

Viega Commonly Approved Applications

Viega ProPress and MegaPress systems are approved for over 2,500 applications. For information on additional applications to those listed below, please contact techsupport@viega.us.

Metals Systems																
Media¹	System Operating Conditions			Size, Product Line, Material, and Sealing Element²												
				CTS						IPS						
				ProPress			ProPress Stainless			MegaPress Stainless			MegaPress		MegaPressG	
				Copper			316			304	316		Carbon Steel			
	Comments	Max Pressure (psig)	Temperature Range (°F)	EPDM	FKM³	HNBR³	EPDM	FKM³	HNBR³	FKM	EPDM	FKM	EPDM	FKM	HNBR	
Water/Liquids																
Hot and Cold Potable Water	Test pressure 600 psi	300 ProPress Copper	See note ⁴	✓			✓				✓					
Rainwater / Graywater				✓	✓		✓	✓		✓	✓	✓				
Chilled Water	≤50% Ethylene / Propylene glycol			✓	✓		✓	✓		✓	✓	✓	✓	✓		
Hydronic Heating Water⁸	≤50% Ethylene / Propylene glycol			✓	✓		✓	✓		✓	✓	✓	✓	✓		
Reverse Osmosis Water	<1 MΩ	200 ProPress Stainless and all MegaPress	32° to 250°				✓	✓		✓	✓	✓				
Treated Water	Fully desalinated, deionized, demineralized, distilled (open system)						✓	✓		✓	✓	✓				
Paraffin Wax			Max 100°					✓		✓		✓				
Methyl Ethyl Ketone							✓				✓					
Isopropyl Alcohol		200	Ambient⁶				✓	✓		✓	✓	✓	✓	✓		
Nitric Acid	Concentration ≤10%						✓	✓		✓	✓	✓				
Phosphoric Acid	Concentration ≤25%						✓	✓			✓	✓				
Fire Sprinkler	NFPA 13, 13D, 13R						✓	✓		✓	✓	✓				
Steam	Residential	5	Max 227°	✓⁵	✓⁵		✓⁵	✓⁵		✓⁵	✓⁵	✓⁵	✓⁵	✓⁵		
	Low-pressure	15	Max 250°		✓⁵			✓⁵		✓⁵		✓⁵		✓⁵		
Fuels/Oils/Lubricants																
Ethanol	Pure grain alcohol	200	Ambient⁶	✓			✓				✓					
Mineral Oil			Max 150°					✓		✓		✓		✓		✓
Lube Oil	Petroleum based					✓		✓	✓	✓		✓		✓		✓
Diesel Exhaust Fluid (DEF)¹¹							✓	✓		✓	✓	✓				
Biodiesel	ASTM D6751	140	Max 150°					✓				✓		✓		
Propane		125	-40° to 180°													✓¹⁰
Butane																✓¹⁰
Natural Gas	Primarily methane															✓¹⁰
Heating Fuel Oil						✓		✓	✓	✓		✓		✓		✓¹¹
Diesel Fuel		125	Max 100°			✓		✓	✓	✓		✓		✓		✓¹¹
Kerosene								✓		✓		✓		✓		
Gear Oil	Lubricant		See note ⁴					✓		✓		✓		✓		✓
Automatic Transmission Fluid								✓		✓		✓		✓		✓
Hydraulic Oil								✓		✓		✓		✓		✓⁷
Engine Oil								✓		✓		✓		✓		✓⁷, 11
Engine Coolant							✓	✓		✓	✓	✓	✓	✓		
Waste Oil	Including used cooking oil							✓		✓		✓		✓		✓⁷, 11
Gases																
Compressed Air	Oil Concentration ≤25 mg/m³	200	Max 140°	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓⁵	✓⁵	✓⁵	
	Oil Concentration >25 mg/m³				✓	✓			✓	✓		✓		✓⁵	✓⁵	
Nitrogen - N₂				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Carbon Dioxide - CO₂	Dry			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Carbon Monoxide - CO				✓	✓	✓										
Argon - Ar				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Ammonia	Anhydrous	140	Max 120°	✓			✓				✓					
	Ammonia environment⁹			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Oxygen - O₂	Non-medical	140	Max 140°	✓			✓	✓			✓		✓			
Hydrogen - H₂	Keep free of oil and grease	125		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Acetylene	Test pressure 350 psi	20	Ambient⁶				✓	✓		✓	✓	✓	✓	✓	✓	
Vacuum	Minimum absolute pressure Maximum differential pressure	750µm Hg 29.2" Hg	Max 160°	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Special Media																
Methanol		200	75°				✓				✓					
Latex Paint			32° to 250°				✓	✓			✓	✓				
Urea Solution	Concentration ≤40%	140	100°				✓				✓					
Caustic Soda	Concentration ≤50%		140°				✓				✓					
Acetone	Liquid	70	-14° to 104°	✓			✓				✓					

Plastics Systems

Media ¹	System Operating Conditions		Product Line
	Comments	Temperature / Pressure Ratings	PureFlow PEX/Tubing, Barrier PEX ¹² , PureFlow Press, PureFlow Crimp, ManaBloc
Potable Water / Rainwater / Greywater		160 psi @ 73°F	✓
		100 psi @ 180°F	
Chilled Water / Hydronic Heating Water ¹²	≤50% Ethylene / Propylene glycol	160 psi @ 73°F	✓
		100 psi @ 180°F	
		80 psi @ 200°F ¹²	

¹ It is recommended that all systems be clearly labeled with the media being conveyed. For further information please consult Viega Technical Services 866-838-8714.

² All Viega systems must be used with the manufacturer's recommended sealing element. Contact your local Viega representative or Viega Technical Services for specific application temperature, pressure, and concentration limits.

³ For applications requiring ProPress or ProPress Stainless with FKM or HNBR sealing elements, follow proper procedures to remove the factory-installed EPDM sealing element and replace with a Viega FKM or HNBR sealing element.

⁴ Standard temperature ranges for each material are listed here but are limited to application specific ranges in the table.

⁴a EPDM 0°F to 250°F.

⁴b FKM 14°F to 284°F with temperature spikes (24 hours) up to 356°F.

⁴c HNBR -40°F to 180°F.

⁵ System must contain adequate condensate drainage.

⁶ Ambient temperatures should be taken as normal operating conditions for the applications not to exceed sealing element limitations.

⁷ HNBR sealing elements are not recommended for silicone based oils.

⁸ It is a Viega engineering best practice that for heating applications using EPDM, where the media will be running continuously, non-stop at 200°F or above, to consider switching to an FKM sealing element.

⁹ All copper or copper alloy components that are exposed in ammonia environments require lacquer or paint coating.

¹⁰ Compliant with CSA 6.32 / ANSI LC-4.

¹¹ MegaPressG fittings with HNBR sealing elements are compliant with standard UL 180 for combustible liquid applications.

¹² Tubing with oxygen barrier should be used for systems with ferrous components.



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



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



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