Turpentine 158°F (70°C)-Max.	T/O
Nitric Acid, to 10%, 75°F (24°C)-Max.	E/EP	Skydrol 500 Phosphate Ester	(L/E/EP)	Urea	E/EP/T
Nitric Acid, 10-50%, 75°F (24°C)-Max.	O	Soda Ash, -Sodium Carbonate	E/EP/T	Vegetable Oils	T
Nitric Acid, 50-86%, 75°F (24°C)-Max.	(O)	Sodium Bicarbonate	E/EP/T	Vinegar	T
Nitric Acid, Red Fuming	(O)	Sodium Bisulphate	E/EP/T	Vinyl Acetate	(E/EP)
Nitro Benzene	(O)	Sodium Bisulphite (black liquor)	E/EP/T	White Liquor	E/EP
Nitrous Oxide	E/EP	Sodium Bromide	E/EP/T	Xylene (Xylol)-158°F (70°C)-Max.	O
Octyl Alcohol	T	Sodium Chlorate	E/EP/T	Zinc Sulphate	E/EP/T
Olive Oil	T	Sodium Chloride	E/EP/T		
Oxalic Acid	E/EP	Sodium Cyanide	E/EP/T		
Ozone	E/EP	Sodium Hydroxide, to 50%	E/EP		
Phenol (Carbolic acid) 300°F (149°C)-Max.	O	Sodium Hypochlorite, to 20%	E/EP		
Phenylhydrazine	(O)	Sodium Metaphosphate	E/EP/T		
Phosphate Ester	E/EP				

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