

FIBERBOND® Fiberglass Piping Systems

Gasket Selection

GASKETS: In systems hydrotesting above 225psig (15.5bar), gaskets with better sealing properties, such as Garlock's 6800 "Stress Saver" gasket (www.garlock.com), CTG's "ET Energizer" gasket (www.ctgasket.com) or Asahi's "Low Torque" gasket (www.asahi-america.com), are recommended for sizes 2" (50NB) and larger. O-ring gaskets may also be used, but they do require a special o-ring groove to be machined in one face (and only one face) of the mating pair of flanges. O-ring gaskets have no takeout. Shore "A" hardness values are typically between 55 and 75. A typical material is Buna-N (NBR). For higher temperatures and resistance to certain acids and solvents, Viton® is also available. Viton® is a fluoroelastomer manufactured by DuPont Dow.

In systems hydrotesting between 150psig (10.3bar) and 225psig (15.5bar), either full-face 1/8" thick flat rubber gaskets (neoprene, red rubber, etc.) or gaskets with better sealing properties may be used in sizes 2" (50NB) and larger.

In systems hydrotesting only up to 150psig (10.3bar), full-face 1/8" thick rubber gaskets are recommended. Shore "A" hardness values can range from 60 to 80, although values down to 50 may be suitable as well as higher values.

For pipe sizes smaller than 2" (50NB), full-face 1/8" thick rubber gaskets may be used even at hydrotest pressures up to 435 psig (30 bar).

These gasket recommendations do not take into account the required corrosion resistance of the systems. Make sure that gasket materials are suitable for the intended services. CR (neoprene) is normally good for water and seawater and has excellent weathering resistance. SBR (red rubber) is normally good for water, seawater, alcohol, glycol, and weak acids. NBR (Buna-N) is normally good for water, seawater, dilute acids, and aliphatic hydrocarbons (propane, butane, petroleum oil, mineral oil, grease, diesel fuel). EPDM (ethylene-propylene-diene rubber) is a good choice for hot water service, many solvents and many acid services.

Phone +1 (225) 752-2705	ITT EXELIS	
Toll Free (U.S. Only) (800) 752-7473	Specialty Plastics, Inc. 15915 Perkins Road P.O. Box 83277 (70884-3277) Baton Rouge, LA 70810 U.S.A.	ISO 9001 CERTIFIED
Fax +1 (225) 752-2757	www.fiberbond.com	

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Notes on Flanges and Bolting

FLANGES: All flanges are flat face and should be bolted to flat face flanges. FIBERBOND® flanges can be bolted to RF flanges, however, care should be taken when torqueing these flanges. Over-torqueing can cause cracking in the flange. The flange thickness will differ from ANSI B16.5 150#. The outside diameter and bolt pattern will match 150#. Other bolt patterns, such as 300# and BS4504 PN10 & PN16, can be provided. The flange will still be limited to its standard pressure and temperature rating. Reducing flanges are also available.

NUTS, BOLTS, & WASHERS: There are no special requirements for bolting materials except that ANSI B18.22.1 Type A Narrow "SAE" series washers must be used. ANSI B18.22.1 Type A Wide "USS" washers will not fit on FRP flanges.

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