CONTINENTAL® PROGRESSING CAVITY ULTRAPUMP
A DIVISION OF KINETIFLO GROUP

Liquid Compatibility

These are the most used liquids along with the compatible materials recommended for the pump body, the rotor and the stator. If your liquid is not listed, please contact us for assistance.

Material key located on the last page.

Liquid Compatibility Chart for Continental Progressive Cavity Pumps

Liquid	Pump Body		Rotor		Stators				
Acetic Acid (cold dilute)		S		S*	B		Q	R	Y
Acetone	C	S	D	S	B				
Acid Mine Water	C			S			Q	R	Y
Alcohol, Ethyl (grain)	C		D				Q	R	Y
Alcohol, Methyl (wood)	C		D				Q	R	Y
Alum (paper mill)		S		S	B	F	Q	R	Y
Aluminum Hydroxide	C		D				Q	R	Y
Aluminum Sulphate		S		S	B	F	Q	R	Y
Ammonium Bicarbonate	C	S	D	S	B			R	
Ammonium Chloride		S		S*	B		Q	R	Y
Ammonium Phosphate	C	S	D	S	B		Q	R	Y
Ammonium Nitrate	C	S	D	S	B		Q	R	Y
Ammonium Sulphate	C	S		S*	B		Q	R	Y
Aromatic Hydrocarbons	C	S	D	S		F			
Asphalt	C	S	D	S		F			
Barium Chloride	C	S		S	B	F	Q	R	Y
Barium Hydroxide	C	S	D	S	B	F	Q	R	Y
Barium Nitrate	C	S	D	S			Q	R	Y
Barium Sulphate	C	S	D	S			Q	R	Y
Beer		S		S			Q	R	Y
Beer Wort		S		S	B	F	Q	R	Y
Beer Sugar Liquor		S		S	B	F	Q	R	Y
Benzene (coal tar product)	C		D	S		F			
Benzine (petroleum product)	C	S	D			F	Q		Y
Black Liquor	C	S	D	S		F	Q		Y
Boiler Feed Water	C		D				Q		Y

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Liquid Compatibility Chart for Continental Progressive Cavity Pumps									
Liquid	Pump Body		Rotor		Stators				
Bordeaux Mixture	C		D				Q	R	Y
Boric Acid		S		S		F	Q	R	Y
Brine, Calcium Chloride	C	S		S*	B	F	Q	R	Y
Brine, Sodium Chloride	C	S		S*	B	F	Q	R	Y
Calcium Chlorate	C	S	D	S		F			
Calcium Chloride	C	S	D	S	B	F	Q	R	Y
Calcium Hypochlorite	C	S		S	B	F			
Calgon (sodium hexametaphosphate)		S		S			Q	R	Y
Carbon Bisulfide	C	S	D	S		F			
Carbon Disulfide	C	S	D	S		F			
Carbonic Acid	C			S			Q	R	Y
Castor Oil	C	S	D	S		F	Q	R	Y
Caustic Potash (lye)	C	S	D	S			Q	R	Y
Caustic Soda (lye)	C	S	D	S	B		Q	R	Y
Caustic Zinc Chloride		S		S			Q	R	Y
China Wood or Tung Oil	C	S	D	S		F	Q		Y
-Drying Oil	C		D				Q		Y
-Vegetable Oils	C		D				Q		Y
Chlorinated Hydrocarbons									
-Chloroform		S		S		F			
-Dichloroethylene	C	S	D	S			Q		Y
-Methyl Chloride	C	S	D	S		F			
-Tri Chloroethylene		S		S		F			
Chromic Acid (diluted)		S		S		F			
Citric Acid		S		S	B	F	Q	R	Y
Clay Slip	C		D			F	Q	R	Y
Copper Nitrate		S		S			Q	R	Y
Copper Sulphate		S		S*		F	Q	R	Y
Copperas		S		S*			Q	R	Y
Corn Oil	C	S	D	S		F	Q		Y

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Liquid	Pump Body		Rotor		Stators				
Cotton Seed Oil	C	S		S		F	Q		Y
Creosote	C	S	D	S		F	Q		Y
Cyanide	C		D				Q	R	Y
Cyanide of Potassium	C		D		B	F	Q	R	Y
Diethylene Glycol (alcohol)	C	S	D	S		F	Q	R	Y
Distilled Water or Deionized	C	S		S			Q	R	Y
Distillery Wort	C	S	D	S			Q	R	Y
Epsom Salts	C	S	D	S	B	F	Q		Y
Ethyl Alcohol	C	S	D	S	B	F	Q		Y
Fatty Acids	C	S	D	S		F	Q		Y
Ferric Hydroxide		S		S	B		Q	R	Y
Ferrous Sulphate		S		S*			Q	R	Y
Formaldehyde		S		S		F	Q		Y
Formic Acid		S		S		F			
Fuel Oils	C	S	D	S		F	Q		Y
Furfural	C	S	D	S	B				
Fusel Oils	C		D				Q		Y
Gasoline	C		D				Q		Y
Glucose	C	S	D	S	B	F	Q	R	Y
Glue	C	S	D	S	B	F	Q	R	Y
Glycerin	C	S	D	S	B	F	Q	R	Y
Glycerol	C	S	D	S	B	F	Q	R	Y
Grain Alcohol	C		D				Q	R	Y
Hops	C	S	D	S			Q	R	Y
Hydrocyanic Acid		S		S	B	F			
Hydrogen Peroxide		S		S		F			
Hydrogen Sulfide		S		S	B	F			
Kerosene	C		D				Q		Y
Lard	C	S	D	S		F	Q		Y
Lime Water	C		D				Q	R	Y

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Liquid	Pump Body		Rotor		Stators				
Linseed Oil	C	S	D	S	B	F	Q		Y
Lubricating Oils	C		D				Q		Y
Lye (sodium hydroxide)	C	S	D	S	B	F	Q	R	Y
Magnesium Chloride	C	S	D	S	B	F	Q	R	Y
Magnesium Sulphate	C	S	D	S*	B	F	Q		Y
Mercury	C	S	D	S			Q	R	Y
Methanol	C	S	D	S	B		Q	R	Y
Methyl Chloride	C		D				Q	R	Y
Milk of Lime	C			S			Q	R	Y
Mine Water	C			S			Q	R	Y
Molasses	C		D	S	B	F	Q	R	Y
Naphtha	C		D				Q		Y
Nickel Chloride		S		S	B	F	Q	R	Y
Nickel Sulphate		S		S*	B	F	Q		Y
Oil - Paraffin Base	C		D				Q		Y
Oil - Vegetable	C		D				Q		Y
Paints - Water Base	C		D				Q	R	Y
Palmitic Acid	C		D			F	Q		Y
Phosphoric Acid		S		S		F			
Potassium Carbonate	C		D				Q	R	Y
Potassium Chloride	C		D		B	F	Q	R	Y
Potassium Nitrate	C		D		B	F	Q	R	Y
Potassium Phosphate	C		D				Q	R	Y
Potassium Sulphate	C		D		B	F	Q		Y
Salammoniac		S		S	B		Q	R	Y
Salt Brine (to 30%)	C	S		S			Q	R	Y
Sea Water	C			S			Q	R	Y
Sewage	C		D				Q	R	Y
Shellac	C		D				Q		Y
Soap Liquor (thin)	C	S	D	S	B	F	Q		Y

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Liquid Compatibility Chart for Continental Progressive Cavity Pumps

Liquid	Pump Body		Rotor		Stators				
Sodium Aluminate	C		D		B		Q	R	Y
Sodium Bicarbonate	C			S	B	F	Q	R	Y
Sodium Bisulfite		S		S	B		Q	R	Y
Sodium Carbonate	C			S	B	F	Q	R	Y
Sodium Chloride	C	S		S*	B	F	Q	R	Y
Sodium Hydroxide	C	S	D	S	B		Q	R	Y
Sodium Nitrate	C		D		B	F	Q		Y
Sodium Silicate	C		D		B	F	Q	R	Y
Sodium Sulfate		S		S	B	F	Q		Y
Soybean Oil	C		D			F	Q		Y
Starch	C	S	D	S	B		Q	R	Y
Steric Acid		S	D				Q		Y
Sugar	C		D				Q	R	Y
Tar	C		D				Q		Y
Tar & Ammonia in Water	C		D				Q		Y
Titanium Chloride		S		S		F			
Toluene (toluol)	C		D			F			
Trub Sludge	C		D				Q	R	Y
Turpentine	C		D			F	Q		Y
Varnish	C		D			F			
Vinegar		S		S*	B	F	Q		Y
Vitriol - Blue		S		S	B	F	Q		Y
Vitriol - Green		S		S			Q	R	Y
Waste Water	C		D				Q	R	Y
Whiskey	C	S	D	S			Q	R	Y
Wine		S		S	B		Q	R	Y
Wood Pulp	C		D				Q	R	Y
Yeast		S		S	B		Q	R	Y
Zinc Chloride		S		S*	B	F	Q	R	Y
Zinc Nitrate		S		S			Q	R	Y

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Zinc Sulfate		S		S*	B		Q	R	Y

Continental Part Description	Continental Letter Designation	Part Materials
Pump Body	C	Cast Iron, class 40# grey
	S	316 Stainless Steel (CF8M)
Rotor*	D	Chrome Plated Alloy Steel
	S	Chrome Plated Stainless Steel
Stator	Q	Buna Nitrile
	R	Natural Rubber
	B	EPDM
	F	Viton®
Internal Parts	CS	Carbon Steel
	S	Stainless Steel

Note:
* Non-Plated Rotor Needed
When 'D' rotors are used the drive shaft and connecting rod will be carbon steel (CS).
When 'S' rotors are used the drive shaft and connecting rod will be stainless steel (S).

Maximum allowable temperatures for Stators:
B (EPDM) 300°F F (Viton®) 400°F Q (Buna Nitrile) 200°F
R (Natural Rubber) 175°F Y (High Nitrile) 300°F

We offer an epoxy coating for an additional charge and can be applied to the suction housing and reducer. The epoxy seals the cast iron from the material being pumped.

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