Viega Approved Applications

Metals Systems

Media[1]	System Operating Conditions			Product Line, Material, and Sealing Element[2]								
				ProPress			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 250 ProPress Valves 200 ProPress Stainless and all MegaPress	See note [3]	✓				✓				
Rainwater / Graywater				✓	✓		✓	✓	✓			
Chilled Water	≤50% Ethylene / Propylene glycol			✓	✓		✓	✓	✓	✓	✓	
Hydronic Heating Water	≤50% Ethylene / Propylene glycol			✓	✓		✓	✓	✓	✓	✓	
Treated Water	Fully desalinated, deionized, demineralized, distilled (open system)		32° to 250°				✓	✓	✓			
Reverse Osmosis Water	<1 MΩ						✓	✓	✓			
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°			✓	✓		✓		✓	✓
Biodiesel	ASTM D6751	140							✓		✓	
Propane		125	-40° to 180°									✓[6]
Butane												✓[6]
Natural Gas	Primarily methane											✓[6]
Heating Fuel Oil			Max 100°			✓	✓		✓		✓	✓
Diesel Fuel						✓	✓		✓		✓	✓
Kerosene			Max 68°				✓		✓		✓	
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°					✓				
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°	✓				✓				

[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 (24hr) 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] Tubing with oxygen barrier should be used for systems with ferrous components.

Plastics Systems

Media[1]	System Operating Conditions		Product Line
	Comments	Temperature / Pressure Ratings	PureFlow PEX, FostaPEX, Barrier PEX[7]
Potable Water / Rainwater / Greywater		160 psi @ 73°F	✓
		100 psi @ 180°F	
Chilled Water / Hydronic Heating Water[7]	≤50% Ethylene / Propylene glycol	160 psi @ 73°F	✓
		100 psi @ 180°F	
		80 psi @ 200°F[7]	
Fire Sprinkler	NFPA 13D (Only PureFlow PEX - Black)	130 psi @ 120°F	✓

[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 (24hr) up to 356°F.
[3c] HNBR temperature ranges are typically -40°F to 180°F.
[4] 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.
[5] Compliant with CSA 6.32 / ANSI LC-4.
[7] Tubing with oxygen barrier should be used for systems with ferrous components.

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.**

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

Viega LLC
585 Interlocken Blvd.
Broomfield, CO 80021

Phone (800) 976-9819
www.viega.us