

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.

Metals Systems

Media ¹	System Operating Conditions			Product Line, Material, and Sealing Element ²								
				ProPress			MegaPress Stainless	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 and ProPress Valve Lines for Models 2971 and 2973	See note ³	✓				✓				
Rainwater / Graywater				✓	✓		✓	✓	✓			
Chilled Water	≤50% Ethylene / Propylene glycol			✓	✓		✓	✓	✓	✓	✓	
Hydronic Heating Water ⁹	≤50% Ethylene / Propylene glycol			✓	✓		✓	✓	✓	✓	✓	
Treated Water	Fully desalinated, deionized, demineralized, distilled (open system)							✓	✓	✓		
Reverse Osmosis Water	<1 MΩ	250 All Other ProPress Valves	32° to 250°				✓	✓	✓			
		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 Residential	15	Max 250°		✓ ⁴	✓ ⁴	✓ ⁴	✓ ⁴	✓ ⁴	✓ ⁴		
		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 ¹²	Petroleum based		See note ³ (10° minimum)			✓		✓	✓		✓	
Diesel Exhaust Fluid (DEF) ¹²			Max 150°						✓		✓	
Biodiesel ¹²	ASTM D6751		140								✓ ⁶	
Propane		125	-40° to 180°								✓ ⁶	
Butane											✓ ⁶	
Natural Gas	Primarily methane											✓ ⁶
Heating Fuel Oil ¹²				Max 100°		✓	✓		✓	✓	✓	✓ ¹⁰
Diesel Fuel ¹²				Max 68°		✓	✓		✓	✓	✓	✓ ¹⁰
Kerosene ¹²												
Gear Oil	Lubricant					✓	✓	✓	✓	✓		
Automatic Transmission Fluid						✓	✓	✓	✓	✓		
Hydraulic Oil		See note ³				✓	✓	✓	✓	✓	✓ ⁸	
Engine Oil							✓	✓	✓	✓	✓ ^{8,10}	
Engine Coolant							✓	✓	✓	✓	✓	
Waste Oil							✓	✓	✓	✓	✓ ^{8,10}	

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 HNBR sealing elements are not recommended for silicone based oils.
⁹ 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.
¹⁰ MegaPressG fittings with HNBR sealing elements are compliant with standard UL 180 for combustible liquid applications.
¹¹ Tubing with oxygen barrier should be used for systems with ferrous components.
¹² Not approved for use in Canada.

Media ¹	System Operating Conditions			Product Line, Material, and Sealing Element ²								
				ProPress			MegaPress Stainless	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
Gases												
Compressed Air	Oil Concentration ≤25 mg/m ³ Oil Concentration >25 mg/m ³	200	Max 140°	✓	✓	✓	✓	✓	✓	✓ ⁴	✓ 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°	✓				✓				

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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 HNBR sealing elements are not recommended for silicone based oils.

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Plastics Systems

Media ¹	System Operating Conditions		Product Line
	Comments	Temperature / Pressure Ratings	PureFlow PEX, Barrier PEX ¹¹
Potable Water / Rainwater / Greywater		160 psi @ 73°F	✓
		100 psi @ 180°F	
Chilled Water / Hydronic Heating Water ¹¹	≤50% Ethylene / Propylene glycol	160 psi @ 73°F	✓
		100 psi @ 180°F	
		80 psi @ 200°F ¹¹	

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