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CRG020716



The information in this Chemical Resistance Guide is to be used only as a general guide for proper Drum Pump selection. No warranty is implied or is any guarantee provided. Corrosion rates may vary considerably due to concentration, temperature and the presence of abrasives. Impurities as well as other trace elements commonly found in industrial chemicals may also affect chemical resistance. When compatibility is inconclusive, field testing is highly recommended.

Always consult with a factory certified safety engineer if you have any questions regarding proper pump selection. All testing was conducted at 72° F (22° C) unless stated otherwise.

<ul> <li>R = Recommended</li> <li>M = Minor to moderate, should be field tested</li> <li>X = Not recommended</li> <li>- = No data</li> <li>(i) = Flammable or explosive</li> </ul>	WAF Expl pum grou spar Ope pum	RNING: Flamm osion Proof mole ping flammable nded and boni king, which cou rating Instructic p in accordance	able and/or cr otors, suitable r e and/or combu ded (with the u uld cause electuons for proper g e with federal a	ombustible liqu metallic pump 1 istible liquids. T use of ground v ric shock, fire c grounding and nd local safety i	uids are highligh ubes, discharge he container and wire kits) to preve r an explosion. C bonding procedu regulations.	ted in yellow. hose and noz I pump must k ent static disc Consult Standa ures. Always c	Only use zzles when be properly charge and ard Pump's operate the
CHEMICAL	POLYPROPYLENE HIGH TEMP (PHT) MAX 175°F (80°C)	POLYPROPYLENE MAX 130°F (55°C)	POLYPROPYLENE STAINLESS SHAFT MAX 130°F (55°C)	PVDF (KYNAR®) Max 175°F (80°C)	STAINLESS STEEL 316 MAX 175°F (80°C)	CPVC MAX 175°F (80°C)	ALUMINUM MAX 175°F (80°C)
Acetaldehyde	X	Х	Х	Х	R	Х	Х
Acetamide	R	R	R	R	R	-	Х
Acetate Solvents	×	Х	Х	Х	R	Х	-
Acetic Acid (10%–50%)	R	R	R	R	R	М	Х
Acetic Acid (80%)	R	R	R	R	R	М	Х
Acetic Acid (100%)	×	Х	Х	Х	R	Х	Х
Acetic Anhydride	×	Х	Х	Х	R	Х	Х
Acetone Ex	×	Х	Х	Х	R	Х	Х
Acetyl Chloride	×	Х	Х	Х	-	Х	Х
Acetylene (Ex	×	Х	Х	Х	R	Х	Х
Alcohols	×	Х	Х	Х	R	Х	Х
Aluminum Chloride	R	R	Х	R	Х	R	Х
Aluminum Fluoride	R	R	Х	R	Х	R	-
Aluminum Hydroxide	R	R	R	R	R	Х	-
Aluminum Nitrate (concentrated)	R	R	R	R	R	R	Х
Aluminum Potassium Sulfate	R	R	R	R	R	М	-
Aluminum Sulfate (concentrated)	R	R	R	R	R	R	Х
Amines	-	-	-	-	R	Х	-
Ammonia, Aqueous	R	R	R	R	R	Х	Х
Ammonia, (concentrated)	R	R	R	R	R	Х	Х
Ammonium Bifluoride	70°F R 21°C	70°F R 21°C	70°F R 21°C	R	R	R	-
Ammonium Carbonate	R	R	R	R	R	R	R
Ammonium Chloride	R	R	Х	R	Х	R	X
Ammonium Fluoride (10% – 25%)	R	R	Х	R	X	R	X
Ammonium Hydroxide	R	R	R	R	R	Х	Х
Ammonium Nitrate (concentrated)	R	R	R	R	R	R	Х
Ammonium Nitrite	70°F R 21°C	70°F R 21°C	-	-	-	-	-
Ammonium Oxalate	R	I R	I R	-	R	-	-

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Ammonium Persulfate

Ammonium Phosphate, Dibasic

Ammonium Phosphate, Tribasic

Ammonium Sulfate (concentrated)

Ammonium Phosphate, Monobasic

(Cont'd.)

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Ammonium Sulfide (10%)	R	R	R	R	R	-	Х
Ammonium Thiocyanate	-	-	-	R	-	-	-
Ammonium Thiosulfate	-	-	-	R	R	-	-
Amyl Acetate	Х	Х	Х	Х	R	Х	-
Amyl Chloride	Х	Х	Х	Х	R	Х	-
Aniline (concentrated)	Х	Х	Х	Х	R	Х	Х
Aniline Dyes	-	-	-	-	М	-	-
Aniline Hydrochloride	-	-	-	-	Х	Х	-
Anisole	-	-	-	-	R	-	-
Aqua Regia (80%)	Х	Х	Х	-	Х	Х	-
Arsenic Acid (10%)	R	R	R	R	R	R	Х
Barium Carbonate	R	R	R	R	R	R	-
Barium Chloride (25%)	R	R	Х	R	Х	R	Х
Barium Hydroxide (concentrated)	R	R	R	R	R	R	Х
Barium Nitrate	Х	Х	Х	Х	R	Х	-
Barium Sulfate	R	R	R	R	R	R	-
Barium Sulfide	R	R	R	R	R	R	-
Benzaldehyde (concentrated)	Х	Х	Х	Х	R	Х	R
Benzene (concentrated)	Х	Х	Х	Х	R	Х	Х
Benzene Sulfonic acid	-	-	-	75°F R 24°C	М	Х	-
Benzoic Acid (10%)	R	R	R	R	R	R	R
Bismuth Carbonate	R	R	-	R	-	-	-
Boric Acid (concentrated)	R	R	R	R	R	R	Х
Brine Acid	-	-	-	R	-	-	-
Bromic Acid (10%)	Х	Х	Х	Х	-	Х	-
Bromine Liquid (concentrated)	Х	Х	Х	Х	Х	Х	Х
Bromine Water	-	-	-	R	М	70°F R 21°C	-
Butane 🚯	Х	Х	Х	Х	R	Х	Х
Butyl Acetate	Х	Х	Х	Х	М	X	Х
Butyl Phenol (concentrated)	R	R	R	R	R	-	Х
Butylene 😥	Х	Х	Х	×	R	×	Х
Butyric Acid (concentrated)	R	R	R	R	R	Х	Х
Calcium Bisulfide	R	R	М	R	М	-	-
Calcium Bisulfite	R	R	М	R	М	R	-
Calcium Chlorate (10%)	R	R	R	R	R	-	Х
Calcium Chloride (concentrated)	R	R	R	R	R	R	X
Calcium Hydroxide	R	R	R	R	R	R	-
Calcium Hypochlorite (10%)	R	R	Х	R	Х	R	Х

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Calcium Nitrate (50%)	R	R	R	R	R	R	R
Calcium Sulfate	R	R	R	R	R	R	-
Calcium Sulfite	R	R	М	-	М	-	-
Carbon Disulfide	Х	Х	Х	Х	R	Х	-
Carbonic Acid	R	R	R	R	R	R	Х
Carbon Tetrachloride (concentrated)	Х	Х	Х	R	R	Х	Х
Cellosolve®	R	R	М	R	М	X	-
Cetyl Alcohol	Х	Х	Х	×	R	X	-
Chlorine Liquid (concentrated)	Х	Х	Х	R	Х	R	Х
Chloroacetic Acid (98%)	R	R	Х	R	Х	X	Х
Chlorobenzene	Х	Х	Х	X	R	×	-
Chlorobenzyl Chloride	-	-	-	125°F R 52°C	-	X	-
Chloroform (100%)	Х	Х	Х	R	R	X	Х
Chlorosulfonic Acid (concentrated)	Х	Х	Х	X	Х	X	Х
Chromic Acid (30%)	Х	Х	Х	R	Х	140°F R 60°C	Х
Chromic Acid (50%)	R	R	Х	R	Х	70°F R 21°C	Х
Citric Acid (50%)	R	R	R	R	R	R	X
Citric Oils	R	R	R	-	R	-	-
Copper Chloride	Х	Х	Х	Х	Х	X	Х
Copper Cyanide	R	R	R	R	R	R	-
Copper Nitrate (25%)	R	R	R	R	R	R	Х
Copper Sulfate (concentrated)	R	R	R	R	R	R	Х
Cresylic Acid	-	-	-	150°F R 66°C	R	Х	-
Cyclohexane	Х	Х	Х	Х	R	Х	-
	Х	Х	Х	X	М	Х	-
Cyclohexanone (concentrated)	Х	X	Х	X	Μ	Х	-
Diacetone Alcohol	Х	Х	Х	X	R	Х	-
Dichloro–Ethylene	Х	Х	Х	X	R	X	-
Diesel Fuels	X	X	X	X	R	X	R
Diethyl Ether (concentrated)	Х	X	X	X	R	X	-
Diisobutylene	X	X	X	X	M	X	-
Dimethyl Formamide	Х	Х	Х	X	R	Х	X
Dioctyl Phthalate	-	-	-	-	R	-	-
Epichiorohydrine	X	X	X	X	R	X	-
	X	X	X	X	К	X	-
	X	X	X	X X	R	X	X
Ethyl Oblazida	X	X	X	X	К	X	X
Ethyl Ethor	X	X	X	X	К	X	X
	X	X	X	X	К	× ×	-

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Ethyl Acetate	X	Х	Х	Х	R	Х	-
Ethyl Chloride	×	Х	Х	Х	R	×	-
Ethyl Ether	×	Х	Х	Х	R	Х	-
Ethylene Chloride	×	Х	Х	Х	R	Х	-
Ethylene Dichloride	X	Х	Х	Х	R	Х	-
Ethylene Glycol	R	R	R	R	R	М	R
Ethylene Oxide	X	Х	Х	Х	R	Х	-
Fatty Acids (100%)	R	R	R	R	R	R	Х
Ferric Chloride (50%)	R	R	Х	R	Х	R	Х
Ferric Nitrate	R	R	R	R	R	R	-
Ferric Sulfate (20%)	-	-	-	-	-	-	-
Ferrous Chloride (50%)	R	R	Х	R	Х	R	Х
Ferrous Sulfate (20%)	R	R	R	R	R	R	Х
Fluoboric Acid	R	R	М	140°F R 60°C	М	140°F R 60°C	-
Fluosilicic Acid	R	R	-	М	-	140°F R 60°C	-
Formaldehyde (40%)	×	Х	Х	Х	R	Х	-
Formic Acid (concentrated)	×	Х	Х	Х	R	Х	-
Furfural	Х	Х	Х	Х	R	Х	R
Gallic Acid (50%)	R	R	R	R	R	М	R
Glue P. V. A.	М	М	М	R	R	R	-
Glycerin	R	R	R	R	R	R	R
Glycolic Acid (37%)	R	R	R	R	R	R	Х
Glycolic Acid (70%)	R	R	Х	R	Х	R	Х
Glycols	R	R	R	R	R	R	R
Heptane (Ex	×	Х	Х	Х	R	X	-
Hexane (Ex	×	Х	Х	Х	R	Х	-
Hydrobromic Acid (10% – 48%)	X	Х	Х	Х	Х	Х	Х
Hydrochloric Acid (10% – 100%)	R	R	Х	R	Х	R	Х
Hydrofluoric Acid (40% – 70%)	R	R	Х	R	Х	Х	-
Hydrofluosilicic Acid (32%)	R	R	Х	R	Х	R	Х
Hydrogen Fluoride	R	R	R	-	R	-	-
Hydrogen Peroxide (3% – 30%)	R	R	R	R	R	70°F R 21°C	R
Hydrogen Peroxide (90%)	X	Х	Х	R	R	Х	R
Hydrogen Sulfide	X	Х	Х	Х	R	Х	-
Hypochlorous Acid	-	-	-	R	Х	R	-

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lodine	М	М	Х	150°F R 66°C	Х	Х	Х
Isopropyl Ether	Х	Х	Х	Х	R	Х	Х
Jet Fuel (JP3, JP4, JP5)	Х	Х	Х	Х	R	Х	Х
Lacquer Solvents	Х	Х	Х	Х	R	Х	Х
Lactic Acid (90%)	R	R	R	R	R	70°F R 21°C	Х
Lead Acetate (concentrated)	R	R	R	R	R	R	Х
Lead Sulfamate	R	R	-	-	-	-	-
Ligroin	Х	Х	Х	Х	R	Х	Х
Magnesium Carbonate	R	R	R	R	R	R	Х
Magnesium Chloride (concentrated)	R	R	Х	R	Х	R	Х
Magnesium Hydroxide	R	R	R	R	R	R	-
Magnesium Sulfate (concentrated)	R	R	R	R	R	R	R
Maleic Acid (concentrated)	R	R	R	R	R	R	R
Mercuric Chloride	R	R	Х	R	Х	R	-
Mercuric Cyanide (concentrated)	R	R	R	R	R	R	Х
Methyl Acetone	Х	Х	Х	Х	R	Х	Х
Methyl Chloride	Х	Х	Х	R	R	Х	-
Methyl Ethyl Ketone	Х	Х	Х	Х	R	Х	Х
Methyl Isobutyl Ketone	Х	Х	Х	Х	R	Х	Х
Methylene Chloride	Х	Х	Х	Х	R	Х	Х
Monoethanolamine (Ex)	Х	Х	Х	Х	R	Х	-
Muriatic Acid (10% – 100%)	R	R	Х	R	Х	R	Х
Naptha (Ex)	Х	Х	Х	Х	R	Х	-
Napthalene (Ex)	X	X	X	X	M	X	-
Nickel Chloride (20%)	R	R	Х	R	Х	R	Χ
Nickel Sulfate (10%)	R	R	R	Ř	R	R	X
Nitric Acid (10%)	R	R	R	R	R	R	X
Nitric Acid (30%)	X	X	X	R	R	140°F R 60°C	X
Nitric Acid, (concentrated)	X	X	X	R	R	X	X
Nitric Acid (red turning)	X	X	X	X	R	X	X
Nitrobenzene (concentrated)	X	X	X	X	R	X	ĸ
	X	X	X	R	R	M	ĸ
	X	X	X	R	K	X	X
Palmitic Acid	R NA	R NA		P	P	P	~
Parhilus Acid	IVI			K D	K	K D	
Perchloreethylene (concentrated)	×	×		R P		K V	X
	^	^	^	D D			^
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Phenol (90%)	Х	Х	Х	Х	R	Х	R
Phosphoric Acid (30%)	R	R	R	R	R	R	Х
Phosphoric Acid (50%)	R	R	R	R	R	R	Х
Phosphoric Acid (95%)	Х	Х	Х	R	R	R	Х
Plating Solutions, Chrome 40	R	R	R	R	R	R	-
Plating Solutions, Copper	R	R	R	R	R	R	-
Plating Solutions, Gold	R	R	R	-	R	-	-
Plating Solutions, Iron	R	R	R	R	R	R	-
Plating Solutions, Lead	R	R	-	R	-	R	-
Plating Solutions, Nickel	R	R	-	R	-	R	-
Plating Solutions, Silver	R	R	R	R	R	R	-
Plating Solutions, Tin	R	R	R	R	R	R	-
Plating Solutions, Zinc	R	R	R	R	R	R	-
Potassium Bicarbonate	R	R	М	R	М	R	-
Potassium Bromide (concentrated)	R	R	R	R	R	R	Х
Potassium Carbonate (concentrated)	R	R	Х	R	Х	R	X
Potassium Chlorate (50%)	R	R	R	R	R	R	R
Potassium Chloride (concentrated)	R	R	Х	R	Х	R	X
Potassium Chromate (40%)	R	R	R	R	R	R	R
Potassium Dichromate (40%)	R	R	R	R	R	R	X
Potassium Hydroxide (60%)	R	R	R	R	R	R	X
Potassium Nitrate (24%)	R	R	R	R	R	R	R
Potassium Permanganate (18%)	R	R	R	R	R	R	R
Potassium Sulfate (10%)	K	R	R	K	R	R	R N
	X	X	X	X	R	X	X
Silicone Oli	R	R	R	R	R	R	R V
Soon Solutions							
Sodium Acetate (10%)	B	R	R	R	B	R	×
Sodium Bicarbonate (10%)	B	B	B	B	B	B	B
Sodium Bisulfate	B	B	B	B	B	B	
Sodium Bisulfite	B	B	B	B	B	B	_
Sodium Borate		_	_	B	M	R	_
Sodium Bromide	R	R	R	R	R	120°F R 48°C	_
Sodium Carbonate (25%)	R	R	R	R	R	R	X
Sodium Chlorate (25%)	R	R	R	R	R	R	Х
Sodium Chloride (20%)	R	R	Х	R	X	R	X
L	I	1	1		1		

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Sodium Cyanide	R	R	R	R	R	R	-
Sodium Hydroxide (10%)	R	R	R	R	R	R	Х
Sodium Hydroxide (30%)	R	R	R	R	R	R	Х
Sodium Hydroxide (50%)	R	R	R	R	R	R	Х
Sodium Hypochlorite (20%)	Х	Х	Х	R	Х	R	Х
Sodium Metaphosphate	Х	Х	Х	-	R	-	-
Sodium Nitrate (45%)	R	R	R	R	R	R	R
Sodium Perborate	R	R	Х	-	Х	-	-
Sodium Phosphate (10%)	R	R	R	R	R	R	R
Sodium Silicate (20%)	R	R	R	R	R	R	Х
Sodium Sulfate (50%)	R	R	R	R	R	R	R
Sodium Sulfide (16%)	R	R	R	R	R	R	Х
Sodium Thiosulfate (40%)	R	R	R	R	R	R	R
Stannic Chloride	R	R	Х	R	Х	R	-
Stearic Acid (concentrated)	R	R	R	R	R	М	R
Sulfite Liquors (concentrated)	R	R	R	R	R	-	Х
Sulfur Chloride (10%)	Х	Х	Х	R	Х	М	Х
Sulfur Dioxide	Х	Х	Х	R	R	120°F R 48°C	-
Sulfuric Acid (40%)	R	R	Х	R	Х	R	Х
Sulfuric Acid (80%)	R	R	Х	R	Х	R	Х
Sulfuric Acid (98%)	Х	Х	Х	R	Х	R	Х
Sulfurous Acid (50%)	R	R	R	R	R	R	Х
Tannic Acid (50%)	R	R	R	R	R	R	Х
Tartaric Acid (concentrated)	R	R	R	R	R	R	Х
Tetrahydrofuran	Х	Х	Х	Х	R	Х	Х
Tetralin (concentrated)	Х	Х	Х	Х	R	-	R
Titanium Tetrachloride	-	-	-	150°F R 66°C	М	Х	-
Toluene	Х	Х	Х	Х	R	Х	Х
Transformer Oil	Х	Х	Х	Х	R	-	R
Trichloroacetic Acid (concentrated)	R	R	Х	R	Х	-	Х
Trichloroethane (concentrated)	Х	Х	Х	R	R	М	Х
Trichloroethylene (50%)	Х	Х	Х	R	R	Х	Х
Tricresyl Phosphate (concentrated)	R	R	R	R	R	Х	Х
Triethylamine 🛞	Х	Х	Х	X	R	Х	Х
Vinyl Chloride	Х	Х	Х	Х	R	Х	Х
Xylene (xylol)	Х	Х	Х	Х	R	Х	Х
Zinc Hydrosulfite	-	-	-	R	R	-	_

(Cont'd.)

# **TECHNICAL DATA**

**Standard Formulas** 

### PRESSURE AND HEAD

# **CONVERSION TABLE**

# PRESSURE IN POUNDS PER SQUARE INCH TO FEET OF HEAD

Pressure (lbs. per sq. in) :	<ul> <li>Head in feet x Specific Gravity</li> </ul>	Pounds	Ft. of	Pounds	Ft. of
	2.31	1		19	
	= Head in feet x Specific Gravity x .434	2	4.62	20	
Head in feet = Head in fe	et x Specific Gravity	3	6.93	25	57.7
Spec	cific Gravity	4		30	69.3
		5	11.6	35	80.8
TEMPERATURE		6	13.9	40	
(1 8 C °C) + 32	– °F	7		45	103.9
		8		50	115.5
555 (°E 22)	- %	9		55	127
.555 (1 - 52)	- 0	10		60	138.6
Degrade Kalvin 072.0	Degrees Contigrade	11		65	150.1
Degrees Keivin - 273.2	= Degrees Centigrade	12		70	161.7
		13		75	173.2
VELOCITY		14		80	184.8
(1.8 C °C) + 32	= °F	15		85	196.3
		16		90	207.9
.555 (°F - 32)	= °C	17		95	219.4
		18	41.6	100	230.9
Degrees Kelvin - 273.2	= Degrees Centigrade				

# **CONVERSION FACTORS**

### FLOW

Lbs of Water / Hr x .002 Gal / Min x 500 Lbs of Fluid / Hr	= =	Gal Min Lbs of Water / H
	-	Gariviiri
Specific Gravity Liters / Min x .264 x .002	=	Gal / Min (US)
GPM x 3.785	=	Liters / Min
Cu Meters / Hr x 4.4	=	Gal / Min (US)
Gal / Min x .227	=	Cu Meters / Hr
Kg of Water / Min x .264	=	Gal / Min (US)
Gal / Mln x 3.8	=	Kg of Water / Mi

### PRESSURE

Ft of Water x .433	=	PSI	
PSI x 2.31	=	Ft of Water	
Inches Hg x .491	=	PSI	
Inches Hg x 1.133	=	Ft of Water	
ATM x 14.7	=	PSI	
ATM x 33.9	=	Ft of Water	
Kg / Sq cm x 14.22	=	PSI	
Meters of Water x 1.42	=	PSI	
ATM x 760	=	mm Hg	
mm Hg x .039	=	Inches Hg	
Bar x 14.5	=	PSI	
Newton / Meter <sup>2</sup> x 1	=	Pascal	
PSI x 6.9	=	kPa (Kilopascal)	
kPax 145	=	PSI	

#### VOLUME

Lbs of Water x .119	=	Gal
Gal (Brit) x 1.2	=	Gal (US)
Gal x 128	=	Fluid Ounces
Cubic Ft x 7.48	=	Gal
Cubic In x .00433	=	Gal
Gal x 3.785	=	Liters
Liter x .264	=	Gal
Cubic Meters x 264.2	=	Gallons
Cubic Meter x 1000	=	Liter
Liters x 1000	=	Cubic Centimeters
Cubic Centimeters x .0338	=	Fluid Ounces
Fluic Ounces x 29.57	=	Cubic Centimeters

#### LENGTH

ENGTH		METRIC P	REFIXES
Mils x .001       =       Ir         Meters x 3.281       =       F         Centi. x .394       =       Ir         Millimeters x .0394       =       Ir         Microns x .00394       =       Ir	nches Feet nches nches nches	Mega = Kilo = Hecto =	= 1,000,000 = 1,000 = Inches
4466		Deca =	= 100
MASS		Deci =	= 10
Vils x .001 = Ir Veters x 3.281 = F	nches	Centi =	= .1
Centi. x .394 = Ir	nches	Milli =	= .01
Villimeters x .0394 = Ir Vicrons x .00394 = Ir	nches nches	Micro =	= 000,001

I



# APPLICATION WORKSHEET

Contact Name: E-mail address:	
Company Name: Telephone:	
Application Info	
What type of application is this?	
What type of fluid is the customer pumping?	
What is the temperature of the fluid?	
Is this fluid considered to be flammable?	
What is the viscosity of liquid being pumped (in centipoises)?	
Are there any solids present? INO IYes If yes, what size?	
Total Dynamic Info	
Vertical: Feet Horizontal: Feet	
Elbows?	
Valves? DNo DYes If yes, how many?	
Flow Meters?	
Are you interested in metering?	
If yes, what type?  Totalizer  Batch Control System	
If you are batching how many batches per day?	
Size per batch?	
Is this a continuous flow or intermittent duty application?	
Intended duty cycle (Amount per use, uses per day)?	
What type of container is the customer pumping out of?	
55 (200L) Gallon Drum   Tote <sup>®</sup> Tank	
Other (Please provide required pump immersion length)       Inches       Or       Millimeters         Does the container have a hygienic bag liner? (Sanitary applications only)       Inches       Or       Yes	
Pump Info	
Desired Flow Rate? GPM (Gallons Per Minute)	
Type of motor required? Air Electric-115V Electric-230V	
Type of motor enclosure? (electric motors only)	
Type of pump?	
Is 3A Certification required? (sanitary applications only) No Yes Toll Free: 866-558- Phone: 770-307- Fax: 770-307-	-8611 -1003 -1009
PRINT       CLEAR FORM       E-mail: info@stand         Web:       www.stand	dardpump.com Idardpump.con
SP_APP_111815 Duluth, GA 30097	, Suite D.

SP-APP-111815