

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	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)	250 ProPress Valves	32° to 250°				✓	✓	✓				
Reverse Osmosis Water	<1 MΩ	200 ProPress Stainless and all MegaPress					✓	✓	✓				
Paraffin Wax		200		Max 100°				✓		✓			
Methyl Ethyl Ketone				Ambient ⁵					✓				
Isopropyl Alcohol							✓	✓	✓	✓	✓		
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			Max 150°				✓		✓		✓	✓	
Lube Oil	Petroleum based					✓		✓		✓		✓	✓
Biodiesel	ASTM D6751	140							✓		✓		
Propane		125	-40° to 180°									✓ ⁶	
Butane													✓ ⁶
Natural Gas	Primarily methane												✓ ⁶
Heating Fuel Oil			Max 100°			✓	✓		✓		✓	✓	
Diesel Fuel			Max 68°			✓	✓		✓		✓	✓	
Kerosene						✓	✓	✓	✓	✓	✓		
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	140	Max 140°	✓				✓		✓			
Hydrogen - H ₂	Keep free of oil and grease			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	✓

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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.**



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



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AP-PP-MP-PF 0620 Application Chart (EN)

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