

# Viega Commonly Approved Applications

Viega ProPress and MegaPress systems are approved for over 2,500 applications. For information on additional applications to those listed below, please contact [techsupport@viega.us](mailto:techsupport@viega.us).


## Metals Systems


Media <sup>1</sup>	System Operating Conditions			Size, Product Line, Material, and Sealing Element <sup>2</sup>													
				CTS						IPS							
				ProPress			ProPress Stainless			MegaPress Stainless			MegaPress		MegaPressG		
				Comments	Max Pressure (psig)	Temperature Range (°F)	Copper			316			304	316		Carbon Steel	
EPDM	FKM <sup>3</sup>	HNBR <sup>3</sup>	EPDM				FKM <sup>3</sup>	HNBR <sup>3</sup>	FKM	EPDM	FKM	EPDM	FKM				
<b>Water/Liquids</b>																	
Hot and Cold Potable Water	Test pressure 600 psi	300 ProPress Copper and ProPress Valve Lines for Models 2971 and 2973	See note <sup>4</sup>	✓			✓				✓						
Rainwater / Graywater				✓	✓		✓	✓		✓	✓	✓					
Chilled Water	≤50% Ethylene / Propylene glycol			✓	✓		✓	✓		✓	✓	✓	✓	✓	✓		
Hydronic Heating Water <sup>8</sup>	≤50% Ethylene / Propylene glycol			✓	✓		✓	✓		✓	✓	✓	✓	✓	✓		
Reverse Osmosis Water	<1 MΩ	250 All Other ProPress Valves	32° to 250°				✓	✓		✓	✓	✓					
Treated Water	Fully desalinated, deionized, demineralized, distilled (open system)			200 ProPress Stainless and all MegaPress	✓	✓		✓	✓		✓	✓	✓				
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	Ambient <sup>6</sup>	✓			✓		✓		✓		✓		
Residential Steam	Low-pressure	5	Max 227°	✓ <sup>5</sup>		✓ <sup>5</sup>		✓ <sup>5</sup>	✓ <sup>5</sup>		✓ <sup>5</sup>	✓ <sup>5</sup>	✓ <sup>5</sup>	✓ <sup>5</sup>	✓ <sup>5</sup>		
Commercial Steam		15	Max 250°	✓ <sup>5</sup>		✓ <sup>5</sup>		✓ <sup>5</sup>	✓ <sup>5</sup>		✓ <sup>5</sup>	✓ <sup>5</sup>	✓ <sup>5</sup>	✓ <sup>5</sup>	✓ <sup>5</sup>		
<b>Fuels/Oils/Lubricants</b>																	
Ethanol	Pure grain alcohol	200	Ambient <sup>6</sup>	✓			✓			✓		✓					
Mineral Oil				✓			✓		✓		✓		✓		✓	✓	
Lube Oil	Petroleum based			Max 150°	✓		✓	✓		✓		✓		✓		✓	
Diesel Exhaust Fluid (DEF) <sup>11</sup>				See note <sup>4</sup> (10° minimum)	✓		✓	✓		✓		✓		✓		✓	
Biodiesel	ASTM D6751	140	Max 150°				✓			✓		✓		✓			
Propane		125	-40° to 180°												✓ <sup>10</sup>		
Butane																✓ <sup>10</sup>	
Natural Gas	Primarily methane															✓ <sup>10</sup>	
Heating Fuel Oil				Max 100°	✓		✓	✓		✓		✓		✓		✓ <sup>11</sup>	
Diesel Fuel				Max 68°	✓		✓	✓		✓		✓		✓		✓ <sup>11</sup>	
Kerosene					✓		✓	✓		✓		✓		✓		✓	
Gear Oil	Lubricant	See note <sup>4</sup>					✓		✓		✓		✓		✓		
Automatic Transmission Fluid			✓			✓		✓		✓		✓		✓	✓		
Hydraulic Oil			✓			✓		✓		✓		✓		✓	✓ <sup>7</sup>		
Engine Oil			✓			✓		✓		✓		✓		✓	✓ <sup>7,11</sup>		
Engine Coolant			✓			✓		✓		✓		✓		✓	✓		
Waste Oil	Including used cooking oil		✓			✓		✓		✓		✓		✓	✓ <sup>7,11</sup>		
<b>Gases</b>																	
Compressed Air	Oil Concentration ≤25 mg/m <sup>3</sup> Oil Concentration >25 mg/m <sup>3</sup>	200	Max 140°	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ <sup>5</sup>	✓ <sup>5</sup>	✓ <sup>5</sup>	
Nitrogen - N <sub>2</sub>				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Carbon Dioxide - CO <sub>2</sub>	Dry			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Carbon Monoxide - CO				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Argon - Ar		140	Max 120°	✓			✓			✓		✓		✓	✓		
Ammonia	Anhydrous Ammonia environment <sup>9</sup>			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Oxygen - O <sub>2</sub>	Non-medical Keep free of oil and grease	140	Max 140°	✓			✓	✓		✓		✓		✓			
Hydrogen - H <sub>2</sub>		125		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Acetylene	Test pressure 350 psi	20	Ambient <sup>6</sup>				✓	✓		✓	✓	✓	✓	✓	✓		
Vacuum	Minimum absolute pressure Maximum differential pressure	750µm Hg 29.2" Hg	Max 160°	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
<b>Special Media</b>																	
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°	✓			✓			✓		✓					


## Plastics Systems

Media <sup>1</sup>	System Operating Conditions		Product Line
	Comments	Temperature / Pressure Ratings	PureFlow PEX/Tubing, Barrier PEX <sup>12</sup> , PureFlow Press, PureFlow Crimp, ManaBloc
Potable Water / Rainwater / Greywater		160 psi @ 73°F 100 psi @ 180°F	✓
Chilled Water / Hydronic Heating Water <sup>12</sup>	≤50% Ethylene / Propylene glycol	160 psi @ 73°F 100 psi @ 180°F 80 psi @ 200°F <sup>12</sup>	✓

<sup>1</sup> It is recommended that all systems be clearly labeled with the media being conveyed. For further information please consult Viega Technical Services 866-838-8714.  
<sup>2</sup> 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.  
<sup>3</sup> For applications requiring ProPress or ProPress Stainless with FKM or HNBR sealing elements, follow proper procedures to remove the factory-installed EPDM sealing element and replace with a Viega FKM or HNBR sealing element.  
<sup>4</sup> Standard temperature ranges for each material are listed here but are limited to application specific ranges in the table.  
<sup>5a</sup> EPDM 0°F to 250°F.  
<sup>5b</sup> FKM 14°F to 284°F with temperature spikes (24 hours) up to 356°F.  
<sup>5c</sup> HNBR -40°F to 180°F.  
<sup>6</sup> System must contain adequate condensate drainage.  
<sup>7</sup> Ambient temperatures should be taken as normal operating conditions for the applications not to exceed sealing element limitations.  
<sup>8</sup> HNBR sealing elements are not recommended for silicone based oils.  
<sup>9</sup> 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.  
<sup>10</sup> All copper or copper alloy components that are exposed in ammonia environments require lacquer or paint coating.  
<sup>11</sup> Compliant with CSA 6.32 / ANSI LC-4.  
<sup>12</sup> MegaPressG fittings with HNBR sealing elements are compliant with standard UL 180 for combustible liquid applications.  
<sup>13</sup> Tubing with oxygen barrier should be used for systems with ferrous components.

 This document is subject to updates. For the most current Viega technical literature please visit [www.viega.us](http://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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