PROPRESS

# TechData
## PRODUCT SPECIFICATION SHEET

Viega

ProPress SYSTEM

# Approved Applications

| Fluids | System Operating Conditions | Standard Seals Factory Installed | | Specialty Seals Field Installed |
|---|---|---|---|---|
| | | ProPress w/EPDM | ProPressG w/HNBR | FKM |
| Hot and Cold Potable Water | 32˚F - 250˚F, Max. 200 PSI | YES | NO | NO |
| Potable Water System Flushing | Compliant with major plumbing codes | YES | NO | NO |
| Chilled Water w/corrosion inhibitors | 0˚F - 250˚F, Max. 200 PSI<br>Ethylene Glycol - 50% max. concentration<br>Propylene Glycol - 50% max. concentration | YES | NO | YES |
| Hydronic Heating | 0˚F - 250˚F, Max. 200 PSI<br>Ethylene Glycol - 50% max. concentration<br>Propylene Glycol - 50% max. concentration | YES | NO | YES |
| Low Pressure Steam | Max. 15 PSI | NO | NO | YES |
| Rainwater/Greywater | 32˚F - 250˚F, Max. 200 PSI | YES | YES | YES |
| Fire Sprinkler | 32˚F - 250˚F, Max. 175 PSI | YES | NO | NO |
| Heating Fuel Oil | -40˚F - 180˚F Ambient, Max. 125 PSI | NO | YES | NO |
| Diesel Fuel | Compliant with NFPA30 and 30A | NO | YES | NO |
| Process Piping | | | | |
| Propylene Glycol | 0˚F - 250˚F, Max. 200 PSI<br>100% max. concentration | YES | NO | YES |
| Ethylene Glycol | 0˚F - 250˚F, Max. 200 PSI<br>100% max. concentration | YES | NO | YES |
| Butylene Glycol | 0˚F - 250˚F, Max. 200 PSI<br>100% max. concentration | YES | NO | YES |
| Pure Grain Alcohol | | NO | NO | NO |
| Liquid Nitrogen | | NO | NO | NO |



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# Approved Applications

| Gases | System Operating Conditions | Standard Seals Factory Installed | | Specialty Seals Field Installed |
|---|---|---|---|---|
| | | ProPress w/EPDM | ProPressG w/HNBR | FKM |
| Compressed Air w/less than 25 mg/$m^3$ oil content | 0˚F - 160˚F Ambient, Max. 200 PSI | YES | YES | YES |
| Compressed Air w/more than 25 mg/$m^3$ oil content | 0˚F - 160˚F Ambient, Max. 200 PSI | NO | YES | YES |
| Carbon Dioxide $CO^2$ dry | 0˚F - 250˚F Ambient, Max. 140 PSI | YES | NO | NO |
| Nitrogen $N^2$ | 0˚F - 250˚F Ambient, Max. 140 PSI | YES | NO | NO |
| Argon | 0˚F - 250˚F Ambient, Max. 140 PSI | YES | NO | NO |
| Corgon | 0˚F - 250˚F Ambient, Max. 140 PSI | YES | NO | NO |
| Argonmac - K (welding gas) | 0˚F - 250˚F Ambient, Max. 140 PSI | YES | NO | NO |
| Vacuum | Max. 29.2 inches of Mercury | YES | NO | YES |
| Natural Gas | -40˚F - 180˚F Ambient Max. 125 PSI | NO | YES | NO |
| Liquid Propane Gas | -40˚F - 180˚F Ambient Max. 125 PSI | NO | YES | NO |
| Mixed Fuel Gases | -40˚F - 180˚F Ambient Max. 125 PSI | NO | YES | NO |
| Manufactured Fuel Gases | -40˚F - 180˚F Ambient Max. 125 PSI | NO | YES | NO |
| Liquid Butane Gas | -40˚F - 180˚F Ambient Max. 125 PSI | NO | YES | NO |
| Oxygen 02 (non medical) | 0˚F - 160˚F Ambient Max. 160 PSI | YES | YES | NO |
| Notes: FKM sealing elements not compatible with XL-C fittings. | | | | |
| 1. All systems are recommended to be clearly labeled wijth the fluid or gas being conveyed. For further information please see the Viega tcchnical bulletin TB-PIPELABELING. | | | | |
| 2. Consult the Viega Technical Support Department for information on applications not listed and applications outside the temperature and pressure ranges listed above. | | | | |


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# Sealing Element Description

**EPDM Sealing Element**
ProPress® / ProPress XL® 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.

Definition: EPDM
Ethylene-propylene-diene-monomer
unvulcanized gloss black in color

Maximum Pressure: 200 PSI
Operating temperature: 0°F to 250°F
(or higher, for brief periods)

The EPDM sealing element is a synthetically manufactured and peroxidically cross-linked general purpose unvulcanized rubber 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).

The EPDM sealing element is suitable for food contact applications and is recommended for drinking water applications. It is not resistant against hydrocarbon solvent solutions, related oils, chlorinated hydrocarbons, turpentine, and gasoline.

**FKM Sealing Element**
The EPDM sealing element installed at the factory can be removed from the ProPress® / ProPress XL® press fittings in the field and re-placed with the appropriate size FKM sealing element.

Definition: FKM
Fluoroelastomer
flat black in color

Maximum Pressure: 200 PSI
Operating temperature: 0°F to 320°F
(or higher, for brief periods)

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 rubber-sealing element typically installed where higher temperatures and pressures are required.

It possesses excellent resistance to aging, ozone, sunlight, weathering, environmental influences, oils, and petroleum-based additives. Its 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.

The FKM sealing element is not suitable for food contact applications and cannot be installed in drinking water applications, Natural Gas, LP Gas, Mixed Gases, or Fuel oil systems.

It is not resistant against polar solvents, amines, anhydrous ammonia, SKYDROL, hydrazine, and hot acids.

**HNBR Sealing Element**
ProPressG® press fittings are manufactured with a high quality HNBR sealing element installed at the factory. 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.

Definition: HNBR
Hydrogenated Nitrile Butadiene Rubber
yellow in color

Maximum Pressure: 125 PSI
Ambient Operating temperature:
-40°F to 180°F

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 performance-demanding applications (i.e. Engine seals, grommets, and gaskets; Fuel system seals and hoses; Transmission system bonded piston seals; Chevron 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. The HNBR sealing element is not suitable for food contact applications and cannot be installed in drinking water applications.

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