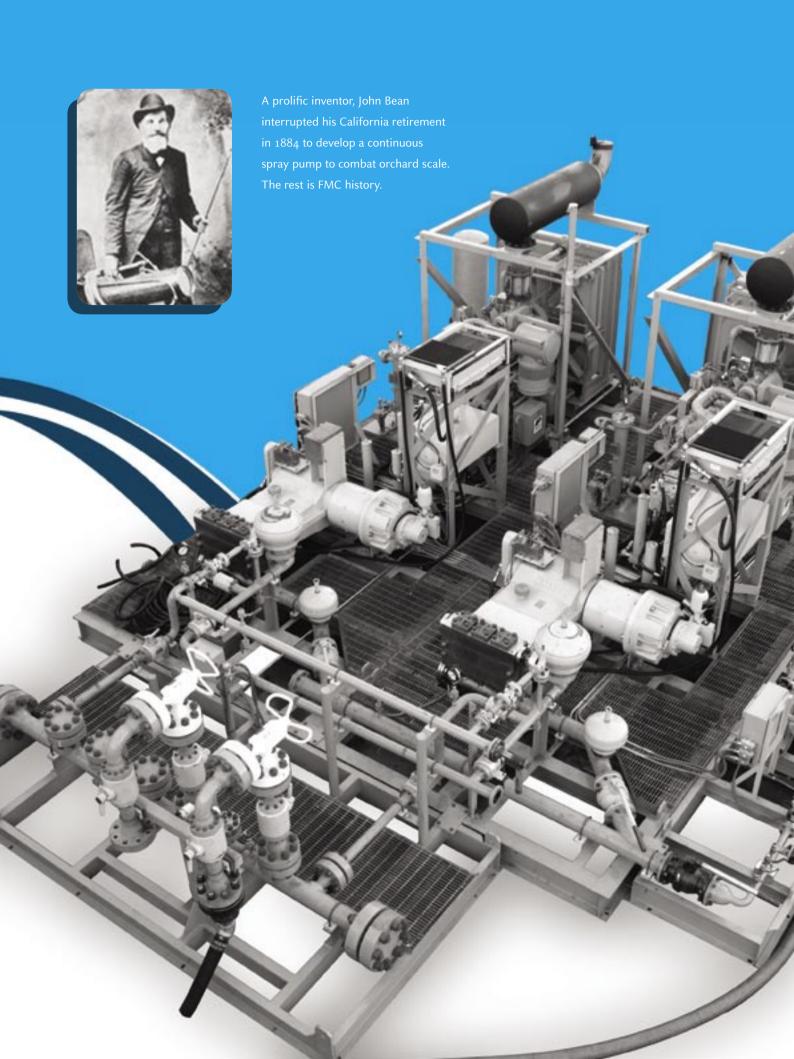
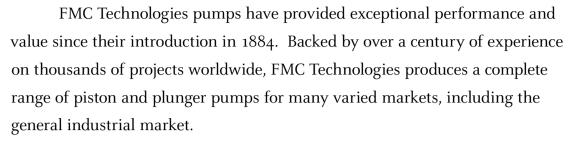
# **FMC** Technologies Reciprocating Pumps





As the pioneer and world leader in piston and plunger pump technology, FMC Technologies delivers pumps in sizes, designs, and materials to meet customer and industry requirements. FMC Technologies pumps are setting new standards for low cost of ownership, long service life, and ease of maintenance.

### Contents

- 5. About FMC Technologies Pumps
  - Contributing Factors, Markets, Pump Systems, Research and Development, Global Customer Commitment and Manufacturing.
- 7. Applications
  - Oil and Gas, General Industrial, Horizontal Directional Drilling, Reverse Osmosis, Sewer Cleaning, Core Drilling / Mining and Agriculture Spraying.
- 13. Plunger Pumps
- 15. Piston Pumps
- 17. Pump Specifications (o 34 HP)
- 19. Pump Specifications (37 117 HP)
- 21. Pump Specifications (150 265 HP)
- 23. Pump Specifications (350 -650 HP)
- 25. Pump Specifications (700 HP)





### **Customer Commitment**

Many factors contribute to the ability of FMC Technologies to satisfy customer needs - a broad, high-pressure pump line offering advanced technology and materials - integrated engineering, manufacturing, fabrication, and testing capabilities - worldwide technical assistance - and a proven track record of success in a complete range of applications. Most importantly, FMC Technologies possesses a company-wide commitment to performance and value.

All pumps and consumable parts are manufactured to precise specifications using advanced materials of construction, specialized machining processes, and rigid quality control measures. As part of its commitment to continuous improvement, FMC Technologies provides comprehensive technical assistance, custom pump designs, and global support.

### Manufacturing

FMC Technologies manufactures its family of piston and plunger pumps at its state-of-the-art facility utilizing the latest in CNC machining centers, production planning systems, 3D CAD/CAM systems, and order and distribution systems. Like other FMC Technologies products, the pump line is manufactured to ISO-9001 quality standards. Every pump is tested prior to shipment to ensure that it meets rigorous industry and customer requirements. All tests can be witnessed and certified.

### Research and Development

As the pump industry's performance and value leader, FMC Technologies is investing more capital and manpower in research and development than at any time in its history. Dedicated R&D personnel using state-of-the-art facilities are working to refine existing products and to create new pumps designed to satisfy specific customer requirements.



### **Pump Systems**

FMC Technologies and its distributors have the resources to deliver turnkey pump systems on a global basis. By combining systems design, engineering, manufacturing, and project management capabilities, FMC Technologies offers proven pump packages for a complete range of applications. From a simple pump package with motor and skid to a complete pumping system with multiple pumps, controls, valves, and piping, the FMC Technologies team delivers.

FMC Technologies pumps are manufactured to ISO-9001 standards at its state-of-the-art facility in Stephenville, Texas.

### **Markets**

- » Agriculture
- » Chemical
- » Desalination
- » Drilling
- » General Industrial
- » Mining
- » Oil and gas
- » Pulp and paper
- » Sewer Cleaning
- » Steel

# Pump applications

#### Oil & Gas

As one of the world's top suppliers of solutions for the global oil and gas industry, FMC Technologies delivers pumps for a complete range of process, transportation, and refining applications. These world-proven pumps are built to excel in the most demanding services while providing a safe, effective method of pumping hot, corrosive, and/or hazardous fluids at pressures up to 10,000 psi. Typical applications include:

- » Water disposal
- » Secondary recovery
- » Glycol dewatering
- » Amine sweetening
- » Chemical injection
- » Crude transfer

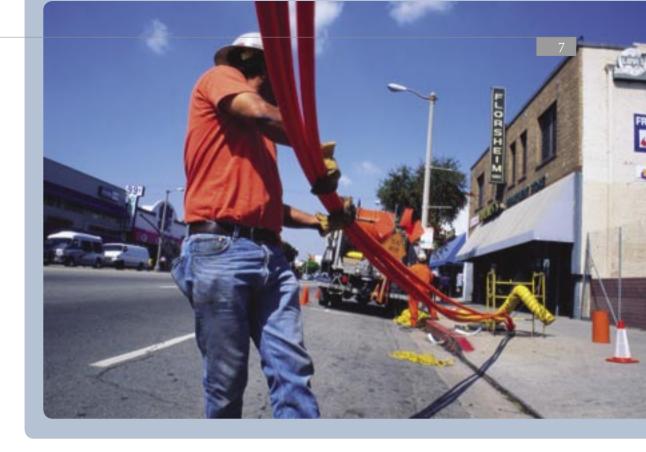




### **General Industrial**

Reciprocating pumps from FMC
Technologies are ideally suited for a wide
variety of industrial services where durability,
high efficiency, and versatility are paramount.
FMC Technologies pumps are setting new
standards for low cost of ownership, long
service life, and ease of maintenance in
the world's toughest industrial applications.
Typical applications in this market include:

- » Machine tool coolant
- » Mine-dust suppression
- » Mine dewatering
- » Steam boiler feed
- » High-pressure washdown
- » Descaling
- » Fire protection
- » Hydrostatic testing
- » Water jet cutting
- » Slurries



### **Horizontal Directional Drilling**

As the pioneer and global leader in the development of piston pump technology within the Horizontal Direction Drilling Industry (HDD), FMC Technologies product offering has been designed to meet the market's demanding requirements. FMC Technologies HDD product line offering enables the customer to design drill systems using onboard or stand—alone pumping solutions. FMC Technologies' piston pumps have fewer parts than plunger pumps, making them inherently easier and less costly to maintain. The pumps are manufactured to precise specifications using the most advanced materials, machining processes and rigid quality control measures. It's this commitment to design and quality which increases drilling productivity. FMC Technologies piston pumps maximize revenues by increasing asset efficiency while lowering overall pump ownership cost. Please contact your FMC Technologies sales representative for further information.

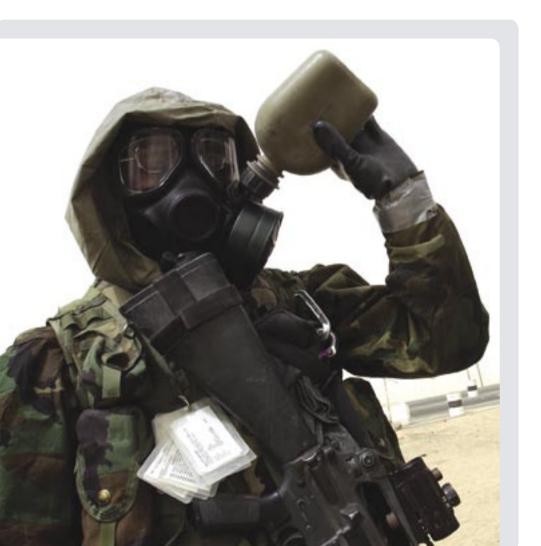
### Accreditation's



#### **Reverse Osmosis Water Purification**

The high mechanical efficiency of FMC Technologies pumps makes them the ideal choice for reverse osmosis systems. The world leader in both commercial and military RO pump technology, FMC Technologies delivers triplex and quintuplex pump solutions for smooth, reliable performance with minimal maintenance requirements. FMC Technologies provides aluminum bronze or stainless steel construction for most RO services, however duplex stainless or exotic materials such as Hastelloy are available for critical, high salinity or acidic liquid requirements.

The patented FMC Technologies Aqua Pump is the solution for critical RO services where minimal equipment weight and size are required. The pump features a unique composite material construction, oil–free drive end and produces minimal pulsations.





### **Sewer Cleaning Pumps**

FMC Technologies continues to supply unsurpassed technology, service and responsiveness to the sewer cleaning industry. FMC Technologies' culture of being responsive and reacting to the needs of a market is directly related to providing this alternative pumping solution to the OEM's of the sewer cleaning industry.



FMC Technologies leads the market into the 21st century with its environmental friendly pump product. The custom design piston pump products operate at lower r.p.m.'s while incorporating state—of—the—art materials and wear components. The pumps are designed to pump the most abrasive fluids within the industry such as gray water and recycled sewer and storm waters. The FMC Technologies Sewer Cleaning Pumps continue the tradition of lowering component life cycle cost and total cost of ownership by incorporating longer lasting, increased wear characteristics and run dry capabilities. Please contact your FMC sales representative for further information.

# Pump applications

### Core Drilling and Mining

The durability of the FMC Technologies "Bean" piston pumps is unsurpassed within the vertical drilling markets. Designed for continuous duty applications, the FMC Technologies "Bean" piston line increases drilling productivity while lowering the overall cost of ownership. The pump's simple design incorporates less wearable components and ease of service. FMC Technologies self-cleaning and erosionresistant valve technology enables the pumps to handle the most abrasive and stringy fluids within the industry. Each drilling activity requires enhancing certain conditions and criteria to maximize drilling performance. This customization has led FMC Technologies pumps to become the leader within the surface and underground coring, water well, geotechnical and the environmental drilling markets with its "BEAN" piston pump product line.





In addition to the services already listed, FMC Technologies is a leading provider of pumping solutions designed for mobile equipment. These pumps feature lightweight, high-performance construction and special designs to allow them to efficiently integrate into the overall equipment package.



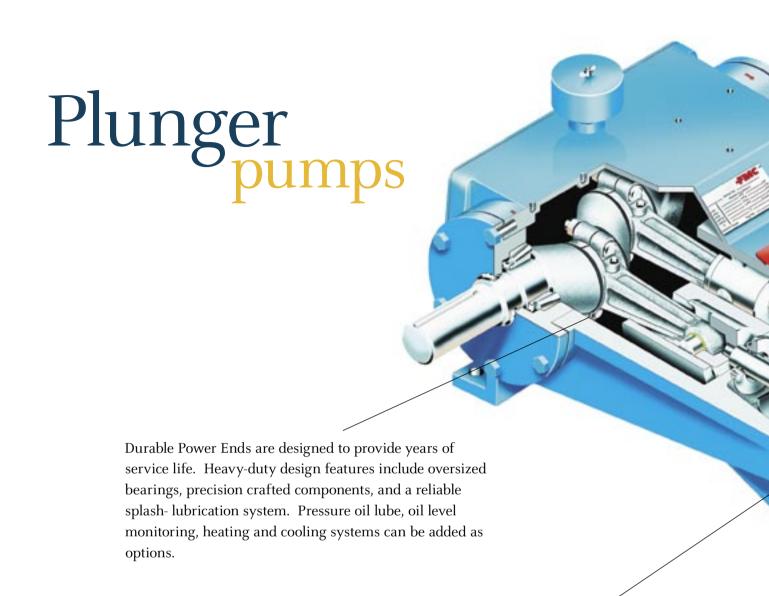


### **Agriculture**

In addition to the markets and applications already listed, FMC Technologies is a leading provider of high pressure pumping solutions for the mobile equipment market. Since 1884, FMC Technologies has been creating economic value by developing a diverse line of custom pumps designed around the needs and criteria of our agricultural and sewer cleaning customers.

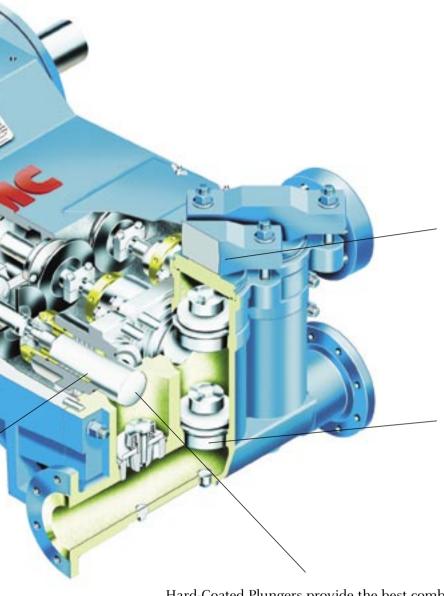
The "Bean Piston Pump Product Line" can be customized to handle the most abrasive and corrosive insecticides and pesticides. FMC Technologies engineer's expertise in materials and chemical analysis enables FMC Technologies to manufacture and construct pumps that are ideally suited for the agricultural spraying applications of today. By understanding the "what and why" within the pumping specifics, FMC Technologies is able to provide the professional sprayer a broad line of pumps that increase revenue and lower overall operating cost. In addition to maximizing economic value, FMC Technologies continues its tradition of delivering a quality product at a competitive price.

# Pump applications



Braided Compression Packing made from aramid and PTFE fibers provides excellent overall performance. External lubrication is not required but can be added as an option to extend packing life in many applications. Numerous additional packing styles or materials can be supplied to provide optimal performance in any service.

FMC Technologies plunger pumps are an excellent choice for the most demanding applications. Extremely versatile FMC Technologies plunger pumps can be readily adapted for optimum performance in a wide range of service conditions. Pumps are available in ductile iron, carbon steel, aluminum bronze, duplex stainless steel, Inconel®, and other materials as required.



Fluid End wetted parts can be supplied in a wide variety of cast or forged materials.

Standard Disc Valves provide quiet, efficient performance in most applications. Abrasion-resistant valves are available to suit high-performance applications.

Hard-Coated Plungers provide the best combination of value, performance, and corrosion resistance for most applications. Ceramic, tungsten carbide, or other styles are also available.

All pumps have been carefully designed to provide years of operational life. Heavy-duty designs with oversized bearings ensure these pumps will deliver value and performance in real world operating conditions. When maintenance is required, FMC Technologies pumps feature easy access to typical service areas.

FMC Technologies plunger pumps have an outstanding record of dependable service in thousands of installations around the world. This success stems from the ability to combine sound engineering, reliable craftsmanship, and years of pumping experience.

# Piston pumps

FMC Technologies Piston Pumps are engineered and designed to meet the market needs and requirements. By working together with it's customers, FMC Technologies customizes the designs and innovative component technology to optimize pump efficiency in the most extreme working conditions. The lower life cycle cost can be contributed to designing longer lasting parts with innovative wear characteristics. into the pumping solution. Increased priming characteristics can be achieved with low clearance volume fluid chambers. The piston pumps are designed to enable service in the field, decrease any unnecessary downtime and increase production profit output.

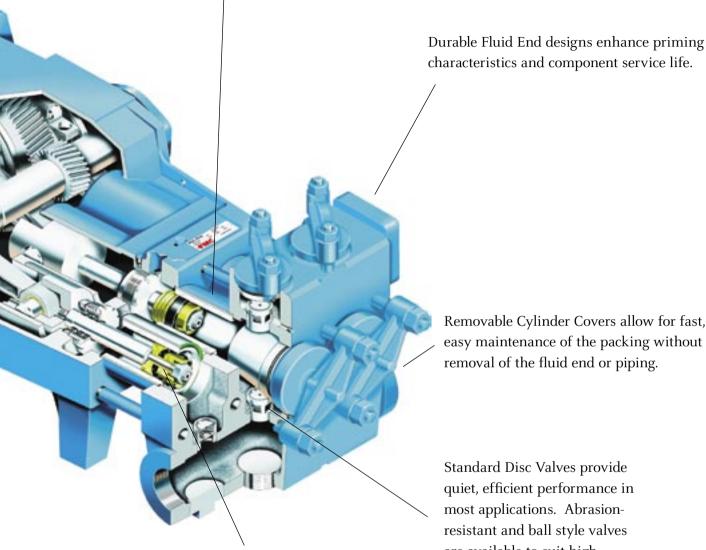
Shaft configurations provide
maximum flexibility. Straightkeyed shaft or splined shafts are
available for hydraulic motors
and external gear reducers.

Compact Power Frames (many with builtin gear reduction) simplify installation in mobile or space-constrained applications.

FMC Technologies Piston Pumps continue to create value that is unsurpassed in the industry. The versatility of a broad range of piston products combined with innovative design, component technology with lower life cycle cost and serviceability allows FMC Technologies to focus on Tomorrow's Engineered Solutions Today.

The Piston Pump Product line is available in up to 350 horsepower and designed for continuous duty industrial applications. The piston pump product is available in triplex, quintuplex or quadruplex configurations and operate up to 2,500 psi with flows up to 670 gpm. Pumps can incorporate ductile iron, aluminum bronze and other materials as required by the application.

Solid Ceramic Piston Liners provide the ultimate in wear and corrosion resistance.



Removable Cylinder Covers allow for fast, easy maintenance of the packing without removal of the fluid end or piping.

Piston Cups incorporate a unique geometry with composite rubber and fabric construction for reliable, leak-tight performance.

Standard Disc Valves provide quiet, efficient performance in most applications. Abrasionresistant and ball style valves are available to suit highperformance applications.

Overall, FMC Technologies broad product offering, serviceability, innovative designs and component technology increases productivity by decreasing downtime. FMC Technologies Piston Pumps continue to lower overall cost of ownership by providing Tomorrow's Market Solutions Today.

### o – 34 HP Pump Specifications

(Pump Selection Formula PG. #25)

			/ /			ons per Res	/ «		/
			ad Pressure Pail Continuous Dut	Internitent Di	sed.		olution ad Diamet	er im Strake	ders/
	. /		150°	ont		2ex	o. /	or (it.) With	
	ories		cessir involv	mitte.		ner la	net		los.
, S		> /	d Pro Contracity	otern acity		ons P	Dian	wer Ne	
Pumps	Mode	Rati	Continue Capacity	Internit	(al	5 / 56		un! Stron	
			CDM @ too DDM	/	1 2226				$\leftarrow$
A04	A0410	850	4.2 GPM @ 400 RPM	5.3 GPM @ 500 RPM	0.0106	1.250	2	1.00	
2.6/3.2 HP	A0411	700	5.2 GPM @ 400 RPM	6.5 GPM @ 500 RPM	0.0129	1.375	2	1.00	
	A0413	550 850	7.2 GPM @ 400 RPM	9.0 GPM @ 500 RPM	0.0180	1.625	2	1.00	
I04	I0410	850	4.2 GPM @ 400 RPM	5.3 GPM @ 500 RPM	0.0106	1.250	2	1.00	
2.6/3.2 HP	I0411	700	5.2 GPM @ 400 RPM	6.5 GPM @ 500 RPM 9.0 GPM @ 500 RPM	0.0129	1.375	2	1.00	
3.6	I0413	550	7.2 GPM @ 400 RPM	3.6 GPM @ 900 RPM	0.0160	1.625	2	1.00	
Mo4 2.8/4.2 HP	Mo405	1,750	2.4 GPM @ 600 RPM 3.4 GPM @ 600 RPM	5.1 GPM @ 900 RPM		0.625	3	1.00	
2.0/4.2 111	Mo406 Eo410	1,250	9.5 GPM @ 450 RPM	10.9 GPM @ 515 RPM	0.0057	0.750	3	1.00	
E04	E0411	850 700	11.6 GPM @ 450 RPM	13.2 GPM @ 515 RPM	0.0212	1.250	4	1.00	
6.1/7.0 HP	E0413	<i>'</i>	16.2 GPM @ 450 RPM	18.5 GPM @ 515 RPM	0.0257	1.375 1.625	4	1.00	
	L0413 L0913	550 1,200	12.6 GPM @ 750 RPM	15.0 GPM @ 890 RPM	0.0359	1.625	4	2.25	
Lo9	L0913	1,000	14.6 GPM @ 750 RPM	17.4 GPM @ 890 RPM	0.0105	1.750	3	2.25	
11.6/13.8 HP	L0914 L0918	700	24.2 GPM @ 750 RPM	28.7 GPM @ 890 RPM	0.0323	2.250	3	2.25	
Lo6	Lo614	1,000	16.4 GPM @ 350 RPM	23.5 GPM @ 500 RPM	0.0469	1.750	3	1.50	
12.3/17.6 HP	Lo618	700	27.1 GPM @ 350 RPM	38.8 GPM @ 500 RPM	0.0775	2.250	3	1.50	
Lo6-HV	Lo614-HV	1,200	18.8 GPM @ 400 RPM	25.8 GPM @ 550 RPM	0.0469	1.750	3	1.50	
15.1/20.7 HP	Lo618-HV	750	31.0 GPM @ 400 RPM	42.6 GPM @ 550 RPM	0.0775	2.250	3	1.50	
3 / /	Mo604	10,000	1.8 GPM @ 475 RPM	2.3 GPM @ 600 RPM	0.0038	0.500	3	1.50	
	Mo605	8,800	2.9 GPM @ 475 RPM	3.6 GPM @ 600 RPM	0.0060	0.625	3	1.50	
	Mo6o6	6,100	4.1 GPM @ 475 RPM	5.2 GPM @ 600 RPM	0.0086	0.750	3	1.50	
Mo6	Mo6o8	3,400	7.3 GPM @ 475 RPM	9.2 GPM @ 600 RPM	0.0153	1.000	3	1.50	
16.6/20.9 HP	Mo610	2,200	11.4 GPM @ 475 RPM	14.3 GPM @ 600 RPM	0.0239	1.250	3	1.50	
, ,	Mo612	1,500	16.3 GPM @ 475 RPM	20.6 GPM @ 600 RPM	0.0344	1.500	3	1.50	
	Mo614	1,120	22.3 GPM @ 475 RPM	28.1 GPM @ 600 RPM	0.0469	1.750	3	1.50	
	Mo615	1,000	25.6 GPM @ 475 RPM	32.3 GPM @ 600 RPM	0.0538	1.875	3	1.50	
W11	W1118	1,000	24.8 GPM @ 630 RPM	25.0 GPM @ 635 RPM	0.0394	2.250	3	2.75	
17/35 HP	W1122	1,000	50.1 GPM @ 850 RPM	50.1 GPM @ 850 RPM	0.0589	2.750	3	2.75	
	L0913-HV	1,500	22.7 GPM @ 375 RPM	27.3 GPM @ 450 RPM	0.0606	1.625	3	2.25	
Log-HV	L0914-HV	1,300	26.4 GPM @ 375 RPM	31.6 GPM @ 450 RPM	0.0703	1.750	3	2.25	
22.6/27.1 HP	Log18-HV	800	43.6 GPM @ 375 RPM	52.3 GPM @ 450 RPM	0.1162	2.250	3	2.25	
	M0905	10,000	3.8 GPM @ 425 RPM	5.0 GPM @ 550 RPM	0.0090	0.625	3	2.25	
	M0906	6,900	5.5 GPM @ 425 RPM	7.1 GPM @ 550 RPM	0.0129	0.750	3	2.25	
Mo9	M0908	3,900	9.7 GPM @ 425 RPM	12.6 GPM @ 550 RPM	0.0229	1.000	3	2.25	
26/33 HP	M0910	2,500	15.3 GPM @ 425 RPM	19.7 GPM @ 550 RPM	0.0359	1.250	3	2.25	
	M0912	1,750	21.9 GPM @ 425 RPM	28.4 GPM @ 550 RPM	0.0516	1.500	3	2.25	
	M0915	1,150	34.3 GPM @ 425 RPM	44.4 GPM @ 550 RPM	0.0807	1.875	3	2.25	
	Mo8o6	10,000	5.2 GPM @ 450 RPM	6.9 GPM @ 600 RPM	0.0115	0.750	3	2.00	
	Mo807	7,400	7.0 GPM @ 450 RPM	9.4 GPM @ 600 RPM	0.0156	0.875	3	2.00	
	Mo8o8	5,650	9.0 GPM @ 450 RPM	12.2 GPM @ 600 RPM	0.0204	1.000	3	2.00	
Mag	Mo810	3,620	14.4 GPM @ 450 RPM	19.1 GPM @ 600 RPM	0.0139	1.250	3	2.00	
Mo8 34/45 HP	Mo812	2,250	20.7 GPM @ 450 RPM	27.5 GPM @ 600 RPM	0.0459	1.500	3	2.00	
J-1/ TJ 111	Mo814	1,850	28.1 GPM @ 450 RPM	37.5 GPM @ 600 RPM	0.0625	1.750	3	2.00	
	Mo816	1,420	36.7 GPM @ 450 RPM	49.0 GPM @ 600 RPM	0.0816	2.000	3	2.00	
	Mo818	1,120	46.5 GPM @ 450 RPM	62.0 GPM @ 600 RPM	0.1033	2.250	3	2.00	
	Mo820	915	57.4 GPM @ 450 RPM	76.5 GPM @ 600 RPM	0.1275	2.500	3	2.00	

/			/		/	/	/	/	/	Jun Bronze	/	ation Steel	/ .xe	el of steel stainless steel
							edranical f	, oncy	/ ,	un Bronde		/ Stee	1.055	15te / 8553/
								st Ductile	yon /	ILI P.	stee/	arbon /	ainle	arbo tainie
		eight Mos Pump	,oe	neth in	/.	100	/.cal*	tile	min	inles	3/36	)	is led	/892/
		. oht.	(4,	Sill (	"The	Mt (II)	hanie	, Duc/	AllI	stall/	cordo/	LORGO	LOLOS /	401%
	14	Sig bruit	/ é	no li	dthin	eight im	ec. / G	55° / (	852 /	35 <sup>5</sup> / 418	^/ 🔞	37/83	1/2	N' /
		PISTON		8.0	r	90%	•		_				$\leftarrow$	
	43	PISTON	7.0	8.0	20.5	90%	•	•						
	43	PISTON	7.0 7.0	8.0	20.5	90%	•	•						
	43 43	PISTON	16.5	8.0	7.0	90%	•	•						
	43	PISTON	16.5	8.0	7.0	90%	•	•						
	43	PISTON	16.5	8.0	7.0	90%	•	•						
	43	PLUNGER	16.0	7.5	6.5	90%	•	•		•	<b>*</b>			
	43	PLUNGER	16.0	7.5	6.5	90%	•	•		•	<b>*</b>			
	80	PISTON	10.0	6.0	18.0	85%	<b>*</b>	<b>*</b>						
	80	PISTON	10.0	6.0	18.0	85%	•	•						
	80	PISTON	10.0	6.0	18.0	85%	•	<b>*</b>						
	200	PISTON	23.5	12.5	11.5	85%	•							
	200	PISTON	23.5	12.5	11.5	85%	•							
	200	PISTON	23.5	12.5	11.5	85%	•							
	175	PISTON	24.0	12.5	12.8	90%	•	•						
	175	PISTON	24.0	12.5	12.5	90%	•	•						
	225	PISTON	27.5	12.5	12.5	90%	•	•	•					
	225	PISTON	27.5	12.5	12.5	90%	•	•	•					
	245	PLUNGER	27.5	12.5	12.5	90%				<b>*</b>	<b>*</b>	<b>+</b>	<b>+</b>	
	245	PLUNGER	27.5	12.5	12.5	90%				•	<b>*</b>	<b>+</b>	<b>+</b>	
	245	PLUNGER PLUNGER	27.5	12.5	12.5	90%	•	•	•	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	
	245	PLUNGER	27.5	12.5	12.5 12.5	90% 90%	•	•	<b>*</b>	•	<b>*</b>	•	•	
	245	PLUNGER	27.5 27.5	12.5	12.5	90%	•	•	•	•	<b>*</b>	•	•	
	245 245	PLUNGER	27.5	12.5	12.5	90%	•	•	•	•	•	•	•	
	245	PLUNGER	27.5	12.5	12.5	90%	•	•	•	•	•	•	•	
	425	PISTON	30.5	17.0	13.5	85%	•							
	425	PISTON	30.5	17.0	13.5	85%	•							
	325	PISTON	30.0	14.0	12.5	90%	•	•	•					
	325	PISTON	30.0	14.0	12.5	90%	•	•	•					
	325	PISTON	30.0	14.0	12.5	90%	•	•	•					
	350	PLUNGER	30.0	14.0	12.5	90%				•	•	+	•	
	350	PLUNGER	30.0	14.0	12.5	90%				•	•	+	•	
	350	PLUNGER	30.0	14.0	12.5	90%	•	•	•	•	•	•	•	
	350	PLUNGER	30.0	14.0	12.5	90%	<b>*</b>	•	•	<b>*</b>	•	+	•	
	350	PLUNGER	30.0	14.0	12.5	90%	•	•	•	•	•	+	•	
	350	PLUNGER	30.0	14.0	12.5	90%	•	•	•	<b>*</b>	•	+	•	
	550	PLUNGER	33.0	17.0	17.0	90%				•	•	+	•	
	550	PLUNGER	33.0	17.0	17.0	90%				<b>+</b>	<b>*</b>	+	<b>+</b>	
	550	PLUNGER	33.0	17.0	17.0	90%			_	<b>+</b>	<b>*</b>	+	<b>+</b>	
	550	PLUNGER BOTH	33.0	17.0	17.0	90%	_	_	<b>*</b>	<b>*</b>	<b>*</b>	<b>+</b>	+	
	550 550	ВОТН	33.0	17.0	17.0 17.0	90% 90%	<b>*</b>	•	•	<b>*</b>	<b>*</b>	<b>*</b>	*	
	550 550	ВОТН	33.0 33.0	17.0 17.0	17.0	90%	•	•	•	•	•	•	•	
	550	ВОТН	33.0	17.0	17.0	90%	•	•	•	•	<b>*</b>	•	•	
	550	ВОТН	33.0	17.0	17.0	90%	•	•	•	•	•	•	•	j
	کرر		یرر	-/.5	-/.5	, , , , ,	<u> </u>	<u> </u>	<u> </u>			<u> </u>		•

# 37 – 117 HP Pump Specifications

				d /	K	gots per Res	<b>Ition</b>	turber of Chira	/sis/
	5 /		ad Pressure Ipsil Continuous Dut	intermittent Di	•	Res	al Dianet	er (in) Cylin	00/
Pumps	erie		. Press	ermite		as per	giame.	/set of	(in)
OUMP	Model	, agis	Cartifulty	Internite	(all	on		und Stroke	' /
			CPM @ con PPM						$\leftarrow$
L11	L1114 L1118	2,500 1,500	21.5 GPM @ 900 RPM 35.5 GPM @ 900 RPM	30.5 GPM @ 1275 RPM 50.2 GPM @ 1275 RPM	0.0239	1.750 2.250	3	2.75	
37/52 HP	L1110	1,000	53.0 GPM @ 900 RPM	75.1 GPM @ 1275 RPM	0.0589	2.750	3	2.75 2.75	
	L1214	2,500	30.5 GPM @ 325 RPM	37.5 GPM @ 400 RPM	0.0937	1.750	3	3.00	
L12	L1218	1,500	50.3 GPM @ 325 RPM	62.0 GPM @ 400 RPM	0.1549	2.250	3	3.00	
49/61 HP	L1222	1,000	75.2 GPM @ 325 RPM	92.6 GPM @ 400 RPM	0.2314	2.750	3	3.00	
	M1207	10,000	9.4 GPM @ 400 RPM	11.7 GPM @ 500 RPM	0.0234	0.875	3	3.00	
	M1208	7,600	12.2 GPM @ 400 RPM	15.3 GPM @ 500 RPM	0.0306	1.000	3	3.00	
	M1210	4,900	19.1 GPM @ 400 RPM	23.9 GPM @ 500 RPM	0.0478	1.250	3	3.00	
	M1212	3,400	27.5 GPM @ 400 RPM	34.4 GPM @ 500 RPM	0.0688	1.500	3	3.00	
M12	M1214	2,500	37.5 GPM @ 400 RPM	46.9 GPM @ 500 RPM	0.0937	1.750	3	3.00	
62/77 HP	M1216	1,900	49.0 GPM @ 400 RPM	61.2 GPM @ 500 RPM	0.1224	2.000	3	3.00	
	M1218	1,500	62.0 GPM @ 400 RPM	77.5 GPM @ 500 RPM	0.1549	2.250	3	3.00	
	M1220	1,250	76.5 GPM @ 400 RPM	95.6 GPM @ 500 RPM	0.1912	2.500	3	3.00	
	M1222	1,000	92.6 GPM @ 400 RPM	115.7 GPM @ 500 RPM	0.2314	2.750	3	3.00	
	M1224	850	110.2 GPM @ 400 RPM	137.7 GPM @ 500 RPM	0.2754	3.000	3	3.00	
	L1614	2,500	34.9 GPM @ 1100 RPM	46.0 GPM @ 1450 RPM	0.0317	1.750	3	4.00	
L16	L1616	2,100	45.5 GPM @ 1100 RPM	60.0 GPM @ 1450 RPM	0.0414	2.000	3	4.00	
66/87 HP	L1618	1,650	57.6 GPM @ 1100 RPM	76.0 GPM @ 1450 RPM	0.0524	2.250	3	4.00	-
	L1622	1,100	86.1 GPM @ 1100 RPM	113.5 GPM @ 1450 RPM	0.0783	2.750	3	4.00	
	M1408	10,000	13.4 GPM @ 375 RPM	15.5 GPM @ 425 RPM	0.0357	1.000	3	3.50	4
	M1410	6,500	20.9 GPM @ 375 RPM	23.7 GPM @ 425 RPM	0.0558	1.250	3	3.50	
	M1412	4,500	30.1 GPM @ 375 RPM	34.1 GPM @ 425 RPM	0.0803	1.500	3	3.50	-
	M1414	3,300	41.0 GPM @ 375 RPM	46.5 GPM @ 425 RPM	0.1093	1.750	3	3.50	
	M1416	2,500	53.6 GPM @ 375 RPM	60.7 GPM @ 425 RPM	0.1428	2.000	3	3.50	
M14 88/104 HP	M1418	2,000	67.8 GPM @ 375 RPM	76.8 GPM @ 425 RPM	0.1807	2.250	3	3.50	
00/104 111	M1420	1,600	83.7 GPM @ 375 RPM	94.8 GPM @ 425 RPM	0.2231	2.580	3	3.50	
	M1422	1,350	101.3 GPM @ 375 RPM	114.8 GPM @ 425 RPM	0.2700	2.750	3	3.50	
	M1424	1,150	120.5 GPM @ 375 RPM	136.6 GPM @ 425 RPM	0.3213	3.000	3	3.50	+
	M1426	1,000	141.4 GPM @ 375 RPM 164.0 GPM @ 375 RPM	160.3 GPM @ 425 RPM	0.3771	3.250	3	3.50	
	M1428	825	, 0,,,,	185.9 GPM @ 425 RPM 213.4 GPM @ 425 RPM	0.4373	3.500	3	3.50	
	M1430 M1609	725	188.3 GPM @ 375 RPM 18.1 GPM @ 350 RPM	21.9 GPM @ 425 RPM	0.5020	3.750	3	3.50	
	M1610	10,000 8,000	22.3 GPM @ 350 RPM	27.1 GPM @ 425 RPM	0.0516	1.125 1.250	3	4.00 4.00	
	M1612	5,500	32.1 GPM @ 350 RPM	39.0 GPM @ 425 RPM	0.0918	1.500	3	4.00	
	M1614	4,065	43.7 GPM @ 350 RPM	53.1 GPM @ 425 RPM	0.1249	1.750	3	4.00	1
	M1616	3,115	57.1 GPM @ 350 RPM	69.4 GPM @ 425 RPM	0.1632	2.000	3	4.00	
	M1618	2,460	72.3 GPM @ 350 RPM	87.8 GPM @ 425 RPM	0.2065	2.250	3	4.00	
	M1620	1,990	89.3 GPM @ 350 RPM	108.4 GPM @ 425 RPM	0.2550	2.500	3	4.00	
M16	M1622	1,650	108.0 GPM @ 350 RPM	131.1 GPM @ 425 RPM	0.3085	2.750	3	4.00	
117/142 HP	M1624	1,385	128.5 GPM @ 350 RPM	156.1 GPM @ 425 RPM	0.3672	3.000	3	4.00	
	M1626	1,180	150.8 GPM @ 350 RPM	183.1 GPM @ 425 RPM	0.4309	3.250	3	4.00	
	M1628	1,015	174.9 GPM @ 350 RPM	212.4 GPM @ 425 RPM	0.4998	3.500	3	4.00	
	M1630	885	200.8 GPM @ 350 RPM	243.8 GPM @ 425 RPM	0.5737	3.750	3	4.00	
	M1632	775	228.5 GPM @ 350 RPM	277.4 GPM @ 425 RPM	0.6528	4.000	3	4.00	
					1				
	M1634	650	257.9 GPM @ 350 RPM	313.2 GPM @ 425 RPM	0.7369	4.250	3	4.00	

/		. /	/		/	/	/	/ .	/	Jun Bronze	/	A toriged S	inless of the sale	athon Steel stainless Steel
							edranical f	· oncy	/ ,	un Bronde		/ Ste	1,055	715th \ 1855 /
,								ficie,	yon /	mb/	ste/	aigo.	ainle	arbi (taini
		eight libs) Purns	,oe	noth in N		/	(d)	st Ductile	Min	ile.	3/ 29C	°/ 2053	"/ eg	/ 8/3/
		. dht.	(4)	in (i)	dth (in)	eight (in)	hanie	"Duc"	Alli	"Stall	corde/	COTOS	20180 /	LOIS /
	1	eigo Druus	/ e	No N	ide / 1	ei8) N	eci/		ast /	ast / 18	X / K	XX S	1 / 3	<b>Y</b>
				ľ	r						<u> </u>		$\leftarrow$	
	460	PISTON	32.5	17.0	14.5	85%				•	•			
	460	PISTON	32.5	17.0	14.5	85%	<b>*</b>	•		•	•			
	460	PISTON	23.5	17.0	14.5	85%	•	•		<b>*</b>	<b>+</b>			
	475	PISTON	34.0	20.0	13.0	90%		_		•	<b>+</b>			
	475	PISTON	34.0	20.0	13.0	90%	<b>*</b>	•		<b>+</b>	<b>+</b>			
	475	PISTON	34.0	20.0	13.0	90%	•	<b>*</b>		•	+	•	•	
	950	PLUNGER PLUNGER	37.5	22.0	20.5	90%				<b>+</b>	<b>+</b>	<b>+</b>	<b>+</b>	
	950	PLUNGER	37.5	22.0	20.5	90% 90%				<b>*</b>	<b>+</b>	<b>*</b>	+	
	950	PLUNGER	37.5	22.0	20.5		•		•	•	+	•	•	
	950	BOTH	37.5	22.0	20.5	90% 90%	<b>▼</b>	•	•	<b>*</b>	•	•	<b>*</b>	
	950	ВОТН	37.5	22.0	20.5	90%	•	•	•	•	•	•	•	
	950	ВОТН	37.5	22.0	20.5	90%	•	•	•	•	+	•	<b>*</b>	
	950 950	ВОТН	37·5 37·5	22.0	20.5	90%	•	•	•	•	•	•	•	
	950	ВОТН	37·5 37·5	22.0	20.5	90%	•	•	•	•	•	•	•	
	950	ВОТН	37·5	22.0	20.5	90%	•	•	•	•	<b>*</b>	•	•	
	705	PISTON	38.5	18.0	15.5	85%	•	·	, ,	•	<b>*</b>	·	·	
	705	PISTON	38.5	18.0	15.5	85%	•	•		•	•			
	705	PISTON	38.5	18.0	15.5	85%	•	•		•	•			
	705	PISTON	38.5	18.0	15.5	85%	•	•		•	•			
	1,800	PLUNGER	44.0	24.0	22.0	90%				•	+	<b>*</b>	+	
	1,800	PLUNGER	44.0	24.0	22.0	90%				•	+	•	•	
	1,800	PLUNGER	44.0	24.0	22.0	90%				•	+	•	•	
	1,800	PLUNGER	44.0	24.0	22.0	90%	•		•	•	+	+	•	
	1,800	ВОТН	44.0	24.0	22.0	90%	•	•	•	•	<b>*</b>	<b>*</b>	+	
	1,800	ВОТН	44.0	24.0	22.0	90%	•	•	•	•	+	+	+	
	1,800	ВОТН	44.0	24.0	22.0	90%	•	•	•	•	+	<b>*</b>	+	
	1,800	ВОТН	44.0	24.0	22.0	90%	•	•	•	•	+	<b>*</b>	•	
	1,800	ВОТН	44.0	24.0	22.0	90%	•	•	•	•	+	<b>*</b>	•	
	1,800	ВОТН	44.0	24.0	22.0	90%	*	•	•	•	+	<b>*</b>	+	
	1,800	ВОТН	44.0	24.0	22.0	90%	•	•	•	•	<b>*</b>	<b>*</b>	+	
	1,800	ВОТН	44.0	24.0	22.0	90%	•	•	•	•	+	+	+	
	2,400	PLUNGER	53.5	29.0	26.0	90%				•	+	+	+	
	2,400	PLUNGER	53.5	29.0	26.0	90%				•	<b>*</b>	•	•	
	2,400	PLUNGER	53.5	29.0	26.0	90%				•	+	•	+	
	2,400	PLUNGER	53.5	29.0	26.0	90%				•	•	•	•	
	2,400	PLUNGER	53.5	29.0	26.0	90%	<b>*</b>		<b>*</b>	<b>*</b>	+	•	+	
	2,400	ВОТН	53.5	29.0	26.0	90%	•	•	•	•	•	•	•	
	2,400	ВОТН	53.5	29.0	26.0	90%	<b>*</b>	•	<b>*</b>	•	•	•	•	
	2,400	ВОТН	53.5	29.0	26.0	90%	•	•	•	•	+	•	+	
	2,400	ВОТН	53.5	29.0	26.0	90%	•	•	<b>*</b>	•	•	•	+	
	2,400	ВОТН	53.5	29.0	26.0	90%	•	•	•	•	+	•	+	
	2,400	ВОТН	53.5	29.0	26.0	90%	•	•	•	•	+	•	•	
	2,400	ВОТН	53.5	29.0	26.0	90%	•	•	•	•	+	•	•	
	2,400	ВОТН	53.5	29.0	26.0	90%	•	•	•	•	•	•	•	
	2,400	ВОТН	53.5	29.0	26.0	90%	•	•	•	•	+	•	•	
	2,400	ВОТН	53.5	29.0	26.0	90%	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>+</b> _	'

## 150 – 265 HP Pump Specifications

Milisto   9,800   23,7 GPM @ 330 RPM   28,7 GPM @ 400 RPM   1,500   3   4,50						d		/ ion	/ /	5
Misbia   9,860   247 GPM @ 338 RPM   28,7 GPM @ 400 RPM   0.0777   1.250   3   4.50				re last	ont Du			dir	c (in) Calina	de.
Misbia   9,860   247 GPM @ 338 RPM   28,7 GPM @ 400 RPM   0.0777   1.250   3   4.50		eries		ressur inuou	mitte		oer Ru	met		m
Misbia   9,860   247 GPM @ 338 RPM   28,7 GPM @ 400 RPM   0.0777   1.250   3   4.50	ALP S	ade	> / ,	ed Pr Continacity	Internacity		ons	a Dia.	inbei de	, (
Misbia   9,860   247 GPM @ 338 RPM   28,7 GPM @ 400 RPM   0.0777   1.250   3   4.50	Pull	Mo	Rat	Case	Car	Car	/ 50	°/ ×	ul Str	
Mi814   5,000   46.4 GPM @ 330 RPM   56.2 GPM @ 400 RPM   0.1496   1.750   3   4.50			9,800	23.7 GPM @ 330 RPM	28.7 GPM @ 400 RPM					
M1816 3,800 60.6 GPM @ 330 RPM 73.4 GPM @ 400 RPM 0.1836 2.000 3 4.50 M1818 3,000 76.7 GPM @ 330 RPM 114.5 GPM @ 400 RPM 0.2869 4.2500 3 4.50 M1820 2.400 94.7 GPM @ 330 RPM 114.5 GPM @ 400 RPM 0.2869 2.2500 3 4.50 M1820 2.400 94.7 GPM @ 330 RPM 114.5 GPM @ 400 RPM 0.3867 1 2.2500 3 4.50 M1820 2.000 114.5 GPM @ 330 RPM 114.5 GPM @ 400 RPM 0.3471 4.250 3 4.50 M1828 1,200 185.6 GPM @ 330 RPM 138.5 GPM @ 400 RPM 0.4471 3,000 3 4.50 M1828 1,200 185.6 GPM @ 330 RPM 124.9 GPM @ 400 RPM 0.4848 3.250 3 4.50 M1828 1,200 185.6 GPM @ 330 RPM 224.9 GPM @ 400 RPM 0.4858 3.250 3 4.50 M1828 1,200 224.4 GPM @ 330 RPM 284.9 GPM @ 400 RPM 0.6453 3.750 3 4.50 M1824 1,000 224.4 GPM @ 330 RPM 283.2 GPM @ 400 RPM 0.6453 3.750 3 4.50 M1824 1,000 227.6 GPM @ 330 RPM 293.8 GPM @ 400 RPM 0.6453 3.750 3 4.50 M1824 1,000 227.6 GPM @ 330 RPM 371.6 GPM @ 400 RPM 0.6453 3.750 3 4.50 M1824 1,000 273.6 GPM @ 330 RPM 371.6 GPM @ 400 RPM 0.6453 3.750 3 4.50 M1824 1,000 273.6 GPM @ 330 RPM 371.6 GPM @ 400 RPM 0.6453 3.750 3 4.50 M1824 1,000 0.000 M1824 1,000		M1812	6,800	34.1 GPM @ 330 RPM	41.3 GPM @ 400 RPM	0.1033	1.500	3	4.50	
M1818         3,000         767 GPM @ 330 RPM         93.0 GPM @ 400 RPM         0.2324         2.250         3         4,50           M1820         2,400         947 GPM @ 330 RPM         114.8 GPM @ 400 RPM         0.3471         2750         3         4,50           M18         180,200         14.5 GPM @ 330 RPM         118.6 GPM @ 400 RPM         0.3471         2750         3         4,50           M1826         1,400         160.0 GFM @ 330 RPM         193.0 GPM @ 400 RPM         0.4131         3.000         3         4,50           M1828         1,200         186.5 GPM @ 330 RPM         193.0 GPM @ 400 RPM         0.6623         3.500         3         4,50           M1830         1,100         213.0 GPM @ 330 RPM         224.9 GPM @ 400 RPM         0.6523         3.500         3         4,50           M1832         1,000         242.4 GPM @ 330 RPM         331.6 GPM @ 400 RPM         0.8291         4,250         3         4,50           M1834         800         273.6 GPM @ 330 RPM         331.6 GPM @ 400 RPM         0.8291         4,250         3         4,50           M1834         800         273.6 GPM @ 330 RPM         331.6 GPM @ 425 RPM         0.8061         1.125         5         4,00		M1814	5,000	46.4 GPM @ 330 RPM	56.2 GPM @ 400 RPM	0.1406	1.750	3	4.50	
M1820 2,400 947 GPM @ 330 RPM 114,8 GPM @ 400 RPM 0,2869 2,500 3 4,50   M1822 2,000 114,5 GPM @ 330 RPM 193,8 GPM @ 400 RPM 0,4131 3,000 3 4,50   M1826 1,400 160.0 GPM @ 330 RPM 193,9 GPM @ 400 RPM 0,4131 3,000 3 4,50   M1826 1,400 160.0 GPM @ 330 RPM 193,9 GPM @ 400 RPM 0,4848 3,250 3 4,50   M1828 1,100 185,6 GPM @ 330 RPM 193,9 GPM @ 400 RPM 0,4848 3,250 3 4,50   M1832 1,000 2,42.4 GPM @ 330 RPM 293,2 GPM @ 400 RPM 0,4645 3,750 3 4,50   M1832 1,000 2,42.4 GPM @ 330 RPM 293,2 GPM @ 400 RPM 0,4645 3,750 3 4,50   M1834 800 273,6 GPM @ 330 RPM 331.6 GPM @ 400 RPM 0,4645 3,750 3 4,50   M1834 750 301 GPM @ 330 RPM 331.6 GPM @ 400 RPM 0,4645 3,750 3 4,50   M1836 750 360 GPM @ 330 RPM 331.6 GPM @ 400 RPM 0,4645 3,750 3 4,50   M1836 750 360 GPM @ 330 RPM 331.6 GPM @ 400 RPM 0,493 4,50 0 3 4,50   M1836 750 360 GPM @ 330 RPM 371.6 GPM @ 400 RPM 0,493 4,50 0 3 4,50   M1836 750 360 GPM @ 350 RPM 331.6 GPM @ 400 RPM 0,493 4,50 0 3 4,50   M1836 750 360 GPM @ 350 RPM 36.6 GPM @ 425 RPM 0,0861 1,125 5 4,00   M1836 M 3,100 37.2 GPM @ 350 RPM 451 GPM @ 425 RPM 0,163 1,50 0 5 4,00   M1614 4,160 72.9 GPM @ 350 RPM 88.5 GPM @ 425 RPM 0,163 1,50 0 5 4,00   M1614 4,160 72.9 GPM @ 350 RPM 163 GPM @ 425 RPM 0,163 1,50 0 5 4,00   M1616 3,190 95.2 GPM @ 350 RPM 163 GPM @ 425 RPM 0,240 2,000 5 4,00   M1616 M 3,190 95.2 GPM @ 350 RPM 163 GPM @ 425 RPM 0,3442 2,25 0 5 4,00   M1626 1,1210 2,040 148.8 GPM @ 350 RPM 186.6 GPM @ 425 RPM 0,3442 2,25 0 5 4,00   M1626 1,1210 251.4 GPM @ 350 RPM 186.6 GPM @ 425 RPM 0,3422 2,50 0 5 4,00   M1626 1,1210 251.4 GPM @ 350 RPM 260.1 GPM @ 425 RPM 0,3422 2,50 0 5 4,00   M1626 1,1210 251.4 GPM @ 350 RPM 260.1 GPM @ 425 RPM 0,3422 2,50 0 5 4,00   M1626 1,1210 251.4 GPM @ 350 RPM 260.1 GPM @ 425 RPM 0,3422 2,50 0 5 4,00   M1626 1,1210 251.4 GPM @ 350 RPM 260.1 GPM @ 425 RPM 0,3422 2,50 0 5 4,00   M1626 1,1210 251.4 GPM @ 350 RPM 260.1 GPM @ 425 RPM 0,3620 3,750 5 4,00   M1626 1,1210 251.4 GPM @ 350 RPM 260.1 GPM @ 425 RPM 0,3620 3,750 5 4,00   M1626 1,1210 251.4 GPM @ 350 RPM 260.1 GPM @ 425 RPM 0,3620 3,750		M1816	3,800	60.6 GPM @ 330 RPM	73.4 GPM @ 400 RPM	0.1836	2.000	3	4.50	
M18   M182			3,000	76.7 GPM @ 330 RPM	,,,	0.2324	2.250	3	4.50	
150/190 HP			2,400			0.2869	2.500	3	4.50	
Mis26			2,000	114.5 GPM @ 330 RPM	138.8 GPM @ 400 RPM	0.3471	2.750	3	4.50	
M1828	150/190 HP		1,700				3.000	3	4.50	
M1830			1,400				3.250	3	4.50	
M1832			1,200				3.500	3	4.50	
M1834			1,100	<u> </u>		0.6455	3.750	3	4.50	
M1836		,			/5 0 1		4.000	3	4.50	
Q1609							4.250	3		
Q1610							4.500		4.50	
Q1612   5,650   53.6 GPM @ 350 RPM   65.0 GPM @ 425 RPM   0.1530   1.500   5   4.00		. /			0,0				4.00	
Q1614		-								
Q1616 3,190 95.2 GPM @ 350 RPM 115.6 GPM @ 425 RPM 0.2720 2.000 5 4.00   Q1618 2,520 120.5 GPM @ 350 RPM 146.3 GPM @ 425 RPM 0.3442 2.250 5 4.00   Q1620 2,040 148.8 GPM @ 350 RPM 180.6 GPM @ 425 RPM 0.4250 2.500 5 4.00   Q1622 1,690 180.0 GPM @ 350 RPM 281.5 GPM @ 425 RPM 0.6120 3.000 5 4.00   Q1624 1,420 214.2 GPM @ 350 RPM 260.1 GPM @ 425 RPM 0.6120 3.000 5 4.00   Q1626 1,210 251.4 GPM @ 350 RPM 260.1 GPM @ 425 RPM 0.6120 3.000 5 4.00   Q1628 1,040 291.6 GPM @ 350 RPM 354.0 GPM @ 425 RPM 0.6120 3.000 5 4.00   Q1630 910 334.7 GPM @ 350 RPM 406.4 GPM @ 425 RPM 0.9562 3.750 5 4.00   Q1631 800 380.8 GPM @ 350 RPM 406.4 GPM @ 425 RPM 0.9562 3.750 5 4.00   Q1632 800 380.8 GPM @ 350 RPM 406.4 GPM @ 425 RPM 0.9562 3.750 5 4.00   Q1634 710 429.9 GPM @ 350 RPM 522.0 CPM @ 425 RPM 1.0880 4.00 5 4.00   Q1636 630 482.0 GPM @ 350 RPM 522.0 CPM @ 425 RPM 1.2282 4.250 5 4.00   Q1636 630 482.0 GPM @ 350 RPM 558.2 GPM @ 425 RPM 1.2282 4.250 5 5 4.00   Q1811 8.400 47.7 GPM @ 330 RPM 57.8 GPM @ 400 RPM 0.1446 1.375 5 4.50   Q1812 7,100 56.8 GPM @ 330 RPM 57.8 GPM @ 400 RPM 0.1446 1.375 5 4.50   Q1814 5,200 77.3 GPM @ 330 RPM 93.7 GPM @ 400 RPM 0.3832 1.750 5 4.50   Q1818 3,100 21.8 GPM @ 330 RPM 122.4 GPM @ 400 RPM 0.3832 2.250 5 4.50   Q1820 2.500 157.8 GPM @ 330 RPM 191.2 GPM @ 400 RPM 0.3832 2.250 5 4.50   Q1822 2,100 190.9 GPM @ 330 RPM 191.2 GPM @ 400 RPM 0.6885 3.000 5 4.50   Q1824 1,500 227.2 GPM @ 330 RPM 231.4 GPM @ 400 RPM 0.6885 3.000 5 4.50   Q1824 1,500 309.2 GPM @ 330 RPM 232.4 GPM @ 400 RPM 0.6885 3.000 5 4.50   Q1823 1,300 309.2 GPM @ 330 RPM 374.8 GPM @ 400 RPM 0.9371 3.500 5 4.50   Q1832 1,000 403.9 GPM @ 330 RPM 489.6 GPM @ 400 RPM 0.9371 3.500 5 4.50   Q1832 1,000 403.9 GPM @ 330 RPM 489.6 GPM @ 400 RPM 1.0758 3.750 5 4.50   Q1832 1,000 403.9 GPM @ 330 RPM 489.6 GPM @ 400 RPM 1.2240 4.000 5 4.50   Q1834 900 456.0 GPM @ 330 RPM 552.7 GPM @ 400 RPM 1.2240 4.000 5 4.50   Q1834 900 456.0 GPM @ 330 RPM 552.7 GPM @ 400 RPM 1.3818 4.250 5 5 4.50   Q1834 900 456.0 GPM @ 330 RPM 552.7 GPM @ 400 RPM 1.3818 4.250 5 5 4.										
Q1618		•	,						·	
Q16         Q1620         2,040         148.8 GPM @ 350 RPM         180.6 GPM @ 425 RPM         0.4250         2,500         5         4.00           198/240 HP         Q1622         1,690         180.0 GPM @ 350 RPM         281.5 GPM @ 425 RPM         0.5142         2.750         5         4.00           Q1624         1,420         214.2 GPM @ 350 RPM         260.1 GPM @ 425 RPM         0.6120         3.000         5         4.00           Q1628         1,040         291.6 GPM @ 350 RPM         260.1 GPM @ 425 RPM         0.6120         3.000         5         4.00           Q1630         910         334.7 GPM @ 350 RPM         496.4 GPM @ 425 RPM         0.9562         3.750         5         4.00           Q1632         800         380.8 GPM @ 350 RPM         462.4 GPM @ 425 RPM         1.0880         4.00         5         4.00           Q1634         710         429.9 GPM @ 350 RPM         522.0 GPM @ 425 RPM         1.0880         4.00         5         4.00           Q1636         630         482.0 GPM @ 350 RPM         57.8 GPM @ 425 RPM         1.2282         4.250         5         4.00           Q1811         8.400         47.7 GPM @ 350 RPM         57.8 GPM @ 425 RPM         1.3770         4.500         5 <td></td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td></td> <td>1</td> <td></td> <td></td>						,		1		
Q16 198/240 HP         Q1622         1,690         180.0 GPM @ 350 RPM         281.5 GPM @ 425 RPM         0.5142         2.750         5         4.00           Q1624         1,420         214.2 GPM @ 350 RPM         260.1 GPM @ 425 RPM         0.6120         3.000         5         4.00           Q1626         1,210         251.4 GPM @ 350 RPM         260.1 GPM @ 425 RPM         0.6120         3.000         5         4.00           Q1630         910         3347 GPM @ 350 RPM         354.0 GPM @ 425 RPM         0.8330         3.500         5         4.00           Q1632         800         380.8 GPM @ 350 RPM         462.4 GPM @ 425 RPM         0.9562         3.750         5         4.00           Q1634         710         429.9 GPM @ 350 RPM         522.0 GPM @ 425 RPM         1.0880         4.00         5         4.00           Q1636         630         482.0 GPM @ 350 RPM         522.0 GPM @ 425 RPM         1.2882         4.250         5         4.00           Q1811         8,400         477 GPM @ 350 RPM         57.8 GPM @ 450 RPM         0.1446         1.375         5         4.50           Q1812         7,100         56.8 GPM @ 330 RPM         93.7 GPM @ 400 RPM         0.1721         1.500         5         4.50										
Q1624	Q16	•		, , ,	0,7				·	
Q1626         1,210         251.4 GPM @ 350 RPM         260.1 GPM @ 425 RPM         0.6120         3.000         5         4.00           Q1628         1,040         291.6 GPM @ 350 RPM         354.0 GPM @ 425 RPM         0.8330         3.500         5         4.00           Q1630         910         334.7 GPM @ 350 RPM         406.4 GPM @ 425 RPM         0.9562         3.750         5         4.00           Q1632         800         380.8 GPM @ 350 RPM         462.4 GPM @ 425 RPM         1.0880         4.00         5         4.00           Q1634         710         429.9 GPM @ 350 RPM         522.0 GPM @ 425 RPM         1.2282         4.250         5         4.00           Q1636         630         482.0 GPM @ 350 RPM         585.2 GPM @ 425 RPM         1.3770         4.500         5         4.00           Q1811         8,400         47.7 GPM @ 350 RPM         57.8 GPM @ 420 RPM         0.1446         1.375         5         4.50           Q1812         7,100         56.8 GPM @ 330 RPM         93.7 GPM @ 400 RPM         0.1721         1.500         5         4.50           Q1814         5,200         77.3 GPM @ 330 RPM         122.4 GPM @ 400 RPM         0.3362         2.250         5         4.50	198/240 HP									
Q1628		-								
Q1630 910 334.7 GPM @ 350 RPM 406.4 GPM @ 425 RPM 0.9562 3.750 5 4.00  Q1632 800 380.8 GPM @ 350 RPM 462.4 GPM @ 425 RPM 1.0880 4.00 5 4.00  Q1634 710 429.9 GPM @ 350 RPM 522.0 GPM @ 425 RPM 1.2282 4.250 5 4.00  Q1636 630 482.0 GPM @ 350 RPM 585.2 GPM @ 425 RPM 1.3770 4.500 5 4.00  Q1811 8,400 47.7 GPM @ 330 RPM 57.8 GPM @ 400 RPM 0.1446 1.375 5 4.50  Q1812 7,100 56.8 GPM @ 330 RPM 68.8 GPM @ 400 RPM 0.1721 1.500 5 4.50  Q1814 5,200 77.3 GPM @ 330 RPM 93.7 GPM @ 400 RPM 0.2343 1.750 5 4.50  Q1816 4,000 101.0 GPM @ 330 RPM 122.4 GPM @ 400 RPM 0.3060 2.000 5 4.50  Q1818 3,100 217.8 GPM @ 330 RPM 154.9 GPM @ 400 RPM 0.3872 2.250 5 4.50  Q1820 2,500 157.8 GPM @ 330 RPM 191.2 GPM @ 400 RPM 0.4781 2.500 5 4.50  Q1822 2,100 190.9 GPM @ 330 RPM 231.4 GPM @ 400 RPM 0.5785 2.750 5 4.50  Q1824 1,800 227.2 GPM @ 330 RPM 275.4 GPM @ 400 RPM 0.6885 3.000 5 4.50  Q1828 1,300 309.2 GPM @ 330 RPM 374.8 GPM @ 400 RPM 0.9371 3.500 5 4.50  Q1832 1,000 403.9 GPM @ 330 RPM 430.3 GPM @ 400 RPM 1.0758 3.750 5 4.50  Q1832 1,000 403.9 GPM @ 330 RPM 480.6 GPM @ 400 RPM 1.2240 4.000 5 4.50  Q1834 900 456.0 GPM @ 330 RPM 552.7 GPM @ 400 RPM 1.2240 4.000 5 4.50		-			0.7				·	
Q1632         800         380.8 GPM @ 350 RPM         462.4 GPM @ 425 RPM         1.0880         4.00         5         4.00           Q1634         710         429.9 GPM @ 350 RPM         522.0 GPM @ 425 RPM         1.2282         4.250         5         4.00           Q1636         630         482.0 GPM @ 350 RPM         585.2 GPM @ 425 RPM         1.3770         4.500         5         4.00           Q1811         8.400         47.7 GPM @ 330 RPM         57.8 GPM @ 400 RPM         0.1446         1.375         5         4.50           Q1812         7,100         56.8 GPM @ 330 RPM         68.8 GPM @ 400 RPM         0.1721         1.500         5         4.50           Q1814         5,200         77.3 GPM @ 330 RPM         93.7 GPM @ 400 RPM         0.2343         1.750         5         4.50           Q1816         4,000         101.0 GPM @ 330 RPM         122.4 GPM @ 400 RPM         0.3060         2.000         5         4.50           Q1818         3,100         217.8 GPM @ 330 RPM         191.2 GPM @ 400 RPM         0.3872         2.250         5         4.50           Q1820         2,500         157.8 GPM @ 330 RPM         231.4 GPM @ 400 RPM         0.4781         2.500         5         4.50			· ·	, 0 55						
Q1634         710         429.9 GPM @ 350 RPM         522.0 GPM @ 425 RPM         1.2282         4.250         5         4.00           Q1636         630         482.0 GPM @ 350 RPM         585.2 GPM @ 425 RPM         1.3770         4.500         5         4.00           Q1811         8,400         47.7 GPM @ 330 RPM         57.8 GPM @ 400 RPM         0.1446         1.375         5         4.50           Q1812         7,100         56.8 GPM @ 330 RPM         68.8 GPM @ 400 RPM         0.1721         1.500         5         4.50           Q1814         5,200         77.3 GPM @ 330 RPM         93.7 GPM @ 400 RPM         0.2343         1.750         5         4.50           Q1816         4,000         101.0 GPM @ 330 RPM         122.4 GPM @ 400 RPM         0.3060         2.000         5         4.50           Q1818         3,100         217.8 GPM @ 330 RPM         154.9 GPM @ 400 RPM         0.3872         2.250         5         4.50           Q1820         2,500         157.8 GPM @ 330 RPM         191.2 GPM @ 400 RPM         0.4781         2.500         5         4.50           Q1822         2,100         190.9 GPM @ 330 RPM         231.4 GPM @ 400 RPM         0.5785         2.750         5         4.50						1.5				
Q1811 8,400 47.7 GPM @ 330 RPM 57.8 GPM @ 400 RPM 0.1446 1.375 5 4.50  Q1812 7,100 56.8 GPM @ 330 RPM 68.8 GPM @ 400 RPM 0.1721 1.500 5 4.50  Q1814 5,200 77.3 GPM @ 330 RPM 93.7 GPM @ 400 RPM 0.2343 1.750 5 4.50  Q1816 4,000 101.0 GPM @ 330 RPM 122.4 GPM @ 400 RPM 0.3060 2.000 5 4.50  Q1818 3,100 217.8 GPM @ 330 RPM 154.9 GPM @ 400 RPM 0.3872 2.250 5 4.50  Q1820 2,500 157.8 GPM @ 330 RPM 191.2 GPM @ 400 RPM 0.4781 2.500 5 4.50  Q1822 2,100 190.9 GPM @ 330 RPM 231.4 GPM @ 400 RPM 0.5785 2.750 5 4.50  Q1824 1,800 227.2 GPM @ 330 RPM 275.4 GPM @ 400 RPM 0.6885 3.000 5 4.50  Q1828 1,300 309.2 GPM @ 330 RPM 323.2 GPM @ 400 RPM 0.8080 3.250 5 4.50  Q1830 1,100 355.0 GPM @ 330 RPM 430.3 GPM @ 400 RPM 0.9371 3.500 5 4.50  Q1832 1,000 403.9 GPM @ 330 RPM 489.6 GPM @ 400 RPM 1.2240 4.000 5 4.50  Q1834 900 456.0 GPM @ 330 RPM 552.7 GPM @ 400 RPM 1.3818 4.250 5 4.50								1		
Q1811 8,400 47.7 GPM @ 330 RPM 57.8 GPM @ 400 RPM 0.1446 1.375 5 4.50  Q1812 7,100 56.8 GPM @ 330 RPM 68.8 GPM @ 400 RPM 0.1721 1.500 5 4.50  Q1814 5,200 77.3 GPM @ 330 RPM 93.7 GPM @ 400 RPM 0.2343 1.750 5 4.50  Q1816 4,000 101.0 GPM @ 330 RPM 122.4 GPM @ 400 RPM 0.3060 2.000 5 4.50  Q1818 3,100 217.8 GPM @ 330 RPM 154.9 GPM @ 400 RPM 0.3872 2.250 5 4.50  Q1820 2,500 157.8 GPM @ 330 RPM 191.2 GPM @ 400 RPM 0.4781 2.500 5 4.50  Q1822 2,100 190.9 GPM @ 330 RPM 231.4 GPM @ 400 RPM 0.5785 2.750 5 4.50  Q1824 1,800 227.2 GPM @ 330 RPM 275.4 GPM @ 400 RPM 0.6885 3.000 5 4.50  Q1826 1,500 266.6 GPM @ 330 RPM 323.2 GPM @ 400 RPM 0.8080 3.250 5 4.50  Q1828 1,300 309.2 GPM @ 330 RPM 374.8 GPM @ 400 RPM 0.9371 3.500 5 4.50  Q1830 1,100 355.0 GPM @ 330 RPM 430.3 GPM @ 400 RPM 1.0758 3.750 5 4.50  Q1832 1,000 403.9 GPM @ 330 RPM 489.6 GPM @ 400 RPM 1.2240 4.000 5 4.50  Q1834 900 456.0 GPM @ 330 RPM 552.7 GPM @ 400 RPM 1.3818 4.250 5 4.50										
Q1812       7,100       56.8 GPM @ 330 RPM       68.8 GPM @ 400 RPM       0.1721       1.500       5       4.50         Q1814       5,200       77.3 GPM @ 330 RPM       93.7 GPM @ 400 RPM       0.2343       1.750       5       4.50         Q1816       4,000       101.0 GPM @ 330 RPM       122.4 GPM @ 400 RPM       0.3060       2.000       5       4.50         Q1818       3,100       217.8 GPM @ 330 RPM       154.9 GPM @ 400 RPM       0.3872       2.250       5       4.50         Q1820       2,500       157.8 GPM @ 330 RPM       191.2 GPM @ 400 RPM       0.4781       2.500       5       4.50         Q1822       2,100       190.9 GPM @ 330 RPM       231.4 GPM @ 400 RPM       0.5785       2.750       5       4.50         Q1824       1,800       227.2 GPM @ 330 RPM       275.4 GPM @ 400 RPM       0.6885       3.000       5       4.50         Q1826       1,500       266.6 GPM @ 330 RPM       323.2 GPM @ 400 RPM       0.8080       3.250       5       4.50         Q1830       1,100       355.0 GPM @ 330 RPM       374.8 GPM @ 400 RPM       1.0758       3.750       5       4.50         Q1832       1,000       403.9 GPM @ 330 RPM       430.3 GPM @ 400 RPM       1.2240 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>·</td> <td></td>									·	
Q1814 5,200 77.3 GPM @ 330 RPM 93.7 GPM @ 400 RPM 0.2343 1.750 5 4.50 Q1816 4,000 101.0 GPM @ 330 RPM 122.4 GPM @ 400 RPM 0.3060 2.000 5 4.50 Q1818 3,100 217.8 GPM @ 330 RPM 154.9 GPM @ 400 RPM 0.3872 2.250 5 4.50 Q1820 2,500 157.8 GPM @ 330 RPM 191.2 GPM @ 400 RPM 0.4781 2.500 5 4.50 Q1822 2,100 190.9 GPM @ 330 RPM 231.4 GPM @ 400 RPM 0.5785 2.750 5 4.50 Q1824 1,800 227.2 GPM @ 330 RPM 275.4 GPM @ 400 RPM 0.6885 3.000 5 4.50 Q1826 1,500 266.6 GPM @ 330 RPM 323.2 GPM @ 400 RPM 0.8080 3.250 5 4.50 Q1828 1,300 309.2 GPM @ 330 RPM 374.8 GPM @ 400 RPM 0.9371 3.500 5 4.50 Q1830 1,100 355.0 GPM @ 330 RPM 430.3 GPM @ 400 RPM 1.0758 3.750 5 4.50 Q1832 1,000 403.9 GPM @ 330 RPM 489.6 GPM @ 400 RPM 1.2240 4.000 5 4.50 Q1834 900 456.0 GPM @ 330 RPM 552.7 GPM @ 400 RPM 1.3818 4.250 5 4.50		-								
Q1816         4,000         101.0 GPM @ 330 RPM         122.4 GPM @ 400 RPM         0.3060         2.000         5         4.50           Q1818         3,100         217.8 GPM @ 330 RPM         154.9 GPM @ 400 RPM         0.3872         2.250         5         4.50           Q1820         2,500         157.8 GPM @ 330 RPM         191.2 GPM @ 400 RPM         0.4781         2.500         5         4.50           Q1822         2,100         190.9 GPM @ 330 RPM         231.4 GPM @ 400 RPM         0.5785         2.750         5         4.50           Q1824         1,800         227.2 GPM @ 330 RPM         275.4 GPM @ 400 RPM         0.6885         3.000         5         4.50           Q1826         1,500         266.6 GPM @ 330 RPM         323.2 GPM @ 400 RPM         0.8080         3.250         5         4.50           Q1828         1,300         309.2 GPM @ 330 RPM         374.8 GPM @ 400 RPM         0.9371         3.500         5         4.50           Q1830         1,100         355.0 GPM @ 330 RPM         430.3 GPM @ 400 RPM         1.0758         3.750         5         4.50           Q1832         1,000         403.9 GPM @ 330 RPM         489.6 GPM @ 400 RPM         1.2240         4.000         5         4.50			, , , , , , , , , , , , , , , , , , ,	0 00	- :					
Q18       3,100       217.8 GPM @ 330 RPM       154.9 GPM @ 400 RPM       0.3872       2.250       5       4.50         Q18       20       2,500       157.8 GPM @ 330 RPM       191.2 GPM @ 400 RPM       0.4781       2.500       5       4.50         Q1822       2,100       190.9 GPM @ 330 RPM       231.4 GPM @ 400 RPM       0.5785       2.750       5       4.50         Q1824       1,800       227.2 GPM @ 330 RPM       275.4 GPM @ 400 RPM       0.6885       3.000       5       4.50         Q1826       1,500       266.6 GPM @ 330 RPM       323.2 GPM @ 400 RPM       0.8080       3.250       5       4.50         Q1828       1,300       309.2 GPM @ 330 RPM       374.8 GPM @ 400 RPM       0.9371       3.500       5       4.50         Q1830       1,100       355.0 GPM @ 330 RPM       430.3 GPM @ 400 RPM       1.0758       3.750       5       4.50         Q1832       1,000       403.9 GPM @ 330 RPM       489.6 GPM @ 400 RPM       1.2240       4.000       5       4.50         Q1834       900       456.0 GPM @ 330 RPM       552.7 GPM @ 400 RPM       1.3818       4.250       5       4.50		-		1,70						
Q18       2,500       157.8 GPM @ 330 RPM       191.2 GPM @ 400 RPM       0.4781       2.500       5       4.50         Q18       Q1822       2,100       190.9 GPM @ 330 RPM       231.4 GPM @ 400 RPM       0.5785       2.750       5       4.50         Q1824       1,800       227.2 GPM @ 330 RPM       275.4 GPM @ 400 RPM       0.6885       3.000       5       4.50         Q1826       1,500       266.6 GPM @ 330 RPM       323.2 GPM @ 400 RPM       0.8080       3.250       5       4.50         Q1828       1,300       309.2 GPM @ 330 RPM       374.8 GPM @ 400 RPM       0.9371       3.500       5       4.50         Q1830       1,100       355.0 GPM @ 330 RPM       430.3 GPM @ 400 RPM       1.0758       3.750       5       4.50         Q1832       1,000       403.9 GPM @ 330 RPM       489.6 GPM @ 400 RPM       1.2240       4.000       5       4.50         Q1834       900       456.0 GPM @ 330 RPM       552.7 GPM @ 400 RPM       1.3818       4.250       5       4.50			i i							
Q18       Q1822       2,100       190.9 GPM @ 330 RPM       231.4 GPM @ 400 RPM       0.5785       2.750       5       4.50         Q1824       1,800       227.2 GPM @ 330 RPM       275.4 GPM @ 400 RPM       0.6885       3.000       5       4.50         Q1826       1,500       266.6 GPM @ 330 RPM       323.2 GPM @ 400 RPM       0.8080       3.250       5       4.50         Q1828       1,300       309.2 GPM @ 330 RPM       374.8 GPM @ 400 RPM       0.9371       3.500       5       4.50         Q1830       1,100       355.0 GPM @ 330 RPM       430.3 GPM @ 400 RPM       1.0758       3.750       5       4.50         Q1832       1,000       403.9 GPM @ 330 RPM       489.6 GPM @ 400 RPM       1.2240       4.000       5       4.50         Q1834       900       456.0 GPM @ 330 RPM       552.7 GPM @ 400 RPM       1.3818       4.250       5       4.50										
265/325 HP       Q1824       1,800       227.2 GPM @ 330 RPM       275.4 GPM @ 400 RPM       0.6885       3.000       5       4.50         Q1826       1,500       266.6 GPM @ 330 RPM       323.2 GPM @ 400 RPM       0.8080       3.250       5       4.50         Q1828       1,300       309.2 GPM @ 330 RPM       374.8 GPM @ 400 RPM       0.9371       3.500       5       4.50         Q1830       1,100       355.0 GPM @ 330 RPM       430.3 GPM @ 400 RPM       1.0758       3.750       5       4.50         Q1832       1,000       403.9 GPM @ 330 RPM       489.6 GPM @ 400 RPM       1.2240       4.000       5       4.50         Q1834       900       456.0 GPM @ 330 RPM       552.7 GPM @ 400 RPM       1.3818       4.250       5       4.50	018									
Q1826       1,500       266.6 GPM @ 330 RPM       323.2 GPM @ 400 RPM       0.8080       3.250       5       4.50         Q1828       1,300       309.2 GPM @ 330 RPM       374.8 GPM @ 400 RPM       0.9371       3.500       5       4.50         Q1830       1,100       355.0 GPM @ 330 RPM       430.3 GPM @ 400 RPM       1.0758       3.750       5       4.50         Q1832       1,000       403.9 GPM @ 330 RPM       489.6 GPM @ 400 RPM       1.2240       4.000       5       4.50         Q1834       900       456.0 GPM @ 330 RPM       552.7 GPM @ 400 RPM       1.3818       4.250       5       4.50										
Q1828       1,300       309.2 GPM @ 330 RPM       374.8 GPM @ 400 RPM       0.9371       3.500       5       4.50         Q1830       1,100       355.0 GPM @ 330 RPM       430.3 GPM @ 400 RPM       1.0758       3.750       5       4.50         Q1832       1,000       403.9 GPM @ 330 RPM       489.6 GPM @ 400 RPM       1.2240       4.000       5       4.50         Q1834       900       456.0 GPM @ 330 RPM       552.7 GPM @ 400 RPM       1.3818       4.250       5       4.50	3,3 3				,,,,					
Q1830       1,100       355.0 GPM @ 330 RPM       430.3 GPM @ 400 RPM       1.0758       3.750       5       4.50         Q1832       1,000       403.9 GPM @ 330 RPM       489.6 GPM @ 400 RPM       1.2240       4.000       5       4.50         Q1834       900       456.0 GPM @ 330 RPM       552.7 GPM @ 400 RPM       1.3818       4.250       5       4.50										
Q1832       1,000       403.9 GPM @ 330 RPM       489.6 GPM @ 400 RPM       1.2240       4.000       5       4.50         Q1834       900       456.0 GPM @ 330 RPM       552.7 GPM @ 400 RPM       1.3818       4.250       5       4.50										
Q1834 900 456.0 GPM @ 330 RPM 552.7 GPM @ 400 RPM 1.3818 4.250 5 4.50										
								1		
		Q1836		511.2 GPM @ 330 RPM	619.6 GPM @ 400 RPM	1.5491	4.500	5	4.50	

/	/		/		/	/	/	/ \	ron Laterini	/ 10		athorist of a	inless kee	Aron steed stainless steed
							edratical f	iency	/ /	in Bronte	/ e	/ Ste	(85)	on Str Ness
							/ 5	st Ductile	ron	ml	ssil /	arbo (x	ainit	stain!
		Mosi	we when	lin	m	in	aical V	, ctile	unin	ainle	s ded	/ sed 3	ged	/ 500 <sup>3</sup> /
		ight mp	`` /	SEN!	din	ight /	chair	A DU	ST AIR	asto/	Korb	KOLO/	XOT 6	Kore
	1	eight Mos Pump	100	neth in	dthin	eight (in)		8/0			. / 4	K 18	, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	2,400	PLUNGER	53.5	29.0	26.0	90%				+	•	•	•	
	2,400	PLUNGER	53.5	29.0	26.0	90%				<b>*</b>	•	•	<b>*</b>	
	2,400	PLUNGER	53.5	29.0	26.0	90%				•	•	<b>*</b>	+	
	2,400	PLUNGER	53.5	29.0	26.0	90%	•		•	•	•	•	•	
	2,400	PLUNGER	53.5	29.0	26.0	90%	•	+	•	+	•	•	+	
	2,400	ВОТН	53.5	29.0	26.0	90%	•	•	•	•	•	•	•	
	2,400	ВОТН	53.5	29.0	26.0	90%	•	•	•	•	•	•	+	
	2,400	ВОТН	53.5	29.0	26.0	90%	•	•	•	•	•	•	+	
	2,400	ВОТН	53.5	29.0	26.0	90%	<b>*</b>	+	+	•	<b>*</b>	<b>*</b>	+	
	2,400	ВОТН	53.5	29.0	26.0	90%	•	<b>+</b>	•	<b>+</b>	•	•	+	
	2,400	BOTH	53.5	29.0	26.0	90%	<b>+</b>	<b>+</b>	<b>+</b>	<b>+</b>	<b>*</b>	<b>*</b>	<b>+</b>	
	2,400	BOTH	53.5	29.0	26.0	90%	<b>*</b>	<b>+</b>	<b>+</b>	<b>+</b>	<b>*</b>	<b>*</b>	<b>+</b>	
	2,400	BOTH BOTH	53.5	29.0	26.0	90%	<b>*</b>	<b>*</b>	<b>*</b>	+	<b>+</b>	<b>*</b>	<b>*</b>	
	2,400	PLUNGER	53.5	29.0	26.0	90%		_	•	+	•	•	•	
	4,500	PLUNGER	53.5	52.0	27.0	90%				•	•	•	•	
	4,500	PLUNGER	53.5	52.0 52.0	27.0 27.0	90%				<b>*</b>	•	•	+	
	4,500	PLUNGER	53·5 53·5	52.0	27.0	90%				•	•	•	•	
	4,500	PLUNGER	53.5	52.0	27.0	90%		+	<b>*</b>	+	•	•	•	
	4,500	PLUNGER	53.5	52.0	27.0	90%		+	•	+	•	•	+	
	4,500	ВОТН	53.5	52.0	27.0	90%	•	+	+	•	•	•	+	
	4,500	вотн	53.5	52.0	27.0	90%	•	+	+	+	•	•	+	
	4,500	ВОТН	53.5	52.0	27.0	90%	<b>*</b>	+	<b>+</b>	+	•	<b>*</b>	<b>+</b>	
	4,500	ВОТН	53.5	52.0	27.0	90%	•	+	+	+	•	•	+	
	4,500	ВОТН	53.5	52.0	27.0	90%	+	+	+	+	•	•	+	
	4,500	ВОТН	53.5	52.0	27.0	90%	•	+	+	<b>*</b>	•	•	+	
	4,500	ВОТН	53.5	52.0	27.0	90%	•	+	+	+	•	•	+	
	4,500	ВОТН	53.5	52.0	27.0	90%	•	+	+	•	•	•	+	
	4,500	ВОТН	53.5	52.0	27.0	90%	•	•	•	•	•	•	+	
	4,500	PLUNGER	53.5	52.0	27.0	90%				+	•	•	•	
	4,500	PLUNGER	53.5	52.0	27.0	90%				+	•	•	+	
	4,500	PLUNGER	53.5	52.0	27.0	90%				•	•	•	+	
	4,500	PLUNGER	53.5	52.0	27.0	90%				•	•	•	+	
	4,500	PLUNGER	53.5	52.0	27.0	90%		•	•	•	<b>*</b>	•	+	
	4,500	ВОТН	53.5	52.0	27.0	90%	<b>*</b>	<b>+</b>	<b>+</b>	<b>+</b>	<b>*</b>	<b>*</b>	<b>+</b>	
	4,500	BOTH	53.5	52.0	27.0	90%	<b>+</b>	<b>+</b>	<b>+</b>	<b>+</b>	<b>*</b>	<b>*</b>	+	
	4,500	BOTH BOTH	53.5	52.0	27.0	90%	<b>+</b>	<b>+</b>	<b>+</b>	<b>+</b>	<b>*</b>	<b>*</b>	<b>+</b>	
	4,500	ВОТН	53.5	52.0	27.0	90% 90%	<b>*</b>	<b>+</b>	<b>+</b>	<b>+</b>	•	• •	<b>+</b>	
	4,500	ВОТН	53.5	52.0	27.0	90%	•	<b>*</b>	•	•	•	•	•	
	4,500 4,500	ВОТН	53·5 53·5	52.0 52.0	27.0 27.0	90%	•	+	<b>*</b>	+	•	•	<b>*</b>	
	4,500	ВОТН	53.5	52.0	27.0	90%	•	+	+	<b>*</b>	•	•	•	
	4,500	ВОТН	53.5	52.0	27.0	90%	•	•	<b>*</b>	<b>*</b>	•	•	<b>*</b>	
	т, ј	20111	73.3	المار	27.0	7070						· ·		

### 350 – 650 HP Pump Specifications

		/		/			/ ^		/
				<i>y</i> / <i>y</i>	B		Hior	/、/.	05° /
			183 / Dil	A DU	•	/	oll /	lin lin	00/
	.65		Sur Lious	ittern		/ Re	/ 8	er / KCHI	
Pumps	er.		ad Pressure Psill Continuous Dut	Internitent Du		ons per ker	d Diarret	er im Strake	(iv)
IMP	Model		ed. Con Jugar.	Inte apact		on /		impo roke	
80	Me	6.0	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	/ 001	\ Co	1 56		W/ 51	
	M2812	10,000	38.5 GPM @ 240 RPM	48.2 GPM @ 300 RPM	0.1606	1.500	3	7.00	
	M2814	10,000	52.5 GPM @ 240 RPM	65.6 GPM @ 300 RPM	0.2187	1.750	3	7.00	
	M2816	7,960	68.5 GPM @ 240 RPM	85.7 GPM @ 300 RPM	0.2856	2.000	3	7.00	
	M2818	6,300	86.8 GPM @ 240 RPM	108.5 GPM @ 300 RPM	0.3615	2.250	3	7.00	
	M2820	5,100	107.1 GPM @ 240 RPM	133.9 GPM @ 300 RPM	0.4462	2.500	3	7.00	
	M2822	4,200	129.6 GPM @ 240 RPM	162.0 GPM @ 300 RPM	0.5400	2.750	3	7.00	
	M2824	3,540	154.2 GPM @ 240 RPM	192.8 GPM @ 300 RPM	0.6426	3.000	3	7.00	
	M2826	3,015	181.0 GPM @ 240 RPM	226.3 GPM @ 300 RPM	0.7542	3.250	3	7.00	
	M2828	2,600	209.9 GPM @ 240 RPM	262.4 GPM @ 300 RPM	0.8746	3.500	3	7.00	
M28	M2830	2,260	241.0 GPM @ 240 RPM	301.2 GPM @ 300 RPM	1.0041	3.750	3	7.00	
350/440 HP	M2832	1,990	274.2 GPM @ 240 RPM	342.7 GPM @ 300 RPM	1.1424	4.000	3	7.00	
	M2834	1,760	309.5 GPM @ 240 RPM	386.9 GPM @ 300 RPM	1.2897	4.250	3	7.00	
	M2836	1,570	347.0 GPM @ 240 RPM	433.7 GPM @ 300 RPM	1.4458	4.500	3	7.00	
	M2838	1,400	386.6 GPM @ 240 RPM	483.3 GPM @ 300 RPM	1.6110	4.750	3	7.00	
	M2840	1,275	428.4 GPM @ 240 RPM	535.5 GPM @ 300 RPM	1.7850	5.000	3	7.00	
	M2842	1,155	472.3 GPM @ 240 RPM	590.4 GPM @ 300 RPM	1.9680	5.250	3	7.00	
	M2844	1,050	518.4 GPM @ 240 RPM	647.9 GPM @ 300 RPM	2.1598	5.500	3	7.00	
	M2846	960	566.6 GPM @ 240 RPM	708.2 GPM @ 300 RPM	2.3607	5.750	3	7.00	
	M2848	88o	616.9 GPM @ 240 RPM	771.1 GPM @ 300 RPM	2.5704	6.000	3	7.00	
	M2850	815	669.4 GPM @ 240 RPM	836.7 GPM @ 300 RPM	2.7891	6.250	3	7.00	
	Q2814	10,000	87.5 GPM @ 240 RPM	109.3 GPM @ 300 RPM	0.3644	1.750	5	7.00	
	Q2816	8,750	114.2 GPM @ 240 RPM	142.8 GPM @ 300 RPM	0.4760	2.000	5	7.00	
	Q2818	6,920	144.6 GPM @ 240 RPM	180.7 GPM @ 300 RPM	0.6024	2.250	5	7.00	
	Q2820	5,600	178.5 GPM @ 240 RPM	223.1 GPM @ 300 RPM	0.7437	2.500	5	7.00	
	Q2822	4,630	216.0 GPM @ 340 RPM	270.0 GPM @ 300 RPM	0.8999	2.750	5	7.00	
	Q2824	3,890	257.0 GPM @ 240 RPM	321.3 GPM @ 300 RPM	1.0710	3.000	5	7.00	
	Q2826	3,310	301.7 GPM @ 240 RPM	377.1 GPM @ 300 RPM	1.2569	3.250	5	7.00	
	Q2828	2,860	349.8 GPM @ 240 RPM	437.3 GPM @ 300 RPM	1.4577	3.500	5	7.00	
0.0	Q2830	2,490	401.6 GPM @ 240 RPM	502.0 GPM @ 300 RPM	1.6734	1.750	5	7.00	
Q28 650/800 HP	Q2832	2,190	457.0 GPM @ 240 RPM	571.2 GPM @ 300 RPM	1.9040	4.000	5	7.00	
030/000111	Q2834	1,940	515.9 GPM @ 240 RPM	644.8 GPM @ 300 RPM	2.1494	4.250	5	7.00	
	Q2836	1,730	578.3 GPM @ 240 RPM	722.9 GPM @ 300 RPM	2.4097	4.500	5	7.00	
	Q2838	1,550	644.4 GPM @ 240 RPM	805.5 GPM @ 300 RPM	2.6849	4.750	5	7.00	
	Q2840	1,400	714.0 GPM @ 240 RPM	892.5 GPM @ 300 RPM	2.9750	5.000	5	7.00	
	Q2842	1,270	787.2 GPM @ 240 RPM	984.0 GPM @ 300 RPM	3.2799	5.250	5	7.00	
	Q2844	1,160	863.9 GPM @ 240 RPM	1,079.9 GPM @ 300 RPM	3.5997	5.500	5	7.00	
	Q2846	1,060	944.3 GPM @ 240 RPM	1,180.3 GPM @ 300 RPM	3.9344	5.750	5	7.00	
	Q2848	970	1,028.2 GPM @ 240 RPM	1,285.2 GPM @ 300 RPM	4.2840	6.000	5	7.00	
	Q2850	900	1,115.6 GPM @ 240 RPM	1,394.5 GPM @ 300 RPM	4.6484	6.250	5	7.00	

				•	•	,	•	,	,	•			
			,	/,	/ ,	edranical f	ciency	<u>/</u>	Jun Bronze	(xee)	A KOTOS AN	steles and state of the state o	Aron Steel Stainless Steel
	(IDS)	upe	in	(m)	mi	.cale	Efficients (	ro. min	un Bronde	55/00	ard add	air sed C	sed stall
N'	eight libs Purne	4.	neth in	dth (in)	eight (in)	echani	ast Dill	ast Alli.	ast Stati	Koros /	xoros N	Yor &	Kors
									_ ×	/ ×	/ ×		
5,500	PLUNGER PLUNGER	75.0	40.0	36.0	90%				<b>+</b>	<b>*</b>	<b>*</b>	<b>+</b>	
5,500 5,500	PLUNGER	75.0 75.0	40.0 40.0	36.0 36.0	90% 90%				+	+	•	•	
5,500	PLUNGER	75.0	40.0	36.0	90%				+	+	+	+	
5,500	PLUNGER	75.0	40.0	36.0	90%				+	<b>*</b>	•	+	
5,500	PLUNGER	75.0	40.0	36.0	90%				+	<b>*</b>	•	+	
5,500	PLUNGER	75.0	40.0	36.0	90%				<b>+</b>	<b>*</b>	•	<b>*</b>	
5,500	PLUNGER	75.0	40.0	36.0	90%				•	<b>+</b>	•	•	
5,500	PLUNGER	75.0	40.0	36.0	90%				•	•	<b>+</b>	+	
5,500	BOTH	75.0	40.0	36.0	90%				<b>+</b>	<b>+</b>	<b>*</b>	+	
5,500	BOTH BOTH	75.0	40.0	36.0 36.0	90% 90%				+	+	<b>*</b>	+	
5,500 5,500	ВОТН	75.0 75.0	40.0 40.0	36.0	90%				•	+	•	•	
5,500	ВОТН	75.0	40.0	36.0	90%				+	<b>*</b>	•	•	
5,500	ВОТН	75.0	40.0	36.0	90%				+	+	•	+	
5,500	ВОТН	75.0	40.0	36.0	90%				+	+	+	+	
5,500	ВОТН	75.0	40.0	36.0	90%				+	<b>*</b>	•	<b>*</b>	
5,500	ВОТН	75.0	40.0	36.0	90%				•	<b>*</b>	•	•	
5,500	PLUNGER	75.0	40.0	36.0	90%				+	<b>+</b>	•	+	
5,500	PLUNGER	75.0	40.0	36.0	90%				+	+	•	+	
13,000	PLUNGER	75.0	86.0	38.0	90%				•	•	<b>+</b>	•	
13,000	PLUNGER	75.0	86.0	38.0	90%				<b>+</b>	<b>+</b>	<b>*</b>	+	
13,000	PLUNGER PLUNGER	75.0	86.0 86.0	38.0	90%				<b>+</b>	<b>*</b>	• •	<b>+</b>	
13,000	PLUNGER	75.0 75.0	86.0	38.0 38.0	90% 90%				+	+	•	•	
13,000	PLUNGER	75.0	86.0	38.0	90%				•	<b>*</b>	•	•	
13,000	PLUNGER	75.0	86.o	38.0	90%				+	<b>*</b>	<b>*</b>	+	
13,000	PLUNGER	75.0	86.0	38.0	90%				+	<b>+</b>	•	+	
13,000	ВОТН	75.0	86.0	38.0	90%			•	•	<b>+</b>	•	•	
13,000	ВОТН	75.0	86.0	38.0	90%			•	•	+	•	•	
13,000	ВОТН	75.0	86.0	38.0	90%			•	•	<b>+</b>	<b>*</b>	•	
13,000	ВОТН	75.0	86.0	38.0	90%			•	•	<b>+</b>	<b>*</b>	•	
13,000	BOTH BOTH	75.0	86.o 86.o	38.0 38.0	90%		_	<b>*</b>	+	<b>+</b>	<b>*</b>	<b>+</b>	
13,000	ВОТН	75.0 75.0	86.0 86.0	38.0 38.0	90% 90%		<b>+</b>	•	*	+	•	+	
13,000	ВОТН	75.0 75.0	86.0	38.0	90%		+	•	•	+	•	•	
13,000	ВОТН	75.0	86.0	38.0	90%		•	•	+	<b>*</b>	•	•	
13,000	PLUNGER	75.0	86.0	38.0	90%		+	•	+	+	•	+	
13,000	PLUNGER	75.0	86.o	38.0	90%		•	<b>*</b>	+	+	<b>*</b>	•	

# 700 HP Pump Specifications

Purnos	eries node	a / Rati	d Pressure (Psil) Continuous Dut	Internitent Du	id cal	ons per Red	al Diarnet	strike Stroke	ders
	Q3214	10,000	87.5 GPM @ 210 RPM	125.0 GPM @ 300 RPM	0.4165	1.750	5	8.00	
	Q3216	9,550	114.2 GPM @ 210 RPM	163.2 GPM @ 300 RPM	0.5440	2.000	5	8.00	
	Q3218	7,500	144.6 GPM @ 210 RPM	206.6 GPM @ 300 RPM	0.6885	2.250	5	8.00	
	Q3220	6,125	178.5 GPM @ 210 RPM	255.0 GPM @ 300 RPM	0.8500	2.500	5	8.00	
	Q3222	5,050	216.0 GPM @ 210 RPM	308.6 GPM @ 300 RPM	1.0285	2.750	5	8.00	
	Q3224	4,250	257.0 GPM @ 210 RPM	3672 GPM @ 300 RPM	1.2240	3.000	5	8.00	
	Q3226	3,620	301.7 GPM @ 210 RPM	431.0 GPM @ 300 RPM	1.4365	3.250	5	8.00	
	Q3228	3,125	349.9 GPM @ 210 RPM	499.8 GPM @ 300 RPM	1.6660	3.500	5	8.00	
Q32	Q3230	2,720	401.6 GPM @ 210 RPM	573.8 GPM @ 300 RPM	1.9125	3.750	5	8.00	
700/1,000	Q3232	2,390	457.0 GPM @ 210 RPM	652.8 GPM @ 300 RPM	2.1760	4.000	5	8.00	
HP	Q3234	2,110	515.9 GPM @ 210 RPM	737.0 GPM @ 300 RPM	2.4565	4.250	5	8.00	
	Q3236	1,890	578.3 GPM @ 210 RPM	826.2 GPM @ 300 RPM	2.7540	4.500	5	8.00	
	Q3238	1,690	644.4 GPM @ 210 RPM	920.6 GPM @ 300 RPM	3.0685	4.750	5	8.00	
	Q3240	1,530	714.0 GPM @ 210 RPM	1,020.0 GPM @ 300 RPM	3.4000	5.000	5	8.00	
	Q3242	1,390	787.2 GPM @ 210 RPM	1,124.6 GPM @ 300 RPM	3.7485	5.250	5	8.00	
	Q3244	1,260	863.9 GPM @ 210 RPM	1,234.2 GPM @ 300 RPM	4.1140	5.500	5	8.00	
	Q3246	1,160	944.3 GPM @ 210 RPM	1,349.0 GPM @ 300 RPM	4.4965	5.750	5	8.00	
	Q3248	1,060	1,028.2 GPM @ 210 RPM	1,468.8 GPM @ 300 RPM	4.8960	6.000	5	8.00	
	Q3250	980	1,115.5 GPM @ 210 RPM	1,593.8 GPM @ 300 RPM	5.3125	6.250	5	8.00	

,						//		ficiency	ron m	Art Bronze	steel .	ation steel	ainless ste	el steel stait sta
_	/n	ight lips Purns	(Abe				edranical de Co	st Ductile	Set Alumin	in Bronde	Korded H	2 torged	Koriseg W	athor ged stair
	13,000	PLUNGER	75.0	86.0	38.0	90%				<b>*</b>	<b>*</b>	•	<b>*</b>	
	13,000	PLUNGER	75.0	86.0	38.0	90%				•	•	•	•	
	13,000	PLUNGER	75.0	86.0	38.0	90%				<b>*</b>	<b>*</b>	•	•	
	13,000	PLUNGER	75.0	86.0	38.0	90%				•	•	•	•	
	13,000	PLUNGER	75.0	86.0	38.0	90%				<b>+</b>	•	•	•	
	13,000	PLUNGER	75.0	86.0	38.0	90%				•	•	•	•	
	13,000	PLUNGER	75.0	86.0	38.0	90%				<b>*</b>	<b>*</b>	•	•	
	13,000	PLUNGER	75.0	86.0	38.0	90%				<b>*</b>	<b>*</b>	•	•	
	13,000	PLUNGER	75.0	86.0	38.0	90%			<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	•	
	13,000	ВОТН	75.0	86.0	38.0	90%		•	<b>*</b>	<b>*</b>	<b>*</b>	•	•	
	13,000	ВОТН	75.0	86.0	38.0	90%		+	<b>*</b>	<b>*</b>	<b>*</b>	•	•	
	13,000	ВОТН	75.0	86.0	38.0	90%		•	<b>*</b>	•	<b>*</b>	•	•	
	13,000	ВОТН	75.0	86.0	38.0	90%		+	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	•	
	13,000	ВОТН	75.0	86.0	38.0	90%		•	<b>*</b>	<b>*</b>	<b>*</b>	•	•	
	13,000	ВОТН	75.0	86.0	38.0	90%		<b>*</b>	<b>+</b>	+	+	•	<b>*</b>	
	13,000	BOTH	75.0	86.0	38.0	90%		•	<b>*</b>	+	+	•	•	
	13,000	ВОТН	75.0	86.0	38.0	90%		<b>*</b>	<b>*</b>	+	+	•	•	
	13,000	PLUNGER	75.0	86.0	38.0	90%		<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	•	•	
	13,000	PLUNGER	75.0	86.0	38.0	90%		+	+	+	+	<b>*</b>	<b>*</b>	J

### **Pump Selection Procedure**

- 1. Determine your HP requirement using the following equation:
  - For preliminary sizing, use 90% for the mechanical efficiency, then adjust based on actual efficiency of pump selected.
- 2. Determine the duty cycle of your application. Continuous Duty is described as 8 hours or more operation per day, daily for extended periods of time.
- 3. Find the Pump Series under the first column with a HP rating that meets or exceeds the conditions of your application. Continuous HP is listed first. Intermittent HP is listed second.
- 4. Scan down the Rated Pressure column in the Pump Series selected until you find the last model whose maximum pressure rating exceeds the maximum pressure required by your application.
- 5. Check the appropriate capacity column (Continuous Duty Capacity or Intermittent Duty Capacity) to determine if the pump you selected meets the flow requirements of your application. If not, go to the next larger pump series and repeat Steps 4 & 5.
- 6. Determine the speed at which the pump will need to operate to produce the desired flow.

#### Notes:

- 1. Ratings are based on nominal speeds and pressures and may vary on FMC Technologies written approval.
- 2. Capacities and speeds indicated are based on 100% volumetric efficiency.
- 3. Continuous Duty is described as 8 hours or more operation per day, daily for extended periods of time.
- 4. Dimensions are approximate and based on standard pump models with cast fluid cylinders. Width is measured parallel to the axis of the drive shaft and does not include the shaft extension.



Manufacturing 2825 West Washington Stephenville, TX 76401 800 772 8582

FMC Technologies Inc 1803 Gears Road Houston, TX 77067 281 591 4000

www.fmctechnologies.com