

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	200	Max 140°	✓	✓	✓	✓	✓	✓	✓	✓ ⁴	✓ ⁴	✓ ⁴	
	Oil Concentration >25 mg/m ³					✓	✓	✓	✓	✓	✓	✓	✓ ⁴	✓ ⁴
Nitrogen - N ₂						✓	✓	✓	✓	✓	✓	✓	✓	✓
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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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

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