Viega Approved Applications

Metals Systems

Media[1]	System Operating Conditions			Product Line, Material, and Sealing Element[2]								
				ProPress			MegaPress Stainless	ProPress and MegaPress Stainless		MegaPress		MegaPressG
				Copper			304	316		Carbon Steel		
	Comments	Max Pressure (psig)	Temperature Range (°F)	EPDM	FKM	HNBR	FKM	EPDM	FKM	EPDM	FKM	HNBR
Water/Liquids												
Hot and Cold Potable Water	Test pressure 600 psi	300 ProPress Copper	See note [3]	✓				✓				
Rainwater / Graywater				✓	✓		✓	✓	✓			
Chilled Water	≤50% Ethylene / Propylene glycol			✓	✓		✓	✓	✓	✓	✓	
Hydronic Heating Water[9]	≤50% Ethylene / Propylene glycol	250 ProPress Valves		✓	✓		✓	✓	✓	✓	✓	
Treated Water	Fully desalinated, deionized, demineralized, distilled (open system)		32° to 250°				✓	✓	✓			
Reverse Osmosis Water	<1 MΩ	200 ProPress Stainless and all MegaPress					✓	✓	✓			
Paraffin Wax		200	Max 100°				✓		✓			
Methyl Ethyl Ketone								✓				
Isopropyl Alcohol			Ambient[5]				✓	✓	✓	✓	✓	
Nitric Acid	Concentration ≤10%						✓	✓	✓			
Phosphoric Acid	Concentration ≤25%							✓	✓			
Fire Sprinkler	NFPA 13, 13D, 13R	175					✓	✓	✓	✓	✓	
Steam	Low-pressure	15	Max 250°		✓[4]		✓[4]		✓[4]		✓[4]	
	Residential	5	Max 227°	✓[4]	✓[4]		✓[4]	✓[4]	✓[4]	✓[4]	✓[4]	
Fuels/Oils/Lubricants												
Ethanol	Pure grain alcohol	200	Ambient[5]	✓				✓				
Mineral Oil							✓		✓		✓	✓
Lube Oil	Petroleum based		Max 150°			✓	✓		✓		✓	✓
Diesel Exhaust Fluid (DEF)			See note [3] (10° minimum)				✓	✓	✓			
Biodiesel	ASTM D6751	140	Max 150°						✓		✓	
Propane		125	-40° to 180°									✓[6]
Butane												✓[6]
Natural Gas	Primarily methane											✓[6]
Heating Fuel Oil			Max 100°			✓	✓		✓		✓	✓[10]
Diesel Fuel						✓	✓		✓		✓	✓[10]
Kerosene			Max 68°				✓		✓		✓	
Gear Oil	Lubricant		See note [3]				✓		✓		✓	✓
Automatic Transmission Fluid							✓		✓		✓	✓
Hydraulic Oil							✓		✓		✓	✓[8]
Engine Oil							✓		✓		✓	✓[8, 10]
Engine Coolant							✓	✓	✓	✓	✓	
Waste Oil							✓		✓		✓	✓[8, 10]

[1] It is recommended that all systems be clearly labeled with the media 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 specific application temperature, pressure, and concentration limits.
[3] System pressure and temperature ranges depend on sealing element. Any ranges listed above will be overruled by the sealing element limits here:
[3a] EPDM temperature ranges are typically 0°F to 250°F.
[3b] FKM temperature ranges are typically 14°F to 284°F with temperature spikes (24 hours) up to 356°F.
[3c] HNBR temperature ranges are typically -40°F to 180°F.
[4] System must contain adequate condensate drainage.
[5] Ambient temperatures should be taken as normal operating conditions for the applications not to exceed sealing element limitations.
[6] Compliant with CSA 6.32 / ANSI LC-4.
[7] All copper or copper alloy components that are exposed in ammonia environments require lacquer or paint coating.
[8] HNBR sealing elements are not recommended for silicone based oils.
[9] 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.
[10] MegaPressG fittings with HNBR sealing elements are compliant with standard UL 180 for combustible liquid applications.
[11] Tubing with oxygen barrier should be used for systems with ferrous components.

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

Media[1]	System Operating Conditions			Product Line, Material, and Sealing Element[2]								
				ProPress			MegaPress Stainless	ProPress and MegaPress Stainless		MegaPress		MegaPressG
				Copper			304	316		Carbon Steel		
	Comments	Max Pressure (psig)	Temperature Range (°F)	EPDM ●	FKM ○	HNBR ●	FKM ○	EPDM ●	FKM ○	EPDM ●	FKM ○	HNBR ●
Gases												
Compressed Air	Oil Concentration ≤25 mg/m³	200	Max 140°	✓	✓	✓	✓	✓	✓	✓[4]	✓[4]	✓[4]
	Oil Concentration >25 mg/m³				✓	✓	✓		✓		✓[4]	✓[4]
Nitrogen - N_2				✓	✓	✓	✓	✓	✓	✓	✓	✓
Carbon Dioxide - CO_2	Dry			✓	✓	✓	✓	✓	✓	✓	✓	✓
Carbon Monoxide - CO				✓	✓	✓						
Argon - Ar				✓	✓	✓	✓	✓	✓	✓	✓	✓
Ammonia	Anhydrous		Max 120°					✓				
	Ammonia environment[7]			✓	✓	✓	✓	✓	✓	✓	✓	✓
Oxygen - O_2	Non-medical Keep free of oil and grease	140	Max 140°	✓				✓		✓		
Hydrogen - H_2		125		✓	✓	✓	✓	✓	✓	✓	✓	✓
Acetylene	Test pressure 350 psi	20	Ambient[5]				✓	✓	✓	✓	✓	✓
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°	✓				✓				

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Plastics Systems

Media[1]	System Operating Conditions		Product Line
	Comments	Temperature / Pressure Ratings	PureFlow PEX, Barrier PEX[11]
Potable Water / Rainwater / Greywater		160 psi @ 73°F	✓
		100 psi @ 180°F	
Chilled Water / Hydronic Heating Water[11]	≤50% Ethylene / Propylene glycol	160 psi @ 73°F	✓
		100 psi @ 180°F	
		80 psi @ 200°F[11]	

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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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