STAINLESS

# TechData

PRODUCT SPECIFICATION SHEET

Viega

STAINLESS ProPress. SYSTEM

## Technical Data 480

# Seals And Gasket Materials Information

### EPDM Sealing Element

Operating temperature:
0°F to 250°F (-18°C to 120°C)

Viega Press Systems press fittings are manufactured with a high quality EPDM sealing element installed at the factory.

This sealing element is used mainly in the applications of potable water, hydronic heating, low-pressure steam, fire sprinkler, and compressed air installations. EPDM, or ethylene-propylene-dienemonomer, is gloss black in color.

The EPDM sealing element is a synthetically manufactured and peroxidically cross-linked general purpose elastomer with a wide range of applications.

It possesses excellent resistance to aging, ozone, sunlight, weathering, environmental influences, alkalis and most alkaline solutions and chemicals used in a broad range of applications.

The EPDM sealing element has particularly good resistance to hot water, making it ideal for seals and gaskets in heating systems, fittings, and household appliances (e.g. washing machines, pumps, dishwashers).

### FKM Sealing Element

Operating temperature:
0°F to 320°F (-18°C to 160°)

FKM is well known for its excellent resistance to petroleum products and solvents as well as excellent high temperature performance.

The FKM sealing element is a specialty purpose elastomer typically installed where higher temperatures and pressures are required.

FKM or Fluoroelastomer is flat black in color. It possesses excellent resistance to aging, ozone, sunlight, weathering, environmental influences, oils, and petroleum-based additives.

It's excellent resistance to high temperatures and petroleum based additives makes it ideal for seals and gaskets in solar, district heating, low pressure steam, and compressed air system fittings.

**All sealing elements are inserted into the fitting using an#1 food grade lubricant registered with NSF, the USDA and approved for use under FDA 21 CFR.**

### HNBR Sealing Element

This sealing element is used mainly for applications of natural, propane, mixed, and manufactured gases in the vapor state (not in the liquid state).

It is commonly used in fuel oil heating systems. HNBR, or

Hydrogenated Nitrile Butadiene Rubber, is yellow in color.

Operating temperature:
-40°F to 180°F (-40°C to 66°C)

HNBR is widely known for its physical strength and retention of properties after long-term exposure to heat, oil, and chemicals.

The unique properties attributed to HNBR have resulted in wide adoption of HNBR in automotive, industrial, and assorted high performance applications (i.e. Engine seals, grommets, and gaskets; Fuel system seals and hoses; Transmission system bonded piston seals; Oil field packers, and rotary shaft seals).

With its excellent performance for the most demanding of applications

HNBR is the ideal choice for applications needing excellent physical properties, as well as oil, heat, and/or chemical resistance.



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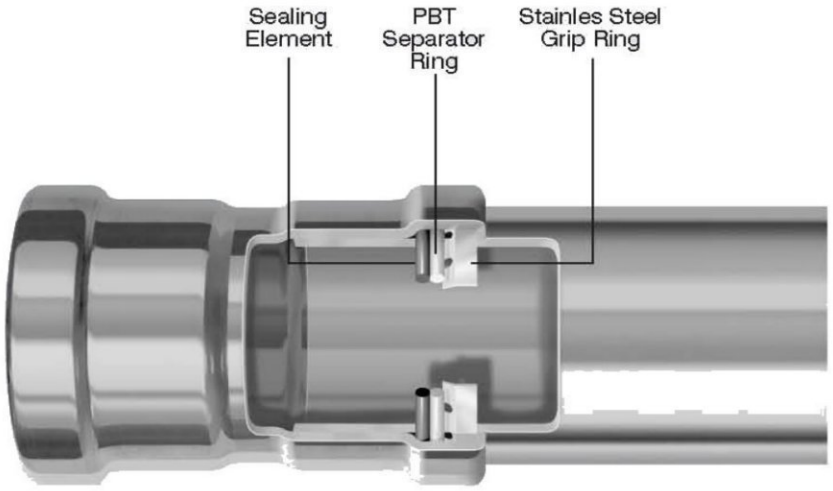
# Seals And Gasket Materials Information

### Viega 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. For specific applications, please refer to the chemical compatibility matrix located in Technical Bulletin 450, or call Viega at 1-877-VIEGA-NA.

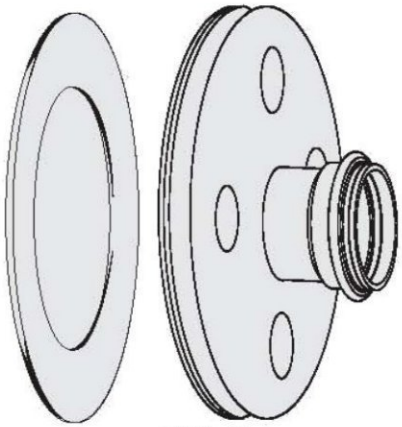



### Viega Flange Gasket

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.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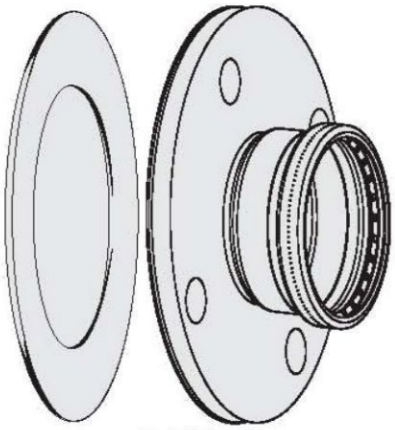
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