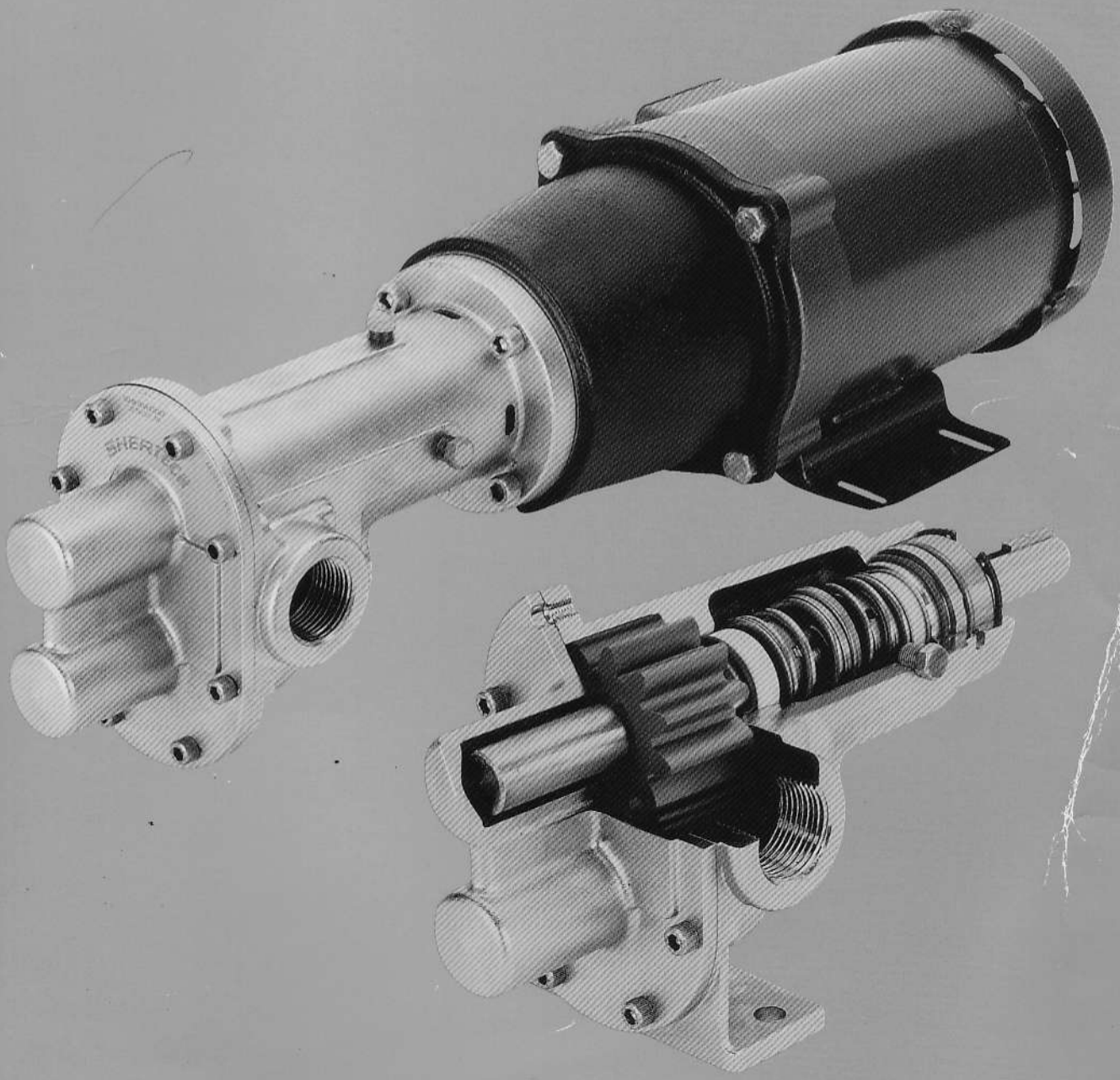
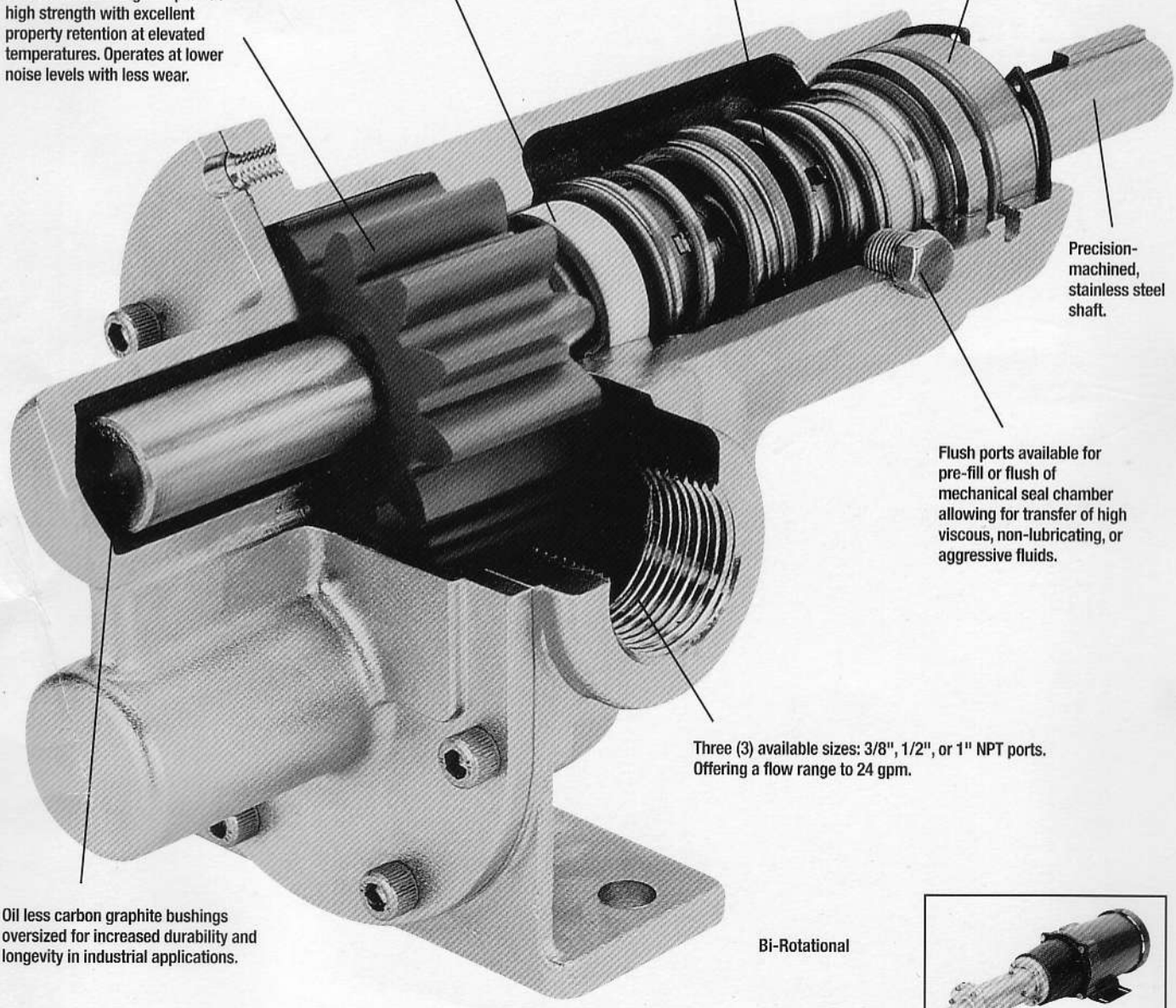
SHERTECH™

STAINLESS STEEL ROTARY GEAR PUMPS



For Transfer of Hard to Handle and Corrosive Non-Abrasive Fluids.

ADAPTABLE TO OEM SPECIFIC DESIGN REQUIREMENTS



Optional double mechanical seals for use in severe or hazardous chemical applications. Dual seals are designed for use with a seal flush or a buffer fluid.

Integral self-lubricating ball bearing assembly provides concentricity and extra support of the shaft for radial load. Ideal for long coupled/belt-driven applications.

Long-wearing, dripless mechanical seals standard. Viton or Teflon can be specified. Seal cavity conforms to DIN 24960 to accept alternate seals when required.

Polyphenylene Sulfide (PPS) carbon-reinforced gears provide high strength with excellent property retention at elevated temperatures. Operates at lower noise levels with less wear.

Precision-machined, stainless steel shaft.

Flush ports available for pre-fill or flush of mechanical seal chamber allowing for transfer of high viscous, non-lubricating, or aggressive fluids.

Three (3) available sizes: 3/8", 1/2", or 1" NPT ports. Offering a flow range to 24 gpm.

Oil less carbon graphite bushings oversized for increased durability and longevity in industrial applications.

Bi-Rotational

Maximum pump speed: 1725 RPM.

Standard construction maximum continuous duty rating: 125 PSI.

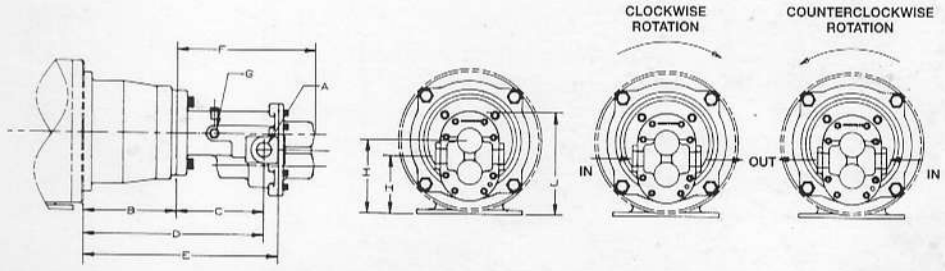
Models are offered close coupled to standard 56C, 145TC, and 182TC frame motors. Ports are capable of 360° rotation in 90° increments.

PERFORMANCE

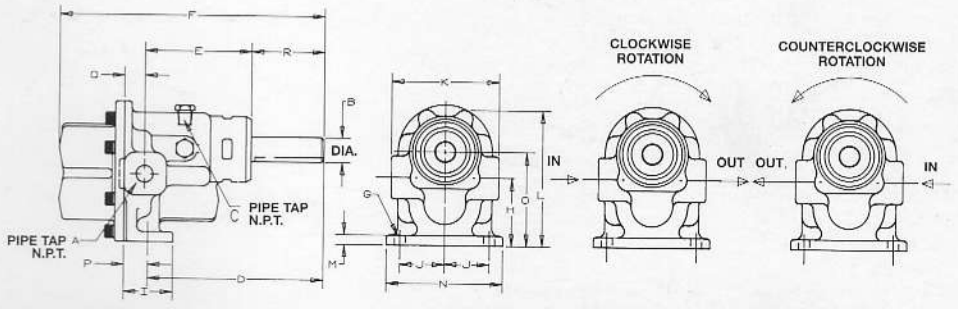
GALLONS PER MINUTE @ TOTAL PSI														
MODEL	PORT SIZE	PUMP RPM	FREE FLOW GPM	FREE FLOW HP	25 PSI GPM	25 PSI HP	50 PSI GPM	50 PSI HP	75 PSI GP	75 PSI HP	100 PSI GPM	100 PSI HP	125 PSI GPM	125 PSI HP
PS2 MS2	3/8"	900	2.4	1/6	2.3	1/6	2.1	1/4	1.8	1/4	1.5	1/3	1.3	1/3
		1200	3.2	1/4	3.1	1/4	2.9	1/3	2.6	1/3	2.3	1/2	1.8	1/2
		1725	4.6	1/3	4.5	1/3	4.2	1/2	4.0	1/2	3.7	3/4	3.3	3/4
PS4 MS4	1/2"	900	5.5	1/4	5.1	1/4	4.5	1/3	4.1	1/3	3.7	1/2	3.1	1/2
		1200	7.3	1/3	7.0	1/3	6.3	1/2	5.9	1/2	5.5	3/4	4.9	3/4
		1725	10.5	1/2	10.2	1/2	9.5	3/4	9.1	3/4	8.7	1	8.1	1
PS6 MS6	1"	900	12.6	1/2	12.0	3/4	10.9	3/4	10.1	1	9.1	1 1/2	8.1	2
		1200	16.7	3/4	16.1	3/4	15.0	1	14.2	1 1/2	13.2	2	12.2	2
		1725	24.0	1	23.4	1	22.3	1 1/2	21.5	2	20.5	3	19.5	3

Flows and horsepower data shown are for a liquid having a viscosity of 35 SSU at 70°F. Example: Water and No.1 fuel oil.

SPECIFICATIONS AND DIMENSIONS



MODELS	A	B	C	D	E	F	G	H	I	J
MS2A	3/8	4.50	4.12	8.58	9.20	6.67	1/8	2.85	3.50	4.91
MS4A	1/2	4.50	4.90	9.35	10.11	7.46	1/8	2.75	3.50	5.00
MS6A/B	1	4.50	5.88	10.10	11.48	9.08	1/8	2.50	3.50	5.39
MS6C	1	5.25	5.88	10.85	12.23	9.08	1/8	3.50	4.50	6.39



MODELS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
PS2	3/8"	0.500	1/8"	5.39	3.85	8.18	9/32	2.15	1.25	1.25	3.00	4.21	0.25	1.62	2.80	0.81	0.60	1.75
PS4	1/2"	0.625	1/8"	6.54	4.72	9.32	13/32	2.40	1.44	1.44	3.50	4.65	0.28	1.85	3.15	0.75	0.70	1.87
PS6	1"	0.750	1/8"	7.82	5.66	11.38	13/32	2.94	1.82	1.82	4.40	5.83	0.30	2.09	3.94	1.125	1.035	2.25

MODEL ORDERING CODES AND OPTIONS

Example Model MSV4DB43T

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
M	S	V	4	D	B	4	3T

1st	2nd	3rd	4th	5th	6th	7th	8th
Mounting	Material	Seals (Mech)	Port Size (NPT)	Options	Motor Mounted Only Brackets	HP	Type
P: Pedestal	S: Stainless Steel	N: Buna Nitrile	2: 3/8"	D: Dbl. Mech Seal	A: 56C	1: 1/3	3: 3 Phase ODP
M: Motor Mounted		V: Viton	4: 1/2"	L: Secondary Lip Seal	B: 56C/145TC	2: 1/2	T: 1 Phase TEFC
		T: Teflon	6: 1"		C: 182/184TC	3: 3/4	3T: 3 Phase TEFC
						4: 1	
						5: 1 1/2	
						6: 2	
						7: 3	

Note: Double mechanical seal must be used with a flush system.

This compatibility chart was compiled from a variety of data. It is intended for general information and does not include all possible fluid combinations.

Temperature limitations and fluid concentrations may affect ratings. Contact the factory prior to final pump selection.

Media	PPS	200°F 316 SS	Teflon	Viton	Buna N	EPDM
Acetaldehyde	A	A	A	A	-	-
Acetamide	A	A	-	A	A	-
Acetate Solvents	A	A	A	-	-	-
Acetic Acids	A	A	A	-	-	-
Acetic Anhydrine Acid	A	A	A	-	-	-
Acetic Acid, Glacial	A	A	A	-	-	-
Acetone	A	A	A	-	-	-
Acetonitrile	A	A	A	-	-	-
Acetophenone	A	A	A	-	-	-
Acetylene	A	A	A	A	A	-
Acetyl Chloride (dry)	A	A	A	A	-	-
Acid Mine Water	A	Q	A	-	-	-
Alcohol, Amyl	A	A	A	A	-	
Alcohol, Butyl	A	A	A	A	A	-
Alcohol, Ethyl	A	A	A	A	A	-
Aluminum Chloride (dry)	A	A	A	-	-	-
Aluminum Sulfate	A	A	A	-	-	-
Ammonia, anhydrous	A	A	A	-	-	A
Ammonium Carbonate	A	B	A	A	-	-
Ammonium Chloride	A	Q	A	A	A	-
Ammonium Hydroxide	A	A	A	A	A	-
Ammonium Nitrate	A	Q	A	-	-	-
Ammonium Sulfate	A	Q	A	A	-	-
Amyl Acetate	A	A	A	-	-	-
Aniline	A	A	A	A	A	-
Arsenic Acid	A	AB	A	-	-	-
Asphalt Emulsions	A	A	A	A	-	-
Barium Chloride 5%	A	A	A	A	A	-
Barium Hydroxide	A	A	A	A	A	-
Barium Sulfate	A	A	A	A	A	-
Benzene	A	A	A	-	-	-
Benzene Sulfonic Acid	A	A	A	-	-	-
Benzoic Acid	A	B	A	A	-	-
Benzyl Alcohol	A	A	A	A	-	A
Benzyl Chloride	A	AB	A	-	-	-
Borax	A	AB	A	A	A	-
Boric Acid 5%	A	AB	A	-	-	-
Butadiene	A	A	A	A	A	-

Media	PPS	200°F 316 SS	Teflon	Viton	Buna N	EPDM
Butane	A	A	A	A	-	
Butylene	A	A	A	A	A	-
Butyl Acetate	A	A	-	-	-	-
Butyl Acetate	A	A	-	-	-	-
Butyl Ether	A	A	A	-	-	-
Butyric Acid 5%	A	AB	A	-	-	A
Butyric Acid Concentrated	A	AB	A	-	-	A
Butyl Phthalate	A	B	A	-	-	-
Calcium Bisulfite	A	AB	A	A	-	-
Calcium Chloride	A	AB	A	A	A	--
Calcium Hypochlorite 100%	A	Q	A	-	-	-
Calcium Nitrate	A	AB	A	A	-	-
Calcium Sulfate	A	AB	A	-	-	-
Carbon Dioxide	A	A	A	A	A	-
Carbon Disulfide	A	A	A	-	-	-
Carbonic Acid	A	AB	AB	A	-	-
Cellosolves	A	A	A	-	-	-
Chloroacetic Acid	A	Q	A	-	-	-
Chlorobenzene (dry)	A	A	A	A	-	-
2-Chloroethanol	A	AB	A	-	-	-
Chlorofoam	A	A	A	A	-	-
Chlorophenol, 5% Aqueous	A	AB	-	A	-	-
Chromic Acid Dilute	A	A	A	-	-	-
Citric Acid	A	AB	A	A	-	-
Cottonseed Oil	A	A	A	A	A	-
M-Cresol (crude)	A	A	A	A	-	-
Crude Oil	A	A	A	-	-	-
Copper Nitrate	A	AB	A	A	-	-
Copper Sulfate	A	AB	A	A	A	-
Cyclohexane	A	A	A	A	-	-
Cyclohexanol	A	A	A	A	-	-
Cyclohexanone	A	A	A	A	-	-
Detergents	A	A	A	-	-	-
Dibutyl Phthalate	A	B	A	-	-	-
Diesel Fuel	A	A	A	A	-	
Disobutylene	A	A	A	-	-	-
Dimethyl Formamide	A	A	A	-	-	-
Dimethyl Phthalate	A	A	A	A	-	-

Media	PPS	200°F 316 SS	Teflon	Viton	Buna N	EPDM
Dipenyl Ether	A	A	A	-	-	-
Dioctyl Phthalate	A	A	A	A	-	A
Dowtherm	A	A	A	A	-	-
Epchlorohydrin (dry)	A	A	A	-	-	-
Ethanolamine	A	A	A	-	-	A
Ethers	A	A	A	-	-	-
Ethyl Acetate	A	A	A	-	-	-
Ethyl Ether	A	AB	A	A	-	-
Ethylene Chlorohydrin	A	AB	A	A	-	-
Ethylene Diamine	A	Q	A	-	A	A
Ethylene Dichloride	A/Q	AB	A	A	-	-
Ethylene Glycol	A	AB	A	A	A	-
Formaldehyde, 37%	A	AB	-	A	A	-
Formic Acid	A/Q	B	A	-	-	-
Freon (dry)	A	A	A	-	-	-
Fuel Oil	A	A	A	A	A	-
Furan	A	A	A	-	-	-
Furfural	A	A	A	-	-	-
Glycerine (Glycerol)	A	A	A	A	A	A
Glycolic Acid	A	A	A	-	-	-
Heptane	A	A	A	A	A	-
Hexane	A	A	A	A	A	-
Hydrogen Gas	A	A	A	-	-	-
Hydrogen Sulfide (wet)	A	A	A	A	-	-
Isobutyl Alcohol	A	AB	A	A	A	-
Isoctane	A	Q	A	A	-	-
Isopropyl Alcohol	A	AB	A	A	A	-
Kerosene	A	A	A	A	A	-
J.P. Fuels	A	A	A	A	A	-
Ketones	A	A	A	-	-	-
Lactic Acid	A	A	A	-	-	-
LPG (Propane)	A	A	A	A	A	-
Lead Acetate	A	B	A	-	-	A
Linseed Oil	A	A	A	A	A	-
Lubricating Oil	A	A	A	A	A	-
Magnesium Chloride	A	Q	A	A	A	-
Magnesium Hydroxide	A	A	A	A	-	-
Magnesium Nitrate	A	A	A	-	-	-
Methylene Chloride	A	B	-	-	-	-
Methyl Alcohol	A	A	A	-	A	-
Methyl Ethyl Ketone	A	A	A	-	A	A
Methyl Isobutyl Ketone	A	A	A	A	A	
Mineral Oil	A	A	A	A	A	-
Morpholine	A/Q	A	A	-	-	-
Monochlorobenzene	A	AB	A	A	-	-
Motor Oil	A	A	A	A	A	-
Naptha	A	A	A	A	A	-
Napthalene	A	A	A	A	-	-
Nickel Sulfate	A	AB	-	A	A	A
Nitrobenzene	A/Q	A	A	A	-	-
Nitrogen	A	A	A	A	A	-
Oils Crude	A	A	A	A	A	-
Oils Vegetable	A	A	A	A	A	-
Oleic Acid	A	AB	A	-	-	-
Perchloroethylene (dry)	A	A	A	A	-	-
Phenol	A	Q	A	A	-	-
Phosphorus Trichloride (dry)	A	A	A	-	-	-

Media	PPS	200°F 316 SS	Teflon	Viton	Buna N	EPDM
Photographic Solutions	A	Q	A	A	-	-
Potassium Bromide	A	Q	A	A	A	-
Potassium Carbonate	A	B	A	A	A	-
Potassium Chlorate	A	AB	A	A	A	-
Potassium Chloride	A	B	A	A	A	-
Potassium Cyanide	A	B	A	A	A	-
Potassium Nitrate	A	B	A	A	-	-
Potassium Permanganate	A	B	A	-	-	-
Potassium Sulfate	A	A	A	A	A	-
Propyl Alcohol	A	AB	A	A	A	A
Pyridine	A	A	A	-	-	-
Silver Nitrate	A	AB	A	A	A	-
Soap Solutions	A	A	A	A	-	-
Sodium Acetate	A	AB	A	A	A	A
Sodium Bicarbonate	A	A	A	A	A	A
Sodium Borate	A	AB	A	A	A	A
Sodium Carbonate	A	A	A	A	A	-
Sodium Chlorate	A	B	A	A	-	A
Sodium Chromate	A	A	A	A	A	-
Sodium Cyanide	A	AB	A	A	A	A
Sodium Hydroxide, 15%	A	A	A	-	-	-
Sodium Hydroxide, 30%	A	A	A	-	-	-
Sodium Hydroxide, 50%	Q	Q	A	-	-	-
Sodium Silicate	A	A	A	A	A	-
Sodium Sulfate	A	A	A	A	A	-
Sodium Sulfide	A	A	A	-	-	-
Sodium Thiosulfate	A	A	A	A	-	A
Sodium Tetraborate	A	AB	A	A	-	A
Steam - 300 F	A	A	A	A	A	-
Stoddard Solvent	A	A	A	A	A	-
Sulfinol	A	A	A	-	-	-
Sulfur Dioxide	A	A	A	-	-	-
Sulfuric Acid, 30%	A	NR	A	-	-	-
Sulfuric Acid, 50%	A	NR	A	-	-	-
Sulfuric Acid, 98%	A	A	A	-	-	-
Tetrachloroethane	A	A	-	A	-	-
Tetrahydrofuran	A	A	A	-	-	-
Tetraphosphoric Acid	A	AB	A	-	-	-
Toluene	A	A	A	A	-	-
Tomato Juice	A	A	A	A	A	-
Trichlorethylene	A/Q	Q	A	A	-	-
Triethanolamine	A	A	A	-	-	-
Triethyl Phosphate	A	A	A	-	-	-
Triphenyl Phosphite	A	-	-	-	-	-
Trisodium Phosohate	A	A	A	A	A	-
Turpentine (dry)	A	A	A	A	A	-
Urea	A	AB	A	A	-	-
Vinegar	A	A	A	A	-	-
Water, Deionized	A	A	A	A	-	-
Sea	A	A	A	A	A	A
Tap	A	A	A	A	A	A
Xylene	A	A	A	A	-	-
Zinc Chloride	A	A	NR	A	A	-
Zinc Sulfate	A	AB	A	A	A	-

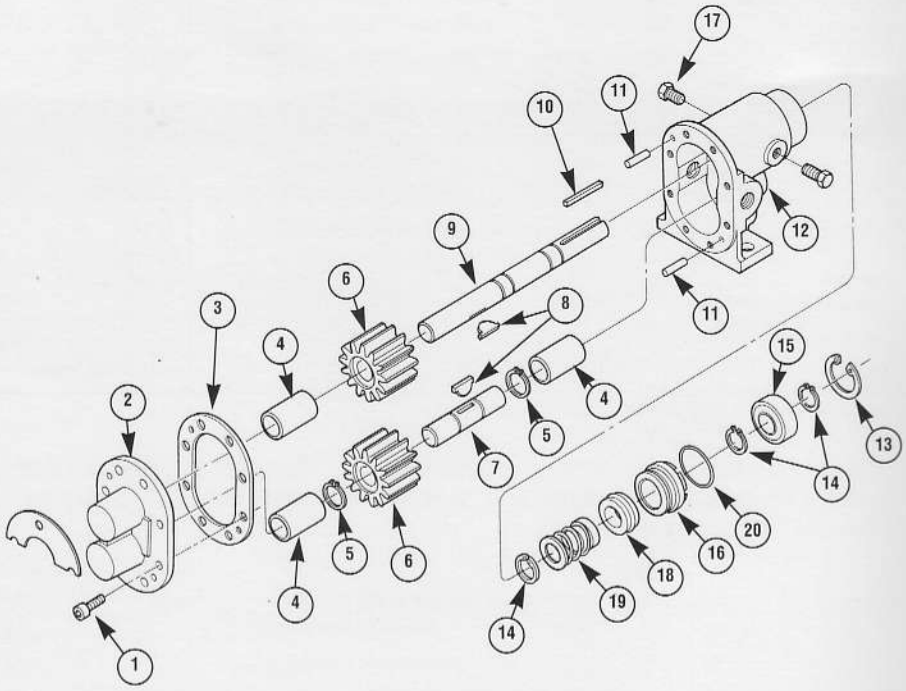
A=Acceptable
B=Temperature and/or Concentration Limitations
Q=Questionable
NR=Not Recommended

ITEM	DESCRIPTION
1	SOC. HD. SCREW
2	COVER
3	GASKET
4	BUSHING
5	EXT. RET. RING
6	GEAR
7	IDLER SHAFT
8	WOODRUFF KEY
9	DRIVE SHAFT
10	SQUARE KEY
11	DOWEL PIN
12	BODY
13	INT. RET. RING
14	EXT. RET. RING
15	BALL BEARING
16	RETAINER
17	PIPE PLUG
18	SEAL SEAT
19	MECH. SEAL
20	O-RING
21	ADAPTOR
22	SOC. HD. BOLT
23	COUPLING
24	CAP SCREW

Available Service Kits

	ITEMS
GEAR REPAIR KIT	3,5,6,8
DR. SHAFT/GEAR ASSY KIT	6,8,9,10,13,14 15,16,18,19,20
SEAL SEAT ASSY	18,19
IDLER SHAFT/GEAR ASSY KIT	5,6,7,8

PEDESTAL



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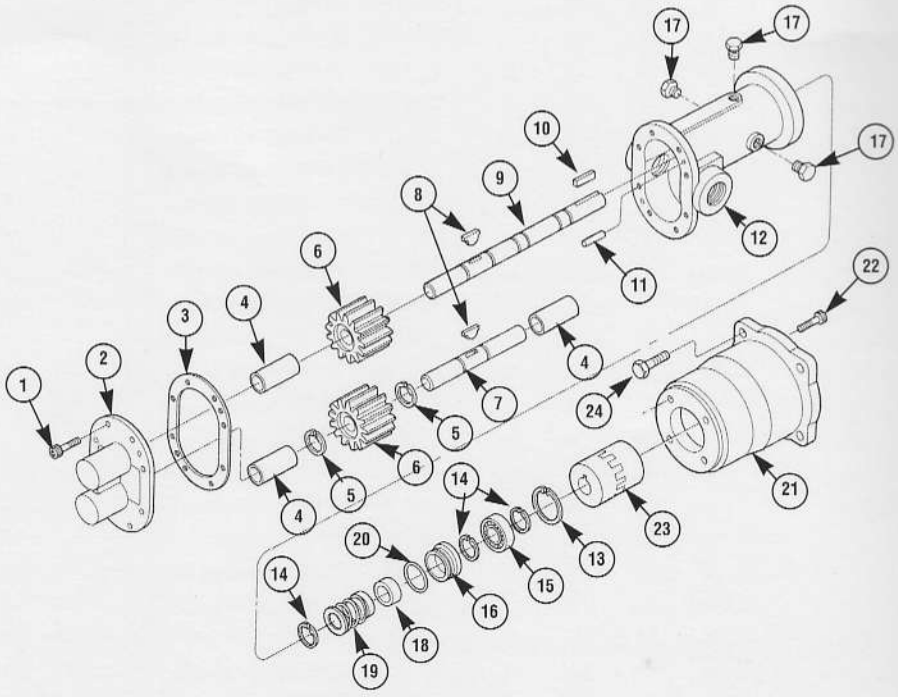

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