

Approved Applications

Types of Service	System Operating Conditions			ProPress	ProPressG
	Comments	Pressure	Temperature	EPDM	HNBR
Fluids/Water					
Hot and Cold Potable Water		200 PSI	32°F-250°F	√	
Rainwater/Gray Water		200 PSI	Note 3	√	
Fire Sprinkler	Listed with UL and FM	175 PSI	Note 3	√	
Chilled Water	Ethylene Glycol / Propylene Glycol	200 PSI	Note 3	√	
Hydronic Heating	Ethylene Glycol / Propylene Glycol	200 PSI	Note 3	√	
Cooling Water	Up to 50% Ethylene Glycol or Propylene Glycol solution	200 PSI	Note 3	√	
Low-Pressure Steam		Up to 15 PSI	248°F	√	
Ethanol	Pure Grain Alcohol	200 PSI	Note 3	√	
Fuel, Oil and Lubricant					
Heating Fuel Oil		125 PSI	Note 3		√
Diesel Fuel		125 PSI	Note 3		√
Propane	Compliant with CSA LC4	125 PSI	-40°F-180°F		√
Natural Gas	Compliant with CSA LC4	125 PSI	-40°F-180°F		√
Butane	Compliant with CSA LC4	125 PSI	-40°F-180°F		√
Kerosene		Note 3	68°F		√
Lube Oil	Petroleum Based	200 PSI	Note 3		√
Gases					
Compressed Air	Less than 25mg/m ³ oil content	200 PSI	Note 3	√	√
Compressed Air	More than 25mg/m ³ oil content	200 PSI	Note 3		√
Oxygen - O ₂ (nonmedical)	Keep oil and fat free / non-liquid O ₂	140 PSI	Up to 140°F	√	√
Nitrogen - N ₂		200 PSI	Note 3	√	√
Carbon Dioxide - CO ₂		200 PSI	Note 3	√	√
Argon	Welding Use	200 PSI	Ambient	√	√
Hydrogen - H ₂		125 PSI	0°F-250°F	√	√
Vacuum		29.2 in Hg	Note 3	√	√
1. All systems are recommended to be clearly labeled with the fluid or gas being conveyed. For further information please consult Viega Technical Services.					
2. All Viega systems must be used with the manufacturer's recommended sealing element. Contact your local Viega representative or Viega Technical Services for application temperature, pressure and concentration limits.					
3. System pressure and temperature ranges depend on sealing element.					

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, gloss black in color

Maximum Pressure: 200 PSI

Operating temperature: 0°F to 250°F

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).

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

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.

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 is subject to updates. For the most current Viega technical literature please visit www.viega.us.

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