

Viega Approved Applications



Metals Systems

Media ¹	System Operating Conditions			Product Line, Material, and Sealing Element ²									
				Copper			ProPress and MegaPress Stainless			MegaPress		MegaPressG	
	Comments	Max Pressure (psig)	Temperature Range (°F)	Copper			304	316		Carbon Steel			
				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	≤50% Ethylene / Propylene glycol	250 ProPress Valves		✓	✓		✓	✓	✓	✓	✓		
Treated Water	Fully desalinated, deionized, demineralized, distilled (open system)												
Reverse Osmosis Water	<1 MΩ	200 ProPress Stainless and all MegaPress	32° to 250°				✓	✓	✓				
Paraffin Wax		200	Max 100°				✓		✓				
Methyl Ethyl Ketone									✓				
Isopropyl Alcohol									✓	✓	✓	✓	✓
Nitric Acid	Concentration ≤10%								✓	✓	✓		
Phosphoric Acid	Concentration ≤25%								✓	✓	✓		
Fire Sprinkler	NFPA 13, 13D, 13R	175		✓			✓	✓	✓	✓	✓		
Steam	Low-pressure Residential	15 5	Max 250° Max 227°	✓ ⁴	✓ ⁴		✓ ⁴	✓ ⁴	✓ ⁴	✓ ⁴	✓ ⁴	✓ ⁴	
Fuels/Oils/Lubricants													
Ethanol	Pure grain alcohol	200	Ambient ⁵	✓				✓					
Mineral Oil									✓		✓		✓
Lube Oil	Petroleum based	140	Max 150°			✓			✓			✓	
Biodiesel	ASTM D6751								✓			✓	
Propane													✓ ⁶
Butane		125	-40° to 180°									✓ ⁶	
Natural Gas	Primarily methane												✓ ⁶
Heating Fuel Oil								✓	✓		✓		✓
Diesel Fuel						✓	✓		✓		✓	✓	
Kerosene						✓	✓		✓		✓	✓	
Gases													
Compressed Air	Oil Concentration ≤25 mg/m ³ Oil Concentration >25 mg/m ³	200	Max 140°	✓	✓	✓	✓	✓	✓	✓ ⁴	✓ ⁴	✓ ⁴	
Nitrogen - N ₂				✓	✓	✓	✓	✓	✓	✓	✓	✓ ⁴	✓ ⁴
Carbon Dioxide - CO ₂	Dry			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Carbon Monoxide - CO				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Argon - Ar				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ammonia	Anhydrous Ammonia environment ⁷		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 (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 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, Barrier PEX ⁸
Potable Water / Rainwater / Greywater		160 psi @ 73°F	✓
		100 psi @ 180°F	
Chilled Water / Hydronic Heating Water ⁸	≤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	✓

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⁸ 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.**



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AP-PP-MP-PF 0821 Application Chart (EN)

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