

Seals And Gasket Materials Information

FKM Sealing Element

Operating temperature:

0°F to 284°F (-18°C to 140°)

Resistant to thermal spikes to 356°F (thermal spikes are temperature increases above maximum defined operating temperature for a duration of 24 hours or less).

FKM, is a fluoroelastomer or synthetic fluorinated rubber, specialty purpose elastomer.

FKM sealing elements are white in color, and possess excellent resistance to chemicals, higher temperatures, aging, ozone, sunlight, weathering, environmental influences, oils, and petroleum-based additives.

FKM's resistance to aggressive chemicals and higher operating temperatures makes it ideal for seals and gaskets in industrial process applications.

All sealing elements are installed using an H-1 food grade silicone oil lubricant registered with NSF, USDA and approved for use under FDA 21 CFR.

Refer to product line application guides or chemical compatibility matrix for general information, or call Viega® Tech Services at 1-877-843-4262.

HNBR Sealing Element

Operating temperature:

-40°F to 180°F (-40°C to 66°C)

[sliding scale range]

HNBR, or Hydrinatet butadiene-acrylic rubber, is a specialty purpose compound used where resistance to petroleum-based additives are required.

HNBR sealing elements are yellow in color, and possess excellent physical strength and retention properties after long-term exposure to heat, oil, and chemicals.

HNBR sealing elements are used for applications of natural, propane, mixed, and manufactured gases.

HNBR's unique properties have resulted in wide adoption in automotive, industrial, and assorted high performance applications.

Product line application guides and chemical compatibility matrix are not all inclusive.

EPDM Sealing Element

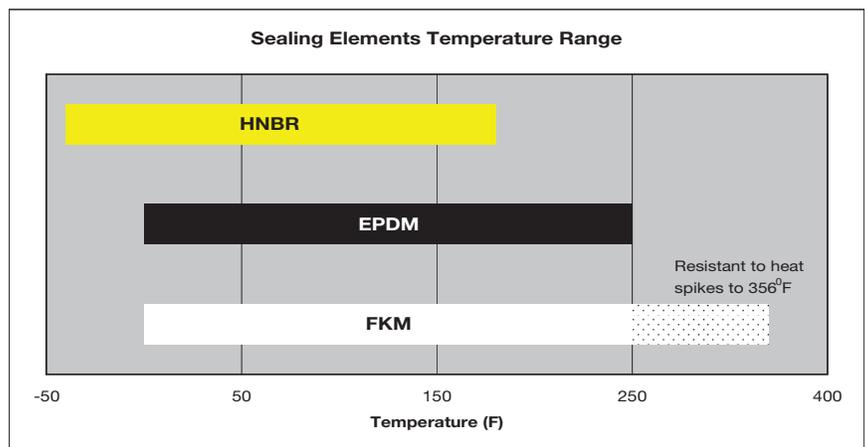
Operating temperature:

0°F to 250°F (-18°C to 120°C)

EPDM, or ethylene-propylene-diene rubber, is a synthetically manufactured and peroxidically cured all-purpose elastomer.

EPDM sealing elements are black in color and possess excellent resistance to aging, ozone, sunlight, weathering, environmental influences, alkalis and most alkaline solutions along with chemicals used in a broad range of applications, including ketones.

Viega Press Systems are manufactured with a high quality EPDM sealing elements standard, installed at the factory. EPDM has particularly good resistance to hot water, making it ideal for seals and gaskets.



Exclusive Grip and Separator Ring

The grip ring is made of 420 (1.4021) stainless steel. The grip ring ensures the XL® and XLC® fittings create a positive cold press mechanical joint. The PBT (Polybutylene Terephthalate) separator ring ensures that sealing element and grip ring perform at maximum capacity by providing a positive physical separation.

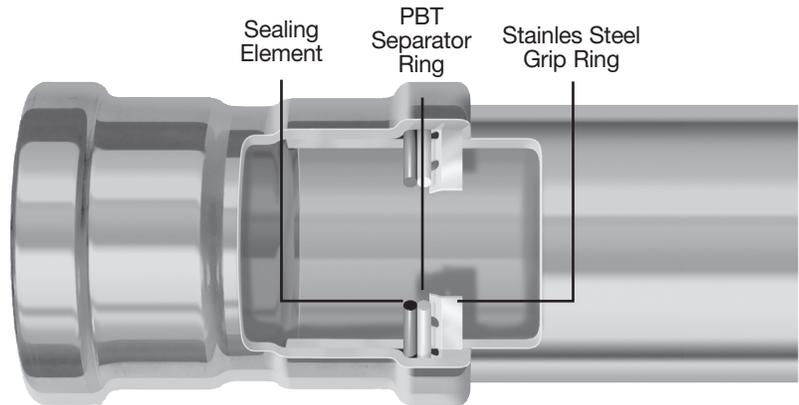
Viega Flange Gasket

Viega Flange gaskets are an asbestos-free gasket material composed of aramide fibers, inorganic fillers and other asbestos substitutes which are resistant to high temperatures.

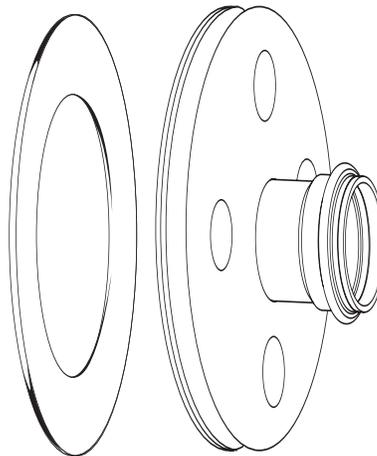
These are firmly bonded to high grade elastomers under elevated pressure and temperature. The gaskets do not contain any color pigments.

The material exhibits high tensile strength, stress as well as shearing resistance. Other characteristic properties of the material are excellent temperature resistance, stress resistance under high operating pressure and ease of handling.

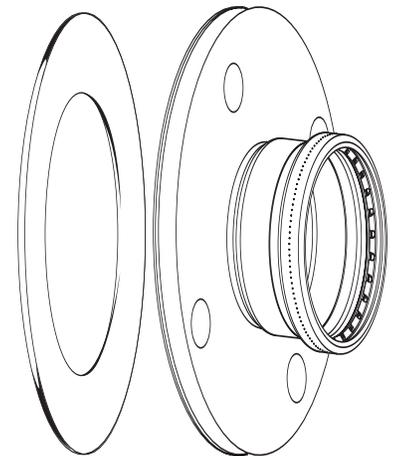
The gasket material has a non-stick top and bottom layer with a high coefficient of friction. This aids in dismantling. Additional surface treatment is not needed in most cases. Please review your specific product line for specific details.



1/2" - 2"



2 1/2" - 4"



Viega products are designed to be installed by licensed and trained plumbing and mechanical professionals who are familiar with our products' proper use and installation. Installation by non-professionals may void Viega LLC's warranty.

This document subject to updates. For the most current Viega technical literature please visit www.viega.us.
Click Services -> Click Electronic Literature Downloads -> Select Product Line -> Select Desired Document

Viega LLC, 100 N. Broadway, 6th Floor • Wichita, KS 67202 • Ph: 800-976-9819 • Fax: 316-425-7618