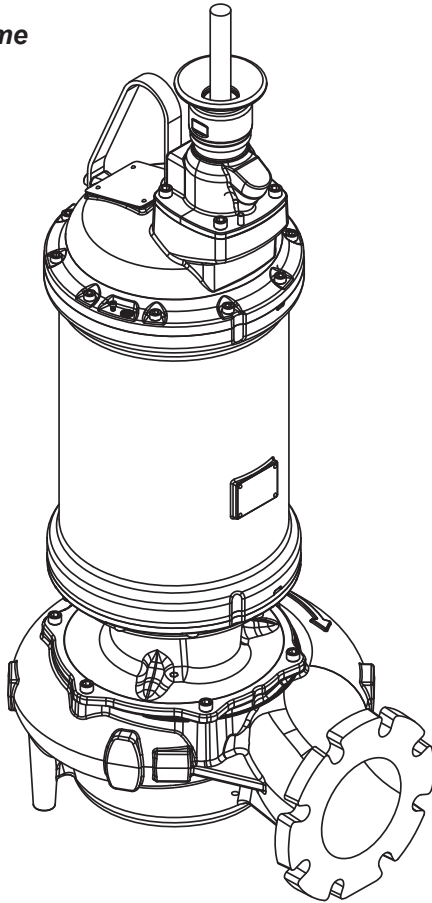


# DEMING®

## INSTALLATION and OPERATION MANUAL X-Pruf® Demersible Chopper Pump

#4 Frame



**4MM**  
Monovane Pumps  
20 - 40HP, 1750RPM

**4MB**  
Monovane Pumps  
20 - 40HP, 1750RPM

**4MH**  
Monovane Pumps  
30 - 50HP, 1750RPM  
20HP, 1150RPM

**4MHA**  
Monovane Pumps  
20 - 25HP, 1150RPM

**4DH**  
Dual Vane Pumps  
20 - 50HP, 1750RPM  
20 - 30HP, 1150RPM

**6ML**  
Monovane Pumps  
20 - 30HP, 1750RPM

**6MM**  
Monovane Pumps  
30 - 50HP, 1750RPM  
20HP, 1150RPM

**6MH**  
Monovane Pumps  
50 - 60HP, 1750RPM  
20 - 30HP, 1150RPM

**6DL**  
Dual Vane Pumps  
20 - 30HP, 1750RPM

**6D**  
Dual Vane Pumps  
25 - 60HP, 1750RPM  
20 - 30HP, 1150RPM

**8D**  
Dual Vane Pumps  
25 - 60HP, 1750RPM  
20 - 40HP, 1150RPM  
10 - 15HP, 870RPM

**8T**  
Tri-Vane Pumps  
20 - 60HP, 1750RPM  
20 - 40HP, 1150RPM  
10 - 30HP, 870RPM

**10DH**  
Dual Vane Pumps  
25 - 40HP, 1150RPM  
10 - 25HP, 870RPM

**10DL**  
Dual Vane Pumps  
40HP, 1150RPM  
15 - 30HP, 870RPM

This product may be covered by one or more of the following patents and other patent(s) pending: NZ DSN NO. 424412, NZ DSN NO. 424413, AUS DSN NO. 201812608, AUS DSN NO. 201812609, EU Design Reg. 005293040-0001

These pumps are classified as a Class I Division 1 Groups C&D T4 Explosion-Proof by CSA to NEC and CEC specifications. Opening the motor, including maintenance of the upper mechanical seal, must be performed by CP&S to maintain the certification. Internal maintenance performed by non-certified personnel will void the explosion-proof rating

**IMPORTANT!**

*Read all instructions in this manual before operating pump.  
As a result of Crane Pumps & Systems, Inc., constant product improvement program,  
product changes may occur. As such Crane Pumps & Systems reserves the right to  
change product without prior written notification.*

**CRANE**

A Crane Co. Company

**PUMPS & SYSTEMS**

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**HYDRAULIC INSTITUTE**  
PROUD MEMBER

**SWPA**  
MEMBER

Form No. 133603S-Rev. H

# TABLE OF CONTENTS

	SAFETY FIRST .....	3
A.	GENERAL INFORMATION .....	4
B.	INSTALLATION .....	4 - 18
	ELECTRICAL DATA .....	6 - 18
C.	START-UP OPERATION .....	18 - 19
D.	PREVENTATIVE MAINTENANCE .....	19
E.	SERVICE and REPAIR .....	19 - 20
F.	REPLACEMENT PARTS.....	21
	TROUBLE SHOOTING .....	22
	CROSS SECTIONS (Fig. 8).....	23
	EXPLODED VIEW (Fig. 9).....	24
	PARTS LISTS .....	25
	PARTS LISTS CONTINUED .....	26 - 49
	WARRANTY .....	51
	RETURNED GOODS POLICY .....	52
	WARRANTY REGISTRATION .....	52
	START-UP REPORT .....	53 - 54

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# SAFETY FIRST!

Please Read This Before Installing Or Operating Pump.  
This information is provided for **SAFETY and to PREVENT EQUIPMENT PROBLEMS**. To help recognize this information, observe the following symbols:



**IMPORTANT!** Warns about hazards that can result in personal injury or Indicates factors concerned with assembly, installation, operation, or maintenance which could result in damage to the machine or equipment if ignored.

**CAUTION !** Warns about hazards that can or will cause minor personal injury or property damage if ignored. Used with symbols below.

**WARNING !** Warns about hazards that can or will cause serious personal injury, death, or major property damage if ignored. Used with symbols below.



*Hazardous fluids can cause fire or explosions, burns or death could result.*



*Extremely hot - Severe burnes can occur on contact.*



*Biohazard can cause serious personal injury.*



*Hazardous fluids can Hazardous pressure, eruptions or explosions could cause personal injury or property damage.*



*Rotating machinery Amputation or severe laceration can result.*



*Hazardous voltage can shock, burn or cause death.*

Only qualified personnel should install, operate and repair pump. Any wiring of pumps should be performed by a qualified electrician.



**WARNING !** - To reduce risk of electrical shock, pumps and control panels must be properly grounded in accordance with the National Electric Code (NEC) or the Canadian Electrical Code (CEC) and all applicable state, province, local codes and ordinances.

**WARNING!** - To reduce risk of electrical shock, always disconnect the pump from the power source before handling or servicing. Lock out power and tag.



**WARNING!** Operation against a closed discharge valve will cause premature bearing and seal failure on any pump, and on end suction and

self priming pump the heat build may cause the generation of steam with resulting dangerous pressures. It is recommended that a high case temperature switch or pressure relief valve be installed on the pump body.



**CAUTION!** Pumps build up heat and pressure during operation-allow time for pumps to cool before handling or servicing.



**WARNING!** - **DO NOT** pump hazardous materials (flammable, caustic, etc.) unless the pump is specifically designed and designated to handle them.



Do not block or restrict discharge hose, as discharge hose may whip under pressure.



**WARNING!** - **DO NOT** wear loose clothing that may become entangled in the impeller or other moving parts.

**WARNING!** - Keep clear of suction and discharge openings. **DO NOT** insert fingers in pump with power connected.



Always wear eye protection when working on pumps.



Make sure lifting handles are securely fastened each time before lifting. **DO NOT** operate pump without safety devices in place. Always replace safety devices that have been removed during service or repair. Secure the pump in its operating position so it can not tip over, fall or slide.

**DO NOT** exceed manufacturers recommendation for maximum performance, as this could cause the motor to overheat.

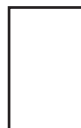
**DO NOT** remove cord and strain relief. Do not connect conduit to pump.



**WARNING!** Cable should be protected at all times to avoid punctures, cut, bruises and abrasions - inspect frequently. Never handle connected power cords with wet hands.

**WARNING!** To reduce risk of electrical shock, all wiring and junction connections should be made per the NEC or CEC and applicable state or province and local codes. Requirements may vary depending on usage and location.

**WARNING!** Submersible Pumps are not approved for use in swimming pools, recreational water installations, decorative fountains or any installation where human contact with the pumped fluid is common.



**WARNING!** Products Returned Must Be Cleaned, Sanitized, Or Decontaminated As Necessary Prior To Shipment, To Insure That Employees Will Not Be Exposed To Health Hazards In Handling Said Material. All Applicable Laws And Regulations Shall Apply.



**IMPORTANT!** - Crane Pumps & Systems, Inc. is not responsible for losses, injury, or death resulting from a failure to observe these safety precautions, misuse or abuse of pumps or equipment.

## SECTION A: GENERAL INFORMATION

### A-1) To the Purchaser:

Congratulations! You are the owner of one of the finest pumps on the market today. CP&S pumps are products engineered and manufactured of high quality components. Over one hundred years of pump building experience along with a continuing quality assurance program combine to produce a pump which will stand up to the toughest applications. This manual will provide helpful information concerning installation, maintenance, and proper service guidelines.

### A-2) Receiving:

Upon receiving the pump, it should be inspected for damage or shortages. If damage has occurred, file a claim immediately with the company that delivered the pump. **MAKE CERTAIN TO RETAIN THIS MANUAL!**

### A-3) Storage:

**Short Term-** CP&S Pumps are manufactured for efficient performance following short inoperative periods in storage. For best results, pumps can be retained in storage, as factory assembled, in a dry atmosphere with constant temperatures for up to six (6) months.

**Long Term -** Any length of time exceeding six (6) months, but not more than twenty-four (24) months. The unit should be stored in a temperature controlled area, a roofed over walled enclosure that provides protection from the elements (rain, snow, winC-blown dust, etc.), and whose temperature can be maintained between +40 deg. F and +120 deg. F. (4.4 - 49°C). Pump should be stored in its original shipping container. On initial start up, rotate impeller by hand to assure seal and impeller rotate freely. If it is required that the pump be installed and tested before the long term storage begins, such installation will be allowed provided:

- 1.) The pump is not installed under water for more than one (1) month.
- 2.) Immediately upon satisfactory completion of the test, the pump is removed, thoroughly dried, repacked in the original shipping container, and placed in a temperature controlled storage area.

### A-4) Service Centers:

For the location of the nearest Deming Service Center, contact Crane Pumps & Systems, Inc., Service Department in Piqua, Ohio, telephone (937) 778-8947 or Crane Pumps & Systems Canada, in Brampton, Ontario, (905) 457-6223.

## SECTION B: INSTALLATION

### B-1) Location:

These self-contained pumping units have motors that are Underwriters Laboratory Listed for Class I, Division 1 Groups C & D T4, locations and are recommended for use in a sump, lift stations or basin. This pump is designed for submerged continuous duty (15 minutes duty in air at nameplate horsepower), pumping sewage, effluent, wastewater or other non explosive or non corrosive liquids not above 104°F (40°C). never install the pump in a trench,

ditch or hole with a dirt bottom; the legs will sink into the dirt and the suction will become plugged.

### B-1.1) Submergence:

It is recommended that the pump be operated at the minimum continuous duty submerged condition (See Fig. 1). The time required to draw the well down from top of motor to the minimum submergence level should not be greater than 15 minutes. **NOTE:** Outer shaft seal must be in liquid when motor is operated, whether motor is submerged or in air.

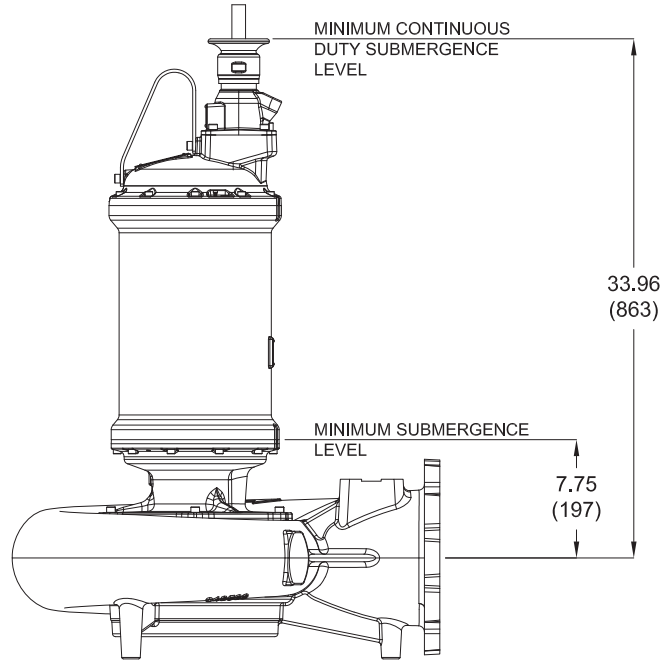


FIGURE 1

### B-2) Discharge:

Discharge piping should be as short as possible. Both a check valve and a shut-off valve are recommended for each pump being used. The check valve is used to prevent backflow into the sump. Excessive backflow can cause flooding and/or damage to the pump. The shut-off valve is used to stop system flow during pump or check valve servicing.



**WARNING!** These pumps are suitable for application in Class I, Division 1, Groups C & D T4, HAZARDOUS LOCATIONS and require a non-sparking break away fitting. Failure to use the non-sparking BAF voids warranty.

Crane Pumps & Systems manufactures a break away fitting discharge system designed to allow the submersible wastewater pump to be installed or removed without requiring personnel to enter the wet well. Place the Break Away Fitting (BAF) in position. Temporarily secure the guide rails in the upper mounting brackets and locate the base elbow on the bottom of the wet well. Level the base elbow with grout and/or shims. Install the intermediate support brackets, if required. Make sure the rails are in a true vertical position so the pump will clear the access

opening and will slide freely down the rails into place on the discharge base elbow. Once the rails are in proper alignment, bolt the base elbow into the floor of the station and connect the discharge pipe to the elbow. Connect the movable portion and other supplied fittings of the BAF onto the pump and lower into wet well. See the Break Away Fitting manual for more information.

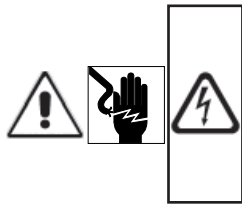


**WARNING! Level control used within the hazardous location, must be in an intrinsically safe control circuit suitable for use in Class I, Division 1, Groups C & D T4, Hazardous Locations.**

**B-3) Liquid Level Controls:**

It is recommended to use a liquid level control system that allows the on and off point to be separated by at least twelve inches. An additional set point (lag point) should be incorporated with an alternator switching system for a duplex (two pump) station. A high level alarm may be required to alert maintenance personnel that there is a high water situation in the wet well should the output of the pump station drop below the inflow rate. A low level cut off may be installed to provide system shutdown if the main level control system malfunctions. The off point should be positioned so that the liquid level never drops below the minimum continuous duty point for the pump shown in figure 1.

**B-4.1) Electrical Connections:**



**WARNING! - All model pumps and control panels must be properly grounded per the NATIONAL ELECTRIC CODE or CANADIAN ELECTRIC CODE, State, Province and local codes. Improper grounding voids warranty.**

**B-4) Power/Control Cord:**

The cord assembly mounted to the pump must not be modified in any way except for shortening to a specific application. Any splice between the pump and the control panel must be made in accordance with all applicable electric codes. It is recommended that a junction box (if used) be mounted outside the sump or be of at least Nema 6 or 6P construction with NEMA 6 or 6P watertight cord grips if located within the wet well. A water and vapor tight seal fitting **MUST** be used in conduit leaving the wet well to prevent moisture and gases from reaching the control panel. Prior to installation, the pump power cable should be inspected for nicks or damage. If damaged, the cord should be replaced before installation.

**CORD CLAMPING PLATE SHOULD BE DRAWN METAL TO METAL (35 FT/LBS BOLT TORQUE). IF A GAP EXISTS CONTINUE TO TIGHTEN BOLTS. DO NOT USE ANY TYPE OF SEALANT OR GREASE ON THE CORD ENTRY.**

**DO NOT USE THE POWER CORD TO LIFT PUMP.**

**NOTE: The White Wire Is Not A Neutral Or Ground Lead. The Black, White And Red Leads Are Power Carrying Conductors. The Green Lead Is For Connection To Ground.**

**B-4.1) Electrical Connections:**

When the electrical connections are made, the lead wires from the power cable should be stripped so that the ground wire is at least two inches longer than the power leads. This will ensure that if the cable is inadvertently pulled out of the connection point, the ground wire will be the last lead to break the circuit.

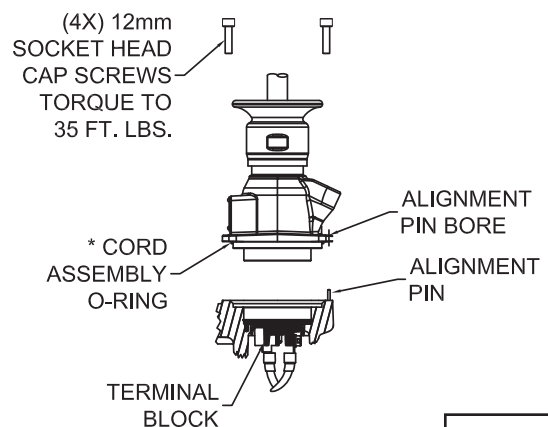
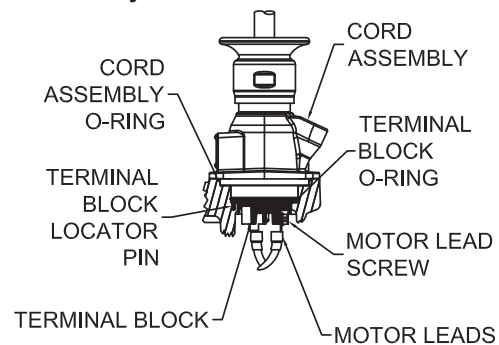
**B-4.2) Wire Size:**

If additional cable is required consult a qualified electrician for proper wire size. Voltage drop due to wire resistance between the pump and power connection point should be limited to 3% when additional cable is added.

**WARRANTY NOTE:**



**Both the temperature sensor and moisture detection system must be connected to the motor circuitry such that the motor will be de-energized or sound alarm if excessive motor temperatures are reached and/or if water is detected in the seal chamber and/or motor chamber. Failure to have the above mentioned systems installed and operative, nullifies warranty.**



**FIGURE 2**

\* FAILURE TO INSTALL O-RING VOIDS WARRANTY

MODEL NO.	SIZE	IMP. DIA. INCHES (MM)	HP	VOLT	PH	HZ	RPM	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE	CORD O.D.	WINDING RESISTANCE
7366-411-16-32N	4MM	10.43 (265)	20	208	3	60	1750	G	63.0	1.2	74.6	323.0	4	138318	6/4 - 18/4	1.14 ± .03	0.098
7366-411-32-32N	4MM	10.83 (275)	25	208	3	60	1750	G	77.8	1.2	93.4	359.0	4	138319	2/4 - 18/4	1.47 ± .03	0.098
			230	1.2					82.3								
7366-411-33-32N	4MM	11.42 (290)	30	208	3	60	1750	E	93.4	1.2	116.9	359.0	4	138319	2/4 - 18/4	1.47 ± .03	0.098
			230	1.2					98.7								
7366-411-49-32N	4MM	11.61 (295)	40	230	3	60	1750	E	106	1.2	126.4	486.0	4	138319	2/4 - 18/4	1.47 ± .03	.063
7366-411-64-32N	4MM	11.61 (295)	40	460	3	60	1750	E	53.0	1.2	63.2	243.0	4	138318	6/4 - 18/4	1.14 ± .03	.248
7366-411-79-32N	4MM	11.61 (295)	40	575	3	60	1750	E	42.4	1.2	50.6	194.4	4	138317	8/4 - 18/4	1.12 ± .02	.382
7366-466-16-30N	4MB	9.84 (250)	20	208	3	60	1750	G	63.0	1.2	74.6	323.0	4	138318	6/4 - 18/4	1.14 ± .03	0.88 - 2.14
7366-466-32-30N	4MB	10.24 (260)	25	208	3	60	1750	G	77.8	1.2	93.4	359.0	4	138319	2/4 - 18/4	1.47 ± .03	0.098
			230	1.2					82.3								
7366-466-33-30N	4MB	10.83 (275)	30	208	3	60	1750	E	93.4	1.2	116.9	359.0	4	138319	2/4 - 18/4	1.47 ± .03	0.098
			230	1.2					98.7								
7366-466-49-30N	4MB	12.40 (315)	40	230	3	60	1750	E	106.0	1.2	126.4	486.0	4	138319	2/4 - 18/4	1.47 ± .03	0.063
7366-466-64-30N	4MB	12.40 (315)	40	460	3	60	1750	E	53.0	1.2	63.2	243.0	4	138318	6/4 - 18/4	1.14 ± .03	0.248
7366-466-79-30N	4MB	12.40 (315)	40	575	3	60	1750	E	42.4	1.2	50.6	194.4	28	138318	6/4 - 18/4	1.14 ± .03	0.248
7366-412-33-32N	4MH	11.42 (290)	30	208	3	60	1750	E	93.4	1.2	116.9	359.0	4	138319	2/4 - 18/4	1.47 ± .03	0.098
			230	1.2					98.7								
7366-412-49-32N	4MH	13.00 (330)	40	230	3	60	1750	E	106.0	1.2	126.4	486.0	4	138319	2/4 - 18/4	1.47 ± .03	.063
			460	1.2					63.2								
7366-412-64-32N	4MH	13.00 (330)	40	460	3	60	1750	E	53.0	1.2	50.6	243.0	4	138318	6/4 - 18/4	1.14 ± .03	.248
			575	1.2					63.2								
7366-412-79-32N	4MH	13.00 (330)	40	575	3	60	1750	E	42.4	1.2	50.6	194.4	4	138317	8/4 - 18/4	1.12 ± .02	.382
			460	1.2					79.0								
7366-412-65-32N	4MH	13.98 (355)	50	460	3	60	1750	F	67.1	1.2	79.0	339.0	4	138318	6/4 - 18/4	1.14 ± .03	.15
			575	1.2					63.2								
7366-412-80-32N	4MH	13.98 (355)	50	575	3	60	1750	F	53.7	1.2	63.2	271.2	4	138318	6/4 - 18/4	1.14 ± .03	.245
			208	1.2					71.5								
7366-447-31-32N	4MH	14.57 (370)	20	208	3	60	1150	H	60.3	1.2	71.5	354.0	4	138318	6/4 - 18/4	1.14 ± .03	.1117
			230	1.2					69.8								

▲ CORD SOLD SEPARATELY.

**IMPORTANT !**

- 1.) MOISTURE AND TEMPERATURE SENSORS **MUST** BE CONNECTED TO VALIDATE THE CSA LISTING.
- 2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT CP&S FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
- 3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS.** NOT SUITABLE FOR ENVIRONMENTS CONTAINING GASOLINE OR HEXANE.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.
- 5.) A **NON-SPARKING** BREAKAWAY FITTING MUST BE USED TO VALIDATE THE EXPLOSION PROOF LISTING.
- 6.) WINDING RESISTANCE ± 7.5%. WINDING RESISTANCE MEASURED IN OHMS @ 25°C (BETWEEN LINES) AT MOTOR LEADS.
- 7.) PUMP RATED FOR OPERATION AT ± 10% VOLTAGE AT MOTOR.
- 8.) CORD SUFFIX: XF - 50 FEET, XJ - 75 FEET, OR XL - 100 FEET. CORD SOLD SEPARATELY.
- 9.) ALL EXPLOSION PROOF PUMPS AND MOTORS ARE CSA EXPLOSION-PROOF TO CLASS I DIVISION 1 GROUPS C&D T4 RATING

CHART 'A'

MODEL NO.	SIZE	IMP. DIA. INCHES (MM)	HP	VOLT	PH	HZ	RPM	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ^	CORD SIZE	CORD O.D.	WINDING RESISTANCE
7366-437-31-32N	4MHA	14.17 (360)	20	208 230	3	60	1150	H	60.3 57.2	1.2 1.2	71.5 69.8	354.0	4	138318	6/4 - 18/4	1.14 ± .03	0.1117
7366-437-32-32N	4MHA	14.57 (370)	25	208 230	3	60	1150	G	75.2 70.8	1.2 1.2	90.8 82.6	354.0	4	138319	2/4 - 18/4	1.47 ± .03	0.1117
7366-437-92-32N	4MHA	14.57 (370)	25	460	3	60	1150	G	35.4	1.2	41.3	177.0	4	138317	8/4 - 18/4	1.12 ± .02	0.4397
7366-437-1B-32N	4MHA	14.57 (370)	25	575	3	60	1150	G	28.3	1.2	33.0	141.6	4	138317	8/4 - 18/4	1.12 ± .02	0.6857
7366-414-16-32N	4DH	9.25 (235)	20	208	3	60	1750	G	63.0	1.2	74.6	323.0	4	138318	6/4 - 18/4	1.14 ± .03	0.098
7366-414-32-32N	4DH	9.84 (250)	25	208 230	3	60	1750	G	77.8 71.4	1.2 1.2	93.4 82.3	359.0	4	138319	2/4 - 18/4	1.47 ± .03	0.098
7366-414-33-32N	4DH	10.43 (265)	30	208 230	3	60	1750	E	93.4 82.3	1.2 1.2	116.9 98.7	359.0	4	138319	2/4 - 18/4	1.47 ± .03	0.098
7366-414-49-32N	4DH	11.42 (290)	40	230	3	60	1750	E	106.0	1.2	126.4	486.0	4	138319	2/4 - 18/4	1.47 ± .03	.063
7366-414-64-32N	4DH	11.42 (290)	40	460	3	60	1750	E	53.0	1.2	63.2	243.0	4	138318	6/4 - 18/4	1.14 ± .03	.248
7366-414-79-32N	4DH	11.42 (290)	40	575	3	60	1750	E	42.4	1.2	50.6	194.4	4	138317	8/4 - 18/4	1.12 ± .02	.382
7366-414-65-32N	4DH	12.40 (315)	50	460	3	60	1750	F	67.1	1.2	79.0	339.0	4	138318	6/4 - 18/4	1.14 ± .03	.15
7366-414-80-32N	4DH	12.40 (315)	50	575	3	60	1750	F	53.7	1.2	63.2	271.2	4	138318	6/4 - 18/4	1.14 ± .03	.245
7366-414-66-32N	4DH	13.19 (335)	60	460	3	60	1750	E	79	1.2	95.5	339	4	138319	2/4 - 18/4	1.47 ± .03	.063
7366-414-81-32N	4DH	13.19 (335)	60	575	3	60	1750	E	63.2	1.2	76.4	271.2	4	138318	6/4 - 18/4	1.14 ± .03	.248

▲ CORD SOLD SEPARATELY.

**IMPORTANT !**

- 1.) MOISTURE AND TEMPERATURE SENSORS **MUST** BE CONNECTED TO VALIDATE THE CSA LISTING.
- 2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT CP&S FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
- 3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS.** NOT SUITABLE FOR ENVIRONMENTS CONTAINING GASOLINE OR HEXANE.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.
- 5.) A **NON-SPARKING** BREAKAWAY FITTING MUST BE USED TO VALIDATE THE EXPLOSION PROOF LISTING.
- 6.) WINDING RESISTANCE ± 7.5%. WINDING RESISTANCE MEASURED IN OHMS @ 25°C (BETWEEN LINES) AT MOTOR LEADS.
- 7.) PUMP RATED FOR OPERATION AT ± 10% VOLTAGE AT MOTOR.
- 8.) CORD SUFFIX: XF - 50 FEET, XJ - 75 FEET, OR XL - 100 FEET. CORD SOLD SEPARATELY.
- 9.) ALL EXPLOSION PROOF PUMPS AND MOTORS ARE CSA EXPLOSION-PROOF TO CLASS I DIVISION 1 GROUPS C&D T4 RATING

CHART 'B'

MODEL NO.	SIZE	IMP. DIA. INCHES (MM)	HP	VOLT	PH	HZ	RPM	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE	CORD O.D.	WINDING RESISTANCE
7366-449-31-32N	4DH	13.00 (330)	20	208 230	3	60	1150	H	60.3 57.2	1.2 1.2	71.5 69.8	354.0	4 4	138318 138318	6/4 - 18/4 6/4 - 18/4	1.14 ± .03	.1117
7366-449-32-32N	4DH	13.78 (350)	25	208 230	3	60	1150	G	75.2 70.8	1.2 1.2	90.8 82.6	354.0	4 4	138319 138319	2/4 - 18/4 2/4 - 18/4	1.47 ± .03	.1117
7366-449-92-32N	4DH	13.78 (350)	25	460	3	60	1150	G	35.4	1.2	41.3	177.0	4	138317	8/4 - 18/4	1.12 ± .02	.4397
7366-449-1B-32N	4DH	13.78 (350)	25	575	3	60	1150	G	28.3	1.2	33.0	141.6	4	138317	8/4 - 18/4	1.12 ± .02	.6857
7366-449-33-32N	4DH	14.17 (360)	30	208 230	3	60	1150	E	90.8 82.6	1.2 1.2	114.9 99.7	354.0	4 4	138319 138319	2/4 - 18/4 2/4 - 18/4	1.47 ± .03	.1117
7366-449-93-32N	4DH	14.17 (360)	30	460	3	60	1150	E	41.3	1.2	49.9	177.0	4	138317	8/4 - 18/4	1.12 ± .02	.4397
7366-449-1C-32N	4DH	14.17 (360)	30	575	3	60	1150	E	33.0	1.2	39.9	141.6	4	138317	8/4 - 18/4	1.12 ± .02	.6857
7366-449-49-32N	4DH	14.57 (370)	40	230	3	60	1150	E	110.4	1.2	131.8	476	4	138319	2/4 - 18/4	1.47 ± .03	.063
7366-449-64-32N	4DH	14.57 (370)	40	460	3	60	1150	E	55.2	1.2	65.9	238	4	138318	6/4 - 18/4	1.14 ± .03	.248
7366-449-79-32N	4DH	14.57 (370)	40	575	3	60	1150	E	44.2	1.2	52.7	190.4	4	138317	8/4 - 18/4	1.12 ± .02	.382
7366-615-16-32N	6ML	9.25 (235)	20	208	3	60	1750	G	63.0	1.2	74.6	323.0	4	138318	6/4 - 18/4	1.47 ± .03	.098
7366-615-32-32N	6ML	9.84 (250)	25	208 230	3	60	1750	G	77.8 71.4	1.2 1.2	93.4 82.3	359.0	4 4	138319 138319	2/4 - 18/4 2/4 - 18/4	1.47 ± .03	.098
7366-615-33-32N	6ML	10.24 (260)	30	208 230	3	60	1750	E	93.4 82.3	1.2 1.2	116.9 98.7	359.0	4 4	138319 138319	2/4 - 18/4 2/4 - 18/4	1.47 ± .03	0.098
7366-616-33-32N	6MM	10.83 (275)	30	208 230	3	60	1750	E	93.4 82.3	1.2 1.2	116.9 98.7	359.0	4 4	138319 138319	2/4 - 18/4 2/4 - 18/4	1.47 ± .03	.098
7366-616-49-32N	6MM	11.81 (300)	40	230	3	60	1750	E	106.0	1.2	126.4	486.0	4	138319	2/4 - 18/4	1.47 ± .03	.063
7366-616-64-32N	6MM	11.81 (300)	40	460	3	60	1750	E	53.0	1.2	63.2	243.0	4	138318	6/4 - 18/4	1.14 ± .03	.248
7366-616-79-32N	6MM	11.81 (300)	40	575	3	60	1750	E	42.4	1.2	50.6	194.4	4	138317	8/4 - 18/4	1.12 ± .02	.382
7366-616-65-32N	6MM	12.40 (315)	50	460	3	60	1750	F	67.1	1.2	79.0	339.0	4	138318	6/4 - 18/4	1.14 ± .03	.15
7366-616-80-32N	6MM	12.40 (315)	50	575	3	60	1750	F	53.7	1.2	63.2	271.2	4	138318	6/4 - 18/4	1.14 ± .03	.245
7366-620-31-32N	6MM	12.40 (315)	20	208 230	3	60	1150	H	60.3 57.2	1.2 1.2	71.5 69.8	354.0	4 4	138318 138318	6/4 - 18/4 6/4 - 18/4	1.14 ± .03	.1117

▲ CORD SOLD SEPARATELY.

**IMPORTANT !**

- 1.) MOISTURE AND TEMPERATURE SENSORS **MUST** BE CONNECTED TO VALIDATE THE CSA LISTING.
- 2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT CP&S FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
- 3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS.** NOT SUITABLE FOR ENVIRONMENTS CONTAINING GASOLINE OR HEXANE.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT **MUST** BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.
- 5.) A **NON-SPARKING** BREAKAWAY FITTING **MUST** BE USED TO VALIDATE THE EXPLOSION PROOF LISTING.
- 6.) WINDING RESISTANCE ± 7.5%. WINDING RESISTANCE MEASURED IN OHMS @ 25°C (BETWEEN LINES) AT MOTOR LEADS.
- 7.) PUMP RATED FOR OPERATION AT ± 10% VOLTAGE AT MOTOR.
- 8.) CORD SUFFIX: XF - 50 FEET, XJ - 75 FEET, OR XL - 100 FEET. CORD SOLD SEPARATELY.
- 9.) ALL EXPLOSION PROOF PUMPS AND MOTORS ARE CSA EXPLOSION-PROOF TO CLASS I DIVISION 1 GROUPS C&D T4 RATING

CHART 'C'



MODEL NO.	SIZE	IMP. DIA. INCHES (MM)	HP	VOLT	PH	HZ	RPM	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ^	CORD SIZE	CORD O.D.	WINDING RESISTANCE
7366-617-65-32N	6MH	12.80 (325)	50	460	3	60	1750	F	67.1	1.2	79.0	339.0	4	138318	6/4 - 18/4	1.14 ± .03	.15
7366-617-80-32N	6MH	12.80 (325)	50	575	3	60	1750	F	53.7	1.2	63.2	271.2	4	138318	6/4 - 18/4	1.14 ± .03	.245
7366-617-66-32N	6MH	13.58 (345)	60	460	3	60	1750	E	79.0	1.2	95.5	339.0	4	138319	2/4 - 18/4	1.47 ± .03	.15
7366-617-81-32N	6MH	13.58 (345)	60	575	3	60	1750	E	63.2	1.2	76.4	271.2	4	138318	6/4 - 18/4	1.14 ± .03	.245
7366-621-31-32N	6MH	13.58 (345)	20	208 230	3	60	1150	H	60.3 57.2	1.2 1.2	71.5 69.8	354.0	4 4	138318 138318	6/4 - 18/4 6/4 - 18/4	1.14 ± .03	.1117
7366-621-32-32N	6MH	13.98 (355)	25	208 230	3	60	1150	G	75.2 70.8	1.2 1.2	90.8 82.6	354.0	4	138319	2/4 - 18/4	1.47 ± .03	.15
7366-621-92-32N	6MH	13.98 (355)	25	460	3	60	1150	G	35.4	1.2	41.3	177.0	4	138317	8/4 - 18/4	1.12 ± .02	.4397
7366-621-1B-32N	6MH	13.98 (355)	25	575	3	60	1150	G	28.3	1.2	33.0	141.6	4	138317	8/4 - 18/4	1.12 ± .02	.6857
7366-621-33-32N	6MH	14.57 (370)	30	208 230	3	60	1150	E	90.8 82.6	1.2 1.2	114.9 99.7	354.0	4 4	138319 138319	2/4 - 18/4 2/4 - 18/4	1.47 ± .03	.1117
7366-621-93-32N	6MH	14.57 (370)	30	460	3	60	1150	E	41.3	1.2	49.9	177.0	4	138317	8/4 - 18/4	1.12 ± .02	.4397
7366-621-1C-32N	6MH	14.57 (370)	30	575	3	60	1150	E	33.0	1.2	39.9	141.6	4	138317	8/4 - 18/4	1.12 ± .02	.6857
7366-663-16-32N	6DL	8.47 (215)	20	208	3	60	1750	G	63.0	1.2	74.6	323.0	4	138318	6/4 - 18/4	1.47 ± .03	.098
7366-663-32-32N	6DL	8.66 (220)	25	208 230	3	60	1750	G	77.8 71.4	1.2 1.2	93.4 82.3	359.0	4 4	138319 138319	2/4 - 18/4 2/4 - 18/4	1.47 ± .03	.098
7366-663-33-32N	6DL	8.86 (225)	30	208 230	3	60	1750	E	93.4 82.3	1.2 1.2	116.9 98.7	359.0	4 4	138319 138319	2/4 - 18/4 2/4 - 18/4	1.47 ± .03	0.098

▲ CORD SOLD SEPARATELY.

**IMPORTANT !**

- 1.) MOISTURE AND TEMPERATURE SENSORS **MUST** BE CONNECTED TO VALIDATE THE CSA LISTING.
- 2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT CP&S FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
- 3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS.** NOT SUITABLE FOR ENVIRONMENTS CONTAINING GASOLINE OR HEXANE.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT **MUST** BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.
- 5.) A **NON-SPARKING** BREAKAWAY FITTING **MUST** BE USED TO VALIDATE THE EXPLOSION PROOF LISTING.
- 6.) WINDING RESISTANCE ± 7.5%. WINDING RESISTANCE MEASURED IN OHMS @ 25°C (BETWEEN LINES) AT MOTOR LEADS.
- 7.) PUMP RATED FOR OPERATION AT ± 10% VOLTAGE AT MOTOR.
- 8.) CORD SUFFIX: XF - 50 FEET, XJ - 75 FEET, OR XL - 100 FEET. CORD SOLD SEPARATELY.
- 9.) ALL EXPLOSION PROOF PUMPS AND MOTORS ARE CSA EXPLOSION-PROOF TO CLASS I DIVISION 1 GROUPS C&D T4 RATING

CHART 'D'

MODEL NO.	SIZE	IMP. DIA. INCHES (MM)	HP	VOLT	PH	HZ	RPM	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE	CORD O.D.	WINDING RESISTANCE
7366-618-32-32N	6D	9.25 (235)	25	208 230	3	60	1750	G	77.8 71.4	1.2 1.2	93.4 82.3	359.0	4	138319	2/4 - 18/4	1.47 ± .03	.098
7366-618-33-32N	6D	9.84 (250)	30	208 230	3	60	1750	E	93.4 82.3	1.2 1.2	116.9 98.7	359.0	4	138319	2/4 - 18/4	1.47 ± .03	.098
7366-618-49-32N	6D	10.63 (270)	40	230	3	60	1750	E	106.0	1.2	126.4	486.0	4	138319	2/4 - 18/4	1.47 ± .03	.063
7366-618-64-32N	6D	10.63 (270)	40	460	3	60	1750	E	53.0	1.2	63.2	243.0	4	138318	6/4 - 18/4	1.14 ± .03	.248
7366-618-79-32N	6D	10.63 (270)	40	575	3	60	1750	E	42.4	1.2	50.6	194.4	4	138317	8/4 - 18/4	1.12 ± .02	.382
7366-618-65-32N	6D	11.61 (295)	50	460	3	60	1750	F	67.1	1.2	79.0	339.0	4	138318	6/4 - 18/4	1.14 ± .03	.15
7366-618-80-32N	6D	11.61 (295)	50	575	3	60	1750	F	53.7	1.2	63.2	271.2	4	138318	6/4 - 18/4	1.14 ± .03	.245
7366-618-66-32N	6D	12.40 (315)	60	460	3	60	1750	E	79.0	1.2	95.5	339.0	4	138319	2/4 - 18/4	1.47 ± .03	.15
7366-618-81-32N	6D	12.40 (315)	60	575	3	60	1750	E	63.2	1.2	76.4	271.2	4	138318	6/4 - 18/4	1.14 ± .03	.245
7366-622-31-32N	6D	12.80 (325)	20	208 230	3	60	1150	H	60.3 57.2	1.2 1.2	71.5 69.8	354.0	4	138318	6/4 - 18/4	1.14 ± .03	.1117
7366-622-32-32N	6D	13.58 (345)	25	208 230	3	60	1150	G	75.2 70.8	1.2 1.2	90.8 82.6	354.0	4	138319	2/4 - 18/4	1.47 ± .03	.1117
7366-622-92-32N	6D	13.58 (345)	25	460	3	60	1150	G	35.4	1.2	41.3	177.0	4	138317	8/4 - 18/4	1.12 ± .02	.4397
7366-622-1B-32N	6D	13.58 (345)	25	575	3	60	1150	G	28.3	1.2	33.0	141.6	4	138317	8/4 - 18/4	1.12 ± .02	.6857
7366-622-33-32N	6D	14.17 (360)	30	208 230	3	60	1150	E	90.8 82.6	1.2 1.2	114.9 99.7	354.0	4	138319	2/4 - 18/4	1.47 ± .03	.1117
7366-622-93-32N	6D	14.17 (360)	30	460	3	60	1150	E	41.3	1.2	49.9	177.0	4	138317	8/4 - 18/4	1.12 ± .02	.4397
7366-622-1C-32N	6D	14.17 (360)	30	575	3	60	1150	E	33.0	1.2	39.9	141.6	4	138317	8/4 - 18/4	1.12 ± .02	.6857
7366-622-49-32N	6D	14.57 (370)	40	230	3	60	1150	E	110.4	1.2	131.8	476	4	138319	2/4 - 18/4	1.47 ± .03	.063
7366-622-64-32N	6D	14.57 (370)	40	460	3	60	1150	E	55.2	1.2	65.9	238	4	138318	6/4 - 18/4	1.14 ± .03	.248
7366-622-79-32N	6D	14.57 (370)	40	575	3	60	1150	E	44.2	1.2	52.7	190.4	4	138317	8/4 - 18/4	1.12 ± .02	.382

▲ CORD SOLD SEPARATELY.

**IMPORTANT !**

- 1.) MOISTURE AND TEMPERATURE SENSORS **MUST** BE CONNECTED TO VALIDATE THE CSA LISTING.
- 2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT CP&S FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
- 3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS.** NOT SUITABLE FOR ENVIRONMENTS CONTAINING GASOLINE OR HEXANE.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANS/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS; RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.
- 5.) A **NON-SPARKING** BREAKAWAY FITTING MUST BE USED TO VALIDATE THE EXPLOSION PROOF LISTING.
- 6.) WINDING RESISTANCE ± 7.5%. WINDING RESISTANCE MEASURED IN OHMS @ 25°C (BETWEEN LINES) AT MOTOR LEADS.
- 7.) PUMP RATED FOR OPERATION AT ± 10% VOLTAGE AT MOTOR.
- 8.) CORD SUFFIX: XF - 50 FEET, XJ - 75 FEET, OR XL - 100 FEET. CORD SOLD SEPARATELY.
- 9.) ALL EXPLOSION PROOF PUMPS AND MOTORS ARE CSA EXPLOSION-PROOF TO CLASS I DIVISION 1 GROUPS C&D T4 RATING

CHART 'E'

MODEL NO.	SIZE	IMP. DIA. INCHES (MM)	HP	VOLT	PH	HZ	RPM	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE	CORD O.D.	WINDING RESISTANCE
7366-860-32-32N	8D	9.45 (240)	25.0	208	3	60	1750	G	77.8	1.2	93.4	359.0	4	138319	2/4 - 18/4	1.47 ± .03	.098
				230					82.3								
7366-860-33-32N	8D	9.84 (250)	30.0	208	3	60	1750	E	93.4	1.2	116.9	359.0	4	138319	2/4 - 18/4	1.47 ± .03	.098
				230					98.7								
7366-860-49-32N	8D	10.43 (265)	40.0	230	3	60	1750	E	106.0	1.2	126.4	486.0	4	138319	2/4 - 18/4	1.47 ± .03	.063
				460					63.2								
7366-860-64-32N	8D	10.43 (265)	40.0	230	3	60	1750	E	53.0	1.2	63.2	243.0	4	138318	6/4 - 18/4	1.14 ± .03	.248
				460					50.6								
7366-860-79-32N	8D	10.43 (265)	40.0	575	3	60	1750	E	42.4	1.2	50.6	194.4	4	138317	8/4 - 18/4	1.12 ± .02	.382
				460					79.0								
7366-860-65-32N	8D	11.02 (280)	50.0	460	3	60	1750	F	67.1	1.2	79.0	339.0	4	138318	6/4 - 18/4	1.14 ± .03	.15
				575					63.2								
7366-860-80-32N	8D	11.02 (280)	50.0	575	3	60	1750	F	53.7	1.2	63.2	271.2	4	138318	6/4 - 18/4	1.14 ± .03	.245
				460					95.5								
7366-860-66-32N	8D	11.42 (290)	60.0	460	3	60	1750	E	79.0	1.2	95.5	339.0	4	138319	2/4 - 18/4	1.47 ± .03	.15
				575					76.4								
7366-860-81-32N	8D	11.42 (290)	60.0	575	3	60	1750	E	63.2	1.2	76.4	271.2	4	138318	6/4 - 18/4	1.14 ± .03	.245
				208					60.3								
7366-861-31-32N	8D	11.42 (290)	20.0	208	3	60	1150	H	57.2	1.2	71.5	354.0	4	138318	6/4 - 18/4	1.14 ± .03	.1117
				230					69.8								
7366-861-32-32N	8D	12.01 (305)	25.0	208	3	60	1150	G	75.2	1.2	90.8	354.0	4	138319	2/4 - 18/4	1.47 ± .03	.1117
				230					82.6								
7366-861-92-32N	8D	12.01 (305)	25.0	460	3	60	1150	G	35.4	1.2	41.3	177.0	4	138317	8/4 - 18/4	1.12 ± .02	.4397
				575					33.0								
7366-861-1B-32N	8D	12.01 (305)	25.0	575	3	60	1150	G	28.3	1.2	33.0	141.6	4	138317	8/4 - 18/4	1.12 ± .02	.6857
				208					32.0								
7366-862-39-32N	8D	10.83 (275)	7.5	208	3	60	870	L	34.6	1.2	35.0	230.0	4	138317	8/4 - 18/4	1.12 ± .02	.199
				230					36.9								
7366-862-1U-32N	8D	10.83 (275)	7.5	460	3	60	870	L	17.3	1.2	18.5	115.0	4	138317	8/4 - 18/4	1.12 ± .02	.795
				575					13.9								
7366-862-1V-32N	8D	10.83 (275)	7.5	575	3	60	870	L	37.2	1.2	42.0	92.0	4	138317	8/4 - 18/4	1.12 ± .02	1.27
				208					38.6								
7366-862-37-32N	8D	11.81 (300)	10.0	208	3	60	870	L	19.3	1.2	21.1	230.0	4	138317	8/4 - 18/4	1.12 ± .02	.199
				230					42.2								
7366-862-89-32N	8D	11.81 (300)	10.0	460	3	60	870	L	15.4	1.2	16.9	115.0	4	138317	8/4 - 18/4	1.12 ± .02	.795
				575					59.0								
7366-862-98-32N	8D	11.81 (300)	10.0	575	3	60	870	L	50.4	1.2	55.6	230.0	4	138317	8/4 - 18/4	1.12 ± .02	1.27
				208					27.8								
7366-862-38-32N	8D	12.01 (305)	15.0	208	3	60	870	G	48.4	1.2	55.6	230.0	4	138317	8/4 - 18/4	1.12 ± .02	.199
				230					22.2								
7366-862-90-32N	8D	12.01 (305)	15.0	460	3	60	870	G	24.2	1.2	27.8	115.0	4	138317	8/4 - 18/4	1.12 ± .02	.795
				575					19.4								
7366-862-99-32N	8D	12.01 (305)	15.0	575	3	60	870	G	19.4	1.2	22.2	92.0	4	138317	8/4 - 18/4	1.12 ± .02	1.27
				208					35.0								

▲ CORD SOLD SEPARATELY.

**IMPORTANT !**

- 1.) MOISTURE AND TEMPERATURE SENSORS **MUST** BE CONNECTED TO VALIDATE THE CSA LISTING.
- 2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT CP&S FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
- 3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS.** NOT SUITABLE FOR ENVIRONMENTS CONTAINING GASOLINE OR HEXANE.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANS/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS; RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.
- 5.) WINDING RESISTANCE ± 7.5%. WINDING RESISTANCE MEASURED IN OHMS @ 25°C (BETWEEN LINES) AT MOTOR LEADS.
- 6.) PUMP RATED FOR OPERATION AT ± 10% VOLTAGE AT MOTOR.
- 7.) CORD SUFFIX: XF - 50 FEET, XJ - 75 FEET, OR XL - 100 FEET. CORD SOLD SEPARATELY.

CHART 'F'

MODEL NO.	SIZE	IMP. DIA. INCHES (MM)	HP	VOLT PH	HZ	RPM	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE	CORD O.D.	WINDING RESISTANCE
7366-850-66-32N	8T	9.84 (250)	60.0	460 3	60	1750	E	79.0	1.2	95.5	339.0	4	138319	2/4 - 18/4	1.47 ± .03	.15
7366-850-81-32N	8T	9.84 (250)	60.0	575 3	60	1750	E	63.2	1.2	76.4	271.2	4	138318	6/4 - 18/4	1.14 ± .03	.245
7366-823-31-32N	8T	**	20.0	208 230	3	1150	H	60.3 57.2	1.2	71.5 69.8	354.0	4	138318	6/4 - 18/4	1.14 ± .03	.3277
7366-823-32-32N	8T	10.24 (260)	25.0	208 230	3	1150	G	75.2 70.8	1.2	90.8 82.6	354.0	4	138319	2/4 - 18/4	1.47 ± .03	.1117
7366-823-92-32N	8T	10.24 (260)	25.0	460 3	60	1150	G	35.4	1.2	41.3	177.0	4	138317	8/4 - 18/4	1.12 ± .02	.4397
7366-823-1B-32N	8T	10.24 (260)	25.0	575 3	60	1150	G	28.3	1.2	33.0	141.6	4	138317	8/4 - 18/4	1.12 ± .02	.6857
7366-823-33-32N	8T	10.63 (270)	30.0	208 230	3	1150	E	90.8 82.6	1.2	114.9 99.7	354.0	4	138319	2/4 - 18/4	1.47 ± .03	.1117
7366-823-93-32N	8T	10.63 (270)	30.0	460 3	60	1150	E	41.3	1.2	49.9	177.0	4	138317	8/4 - 18/4	1.12 ± .02	.4397
7366-823-1C-32N	8T	10.63 (270)	30.0	575 3	60	1150	E	33.0	1.2	39.9	141.6	4	138317	8/4 - 18/4	1.12 ± .02	.6857
7366-823-49-32N	8T	11.61 (295)	40.0	230 3	60	1150	E	110.4	1.2	131.8	476.0	4	138319	2/4 - 18/4	1.47 ± .03	.0819
7366-823-64-32N	8T	11.61 (295)	40.0	460 3	60	1150	E	55.2	1.2	65.9	238.0	4	138318	6/4 - 18/4	1.14 ± .03	.3277
7366-823-79-32N	8T	11.61 (295)	40.0	575 3	60	1150	E	44.2	1.2	52.7	190.4	4	138317	8/4 - 18/4	1.12 ± .02	.5443

▲ CORD SOLD SEPARATELY.

**IMPORTANT !**

- 1.) MOISTURE AND TEMPERATURE SENSORS **MUST** BE CONNECTED TO VALIDATE THE CSA LISTING.
- 2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT CP&S FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
- 3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS.** NOT SUITABLE FOR ENVIRONMENTS CONTAINING GASOLINE OR HEXANE.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS; RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.
- 5.) WINDING RESISTANCE ± 7.5%. WINDING RESISTANCE MEASURED IN OHMS @ 25°C (BETWEEN LINES) AT MOTOR LEADS.
- 6.) PUMP RATED FOR OPERATION AT ± 10% VOLTAGE AT MOTOR.
- 7.) CORD SUFFIX: XF - 50 FEET, XJ - 75 FEET, OR XL - 100 FEET. CORD SOLD SEPARATELY.

MODEL NO.	SIZE	IMP. DIA. INCHES (MM)	HP	VOLT	PH	HZ	RPM	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE	CORD O.D.	WINDING RESISTANCE
7366-851-39-32N	8T	**	7.5	208 230	3	60	870	L	32.0 34.6	1.2	35.0 36.9	230.0	4	138317	8/4 - 18/4	1.12 ± .02	.199
7366-851-1U-32N	8T	**	7.5	460	3	60	870	L	17.3	1.2	18.5	115.0	4	138317	8/4 - 18/4	1.12 ± .02	.795
7366-851-1V-32N	8T	**	7.5	575	3	60	870	L	13.9	1.2	14.8	92.0	4	138317	8/4 - 18/4	1.12 ± .02	1.27
7366-851-37-32N	8T	10.24 (260)	10.0	208 230	3	60	870	L	37.2 38.6	1.2	42.0 42.2	230.0	4	138317	8/4 - 18/4	1.12 ± .02	.199
7366-851-89-32N	8T	10.24 (260)	10.0	460	3	60	870	L	19.3	1.2	21.1	115.0	4	138317	8/4 - 18/4	1.12 ± .02	.795
7366-851-98-32N	8T	10.24 (260)	10.0	575	3	60	870	L	15.4	1.2	16.9	92.0	4	138317	8/4 - 18/4	1.12 ± .02	1.27
7366-851-38-32N	8T	11.61 (295)	15.0	208 230	3	60	870	G	50.4 48.4	1.2	59.0 55.6	230.0	4	138317	8/4 - 18/4	1.12 ± .02	.199
7366-851-90-32N	8T	11.61 (295)	15.0	460	3	60	870	G	24.2	1.2	27.8	115.0	4	138317	8/4 - 18/4	1.12 ± .02	.795
7366-851-99-32N	8T	11.61 (295)	15.0	575	3	60	870	G	19.4	1.2	22.2	92.0	4	138317	8/4 - 18/4	1.12 ± .02	1.27
7366-851-31-32N	8T	12.60 (320)	20.0	208 230	3	60	870	J	69.0 75.1	1.2	76.0 79.0	400.0	4	138318	6/4 - 18/4	1.14 ± .03	.121
7366-851-91-32N	8T	12.60 (320)	20.0	460	3	60	870	J	37.6	1.2	41.1	200.0	4	138317	8/4 - 18/4	1.12 ± .02	.483
7366-851-1A-32N	8T	12.60 (320)	20.0	575	3	60	870	J	30.1	1.2	32.9	160.0	4	138317	8/4 - 18/4	1.12 ± .02	.77
7366-851-32-32N	8T	13.58 (345)	25.0	208 230	3	60	870	H	82.3 84.0	1.2	98.8 94.5	400.0	4	138319	2/4 - 18/4	1.47 ± .03	.121
7366-851-92-32N	8T	13.58 (345)	25.0	460	3	60	870	H	42.0	1.2	47.2	200.0	4	138317	8/4 - 18/4	1.12 ± .02	.483
7366-851-1B-32N	8T	13.58 (345)	25.0	575	3	60	870	H	33.6	1.2	37.8	160.0	4	138317	8/4 - 18/4	1.12 ± .02	.77
7366-851-33-32N	8T	14.17 (360)	30.0	208 230	3	60	870	F	98.8 94.5	1.2	124.1 108.6	400.0	4	138319	2/4 - 18/4	1.47 ± .03	.121
7366-851-93-32N	8T	14.17 (360)	30.0	460	3	60	870	F	47.2	1.2	54.3	200.0	4	138317	8/4 - 18/4	1.12 ± .02	.483
7366-851-1C-32N	8T	14.17 (360)	30.0	575	3	60	870	F	37.8	1.2	43.5	160.0	4	138317	8/4 - 18/4	1.12 ± .02	.77

▲ CORD SOLD SEPARATELY.

**IMPORTANT !**

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- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANS/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS; RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.
- 5.) WINDING RESISTANCE ± 7.5%. WINDING RESISTANCE MEASURED IN OHMS @ 25°C (BETWEEN LINES) AT MOTOR LEADS.
- 6.) PUMP RATED FOR OPERATION AT ± 10% VOLTAGE AT MOTOR.
- 7.) CORD SUFFIX: XF - 50 FEET, XJ - 75 FEET, OR XL - 100 FEET. CORD SOLD SEPARATELY.

CHART 'H'

MODEL NO.	SIZE	IMP. DIA. INCHES (MM)	HP	VOLT	PH	HZ	RPM	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE	CORD O.D.	WINDING RESISTANCE
7366-X54-32-32N	10DH	11.81 (300)	25.0	208 230	3	60	1150	G	75.2 70.8	1.2 1.2	90.8 82.6	354.0	4	138319	2/4 - 18/4	1.47 ± .03	.1117
7366-X54-92-32N	10DH	11.81 (300)	25.0	460	3	60	1150	G	35.4	1.2	41.3	177.0	4	138317	8/4 - 18/4	1.12 ± .02	.4397
7366-X54-1B-32N	10DH	11.81 (300)	25.0	575	3	60	1150	G	28.3	1.2	33.0	141.6	4	138317	8/4 - 18/4	1.12 ± .02	.6857
7366-X54-33-32N	10DH	12.20 (310)	30.0	208 230	3	60	1150	E	90.8 82.6	1.2 1.2	114.9 99.7	354.0	4	138319	2/4 - 18/4	1.47 ± .03	.1117
7366-X54-93-32N	10DH	12.20 (310)	30.0	460	3	60	1150	E	41.3	1.2	49.9	177.0	4	138317	8/4 - 18/4	1.12 ± .02	.4397
7366-X54-1C-32N	10DH	12.20 (310)	30.0	575	3	60	1150	E	33.0	1.2	39.9	141.6	4	138317	8/4 - 18/4	1.12 ± .02	.6857
7366-X54-49-32N	10DH	13.19 (335)	40.0	230	3	60	1150	E	110.4	1.2	131.8	476.0	4	138319	2/4 - 18/4	1.47 ± .03	.0819
7366-X54-64-32N	10DH	13.19 (335)	40.0	460	3	60	1150	E	55.2	1.2	65.9	238.0	4	138318	6/4 - 18/4	1.14 ± .03	.3277
7366-X54-79-32N	10DH	13.19 (335)	40.0	575	3	60	1150	E	44.2	1.2	52.7	190.4	4	138317	8/4 - 18/4	1.12 ± .02	.5443
7366-X55-37-32N	10DH	11.42 (290)	10.0	208 230	3	60	870	L	37.2 38.6	1.2	42.0 42.2	230.0	4	138317	8/4 - 18/4	1.12 ± .02	.199
7366-X55-89-32N	10DH	11.42 (290)	10.0	460	3	60	870	L	19.3	1.2	21.1	115.0	4	138317	8/4 - 18/4	1.12 ± .02	.795
7366-X55-98-32N	10DH	11.42 (290)	10.0	575	3	60	870	L	15.4	1.2	16.9	92.0	4	138317	8/4 - 18/4	1.12 ± .02	1.27
7366-X55-38-32N	10DH	12.60 (320)	15.0	208 230	3	60	870	G	50.4 48.4	1.2	59.0 55.6	230.0	4	138317	8/4 - 18/4	1.12 ± .02	.199
7366-X55-90-32N	10DH	12.60 (320)	15.0	460	3	60	870	G	24.2	1.2	27.8	115.0	4	138317	8/4 - 18/4	1.12 ± .02	.795
7366-X55-99-32N	10DH	12.60 (320)	15.0	575	3	60	870	G	19.4	1.2	22.2	92.0	4	138317	8/4 - 18/4	1.12 ± .02	1.27
7366-X55-31-32N	10DH	13.58 (345)	20.0	208 230	3	60	870	J	69.0 75.1	1.2	76.0 79.0	400.0	4	138318	6/4 - 18/4	1.14 ± .03	.121
7366-X55-91-32N	10DH	13.58 (345)	20.0	460	3	60	870	J	37.6	1.2	41.1	200.0	4	138317	8/4 - 18/4	1.12 ± .02	.483
7366-X55-1A-32N	10DH	13.58 (345)	20.0	575	3	60	870	J	30.1	1.2	32.9	160.0	4	138317	8/4 - 18/4	1.12 ± .02	.77
7366-X55-32-32N	10DH	14.17 (360)	25.0	208 230	3	60	870	H	82.3 84.0	1.2	98.8 94.5	400.0	4	138319	2/4 - 18/4	1.47 ± .03	.121
7366-X55-92-32N	10DH	14.17 (360)	25.0	460	3	60	870	H	42.0	1.2	47.2	200.0	4	138317	8/4 - 18/4	1.12 ± .02	.483
7366-X55-1B-32N	10DH	14.17 (360)	25.0	575	3	60	870	H	33.6	1.2	37.8	160.0	4	138317	8/4 - 18/4	1.12 ± .02	.77

▲ CORD SOLD SEPARATELY.

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- 2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT CP&S FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
- 3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS.** NOT SUITABLE FOR ENVIRONMENTS CONTAINING GASOLINE OR HEXANE.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANS/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS; RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.
- 5.) WINDING RESISTANCE ± 7.5%. WINDING RESISTANCE MEASURED IN OHMS @ 25°C (BETWEEN LINES) AT MOTOR LEADS.
- 6.) PUMP RATED FOR OPERATION AT ± 10% VOLTAGE AT MOTOR.
- 7.) CORD SUFFIX: XF - 50 FEET, XJ - 75 FEET, OR XL - 100 FEET. CORD SOLD SEPARATELY.

CHART 'J'

MODEL NO.	SIZE	IMP. DIA. INCHES (MM)	HP	VOLT	PH	HZ	RPM	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE	CORD O.D.	WINDING RESISTANCE
7366-X52-49-32N	10DL	13.78 (350)	40.0	230	3	60	1150	E	110.4	1.2	131.8	476.0	4	138319	2/4 - 18/4	1.47 ± .03	.819
7366-X52-64-32N	10DL	13.78 (350)	40.0	460	3	60	1150	E	55.2	1.2	65.9	238.0	4	138318	6/4 - 18/4	1.14 ± .03	.3277
7366-X52-79-32N	10DL	13.78 (350)	40.0	575	3	60	1150	E	44.2	1.2	52.7	190.4	4	138317	8/4 - 18/4	1.12 ± .02	.5443
7366-X53-38-32N	10DL	13.39 (340)	15.0	208 230	3	60	870	G	50.4 48.4	1.2	59.0 55.6	230.0	4	138317	8/4 - 18/4	1.12 ± .02	.199
7366-X53-90-32N	10DL	13.39 (340)	15.0	460	3	60	870	G	24.2	1.2	27.8	115.0	4	138317	8/4 - 18/4	1.12 ± .02	.795
7366-X53-99-32N	10DL	13.39 (340)	15.0	575	3	60	870	G	19.4	1.2	22.2	92.0	4	138317	8/4 - 18/4	1.12 ± .02	1.27
7366-X53-31-32N	10DL	14.37 (365)	20.0	208 230	3	60	870	J	69.0 75.1	1.2	76.0 79.0	400.0	4	138318	6/4 - 18/4	1.14 ± .03	.121
7366-X53-91-32N	10DL	14.37 (365)	20.0	460	3	60	870	J	37.6	1.2	41.1	200.0	4	138317	8/4 - 18/4	1.12 ± .02	.483
7366-X53-1A-32N	10DL	14.37 (365)	20.0	575	3	60	870	J	30.1	1.2	32.9	160.0	4	138317	8/4 - 18/4	1.12 ± .02	.77
7366-X53-32-32N	10DL	15.16 (385)	25.0	208 230	3	60	870	H	82.3 84.0	1.2	98.8 94.5	400.0	4	138319	2/4 - 18/4	1.47 ± .03	.121
7366-X53-92-32N	10DL	15.16 (385)	25.0	460	3	60	870	H	42.0	1.2	47.2	200.0	4	138317	8/4 - 18/4	1.12 ± .02	.483
7366-X53-1B-32N	10DL	15.16 (385)	25.0	575	3	60	870	H	33.6	1.2	37.8	160.0	4	138317	8/4 - 18/4	1.12 ± .02	.77
7366-X53-33-32N	10DL	16.14 (410)	30.0	208 230	3	60	870	F	98.8 94.5	1.2	124.1 108.6	400.0	4	138319	2/4 - 18/4	1.47 ± .03	.121
7366-X53-93-32N	10DL	16.14 (410)	30.0	460	3	60	870	F	47.2	1.2	54.3	200.0	4	138317	8/4 - 18/4	1.12 ± .02	.483
7366-X53-1C-32N	10DL	16.14 (410)	30.0	575	3	60	870	F	37.8	1.2	43.5	160.0	4	138317	8/4 - 18/4	1.12 ± .02	.77

▲ CORD SOLD SEPARATELY.

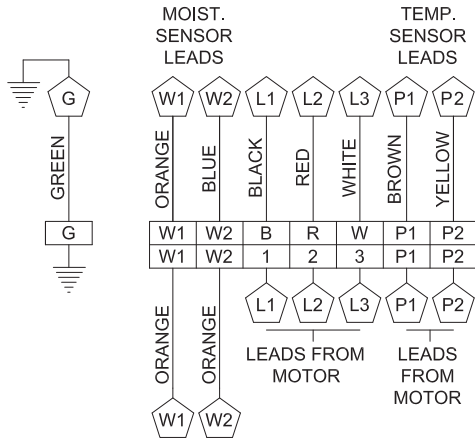
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- 2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT CP&S FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
- 3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS.** NOT SUITABLE FOR ENVIRONMENTS CONTAINING GASOLINE OR HEXANE.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS; RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.
- 5.) WINDING RESISTANCE ± 7.5%. WINDING RESISTANCE MEASURED IN OHMS @ 25°C (BETWEEN LINES) AT MOTOR LEADS.
- 6.) PUMP RATED FOR OPERATION AT ± 10% VOLTAGE AT MOTOR.
- 7.) CORD SUFFIX: XF - 50 FEET, XJ - 75 FEET, OR XL - 100 FEET. CORD SOLD SEPARATELY.

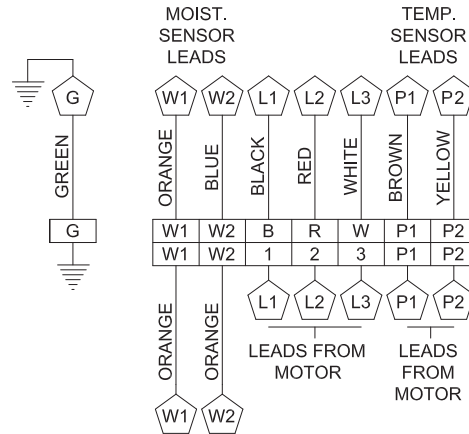
CHART 'K'

THREE PHASE 460-575 VOLT AC	
Power Cable	Motor Lead ID
Green (Ground)	Green
Black	1
Red	2
White	3

MOISTURE AND TEMPERATURE SENSORS	
Control Cable	Lead ID
Brown	P1 (Temperature Sensor)
Yellow	P2 (Temperature Sensor)
Orange	W1 (Moisture Sensor)
Blue	W2 (Moisture Sensor)

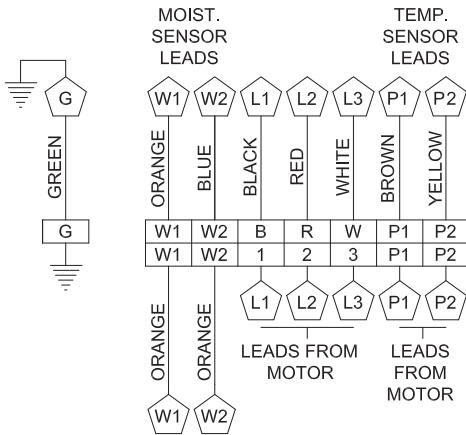


INTERNAL PUMP CONNECTIONS  
THREE PHASE: 460/575 VOLTS



INTERNAL PUMP CONNECTIONS  
THREE PHASE: 575 VOLTS

THREE PHASE 208-230 VOLT AC	
Power Cable	Motor Lead ID
Green (Ground)	Green
Black	1
Red	2
White	3



INTERNAL PUMP CONNECTIONS  
THREE PHASE: 208-230 VOLTS

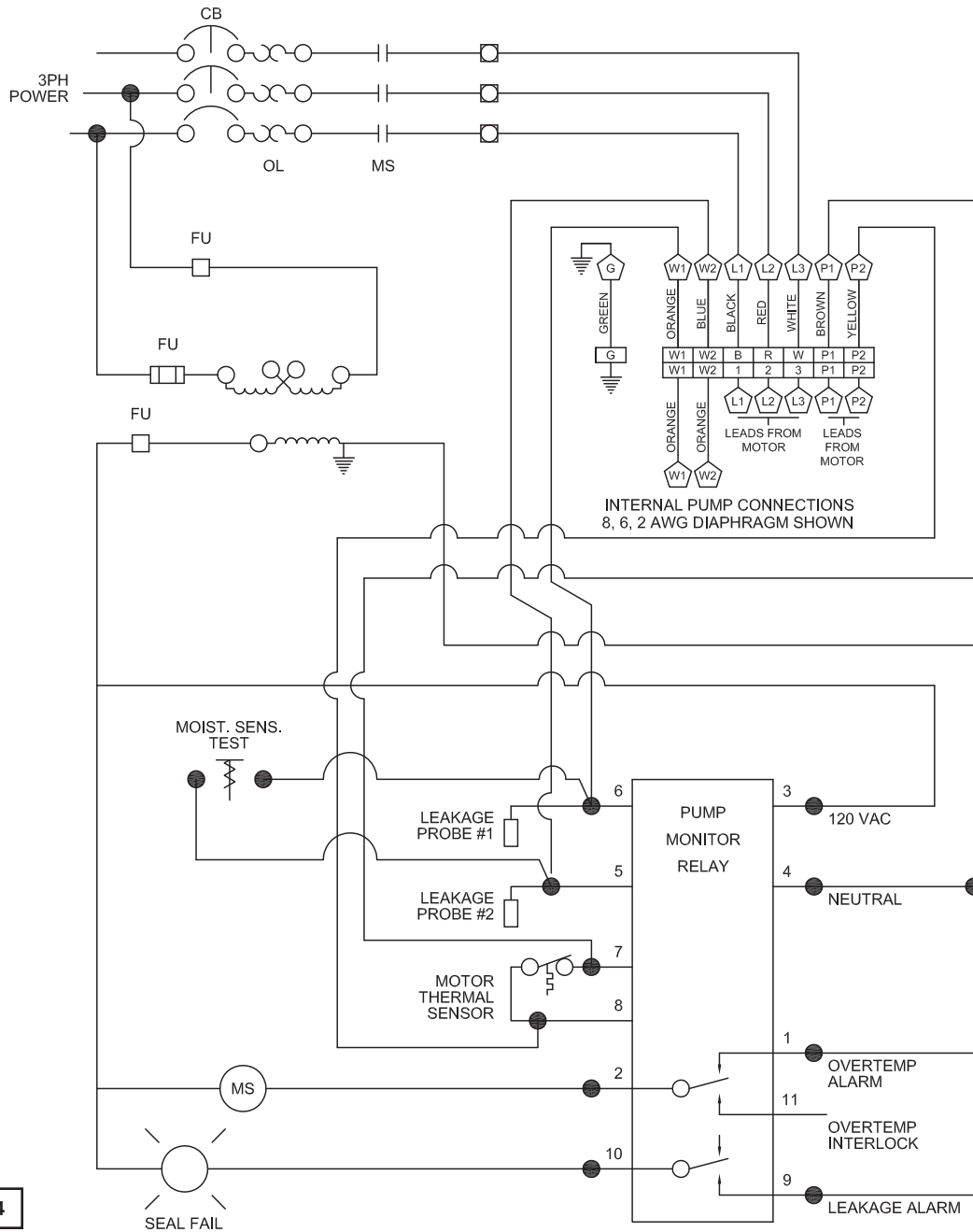
FIGURE 3

**External Ground Note:**

(Grd symbol) An external ground screw is provided on the side of the motor cap which can be used for supplemental bonding connection where local codes permit or require such connection.



## WIRING DIAGRAM



**FIGURE 4**

### **B-4.3) Overload Protection:**

Current sensing overloads must be provided in the pump control panel and should be properly sized for the full load current of the pump. Three normally closed (N/C) thermal sensors wired in series (one per phase) are embedded in the motor windings and will detect excessive heat in the event an overload condition occurs which will then trip and stop the pump when wired in series with the pump contactor control circuit. The thermal sensor leads marked P1 and P2 MUST be connected in series with the stop button of the pilot circuit of the magnetic motor controller located in the control panel so that the thermostat will open the circuit before dangerous temperatures are reached. A manual

momentary start switch is required to prevent the automatic restarting of the motor when the thermostat resets. For a typical wiring diagram, refer to Figure 4.

In the event of an over temperature condition, the source of this condition should be determined and rectified before the pump is put back into normal operation. **DO NOT LET THE PUMP CYCLE OR RUN IF AN OVER TEMPERATURE CONDITION OCCURS!**

If current through the temperature sensor exceeds the values listed, an intermediate control circuit relay must be used to reduce the current or the sensor will not work properly.

TABLE 1 TEMPERATURE SENSOR ELECTRICAL RATINGS		
Volts	Continuous Amperes	Inrush Amperes
110-120	3.00	30.0
220-240	1.50	15.0
440-480	0.75	7.5

## SECTION: C START-UP OPERATION

### B-4.4) Moisture Sensors:

A normally open (N/O) detector is installed in the pump seal chamber, which will detect any moisture present, and a continuity test resistor built into the motor. The test resistor is rated 1 watt at 330K ohms. The moisture sensors **MUST** be connected to moisture detector control in the control panel which includes a continuity test circuit, see Figure 4 for typical wiring diagram. The normally closed (N/C) contact of the moisture detector **MUST** be connected in series with the stop button of the pilot circuit of the magnetic motor controller. Wiring must be provided from the moisture detector sensor probe leads of the motor designated W1 and W2 to terminals 9 and 10 of the 2800-XXX control. Terminal pair 1-2 must be continuously energized from an A-C supply line of electrical characteristics shown on the data table. In the event of moisture detection, the pump should be pulled and the source of the failure located and repaired. **IF MOISTURE DETECTION HAS OCCURRED, SCHEDULE MAINTENANCE AS SOON AS POSSIBLE !**

### B-4.5) Control Panel and Electrical System:

The control panel and the electrical system **MUST** be properly designed and wired to include at least, but not limited to the following;

- a. Proper grounding per NEC.
- b. A temperature sensing circuit (see Fig. 4)
- c. A moisture detection circuit with continuity test circuit (see Figure 5)
- d. A level control system.
- e. A main power manual disconnect and lock out.
- f. A motor starter and overload system.

It is advisable that all three phase control panels be purchased from the factory.

If a panel is to be supplied locally, it is recommended that the Crane Pumps & Systems Pump Monitor Relay (P/N 134667) be used to perform the control circuit functions for the Temperature and Moisture Sensor Monitoring described in sections B4.3 and B4.4. The Pump Monitor Relay was designed to perform these functions in a compact module that can be base or panel mounted and is resistant to noise issues found with some VFD's. Indicator lights on the front display notify the operator in the event of a fault condition for either temperature, moisture or both. Normally open and normally closed contacts are flexible to accommodate nearly any wiring scenario and the moisture sensor sensitivity can be adjusted to prevent nuisance alarms.

### B-5) When Used with a Variable Speed Drive:

Maximum turndown should not exceed 2:1. Drive should be set to operate in constant torque mode.

### C-1) Check Voltage and Phase:

Before operating pump, compare the voltage and phase information stamped on the pump's identification plate to the available power.

### C-2) Check Pump Rotation:

Before putting pump into service for the first time, the motor rotation must be checked. Improper motor rotation can result in poor pump performance and can damage the motor and/or pump. To check the rotation, suspend the pump freely, momentarily apply power and observe the "kickback". "Kickback" should always be in a counter-clockwise direction as viewed from the top of the pump motor housing and will always be in the opposite direction of the rotation arrows cast in the pump volute.

#### C-2.1) Incorrect Rotation for Three-Phase Pumps:

In the event that the rotation is incorrect for a three-phase installation, interchange any two power cable leads at the control box. Recheck the "kickback" rotation again by momentarily applying power.

#### C-2.2) Test Procedure For Moisture Sensor Control:

With a moisture detection control, a normally closed push button and neon indicating lamp is typically provided as a means of checking the moisture sensing components. When the push button is depressed, the indicating lamp will be illuminated to indicate (A) power is supplied to the control, (B) the control is operative, and (C) wiring to the moisture sensing probes in the motor is intact. This procedure should be performed periodically to confirm integrity of the circuit.

### C-3) Start-Up Report:

Included at the end of this manual is one start-up report sheet, this sheet is to be completed as applicable. Return a copy to Barnes and store the second in the control panel or with the pump manual. It is important to record this data at initial start-up since it will be useful to refer to should servicing the pump be required in the future.

#### C-3.1) Identification Plate:

Record the numbers from the pump's identification plate on the START-UP REPORT provided at the end of the manual for future reference.

#### C-3.2) Insulation Test:

Before the pump is put into service, an insulation (megger) test should be performed on the motor. The resistance values (ohms) as well as the voltage (volts) and current (amps) should be recorded on the start-up report. Pumps/systems with an insulation value of less than 5 M-Ohms should be investigated for moisture or damaged cables before proceeding.

### C-3.3) Pump-Down Test:

After the pump has been properly wired and lowered into the basin, sump or lift station, it is advisable to check the system by filling with liquid and allowing the pump to operate through its pumping cycle. The time needed to empty the system, or pump-down time along with the volume of water, should be recorded on the start-up report.

**IMPORTANT! THE MAXIMUM ALLOWABLE STARTS PER HOUR IS 15, EVENLY SPACED.**

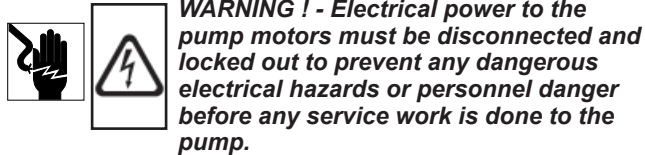
## SECTION D: PREVENTATIVE MAINTENANCE

As the motor and seal chamber are oil-filled, no lubrication or other maintenance is required, and generally Barnes Pumps will give very reliable service and can be expected to operate for years of normal sewage pumping without failing. However, as with any mechanical piece of equipment a preventive maintenance program is recommended and suggested to include the following checks:

- 1) Test moisture detector control "Test Switch" for continuity of circuit. Water in the seal chamber will energize a seal leak warning light at the control panel. This is a warning light only and does not stop the motor. It indicates the seal has leaked and must be repaired. This should be done within 2 or 3 weeks to prevent further damage. See section C-2.2.
- 2) Inspect impeller and body for excessive build-up or clogging and repair as required per section E-2.
- 3) Inspect outer shaft seal and replace as required per section E-3.
- 4) Check motor for ground leakage and proper amp draw.

## SECTION E: SERVICE AND REPAIR

NOTE: All item numbers in ( ) refer to Figures 8 & 9.



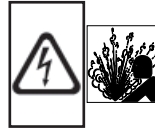
### E-1) Lubrication

#### E-1.1) Checking Oil

1. Place pump on its side, and drain oil into a clean, dry container.
2. Check oil for contamination using an oil tester with a range to 30 Kilovolts breakdown.
3. If oil is found to be clean and uncontaminated (measure above 15 KV. breakdown), refill the seal chamber as per section E-1.2.
4. If oil is found to be dirty or contaminated (or measures below 15 KV. breakdown), the pump must be carefully inspected for leaks at the shaft seal (4), before refilling with oil. To locate the leak, perform a pressure test as per section E-1.3. After leak is repaired, refill with new oil as per section E-1.2.

### E-1.2) Replacing Oil:

Seal Chamber - Drain all oil from seal chamber and dispose of properly. Refill with (see parts list for amount) new cooling oil as per Table 2. An air space must remain to compensate for oil expansion (See Fig. 9 and 12). Set unit on side and fill.



**IMPORTANT! - Do not overfill oil. Overfilling of seal chamber with oil can create excessive and dangerous hydraulic pressure which can destroy the pump and create a hazard. Overfilling oil voids warranty.**

### E-1.3) Pressure Test:

Seal Chamber - Before checking the pump for leaks around the shaft seal, the oil level should be full. Remove pipe plug. Apply pipe sealant to pressure gauge assembly and tighten into pipe plug hole. Pressurize motor housing to 10 P.S.I. Use a soap solution around the sealed area and inspect joints for "air bubbles". If, after five minutes, the pressure is still holding constant, and no "bubbles" are observed, slowly bleed the pressure and remove the gauge assembly. Replace the pipe plug using a sealant. If the pressure does not hold, then the leak must be located.

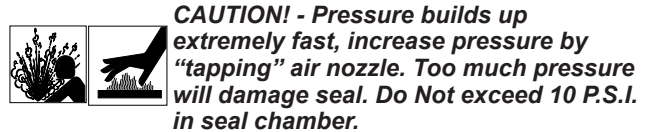


TABLE 2 - COOLING OIL - Dielectric	
SUPPLIER	GRADE
BP	Enerpar SE100
Conoco	Pale Paraffin 22
Mobil	D.T.E. Oil Light
G & G Oil	Circulating 22
Imperial Oil	Voltesso-35
Shell Canada	Transformer-10
Texaco	Diala-Oil-AX
Woco	Premium 100

### E-2) Impeller and Volute Service:

#### E-2.1) Disassembly and Inspection:

To clean out the volute (10), or clean out or replace impeller (6), disconnect power, remove cap screws (2) then vertically lift motor assembly from the pump body (10). Clean out the volute, if necessary, clean and examine impeller (6) for pitting or wear, replace if required. To remove Impeller (6), remove cap screw (8) and washer (8A). The impeller is keyed onto the shaft with a square key (7) and to remove, pull impeller straight off the shaft using a wheel puller if required. Inspect o-ring (9) and replace if cut or damaged. Before reinstallation, check the motor shaft and impeller bore for damage.

### E-2.2) Reassembly:

To install impeller (6), apply a thin film of oil to motor shaft and slide impeller straight onto shaft, keeping keyways lined up. Drive key (7) into keyway. Thread cap screw (8) and washer (8A) into shaft and torque to 45 ft. lbs. Rotate impeller to check for binding. Place o-ring (9) on seal plate pilot diameter lining up holes and install impeller and motor assembly onto volute (10). Loctite cap screws (2), insert into volute and motor assembly and torque to 35 ft. lbs. Check for free rotation of motor and impeller.

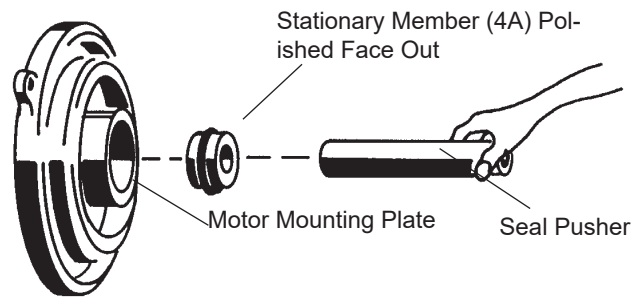


FIGURE 6

### E-3) Outer Shaft Seal Service:



**CAUTION ! - Handle seal parts with extreme care. DO NOT scratch or mar lapped surfaces.**

#### E-3.1) Disassembly and Inspection:

To expose outer shaft seal (4) for examination, remove Impeller and Volute per Section E-2.1. Set motor assembly (1) in the inverted position to prevent loss of oil. Remove snap ring from motor shaft, then retaining ring (5), spring (4C) and rotating member (4B) from shaft, See Figure 6. Examine all seal parts and especially contact faces. Inspect seal for signs of wear such as uneven wear pattern on stationary members, chips and scratches on either seal face. **DO NOT** interchange seal components, replace the entire shaft seal (4). If replacing seal, remove stationary (4A) from mounting plate by prying out with flat screw driver.

#### E-3.2) Reassembly:

Lightly oil (**DO NOT use grease**) outer surface of stationary member (4A). Press stationary member (4A) firmly into mounting plate using a seal pusher aligning seal with pin, nothing but the seal pusher is to come in contact with seal face (See Fig. 7).

Make sure the stationary member is in straight and that the rubber ring is not out of its groove. Lightly oil (**DO NOT use grease**) shaft and inner surface of bellows on rotating member (4B) facing inward toward stationary member (4A), slide rotating member (4B) onto shaft using a seal pusher, until lapped faces of (4A) and (4B) are together. (See Fig. 8).

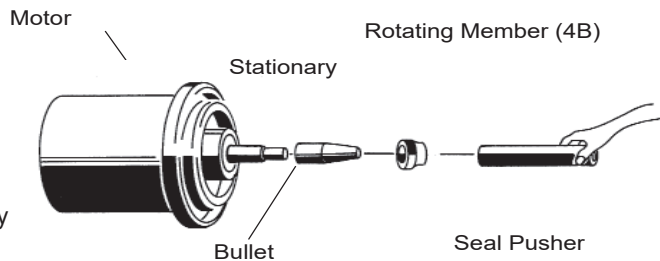


FIGURE 7



**IMPORTANT ! - It is extremely important to keep seal faces clean during assembly. dirt particles lodged between these faces will cause the seal to leak.**

Place spring (4C) over shaft and in place on rotating member (4B), making sure it is seated on retainer and not cocked or resting on bellows tail. Slide retaining ring (5) over shaft and let rest on spring (4C). Replace snap ring onto motor shaft. Inspect gasket (9) and replace if cut or damaged. Assemble impeller and volute as outlined in paragraph E-2.2.

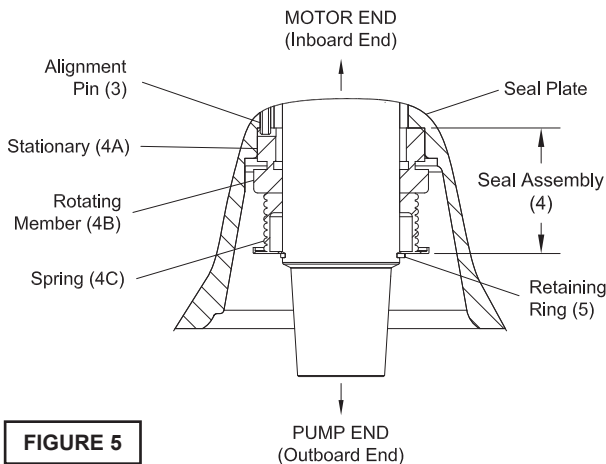


FIGURE 5

**SECTION: F REPLACEMENT PARTS**

**F-1 ORDERING REPLACEMENT PARTS:**

When ordering replacement parts, ALWAYS furnish the following information:

1. Pump serial number and date code. (Paragraph F-4)
2. Pump model number. (Paragraph F-3)
3. Pump part number. (Paragraph F-2)
4. Part description.
5. Item part number.
6. Quantity required.
7. Shipping instructions.
8. Billing Instructions.

<b>CRANE</b>		<small>PUMPS &amp; SYSTEMS</small>		<b>DEMING®</b>	
Power		Ph.	RPM	Volts	
Hz.	FLA.	SFA		SF	
Ambient 0-40°C	Duty CONT.	Code	Weight	Part No.	
Model No.		Serial No.		Imp. Dia.	

- THERMALLY PROTECTED - CONNECT THERMAL CONTACTS  
 - SUBMERSIBLE TO 66 FT - SUBMERSIBLE SEWAGE PUMP - INSUL. CL.: F  
 - CLASS I DIV.1 GROUP C AND D HAZARDOUS LOCATIONS - TEMP CODE: T4

**WARNING**

1. A.) SEE INSTRUCTION MANUAL FOR: PROPER INSTALLATION, CORD REPLACEMENT, MOISTURE SENSOR AND THERMAL CUTOFF WIRING REQUIREMENTS. B.) PUMP MUST BE PROPERLY GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES. C.) DISCONNECT THE PUMP FROM THE POWER SOURCE BEFORE HANDLING OR SERVICING. D.) INSTALLATION AND SERVICE SHALL BE CONDUCTED BY A QUALIFIED PERSON.  
 2. USE WITH APPROVED MOTOR CONTROL THAT MATCHES MOTOR INPUT IN FULL LOAD AMPERES WITH OVERLOAD ELEMENT(S) SELECTED OR ADJUSTED IN ACCORDANCE WITH CONTROL INSTRUCTIONS. (UTILISER UN DÉMARREUR APPROUVÉ CONVENANT AU COURANT À PLEINE CHARGE DU MOTEUR ET DONT LES ÉLÉMENTS THERMIQUES SONT RÉGLÉS OU CHOISIS CONFORMÉMENT AUX INSTRUCTION QUI L'ACCOMPAGNENT).  
 3. KEEP CLEAR OF SUCTION AND DISCHARGE OPENING AT ALL TIMES WHEN POWER IS CONNECTED.  
 4. MOTOR HOUSING WILL CONTAIN HOT OIL UNDER PRESSURE, ALLOW MOTOR TO COOL BEFORE OPENING.  
 5. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, DECORATIVE FOUNTAINS OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH THE PUMPED MEDIA IS A COMMON OCCURRENCE.

6. DO NOT REMOVE CORD AND STRAIN RELIEF.      CSA 108  
 7. DO NOT CONNECT CONDUIT TO PUMP.              LR16667  
 8. DO NOT PUMP FLAMMABLE LIQUIDS  
 9. NOT SUITABLE FOR ENVIRONMENTS CONTAINING GASOLINE OR HEXANE.

127265A

**F-2 PART NUMBER:**

This number is used for ordering and obtaining information.

**F-3 MODEL NUMBER:**

This designation consists of numbers and letters which represent the discharge size, series, horsepower, motor phase and voltage, speed and pump design. This number is used for ordering and obtaining information.

**F-4 SERIAL NUMBER:**

The serial number block will consist of a six digit number, which is specific to each pump and may be preceded by an alpha character, which indicates the plant location. This number will also be suffixed with a four digit number, which indicates the date the unit was built (Date Code). **EXAMPLE: A012345 0490.**

Reference the six digit portion (Serial Number) of this number when referring to the product.

## TROUBLE SHOOTING

**CAUTION !** Always disconnect the pump from the electrical power source before handling.  
 If the system fails to operate properly, carefully read instructions and perform maintenance recommendations.  
 If operating problems persist, the following chart may be of assistance in identifying and correcting them:  
**MATCH “CAUSE” NUMBER WITH CORRELATING “CORRECTION” NUMBER.**

**NOTE:** Not all problems and corrections will apply to each pump model.

PROBLEM	CAUSE	CORRECTION
Pump will not run	<ol style="list-style-type: none"> <li>1. Poor electrical connection, blown fuse, tripped breaker or other interruption of power, improper power supply.</li> <li>2. Motor or switch inoperative (to isolate cause, go to manual operation of pump).</li> <li>2a. Float movement restricted.</li> <li>2b. Switch will not activate pump or is defective.</li> <li>2c. Defective motor</li> <li>3. Insufficient liquid level.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check all electrical connections for security. Have electrician measure current in motor leads, if current is within <math>\pm 20\%</math> of locked rotor Amps, impeller is probably locked. If current is 0, overload may be tripped. Remove power, allow pump to cool, then recheck current.</li> <li>2a. Reposition pump or clean basin as required to provide adequate clearance for float.</li> </ol>
Pump will not turn off	<ol style="list-style-type: none"> <li>2a. Float movement restricted.</li> <li>2b. Switch will not activate pump or is defective.</li> <li>4. Excessive inflow or pump not properly sized for application.</li> <li>9. Pump may be airlocked</li> <li>14. H-O-A switch on panel is in “HAND” position</li> </ol>	<ol style="list-style-type: none"> <li>2b. Disconnect level control. Set ohmmeter for a low range, such as 100 ohms full scale and connect to level control leads. Actuate level control manually and check to see that ohmmeter shows zero ohms for closed switch and full scale for open switch. (Float Switch).</li> <li>2c. Check winding insulation (Megger Test) and winding resistance. If check is outside of range, dry and recheck. If still defective, replace per service instructions.</li> </ol>
Pump hums but does not run	<ol style="list-style-type: none"> <li>1. Incorrect voltage</li> <li>8. Impeller jammed or loose on shaft, worn or damaged, impeller cavity or inlet plugged.</li> </ol>	<ol style="list-style-type: none"> <li>2c. Check winding insulation (Megger Test) and winding resistance. If check is outside of range, dry and recheck. If still defective, replace per service instructions.</li> </ol>
Pump delivers insufficient capacity	<ol style="list-style-type: none"> <li>1. Incorrect voltage.</li> <li>4. Excessive inflow or pump not properly sized for application.</li> <li>5. Discharge restricted.</li> <li>6. Check valve stuck closed or installed backwards.</li> <li>7. Shut-off valve closed.</li> <li>8. Impeller jammed or loose on shaft, worn or damaged, impeller cavity or inlet plugged.</li> <li>9. Pump may be airlocked.</li> <li>10. Pump running backwards</li> </ol>	<ol style="list-style-type: none"> <li>3. Make sure liquid level is at least equal to suggested turn-on point.</li> <li>4. Recheck all sizing calculations to determine proper pump size.</li> <li>5. Check discharge line for restrictions, including ice if line passes through or into cold areas.</li> <li>6. Remove and examine check valve for proper installation and freedom of operation.</li> <li>7. Open valve.</li> </ol>
Pump cycles too frequently or runs periodically when fixtures are not in use	<ol style="list-style-type: none"> <li>6. Check valve stuck closed or installed backwards.</li> <li>11. Fixtures are leaking.</li> <li>15. Ground water entering basin.</li> </ol>	<ol style="list-style-type: none"> <li>8. Check impeller for freedom of operation, security and condition. Clean impeller and inlet of any obstruction.</li> <li>9. Loosen union slightly to allow trapped air to escape. Verify that turn-off level of switch is set so that the suction is always flooded. Clean vent hole.</li> </ol>
Pump shuts off and turns on independent of switch, (trips thermal overload protector). <b>CAUTION!</b> Pump may start unexpectedly. Disconnect power supply.	<ol style="list-style-type: none"> <li>1. Incorrect voltage.</li> <li>4. Excessive inflow or pump not properly sized for application.</li> <li>8. Impeller jammed, loose on shaft, worn or damaged, impeller cavity or inlet plugged.</li> <li>12. Excessive water temperature. (internal protection only)</li> </ol>	<ol style="list-style-type: none"> <li>10. Check rotation. If power supply is three phase, reverse any two of three power supply leads to ensure proper impeller rotation..</li> <li>11. Repair fixtures as required to eliminate leakage.</li> </ol>
Pump operates noisily or vibrates excessively	<ol style="list-style-type: none"> <li>2c. Worn bearings, motor shaft bent.</li> <li>5. Debris in impeller cavity or broken impeller</li> <li>10. Pump running backwards</li> <li>13. Piping attachments to building structure too rigid or too loose.</li> </ol>	<ol style="list-style-type: none"> <li>12. Check pump temperature limits &amp; fluid temperature.</li> <li>13. Replace portion of discharge pipe with flexible connector.</li> <li>14. Turn to automatic position.</li> <li>15. Check for leaks around basin inlet and outlets.</li> </ol>

# Cross Section



**IMPORTANT!** - Service is limited to the following components because of the explosion proof rating: impeller, lower mechanical seal, volute and power cord. Service to any other components WILL VOID the warranty and explosion proof certification. Any further work required contact Crane Pumps & Systems.

**NOTE:** CORD ENTRY BOLTS  
TORQUE TO: 35 FT/LBS.  
MUST BE METAL TO METAL.

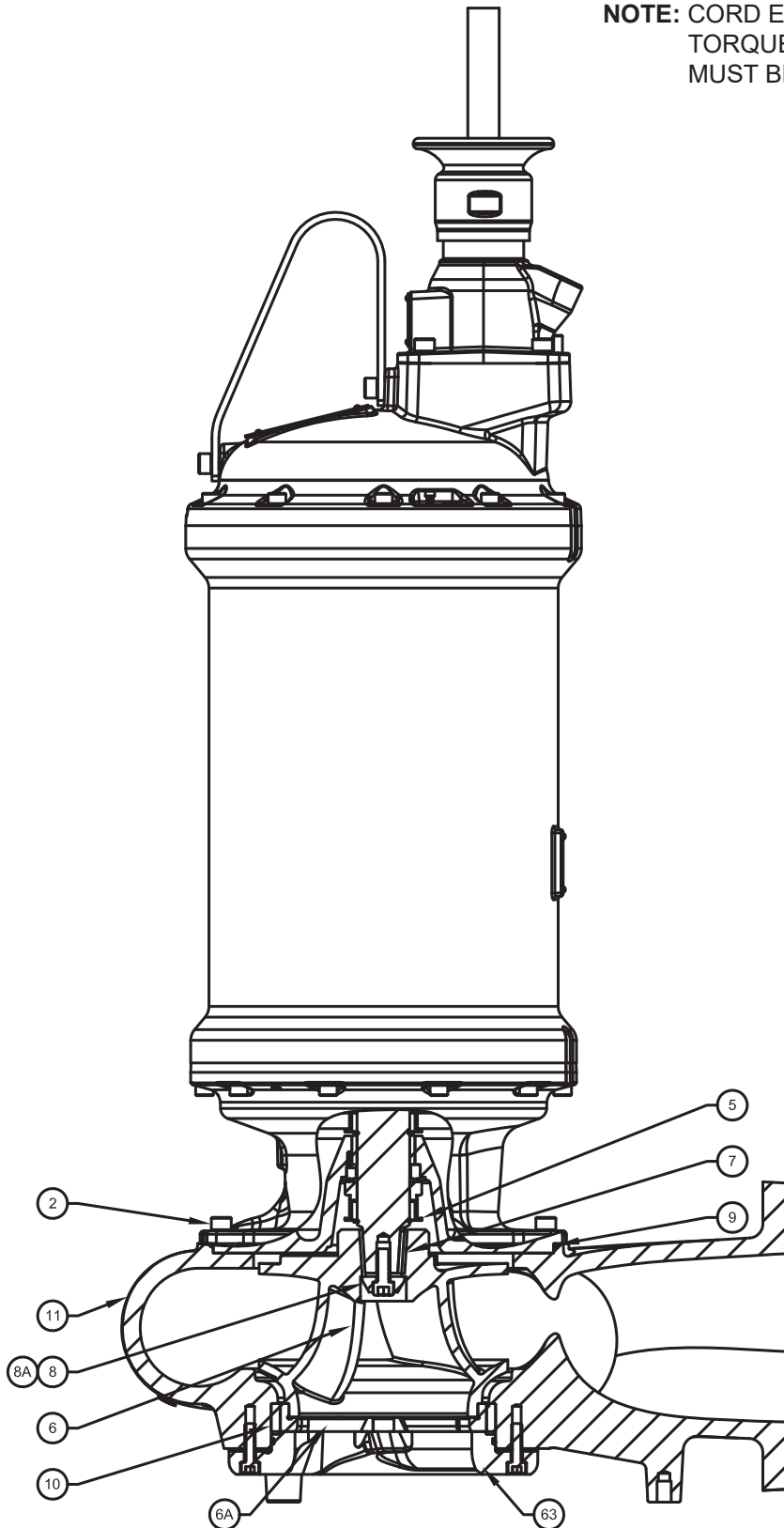


FIGURE 8

# Exploded View

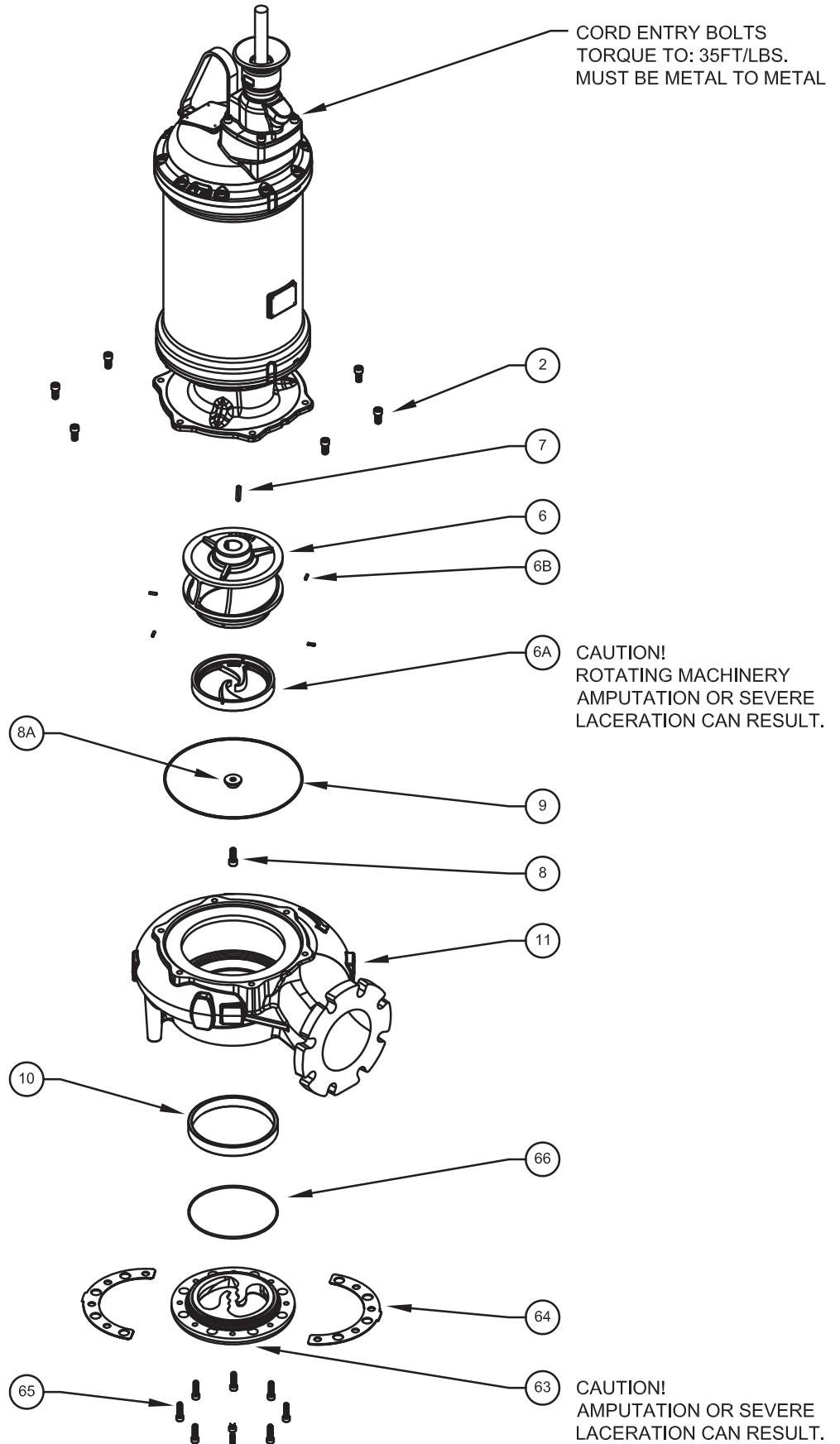


FIGURE 9



# PARTS LIST

<b>Seal Kit</b> .....	<b>See Table on Page 36</b>	(+) 9, 19, 67
<b>O-Ring Kit</b> .....	<b>138582-XP</b>	(☼) 9, 19
<b>Hardware Kit</b> .....	<b>p/n 138617-D</b>	(◆) 2, 7, 8, 8A
<b>Volute Kit</b> .....	<b>See Table on Page 26</b>	(■) 10, 11, 61
<b>Slicer Blade Attachment Kit</b> .....	<b>See Table on Page 37</b>	(○) 7, 8, 8A
<b>Removeable Cord Assy</b> .....	<b>See Table on Page 26</b>	(β) 8, 56, 59
<b>Cord Attachment Kit</b> .....	<b>p/n 140152-32</b>	(π) 8, 56
<b>Lifting Handle Kit</b> .....	<b>138550D-KIT</b>	(>) 2, 26
<b>Leg Kit</b> .....	<b>See Table on Page 36</b>	
<b>Slicer Blade Kit</b> .....	<b>See Table on Page 29</b>	(∂) 6, 6A, 6B
<b>Shim Kit</b> .....	<b>See Table on Page 27</b>	(Δ) 64
<b>Striker Plate Kit</b> .....	<b>See Table on Page 27</b>	(Σ) 63, 64, 65, 66
<b>Striker Shell Kit</b> .....	<b>See Table on Page 27</b>	(Δ) 61, 63, 64, 65, 66
<b>Striker Hardware Kit</b> .....	<b>See Table on Page 27</b>	(∩) 65, 66
<b>Striker O-Ring Stock Kit</b> .....	<b>p/n 142635D</b>	(▲) 66

ITEM	QTY	PART NO.		DESCRIPTION	MATERIAL
1	1	See Table	No Resale	Driver Assemblies	
2	8	127223	◆ >	Screw, SHCS, M12 x 1.75 x 25	300 SS
6	1	See Table	∂	Impeller	Ductile Iron
6A	1	See Table	∂	Slicer Blade	Stainless 440C
6B	4	See Table	∂	Slicer Pins	Stainless 400
7	1	Q21-20-J8	○	Key, ¼ x ¼ x 1½", 303 SS	303 SS
8	5	136284	◆ ∘βπ	Screw, SHCS, M12 x 1.75 x 30	18-8 SS
8A	1	136233	◆ ∘	Washer, Impeller, .50 x 1.50	18-8 SS
9	1	See Table	+☼	O-Ring (Volute)	Buna-N
10	1	See Table	■ ∆	Volute	Cast Iron
11	1	See Table	■ ∆	Wear Ring (Volute)	Bronze
19	2	130063	+☼	Ring, Retaining, EXT, 5100-187-H	PH 15-7 Mo SS
26	1	138550	Single Sale	Handle, Lifting, SS	304 SS
56	1	2-31003-248	βπ	O-Ring, Cord, Attachment	Buna-N
59	1	See Table	β	Cord	See Table
61	1	088932	■ ∆	Paint	
63	1	See Table	Σ∆	Striker Plate	Stainless 440C
64	*	See Table	ΔΣ∆	Shims	
65	**	131147	Σ∆∩	Striker Plate Screw, SHCS, M10 x 1.5 x 35	18-8 Stainless Steel
66	1	See Table	Σ∆∩▲	Striker, O-Ring, Buna-N, 70 Duro	Buna-N
67	1	See Table	+	Seal, Mechanical, Lower, Type 21, 1.875"	SC/SC/B

**NOTES:**

\* Quantity dependent on Blade clearance, nominal is 0.09 Shim Stack, with 0.003 gap between Blade and Plate.

\*\* See Table for Quantity.

<b>'Plug and Play' (Removeable) Cord Assemblies</b>			
<b>Part No.</b>	<b>Length (feet)</b>	<b>Cord Size</b>	<b>Cord O.D.</b>
138317XF	50	8/4 - 18/4	1.12in ± .02in (28.4mm ± .5mm)
138317XJ	75	8/4 - 18/4	1.12in ± .02in (28.4mm ± .5mm)
138317XL	100	8/4 - 18/4	1.12in ± .02in (28.4mm ± .5mm)
138318XF	50	6/4 - 18/4	1.14in ± .03in (28.9mm ± .8mm)
138318XJ	75	6/4 - 18/4	1.14in ± .03in (28.9mm ± .8mm)
138318XL	100	6/4 - 18/4	1.14in ± .03in (28.9mm ± .8mm)
138319XF	50	2/4 - 18/4	1.47in ± .03in (37.3mm ± .8mm)
138319XJ	75	2/4 - 18/4	1.47in ± .03in (37.3mm ± .8mm)
138319XL	100	2/4 - 18/4	1.47in ± .03in (37.3mm ± .8mm)
138320XF	50	0/4 - 18/5	1.72in ± .03in (43.7mm ± .8mm) .47in ± .02in (12mm ± .5mm)
138320XJ	75	0/4 - 18/5	1.72in ± .03in (43.7mm ± .8mm) .47in ± .02in (12mm ± .5mm)
138320XL	100	0/4 - 18/5	1.72in ± .03in (43.7mm ± .8mm) .47in ± .02in (12mm ± .5mm)

\* All Assemblies include cord, grommets, and housing in a potted assembly.

<b>Volute Pilot Diameter (AFTER JAN.-2019)</b>					
<b>Model</b>	<b>Seal Plate Size</b>	<b>Volute P/N</b>	<b>Volute Kit</b>	<b>Wear Ring P/N</b>	<b>Volute O-Ring P/N</b>
3MA	208mm	Not Available in 4 Frame			
4M	208mm				
4ML	240mm				
4MM	305mm	129995S	129995SK-D-KIT	141582	125857-295
4MB	370mm	127254S	127254SK-D-KIT	141581	125857-360
4MH	370mm	127254S	127254SK-D-KIT	141581	125857-360
4MHA	370mm	137226S	137226SK-D-KIT	141582	125857-360
4D	208mm	Not Available in 4 Frame			
4DM	240mm				
4DH	370mm	143624S	143264SK-D-KIT	141581	125857-360
6ML	370mm	130830S	130830SK-1D-KIT	142102	125857-360
6MM	370mm	130830S	130830SK-1D-KIT	142102	125857-360
6MH	370mm	130830S	130830SK-1D-KIT	142102	125857-360
6DL	305mm	138110S	138110SK-D-KIT	141586	125857-295
6D	370mm	143338S	143338SK-D-KIT	143475	125857-360
8D	305mm	143415S	143415SK-D-KIT	143438	125857-295
8T	370mm	143414S	143414SK-D-KIT	143438	125857-360
10DL	465mm	143484S	143484SK-D-KIT	143486	M-6614
10DH	370mm	143483S	143483SK-D-KIT	143486	125857-360
<b>Volute Pilot Diameter (BEFORE FEB.-2019)</b>					
4DH	370mm	127254S	127254SK-D-KIT	141581	125857-360
6D	370mm	130830S	130830SK-2D-KIT	142134	125857-360

Striker Kits (AFTER JAN.-2019)									
Model	Plate Flange Size	Striker Shell Kit	Striker Plate Kit	Shim Kit	Striker Hardware Kit	Kit Component Info (Ref. ONLY)			Striker Plate Screw Quantity
						Striker Plate	Striker Plate O-Ring	Striker Plate Shims	
3MA	3 INCH								
4M	4 INCH								
4ML	4 INCH								
4MM	4 INCH	129995SK-D-ASSY-KIT							
4MB	4 INCH	127254SK-D-ASSY-KIT	142125D-ASSY-KIT	142157D-KIT	142633-4D-KIT	142125	142174-259	142157-002 (RED) 142157-004 (TAN) 142157-010 (BROWN) 142157-025 (WHITE) 142157-060 (CLEAR)	8
4MH	4 INCH								
4MHA	4 INCH	137226SK-D-ASSY-KIT							
4D	4 INCH								
4DM	5 INCH								
4DH	6 INCH	143264SK-D-ASSY-KIT	143265-D-ASSY-KIT			143265		142158-002 (RED) 142158-004 (TAN) 142158-010 (BROWN) 142158-025 (WHITE) 142158-060 (CLEAR)	8
6ML	6 INCH								
6MM	6 INCH	130830SK1D-ASSY-KIT	141585D-ASSY-KIT	142158D-KIT	142633-6D-KIT	141585	142174-265		
6MH	6 INCH								
6DL	6 INCH	138110SK-D-ASSY-KIT							
6D	6 INCH	143338SK-D-ASSY-KIT	143339D-ASSY-KIT	143551D-KIT	142633-8D-KIT	143339	142174-371	143551-002 (RED) 143551-004 (TAN) 143551-010 (BROWN) 143551-025 (WHITE) 143551-060 (CLEAR)	8
8D	10 INCH	143415SK-D-ASSY-KIT							
8T	10 INCH	143414SK-D-ASSY-KIT	143411D-ASSY-KIT	143465D-KIT	142633-10D-KIT	143411	142174-378	143465-002 (RED) 143465-004 (TAN) 143465-010 (BROWN) 143465-025 (WHITE) 143465-060 (CLEAR)	12
10DH	12 INCH	143483SK-D-ASSY-KIT							
10DL	12 INCH	143484SK-D-ASSY-KIT	143472D-ASSY-KIT	143487D-KIT	142633-12D-KIT	143472	142174-455	143487-002 (RED) 143487-004 (TAN) 143487-010 (BROWN) 143487-025 (WHITE) 143487-060 (CLEAR)	
Striker Kits (BEFORE FEB.-2019)									
4DH	4 INCH	127254SK-D-ASSY-KIT	142125D-ASSY-KIT	142157D-KIT	142633-4D-KIT	142125	142174-259	142157-002 (RED) 142157-004 (TAN) 142157-010 (BROWN) 142157-025 (WHITE) 142157-060 (CLEAR)	8
6D	6 INCH	130830SK-2D-ASSY-KIT	141585D-ASSY-KIT	142158D-KIT	142633-6D-KIT	141585	142174-265	142158-002 (RED) 142158-004 (TAN) 142158-010 (BROWN) 142158-025 (WHITE) 142158-060 (CLEAR)	

CURRENT DESIGN (AFTER JAN.-2019)				
Model	Striker Plate Flange Size	Striker O-ring Stock Kit	Shim Stock Kit	Spacing Kit
3MA	3 INCH	Not Available in 4 Frame		
4M	4 INCH			
4ML	4 INCH			
4MM	4 INCH			
4MB	4 INCH	142635D	142157D-STK-KIT	142634
4MH	4 INCH			
4MHA	4 INCH			
4D	4 INCH			
4DM	4 INCH	Not Available in 4 Frame		
4DH	6 INCH	142635D	142158D-STK-KIT	142634
6ML	6 INCH			
6MM	6 INCH			
6MH	6 INCH			
6DL	6 INCH		143551D-STK-KIT	
6D	8 INCH			
8D	10 INCH		143465D-STK-KIT	
8T	10 INCH			
10DH	12 INCH		143487D-STK-KIT	
10DL	12 INCH			
PREVIOUS DESIGN (BEFORE FEB.-2019)				
4DH	4 INCH	142635D	142157D-STK-KIT	142634
6D	6 INCH		142158D-STK-KIT	

<b>Striker Plate Kit includes:</b>
<ul style="list-style-type: none"> <li>• Striker Plate</li> <li>• O-ring (Plate)</li> <li>• M10 Bolts (qty. per table)</li> <li>• Shim Kit</li> </ul>

<b>Striker Shell Kit includes:</b>
<ul style="list-style-type: none"> <li>• Striker Plate Kit</li> <li>• Volute Kit</li> </ul>

<b>Striker Hardware Kit includes:</b>
<ul style="list-style-type: none"> <li>• M10 Bolts (qty. per table)</li> <li>• O-ring (Plate)</li> </ul>

<b>Spacing Kit includes:</b>
<ul style="list-style-type: none"> <li>• Level 4 Cut proof Gloves</li> <li>• Spacer Gage</li> </ul>

<b>Striker O-ring Stock Kit includes:</b>
<ul style="list-style-type: none"> <li>• Small O-ring (4 inch Plate)</li> <li>• Medium O-ring (5 inch Plate)</li> <li>• Large O-ring (6 inch Plate)</li> <li>• XLarge O-ring (8 inch Plate) (qty. 2)</li> <li>• XX-Large O-ring (10 inch Plate)(qty. 4)</li> <li>• XXX-Large O-ring (12 inch Plate)(qty. 4)</li> </ul>

<b>Shim Kit includes:</b>
<ul style="list-style-type: none"> <li>• 0.002" Shims (4)</li> <li>• 0.004" Shims (4)</li> <li>• 0.010" Shims (4)</li> <li>• 0.025" Shims (2)</li> <li>• 0.060" Shims (2)</li> <li>• Level 4 Cut proof Gloves</li> <li>• Spacer Gage</li> </ul>

<b>Shim Stock Kit includes:</b>
<ul style="list-style-type: none"> <li>• 0.002" Shims (12)</li> <li>• 0.004" Shims (12)</li> <li>• 0.010" Shims (12)</li> <li>• 0.025" Shims (8)</li> <li>• 0.060" Shims (6)</li> </ul>

"4MM = D" Impeller						
Trim Dia. mm (in)	Ductile Iron Slicer Blade Kit	Nihard Slicer Blade Kit	Kit Component Info (Ref. ONLY)			
			Ductile Iron Part No.	Nihard Part No.	Blade	Pin
295mm (11.61in)	127262-ASSY-KIT	143275-ASSY-KIT	127262-C	143275-C	142124	142133-0750
290mm (11.42in)	127262TA-ASSY-KIT	143275TA-ASSY-KIT	127262TA-C	143275TA-C	142124	142133-0750
285mm (11.22in)	127262TB-ASSY-KIT	143275TB-ASSY-KIT	127262TB-C	143275TB-C	142124	142133-0750
280mm (11.02in)	127262TC-ASSY-KIT	143275TC-ASSY-KIT	127262TC-C	143275TC-C	142124	142133-0750
275mm (10.83in)	127262TD-ASSY-KIT	143275TD-ASSY-KIT	127262TD-C	143275TD-C	142124	142133-0750
270mm (10.63in)	127262TE-ASSY-KIT	143275TE-ASSY-KIT	127262TE-C	143275TE-C	142124	142133-0750
265mm (10.43in)	127262TF-ASSY-KIT	143275TF-ASSY-KIT	127262TF-C	143275TF-C	142124	142133-0750
260mm (10.24in)	127262TG-ASSY-KIT	143275TG-ASSY-KIT	127262TG-C	143275TG-C	142124	142133-0750
255mm (10.04in)	127262TH-ASSY-KIT	143275TH-ASSY-KIT	127262TH-C	143275TH-C	142124	142133-0750
250mm (9.84in)	127262TJ-ASSY-KIT	143275TJ-ASSY-KIT	127262TJ-C	143275TJ-C	142124	142133-0750
245mm (9.65in)	127262TK-ASSY-KIT	143275TK-ASSY-KIT	127262TK-C	143275TK-C	142124	142133-0750
240mm (9.45in)	127262TL-ASSY-KIT	143275TL-ASSY-KIT	127262TL-C	143275TL-C	142124	142133-0750
235mm (9.25in)	127262TM-ASSY-KIT	143275TM-ASSY-KIT	127262TM-C	143275TM-C	142124	142133-0750
230mm (9.06in)	127262TN-ASSY-KIT	143275TN-ASSY-KIT	127262TN-C	143275TN-C	142124	142133-0750
225mm (8.86in)	127262TP-ASSY-KIT	143275TP-ASSY-KIT	127262TP-C	143275TP-C	142124	142133-0750

"4MH = E" Impeller						
Trim Dia. mm (in)	Ductile Iron Slicer Blade Kit	Nihard Slicer Blade Kit	Kit Component Info (Ref. ONLY)			
			Ductile Iron Part No.	Nihard Part No.	Blade	Pin
370mm (14.57in)	127261-ASSY-KIT	143274-ASSY-KIT	127261-C	143274-C	142124	142133-0750
365mm (14.37in)	127261TA-ASSY-KIT	143274TA-ASSY-KIT	127261TA-C	143274TA-C	142124	142133-0750
360mm (14.17in)	127261TB-ASSY-KIT	143274TB-ASSY-KIT	127261TB-C	143274TB-C	142124	142133-0750
355mm (13.98in)	127261TC-ASSY-KIT	143274TC-ASSY-KIT	127261TC-C	143274TC-C	142124	142133-0750
350mm (13.78in)	127261TD-ASSY-KIT	143274TD-ASSY-KIT	127261TD-C	143274TD-C	142124	142133-0750
345mm (13.58in)	127261TE-ASSY-KIT	143274TE-ASSY-KIT	127261TE-C	143274TE-C	142124	142133-0750
340mm (13.39in)	127261TF-ASSY-KIT	143274TF-ASSY-KIT	127261TF-C	143274TF-C	142124	142133-0750
335mm (13.19in)	127261TG-ASSY-KIT	143274TG-ASSY-KIT	127261TG-C	143274TG-C	142124	142133-0750
330mm (12.99in)	127261TH-ASSY-KIT	143274TH-ASSY-KIT	127261TH-C	143274TH-C	142124	142133-0750
325mm (12.80in)	127261TJ-ASSY-KIT	143274TJ-ASSY-KIT	127261TJ-C	143274TJ-C	142124	142133-0750
320mm (12.60in)	127261TK-ASSY-KIT	143274TK-ASSY-KIT	127261TK-C	143274TK-C	142124	142133-0750
315mm (12.40in)	127261TL-ASSY-KIT	143274TL-ASSY-KIT	127261TL-C	143274TL-C	142124	142133-0750
310mm (12.21in)	127261TM-ASSY-KIT	143274TM-ASSY-KIT	127261TM-C	143274TM-C	142124	142133-0750
305mm (12.01in)	127261TN-ASSY-KIT	143274TN-ASSY-KIT	127261TN-C	143274TN-C	142124	142133-0750
300mm (11.81in)	127261TP-ASSY-KIT	143274TP-ASSY-KIT	127261TP-C	143274TP-C	142124	142133-0750
295mm (11.61in)	127261TR-ASSY-KIT	143274TR-ASSY-KIT	127261TR-C	143274TR-C	142124	142133-0750
290mm (11.42in)	127261TS-ASSY-KIT	143274TS-ASSY-KIT	127261TS-C	143274TS-C	142124	142133-0750

"6MM = H" Impeller						
Trim Dia. mm (in)	Ductile Iron Slicer Blade Kit	Nihard Slicer Blade Kit	Kit Component Info (Ref. ONLY)			
			Ductile Iron Part No.	Nihard Part No.	Blade	Pin
315mm (12.40in)	130826A-ASSY-KIT	143280-ASSY-KIT	130826A-C	143280-C	142128	142141-0625
310mm (12.21in)	130826ATA-ASSY-KIT	143280TA-ASSY-KIT	130826ATA-C	143280TA-C	142128	142141-0625
305mm (12.01in)	130826ATB-ASSY-KIT	143280TB-ASSY-KIT	130826ATB-C	143280TB-C	142128	142141-0625
300mm (11.81in)	130826ATC-ASSY-KIT	143280TC-ASSY-KIT	130826ATC-C	143280TC-C	142128	142141-0625
295mm (11.61in)	130826ATD-ASSY-KIT	143280TD-ASSY-KIT	130826ATD-C	143280TD-C	142128	142141-0625
290mm (11.42in)	130826ATE-ASSY-KIT	143280TE-ASSY-KIT	130826ATE-C	143280TE-C	142128	142141-0625
285mm (11.22in)	130826ATF-ASSY-KIT	143280TF-ASSY-KIT	130826ATF-C	143280TF-C	142128	142141-0625
280mm (11.02in)	130826ATG-ASSY-KIT	143280TG-ASSY-KIT	130826ATG-C	143280TG-C	142128	142141-0625
275mm (10.83in)	130826ATH-ASSY-KIT	143280TH-ASSY-KIT	130826ATH-C	143280TH-C	142128	142141-0625
270mm (10.63in)	130826ATJ-ASSY-KIT	143280TJ-ASSY-KIT	130826ATJ-C	143280TJ-C	142128	142141-0625
265mm (10.43in)	130826ATK-ASSY-KIT	143280TK-ASSY-KIT	130826ATK-C	143280TK-C	142128	142141-0625
260mm (10.24in)	130826ATL-ASSY-KIT	143280TL-ASSY-KIT	130826ATL-C	143280TL-C	142128	142141-0625
255mm (10.04in)	130826ATM-ASSY-KIT	143280TM-ASSY-KIT	130826ATM-C	143280TM-C	142128	142141-0625

"6MH = J" Impeller						
Trim Dia. mm (in)	Ductile Iron Slicer Blade Kit	Nihard Slicer Blade Kit	Kit Component Info (Ref. ONLY)			
			Ductile Iron Part No.	Nihard Part No.	Blade	Pin
370mm (14.57in)	130826-ASSY-KIT	143279-ASSY-KIT	130826-C	143279-C	142128	142141-0625
365mm (14.37in)	130826TA-ASSY-KIT	143279TA-ASSY-KIT	130826TA-C	143279TA-C	142128	142141-0625
360mm (14.17in)	130826TB-ASSY-KIT	143279TB-ASSY-KIT	130826TB-C	143279TB-C	142128	142141-0625
355mm (13.98in)	130826TC-ASSY-KIT	143279TC-ASSY-KIT	130826TC-C	143279TC-C	142128	142141-0625
350mm (13.78in)	130826TD-ASSY-KIT	143279TD-ASSY-KIT	130826TD-C	143279TD-C	142128	142141-0625
345mm (13.58in)	130826TE-ASSY-KIT	143279TE-ASSY-KIT	130826TE-C	143279TE-C	142128	142141-0625
340mm (13.39in)	130826TF-ASSY-KIT	143279TF-ASSY-KIT	130826TF-C	143279TF-C	142128	142141-0625
335mm (13.19in)	130826TG-ASSY-KIT	143279TG-ASSY-KIT	130826TG-C	143279TG-C	142128	142141-0625
330mm (12.99in)	130826TH-ASSY-KIT	143279TH-ASSY-KIT	130826TH-C	143279TH-C	142128	142141-0625
325mm (12.80in)	130826TJ-ASSY-KIT	143279TJ-ASSY-KIT	130826TJ-C	143279TJ-C	142128	142141-0625
320mm (12.60in)	130826TK-ASSY-KIT	143279TK-ASSY-KIT	130826TK-C	143279TK-C	142128	142141-0625
315mm (12.40in)	130826TL-ASSY-KIT	143279TL-ASSY-KIT	130826TL-C	143279TL-C	142128	142141-0625
310mm (12.21in)	130826TM-ASSY-KIT	143279TM-ASSY-KIT	130826TM-C	143279TM-C	142128	142141-0625

"6ML = N" Impeller						
Trim Dia. mm (in)	Ductile Iron Slicer Blade Kit	Nihard Slicer Blade Kit	Kit Component Info (Ref. ONLY)			
			Ductile Iron Part No.	Nihard Part No.	Blade	Pin
260mm (10.24in)	130826B-ASSY-KIT	143281-ASSY-KIT	130826B-C	143281-C	142128	142141-0625
255mm (10.04in)	130826BTA-ASSY-KIT	143281TA-ASSY-KIT	130826BTA-C	143281TA-C	142128	142141-0625
250mm (9.84in)	130826BTB-ASSY-KIT	143281TB-ASSY-KIT	130826BTB-C	143281TB-C	142128	142141-0625
245mm (9.65in)	130826BTC-ASSY-KIT	143281TC-ASSY-KIT	130826BTC-C	143281TC-C	142128	142141-0625
240mm (9.45in)	130826BTD-ASSY-KIT	143281TD-ASSY-KIT	130826BTD-C	143281TD-C	142128	142141-0625
235mm (9.25in)	130826BTE-ASSY-KIT	143281TE-ASSY-KIT	130826BTE-C	143281TE-C	142128	142141-0625
230mm (9.06in)	130826BTF-ASSY-KIT	143281TF-ASSY-KIT	130826BTF-C	143281TF-C	142128	142141-0625
225mm (8.86in)	130826BTG-ASSY-KIT	143281TG-ASSY-KIT	130826BTG-C	143281TG-C	142128	142141-0625
220mm (8.66in)	130826BTH-ASSY-KIT	143281TH-ASSY-KIT	130826BTH-C	143281TH-C	142128	142141-0625
215mm (8.47in)	130826BTJ-ASSY-KIT	143281TJ-ASSY-KIT	130826BTJ-C	143281TJ-C	142128	142141-0625
210mm (8.27in)	130826BTK-ASSY-KIT	143281TK-ASSY-KIT	130826BTK-C	143281TK-C	142128	142141-0625
205mm (8.07in)	130826BTL-ASSY-KIT	143281TL-ASSY-KIT	130826BTL-C	143281TL-C	142128	142141-0625
200mm (7.87in)	130826BTM-ASSY-KIT	143281TM-ASSY-KIT	130826BTM-C	143281TM-C	142128	142141-0625

"4DH = I" Impeller (AFTER JAN.-2019)						
Trim Dia. mm (in)	Ductile Iron Slicer Blade Kit	Nihard Slicer Blade Kit	Kit Component Info (Ref. ONLY)			
			Ductile Iron Part No.	Nihard Part No.	Blade	Pin
370mm (14.57in)	144218-ASSY-KIT	144219-ASSY-KIT	144218-C	144219-C	143266	142141-1000
365mm (14.37in)	144218TA-ASSY-KIT	144219TA-ASSY-KIT	144218TA-C	144219TA-C	143266	142141-1000
360mm (14.17in)	144218TB-ASSY-KIT	144219TB-ASSY-KIT	144218TB-C	144219TB-C	143266	142141-1000
355mm (13.98in)	144218TC-ASSY-KIT	144219TC-ASSY-KIT	144218TC-C	144219TC-C	143266	142141-1000
350mm (13.78in)	144218TD-ASSY-KIT	144219TD-ASSY-KIT	144218TD-C	144219TD-C	143266	142141-1000
345mm (13.58in)	144218TE-ASSY-KIT	144219TE-ASSY-KIT	144218TE-C	144219TE-C	143266	142141-1000
340mm (13.39in)	144218TF-ASSY-KIT	144219TF-ASSY-KIT	144218TF-C	144219TF-C	143266	142141-1000
335mm (13.19in)	144218TG-ASSY-KIT	144219TG-ASSY-KIT	144218TG-C	144219TG-C	143266	142141-1000
330mm (12.99in)	144218TH-ASSY-KIT	144219TH-ASSY-KIT	144218TH-C	144219TH-C	143266	142141-1000
325mm (12.80in)	144218TJ-ASSY-KIT	144219TJ-ASSY-KIT	144218TJ-C	144219TJ-C	143266	142141-1000
320mm (12.60in)	144218TK-ASSY-KIT	144219TK-ASSY-KIT	144218TK-C	144219TK-C	143266	142141-1000
315mm (12.40in)	144218TL-ASSY-KIT	144219TL-ASSY-KIT	144218TL-C	144219TL-C	143266	142141-1000
310mm (12.21in)	144218TM-ASSY-KIT	144219TM-ASSY-KIT	144218TM-C	144219TM-C	143266	142141-1000
305mm (12.01in)	144218TN-ASSY-KIT	144219TN-ASSY-KIT	144218TN-C	144219TN-C	143266	142141-1000
300mm (11.81in)	144218TP-ASSY-KIT	144219TP-ASSY-KIT	144218TP-C	144219TP-C	143266	142141-1000
295mm (11.61in)	144218TR-ASSY-KIT	144219TR-ASSY-KIT	144218TR-C	144219TR-C	143266	142141-1000
290mm (11.42in)	144218TS-ASSY-KIT	144219TS-ASSY-KIT	144218TS-C	144219TS-C	143266	142141-1000
285mm (11.22in)	144218TT-ASSY-KIT	144219TT-ASSY-KIT	144218TT-C	144219TT-C	143266	142141-1000
280mm (11.02in)	144218TU-ASSY-KIT	144219TU-ASSY-KIT	144218TU-C	144219TU-C	143266	142141-1000
275mm (10.83in)	144218TV-ASSY-KIT	144219TV-ASSY-KIT	144218TV-C	144219TV-C	143266	142141-1000
270mm (10.63in)	144218TW-ASSY-KIT	144219TW-ASSY-KIT	144218TW-C	144219TW-C	143266	142141-1000
265mm (10.43in)	144218TX-ASSY-KIT	144219TX-ASSY-KIT	144218TX-C	144219TX-C	143266	142141-1000
260mm (10.24in)	144218TY-ASSY-KIT	144219TY-ASSY-KIT	144218TY-C	144219TY-C	143266	142141-1000
255mm (10.04in)	144218TZ-ASSY-KIT	144219TZ-ASSY-KIT	144218TZ-C	144219TZ-C	143266	142141-1000
250mm (9.84in)	144218TAA-ASSY-KIT	144219TAA-ASSY-KIT	144218TAA-C	144219TAA-C	143266	142141-1000
245mm (9.65in)	144218TAB-ASSY-KIT	144219TAB-ASSY-KIT	144218TAB-C	144219TAB-C	143266	142141-1000
240mm (9.45in)	144218TAC-ASSY-KIT	144219TAC-ASSY-KIT	144218TAC-C	144219TAC-C	143266	142141-1000
235mm (9.25in)	144218TAD-ASSY-KIT	144219TAD-ASSY-KIT	144218TAD-C	144219TAD-C	143266	142141-1000
230mm (9.06in)	144218TAE-ASSY-KIT	144219TAE-ASSY-KIT	144218TAE-C	144219TAE-C	143266	142141-1000
"4DH = I" Impeller (BEFORE FEB.-2019)						
370mm (14.57in)	129993-ASSY-KIT	143278-ASSY-KIT	129993-C	143278-C	142126	142133-0688
365mm (14.37in)	129993TA-ASSY-KIT	143278TA-ASSY-KIT	129993TA-C	143278TA-C	142126	142133-0688
360mm (14.17in)	129993TB-ASSY-KIT	143278TB-ASSY-KIT	129993TB-C	143278TB-C	142126	142133-0688
355mm (13.98in)	129993TC-ASSY-KIT	143278TC-ASSY-KIT	129993TC-C	143278TC-C	142126	142133-0688
350mm (13.78in)	129993TD-ASSY-KIT	143278TD-ASSY-KIT	129993TD-C	143278TD-C	142126	142133-0688
345mm (13.58in)	129993TE-ASSY-KIT	143278TE-ASSY-KIT	129993TE-C	143278TE-C	142126	142133-0688
340mm (13.39in)	129993TF-ASSY-KIT	143278TF-ASSY-KIT	129993TF-C	143278TF-C	142126	142133-0688
335mm (13.19in)	129993TG-ASSY-KIT	143278TG-ASSY-KIT	129993TG-C	143278TG-C	142126	142133-0688
330mm (12.99in)	129993TH-ASSY-KIT	143278TH-ASSY-KIT	129993TH-C	143278TH-C	142126	142133-0688
325mm (12.80in)	129993TJ-ASSY-KIT	143278TJ-ASSY-KIT	129993TJ-C	143278TJ-C	142126	142133-0688
320mm (12.60in)	129993TK-ASSY-KIT	143278TK-ASSY-KIT	129993TK-C	143278TK-C	142126	142133-0688
315mm (12.40in)	129993TL-ASSY-KIT	143278TL-ASSY-KIT	129993TL-C	143278TL-C	142126	142133-0688
310mm (12.21in)	129993TM-ASSY-KIT	143278TM-ASSY-KIT	129993TM-C	143278TM-C	142126	142133-0688
305mm (12.01in)	129993TN-ASSY-KIT	143278TN-ASSY-KIT	129993TN-C	143278TN-C	142126	142133-0688
300mm (11.81in)	129993TP-ASSY-KIT	143278TP-ASSY-KIT	129993TP-C	143278TP-C	142126	142133-0688
295mm (11.61in)	129993TR-ASSY-KIT	143278TR-ASSY-KIT	129993TR-C	143278TR-C	142126	142133-0688
290mm (11.42in)	129993TS-ASSY-KIT	143278TS-ASSY-KIT	129993TS-C	143278TS-C	142126	142133-0688
285mm (11.22in)	129993TT-ASSY-KIT	143278TT-ASSY-KIT	129993TT-C	143278TT-C	142126	142133-0688
280mm (11.02in)	129993TU-ASSY-KIT	143278TU-ASSY-KIT	129993TU-C	143278TU-C	142126	142133-0688
275mm (10.83in)	129993TV-ASSY-KIT	143278TV-ASSY-KIT	129993TV-C	143278TV-C	142126	142133-0688
270mm (10.63in)	129993TW-ASSY-KIT	143278TW-ASSY-KIT	129993TW-C	143278TW-C	142126	142133-0688
265mm (10.43in)	129993TX-ASSY-KIT	143278TX-ASSY-KIT	129993TX-C	143278TX-C	142126	142133-0688
260mm (10.24in)	129993TY-ASSY-KIT	143278TY-ASSY-KIT	129993TY-C	143278TY-C	142126	142133-0688
255mm (10.04in)	129993TZ-ASSY-KIT	143278TZ-ASSY-KIT	129993TZ-C	143278TZ-C	142126	142133-0688
250mm (9.84in)	129993TAA-ASSY-KIT	143278TAA-ASSY-KIT	129993TAA-C	143278TAA-C	142126	142133-0688
245mm (9.65in)	129993TAB-ASSY-KIT	143278TAB-ASSY-KIT	129993TAB-C	143278TAB-C	142126	142133-0688
240mm (9.45in)	129993TAC-ASSY-KIT	143278TAC-ASSY-KIT	129993TAC-C	143278TAC-C	142126	142133-0688
235mm (9.25in)	129993TAD-ASSY-KIT	143278TAD-ASSY-KIT	129993TAD-C	143278TAD-C	142126	142133-0688
230mm (9.06in)	129993TAE-ASSY-KIT	143278TAE-ASSY-KIT	129993TAE-C	143278TAE-C	142126	142133-0688

"6D = K" Impeller (AFTER JAN.-2019)						
Trim Dia. mm (in)	Ductile Iron Slicer Blade Kit	Nihard Slicer Blade Kit	Kit Component Info (Ref. ONLY)			
			Ductile Iron Part No.	Nihard Part No.	Blade	Pin
370mm (14.57in)	144216-ASSY-KIT	144217-ASSY-KIT	144216-C	144217-C	143340	143491-1125
365mm (14.37in)	144216TA-ASSY-KIT	144217TA-ASSY-KIT	144216TA-C	144217TA-C	143340	143491-1125
360mm (14.17in)	144216TB-ASSY-KIT	144217TB-ASSY-KIT	144216TB-C	144217TB-C	143340	143491-1125
355mm (13.98in)	144216TC-ASSY-KIT	144217TC-ASSY-KIT	144216TC-C	144217TC-C	143340	143491-1125
350mm (13.78in)	144216TD-ASSY-KIT	144217TD-ASSY-KIT	144216TD-C	144217TD-C	143340	143491-1125
345mm (13.58in)	144216TE-ASSY-KIT	144217TE-ASSY-KIT	144216TE-C	144217TE-C	143340	143491-1125
340mm (13.39in)	144216TF-ASSY-KIT	144217TF-ASSY-KIT	144216TF-C	144217TF-C	143340	143491-1125
330mm (12.99in)	144216TH-ASSY-KIT	144217TH-ASSY-KIT	144216TH-C	144217TH-C	143340	143491-1125
325mm (12.80in)	144216TJ-ASSY-KIT	144217TJ-ASSY-KIT	144216TJ-C	144217TJ-C	143340	143491-1125
320mm (12.60in)	144216TK-ASSY-KIT	144217TK-ASSY-KIT	144216TK-C	144217TK-C	143340	143491-1125
315mm (12.40in)	144216TL-ASSY-KIT	144217TL-ASSY-KIT	144216TL-C	144217TL-C	143340	143491-1125
310mm (12.21in)	144216TM-ASSY-KIT	144217TM-ASSY-KIT	144216TM-C	144217TM-C	143340	143491-1125
305mm (12.01in)	144216TN-ASSY-KIT	144217TN-ASSY-KIT	144216TN-C	144217TN-C	143340	143491-1125
300mm (11.81in)	144216TP-ASSY-KIT	144217TP-ASSY-KIT	144216TP-C	144217TP-C	143340	143491-1125
295mm (11.61in)	144216TQ-ASSY-KIT	144217TQ-ASSY-KIT	144216TQ-C	144217TQ-C	143340	143491-1125
290mm (11.42in)	144216TR-ASSY-KIT	144217TR-ASSY-KIT	144216TR-C	144217TR-C	143340	143491-1125
285mm (11.22in)	144216TS-ASSY-KIT	144217TS-ASSY-KIT	144216TS-C	144217TS-C	143340	143491-1125
280mm (11.02in)	144216TT-ASSY-KIT	144217TT-ASSY-KIT	144216TT-C	144217TT-C	143340	143491-1125
275mm (10.83in)	144216TU-ASSY-KIT	144217TU-ASSY-KIT	144216TU-C	144217TU-C	143340	143491-1125
270mm (10.63in)	144216TV-ASSY-KIT	144217TV-ASSY-KIT	144216TV-C	144217TV-C	143340	143491-1125
265mm (10.43in)	144216TW-ASSY-KIT	144217TW-ASSY-KIT	144216TW-C	144217TW-C	143340	143491-1125
260mm (10.24in)	144216TX-ASSY-KIT	144217TX-ASSY-KIT	144216TX-C	144217TX-C	143340	143491-1125
255mm (10.04in)	144216TY-ASSY-KIT	144217TY-ASSY-KIT	144216TY-C	144217TY-C	143340	143491-1125
250mm (9.84in)	144216TZ-ASSY-KIT	144217TZ-ASSY-KIT	144216TZ-C	144217TZ-C	143340	143491-1125
245mm (9.65in)	144216UA-ASSY-KIT	144217UA-ASSY-KIT	144216UA-C	144217UA-C	143340	143491-1125
240mm (9.45in)	144216UB-ASSY-KIT	144217UB-ASSY-KIT	144216UB-C	144217UB-C	143340	143491-1125
235mm (9.25in)	144216UC-ASSY-KIT	144217UC-ASSY-KIT	144216UC-C	144217UC-C	143340	143491-1125
230mm (9.05in)	144216UD-ASSY-KIT	144217UD-ASSY-KIT	144216UD-C	144217UD-C	143340	143491-1125
"6D = K" Impeller (BEFORE FEB.-2019)						
370mm (14.57in)	130827-ASSY-KIT	143282-ASSY-KIT	130827-C	143282-C	142132	142141-1125
365mm (14.37in)	130827TA-ASSY-KIT	143282TA-ASSY-KIT	130827TA-C	143282TA-C	142132	142141-1125
360mm (14.17in)	130827TB-ASSY-KIT	143282TB-ASSY-KIT	130827TB-C	143282TB-C	142132	142141-1125
355mm (13.98in)	130827TC-ASSY-KIT	143282TC-ASSY-KIT	130827TC-C	143282TC-C	142132	142141-1125
350mm (13.78in)	130827TD-ASSY-KIT	143282TD-ASSY-KIT	130827TD-C	143282TD-C	142132	142141-1125
345mm (13.58in)	130827TE-ASSY-KIT	143282TE-ASSY-KIT	130827TE-C	143282TE-C	142132	142141-1125
340mm (13.39in)	130827TF-ASSY-KIT	143282TF-ASSY-KIT	130827TF-C	143282TF-C	142132	142141-1125
330mm (12.99in)	130827TH-ASSY-KIT	143282TH-ASSY-KIT	130827TH-C	143282TH-C	142132	142141-1125
325mm (12.80in)	130827TJ-ASSY-KIT	143282TJ-ASSY-KIT	130827TJ-C	143282TJ-C	142132	142141-1125
320mm (12.60in)	130827TK-ASSY-KIT	143282TK-ASSY-KIT	130827TK-C	143282TK-C	142132	142141-1125
315mm (12.40in)	130827TL-ASSY-KIT	143282TL-ASSY-KIT	130827TL-C	143282TL-C	142132	142141-1125
310mm (12.21in)	130827TM-ASSY-KIT	143282TM-ASSY-KIT	130827TM-C	143282TM-C	142132	142141-1125
305mm (12.01in)	130827TN-ASSY-KIT	143282TN-ASSY-KIT	130827TN-C	143282TN-C	142132	142141-1125
300mm (11.81in)	130827TP-ASSY-KIT	143282TP-ASSY-KIT	130827TP-C	143282TP-C	142132	142141-1125
295mm (11.61in)	130827TQ-ASSY-KIT	143282TQ-ASSY-KIT	130827TQ-C	143282TQ-C	142132	142141-1125
290mm (11.42in)	130827TR-ASSY-KIT	143282TR-ASSY-KIT	130827TR-C	143282TR-C	142132	142141-1125
285mm (11.22in)	130827TS-ASSY-KIT	143282TS-ASSY-KIT	130827TS-C	143282TS-C	142132	142141-1125
280mm (11.02in)	130827TT-ASSY-KIT	143282TT-ASSY-KIT	130827TT-C	143282TT-C	142132	142141-1125
275mm (10.83in)	130827TU-ASSY-KIT	143282TU-ASSY-KIT	130827TU-C	143282TU-C	142132	142141-1125
270mm (10.63in)	130827TV-ASSY-KIT	143282TV-ASSY-KIT	130827TV-C	143282TV-C	142132	142141-1125
265mm (10.43in)	130827TW-ASSY-KIT	143282TW-ASSY-KIT	130827TW-C	143282TW-C	142132	142141-1125
260mm (10.24in)	130827TX-ASSY-KIT	143282TX-ASSY-KIT	130827TX-C	143282TX-C	142132	142141-1125
255mm (10.04in)	130827TY-ASSY-KIT	143282TY-ASSY-KIT	130827TY-C	143282TY-C	142132	142141-1125
250mm (9.84in)	130827TZ-ASSY-KIT	143282TZ-ASSY-KIT	130827TZ-C	143282TZ-C	142132	142141-1125
245mm (9.65in)	130827UA-ASSY-KIT	143282UA-ASSY-KIT	130827UA-C	143282UA-C	142132	142141-1125
240mm (9.45in)	130827UB-ASSY-KIT	143282UB-ASSY-KIT	130827UB-C	143282UB-C	142132	142141-1125
235mm (9.25in)	130827UC-ASSY-KIT	143282UC-ASSY-KIT	130827UC-C	143282UC-C	142132	142141-1125
230mm (9.05in)	130827UD-ASSY-KIT	143282UD-ASSY-KIT	130827UD-C	143282UD-C	142132	142141-1125



"8T = M" Impeller						
Trim Dia. mm (in)	Ductile Iron Slicer Blade Kit	Nihard Slicer Blade Kit	Kit Component Info (Ref. ONLY)			
			Ductile Iron Part No.	Nihard Part No.	Blade	Pin
370mm (14.57in)	130829-ASSY-KIT	143284-ASSY-KIT	130829-C	143284-C	143412	143491-1000
365mm (14.37in)	130829TA-ASSY-KIT	143284TA-ASSY-KIT	130829TA-C	143284TA-C	143412	143491-1000
360mm (14.17in)	130829TB-ASSY-KIT	143284TB-ASSY-KIT	130829TB-C	143284TB-C	143412	143491-1000
355mm (14.00in)	130829TC-ASSY-KIT	143284TC-ASSY-KIT	130829TC-C	143284TC-C	143412	143491-1000
350mm (13.78in)	130829TD-ASSY-KIT	143284TD-ASSY-KIT	130829TD-C	143284TD-C	143412	143491-1000
345mm (13.58in)	130829TE-ASSY-KIT	143284TE-ASSY-KIT	130829TE-C	143284TE-C	143412	143491-1000
340mm (13.38in)	130829TF-ASSY-KIT	143284TF-ASSY-KIT	130829TF-C	143284TF-C	143412	143491-1000
335mm (13.19in)	130829TG-ASSY-KIT	143284TG-ASSY-KIT	130829TG-C	143284TG-C	143412	143491-1000
330mm (12.99in)	130829TH-ASSY-KIT	143284TH-ASSY-KIT	130829TH-C	143284TH-C	143412	143491-1000
325mm (12.79in)	130829TJ-ASSY-KIT	143284TJ-ASSY-KIT	130829TJ-C	143284TJ-C	143412	143491-1000
320mm (12.59in)	130829TK-ASSY-KIT	143284TK-ASSY-KIT	130829TK-C	143284TK-C	143412	143491-1000
315mm (12.40in)	130829TL-ASSY-KIT	143284TL-ASSY-KIT	130829TL-C	143284TL-C	143412	143491-1000
310mm (12.20in)	130829TM-ASSY-KIT	143284TM-ASSY-KIT	130829TM-C	143284TM-C	143412	143491-1000
305mm (12.00in)	130829TN-ASSY-KIT	143284TN-ASSY-KIT	130829TN-C	143284TN-C	143412	143491-1000
300mm (11.81in)	130829TP-ASSY-KIT	143284TP-ASSY-KIT	130829TP-C	143284TP-C	143412	143491-1000
295mm (11.61in)	130829TR-ASSY-KIT	143284TR-ASSY-KIT	130829TR-C	143284TR-C	143412	143491-1000
290mm (11.42in)	130829TS-ASSY-KIT	143284TS-ASSY-KIT	130829TS-C	143284TS-C	143412	143491-1000
285mm (11.22in)	130829TT-ASSY-KIT	143284TT-ASSY-KIT	130829TT-C	143284TT-C	143412	143491-1000
280mm (11.02in)	130829TU-ASSY-KIT	143284TU-ASSY-KIT	130829TU-C	143284TU-C	143412	143491-1000
275mm (10.83in)	130829TV-ASSY-KIT	143284TV-ASSY-KIT	130829TV-C	143284TV-C	143412	143491-1000
270mm (10.63in)	130829TW-ASSY-KIT	143284TW-ASSY-KIT	130829TW-C	143284TW-C	143412	143491-1000
265mm (10.43in)	130829TX-ASSY-KIT	143284TX-ASSY-KIT	130829TX-C	143284TX-C	143412	143491-1000
260mm (10.24in)	130829TY-ASSY-KIT	143284TY-ASSY-KIT	130829TY-C	143284TY-C	143412	143491-1000
255mm (10.04in)	130829TZ-ASSY-KIT	143284TZ-ASSY-KIT	130829TZ-C	143284TZ-C	143412	143491-1000
250mm (9.84in)	130829UA-ASSY-KIT	143284UA-ASSY-KIT	130829UA-C	143284UA-C	143412	143491-1000

"6DL = O" Impeller						
Trim Dia. mm (in)	Ductile Iron Slicer Blade Kit	Nihard Slicer Blade Kit	Kit Component Info (Ref. ONLY)			
			Ductile Iron Part No.	Nihard Part No.	Blade	Pin
225mm (8.86in)	138104S-ASSY-KIT	143292S-ASSY-KIT	138104S-C	143292S-C	141584	142141-0625
220mm (8.66in)	138104STA-ASSY-KIT	143292STA-ASSY-KIT	138104STA-C	143292STA-C	141584	142141-0625
215mm (8.47in)	138104STB-ASSY-KIT	143292STB-ASSY-KIT	138104STB-C	143292STB-C	141584	142141-0625
210mm (8.27in)	138104STC-ASSY-KIT	143292STC-ASSY-KIT	138104STC-C	143292STC-C	141584	142141-0625
205mm (8.07in)	138104STD-ASSY-KIT	143292STD-ASSY-KIT	138104STD-C	143292STD-C	141584	142141-0625
200mm (7.87in)	138104STE-ASSY-KIT	143292STE-ASSY-KIT	138104STE-C	143292STE-C	141584	142141-0625
195mm (7.68in)	138104STF-ASSY-KIT	143292STF-ASSY-KIT	138104STF-C	143292STF-C	141584	142141-0625
190mm (7.48in)	138104STG-ASSY-KIT	143292STG-ASSY-KIT	138104STG-C	143292STG-C	141584	142141-0625
185mm (7.28in)	138104STH-ASSY-KIT	143292STH-ASSY-KIT	138104STH-C	143292STH-C	141584	142141-0625
180mm (7.09in)	138104STJ-ASSY-KIT	143292STJ-ASSY-KIT	138104STJ-C	143292STJ-C	141584	142141-0625

"8D = U" Impeller						
Trim Dia. mm (in)	Ductile Iron Slicer Blade Kit	Nihard Slicer Blade Kit	Kit Component Info (Ref. ONLY)			
			Ductile Iron Part No.	Nihard Part No.	Blade	Pin
305mm (12.00in)	138102S-ASSY-KIT	143293S-ASSY-KIT	138102S-C	143293S-C	143413	143491-1125
300mm (11.81in)	138102STA-ASSY-KIT	143293STA-ASSY-KIT	138102STA-C	143293STA-C	143413	143491-1125
295mm (11.61in)	138102STB-ASSY-KIT	143293STB-ASSY-KIT	138102STB-C	143293STB-C	143413	143491-1125
290mm (11.42in)	138102STC-ASSY-KIT	143293STC-ASSY-KIT	138102STC-C	143293STC-C	143413	143491-1125
285mm (11.22in)	138102STD-ASSY-KIT	143293STD-ASSY-KIT	138102STD-C	143293STD-C	143413	143491-1125
280mm (11.02in)	138102STE-ASSY-KIT	143293STE-ASSY-KIT	138102STE-C	143293STE-C	143413	143491-1125
275mm (10.82in)	138102STF-ASSY-KIT	143293STF-ASSY-KIT	138102STF-C	143293STF-C	143413	143491-1125
270mm (10.63in)	138102STG-ASSY-KIT	143293STG-ASSY-KIT	138102STG-C	143293STG-C	143413	143491-1125
265mm (10.43in)	138102STH-ASSY-KIT	143293STH-ASSY-KIT	138102STH-C	143293STH-C	143413	143491-1125
260mm (10.24in)	138102STJ-ASSY-KIT	143293STJ-ASSY-KIT	138102STJ-C	143293STJ-C	143413	143491-1125
255mm (10.04in)	138102STK-ASSY-KIT	143293STK-ASSY-KIT	138102STK-C	143293STK-C	143413	143491-1125
250mm (9.84in)	138102STL-ASSY-KIT	143293STL-ASSY-KIT	138102STL-C	143293STL-C	143413	143491-1125
245mm (9.64in)	138102STM-ASSY-KIT	143293STM-ASSY-KIT	138102STM-C	143293STM-C	143413	143491-1125
240mm (9.45in)	138102STN-ASSY-KIT	143293STN-ASSY-KIT	138102STN-C	143293STN-C	143413	143491-1125
235mm (9.25in)	138102STP-ASSY-KIT	143293STP-ASSY-KIT	138102STP-C	143293STP-C	143413	143491-1125
230mm (9.05in)	138102STQ-ASSY-KIT	143293STQ-ASSY-KIT	138102STQ-C	143293STQ-C	143413	143491-1125

"10DH = W" Impeller						
Trim Dia. mm (in)	Ductile Iron Slicer Blade Kit	Nihard Slicer Blade Kit	Kit Component Info (Ref. ONLY)			
			Ductile Iron Part No.	Nihard Part No.	Blade	Pin
360mm (14.17in)	138100S-ASSY-KIT	143295S-ASSY-KIT	138100S-C	143295S-C	143473	143491-1125
355mm (13.98in)	138100STA-ASSY-KIT	143295STA-ASSY-KIT	138100STA-C	143295STA-C	143473	143491-1125
350mm (13.78in)	138100STB-ASSY-KIT	143295STB-ASSY-KIT	138100STB-C	143295STB-C	143473	143491-1125
345mm (13.58in)	138100STC-ASSY-KIT	143295STC-ASSY-KIT	138100STC-C	143295STC-C	143473	143491-1125
340mm (13.39in)	138100STD-ASSY-KIT	143295STD-ASSY-KIT	138100STD-C	143295STD-C	143473	143491-1125
335mm (13.19in)	138100STE-ASSY-KIT	143295STE-ASSY-KIT	138100STE-C	143295STE-C	143473	143491-1125
330mm (12.99in)	138100STF-ASSY-KIT	143295STF-ASSY-KIT	138100STF-C	143295STF-C	143473	143491-1125
325mm (12.80in)	138100STG-ASSY-KIT	143295STG-ASSY-KIT	138100STG-C	143295STG-C	143473	143491-1125
320mm (12.60in)	138100STH-ASSY-KIT	143295STH-ASSY-KIT	138100STH-C	143295STH-C	143473	143491-1125
315mm (12.40in)	138100STJ-ASSY-KIT	143295STJ-ASSY-KIT	138100STJ-C	143295STJ-C	143473	143491-1125
310mm (12.20in)	138100STK-ASSY-KIT	143295STK-ASSY-KIT	138100STK-C	143295STK-C	143473	143491-1125
305mm (12.00in)	138100STL-ASSY-KIT	143295STL-ASSY-KIT	138100STL-C	143295STL-C	143473	143491-1125
300mm (11.81in)	138100STM-ASSY-KIT	143295STM-ASSY-KIT	138100STM-C	143295STM-C	143473	143491-1125
295mm (11.61in)	138100STN-ASSY-KIT	143295STN-ASSY-KIT	138100STN-C	143295STN-C	143473	143491-1125
290mm (11.42in)	138100STP-ASSY-KIT	143295STP-ASSY-KIT	138100STP-C	143295STP-C	143473	143491-1125

"4MHA = EA" Impeller						
Trim Dia. mm (in)	Ductile Iron Slicer Blade Kit	Nihard Slicer Blade Kit	Kit Component Info (Ref. ONLY)			
			Ductile Iron Part No.	Nihard Part No.	Blade	Pin
370mm (14.57in)	137225-ASSY-KIT	143289-ASSY-KIT	137225-C	143289-C	142126	142133-0750
365mm (14.37in)	137225TA-ASSY-KIT	143289TA-ASSY-KIT	137225TA-C	143289TA-C	142126	142133-0750
360mm (14.17in)	137225TB-ASSY-KIT	143289TB-ASSY-KIT	137225TB-C	143289TB-C	142126	142133-0750
355mm (13.98in)	137225TC-ASSY-KIT	143289TC-ASSY-KIT	137225TC-C	143289TC-C	142126	142133-0750
350mm (13.78in)	137225TD-ASSY-KIT	143289TD-ASSY-KIT	137225TD-C	143289TD-C	142126	142133-0750
345mm (13.58in)	137225TE-ASSY-KIT	143289TE-ASSY-KIT	137225TE-C	143289TE-C	142126	142133-0750
340mm (13.39in)	137225TF-ASSY-KIT	143289TF-ASSY-KIT	137225TF-C	143289TF-C	142126	142133-0750
335mm (13.19in)	137225TG-ASSY-KIT	143289TG-ASSY-KIT	137225TG-C	143289TG-C	142126	142133-0750
330mm (13.00in)	137225TH-ASSY-KIT	143289TH-ASSY-KIT	137225TH-C	143289TH-C	142126	142133-0750
325mm (12.80in)	137225TJ-ASSY-KIT	143289TJ-ASSY-KIT	137225TJ-C	143289TJ-C	142126	142133-0750
320mm (12.60in)	137225TK-ASSY-KIT	143289TK-ASSY-KIT	137225TK-C	143289TK-C	142126	142133-0750
315mm (12.40in)	137225TL-ASSY-KIT	143289TL-ASSY-KIT	137225TL-C	143289TL-C	142126	142133-0750
310mm (12.20in)	137225TM-ASSY-KIT	143289TM-ASSY-KIT	137225TM-C	143289TM-C	142126	142133-0750
305mm (12.01in)	137225TN-ASSY-KIT	143289TN-ASSY-KIT	137225TN-C	143289TN-C	142126	142133-0750
300mm (11.81in)	137225TP-ASSY-KIT	143289TP-ASSY-KIT	137225TP-C	143289TP-C	142126	142133-0750
295mm (11.61in)	137225TR-ASSY-KIT	143289TR-ASSY-KIT	137225TR-C	143289TR-C	142126	142133-0750
290mm (11.42in)	137225TS-ASSY-KIT	143289TS-ASSY-KIT	137225TS-C	143289TS-C	142126	142133-0750

"10DL = X" Impeller						
Trim Dia. mm (in)	Ductile Iron Slicer Blade Kit	Nihard Slicer Blade Kit	Kit Component Info (Ref. ONLY)			
			Ductile Iron Part No.	Nihard Part No.	Blade	Pin
455mm (17.91in)	138099S-ASSY-KIT	143296S-ASSY-KIT	138099S-C	143296S-C	143473	143491-1000
450mm (17.72in)	138099STA-ASSY-KIT	143296STA-ASSY-KIT	138099STA-C	143296STA-C	143473	143491-1000
445mm (17.52in)	138099STB-ASSY-KIT	143296STB-ASSY-KIT	138099STB-C	143296STB-C	143473	143491-1000
440mm (17.32in)	138099STC-ASSY-KIT	143296STC-ASSY-KIT	138099STC-C	143296STC-C	143473	143491-1000
435mm (17.13in)	138099STD-ASSY-KIT	143296STD-ASSY-KIT	138099STD-C	143296STD-C	143473	143491-1000
430mm (16.93in)	138099STE-ASSY-KIT	143296STE-ASSY-KIT	138099STE-C	143296STE-C	143473	143491-1000
425mm (16.73in)	138099STF-ASSY-KIT	143296STF-ASSY-KIT	138099STF-C	143296STF-C	143473	143491-1000
420mm (16.54in)	138099STG-ASSY-KIT	143296STG-ASSY-KIT	138099STG-C	143296STG-C	143473	143491-1000
415mm (16.34in)	138099STH-ASSY-KIT	143296STH-ASSY-KIT	138099STH-C	143296STH-C	143473	143491-1000
410mm (16.14in)	138099STJ-ASSY-KIT	143296STJ-ASSY-KIT	138099STJ-C	143296STJ-C	143473	143491-1000
405mm (15.94in)	138099STK-ASSY-KIT	143296STK-ASSY-KIT	138099STK-C	143296STK-C	143473	143491-1000
400mm (15.75in)	138099STL-ASSY-KIT	143296STL-ASSY-KIT	138099STL-C	143296STL-C	143473	143491-1000
395mm (15.55in)	138099STM-ASSY-KIT	143296STM-ASSY-KIT	138099STM-C	143296STM-C	143473	143491-1000
390mm (15.35in)	138099STN-ASSY-KIT	143296STN-ASSY-KIT	138099STN-C	143296STN-C	143473	143491-1000
385mm (15.16in)	138099STP-ASSY-KIT	143296STP-ASSY-KIT	138099STP-C	143296STP-C	143473	143491-1000
380mm (14.96in)	138099STQ-ASSY-KIT	143296STQ-ASSY-KIT	138099STQ-C	143296STQ-C	143473	143491-1000
375mm (14.76in)	138099STR-ASSY-KIT	143296STR-ASSY-KIT	138099STR-C	143296STR-C	143473	143491-1000
370mm (14.57in)	138099STS-ASSY-KIT	143296STS-ASSY-KIT	138099STS-C	143296STS-C	143473	143491-1000
365mm (14.37in)	138099STT-ASSY-KIT	143296STT-ASSY-KIT	138099STT-C	143296STT-C	143473	143491-1000
360mm (14.17in)	138099STU-ASSY-KIT	143296STU-ASSY-KIT	138099STU-C	143296STU-C	143473	143491-1000
355mm (13.98in)	138099STV-ASSY-KIT	143296STV-ASSY-KIT	138099STV-C	143296STV-C	143473	143491-1000
350mm (13.78in)	138099STW-ASSY-KIT	143296STW-ASSY-KIT	138099STW-C	143296STW-C	143473	143491-1000
345mm (13.58in)	138099STX-ASSY-KIT	143296STX-ASSY-KIT	138099STX-C	143296STX-C	143473	143491-1000
340mm (13.39in)	138099STY-ASSY-KIT	143296STY-ASSY-KIT	138099STY-C	143296STY-C	143473	143491-1000

"4MB = BA" Impeller						
Trim Dia. mm (in)	Ductile Iron Slicer Blade Kit	Nihard Slicer Blade Kit	Kit Component Info (Ref. ONLY)			
			Ductile Iron Part No.	Nihard Part No.	Blade	Pin
320mm (12.60in)	143593-ASSY-KIT	143594-ASSY-KIT	143593-ASSY	143594-ASSY	142124	142133-0688
315mm (12.40in)	143593TA-ASSY-KIT	143594TA-ASSY-KIT	143593TA-ASSY	143594TA-ASSY	142124	142133-0688
310mm (12.21in)	143593TB-ASSY-KIT	143594TB-ASSY-KIT	143593TB-ASSY	143594TB-ASSY	142124	142133-0688
305mm (12.01in)	143593TC-ASSY-KIT	143594TC-ASSY-KIT	143593TC-ASSY	143594TC-ASSY	142124	142133-0688
300mm (11.81in)	143593TD-ASSY-KIT	143594TD-ASSY-KIT	143593TD-ASSY	143594TD-ASSY	142124	142133-0688
295mm (11.61in)	143593TE-ASSY-KIT	143594TE-ASSY-KIT	143593TE-ASSY	143594TE-ASSY	142124	142133-0688
290mm (11.42in)	143593TF-ASSY-KIT	143594TF-ASSY-KIT	143593TF-ASSY	143594TF-ASSY	142124	142133-0688
285mm (11.22in)	143593TG-ASSY-KIT	143594TG-ASSY-KIT	143593TG-ASSY	143594TG-ASSY	142124	142133-0688
280mm (11.02in)	143593TH-ASSY-KIT	143594TH-ASSY-KIT	143593TH-ASSY	143594TH-ASSY	142124	142133-0688
275mm (10.82in)	143593TJ-ASSY-KIT	143594TJ-ASSY-KIT	143593TJ-ASSY	143594TJ-ASSY	142124	142133-0688
270mm (10.63in)	143593TK-ASSY-KIT	143594TK-ASSY-KIT	143593TK-ASSY	143594TK-ASSY	142124	142133-0688
265mm (10.43in)	143593TL-ASSY-KIT	143594TL-ASSY-KIT	143593TL-ASSY	143594TL-ASSY	142124	142133-0688
260mm (10.24in)	143593TM-ASSY-KIT	143594TM-ASSY-KIT	143593TM-ASSY	143594TM-ASSY	142124	142133-0688
255mm (10.04in)	143593TN-ASSY-KIT	143594TN-ASSY-KIT	143593TN-ASSY	143594TN-ASSY	142124	142133-0688
250mm (9.84in)	143593TP-ASSY-KIT	143594TP-ASSY-KIT	143593TP-ASSY	143594TP-ASSY	142124	142133-0688
245mm (9.64in)	143593TQ-ASSY-KIT	143594TQ-ASSY-KIT	143593TQ-ASSY	143594TQ-ASSY	142124	142133-0688
240mm (9.45in)	143593TR-ASSY-KIT	143594TR-ASSY-KIT	143593TR-ASSY	143594TR-ASSY	142124	142133-0688
235mm (9.25in)	143593TS-ASSY-KIT	143594TS-ASSY-KIT	143593TS-ASSY	143594TS-ASSY	142124	142133-0688
230mm (9.05in)	143593TT-ASSY-KIT	143594TT-ASSY-KIT	143593TT-ASSY	143594TT-ASSY	142124	142133-0688
225mm (8.86in)	143593TU-ASSY-KIT	143594TU-ASSY-KIT	143593TU-ASSY	143594TU-ASSY	142124	142133-0688
220mm (8.66in)	143593TV-ASSY-KIT	143594TV-ASSY-KIT	143593TV-ASSY	143594TV-ASSY	142124	142133-0688
215mm (8.47in)	143593TW-ASSY-KIT	143594TW-ASSY-KIT	143593TW-ASSY	143594TW-ASSY	142124	142133-0688
210mm (8.27in)	143593TX-ASSY-KIT	143594TX-ASSY-KIT	143593TX-ASSY	143594TX-ASSY	142124	142133-0688

**Slicer Blade Kit includes:**

- Impeller (Balanced, trimmed)
- Blade (Pressed)
- Attachment Pins (Pressed)

*(Components are Fully Assembled)*

**Slicer Blade Attachment Kit includes:**

- Impeller Washer
- Impeller Bolt
- Impeller Key

Seal Kits		
Seal Kit Part No.	Seal Part No.	Seal Material
138582-DX-CC	129900	Carbon / Ceramic
<b>138582-DX-SD (STD)</b>	129900SD	Silicon Carbide / Silicon Carbide
138582-DX-TC	129900SB	Tungsten Carbide / Tungsten Carbide

Seal Kit includes:
<ul style="list-style-type: none"> <li>• Volute O-Ring (option 1)</li> <li>• Volute O-Ring (option 2)</li> <li>• Volute O-Ring (option 3)</li> <li>• Volute O-Ring (option 4)</li> <li>• Volute O-Ring (option 5)</li> <li>• External Retaining Ring</li> <li>• Lower Mechanical Seal</li> </ul>

**NOTE:** Kit contains hardware your pump may not require.

Hardware Kit includes:
<ul style="list-style-type: none"> <li>• Volute attachment bolts</li> <li>• Impeller Key</li> <li>• Impeller attachment hardware</li> </ul>

O-Ring Kit includes:
<ul style="list-style-type: none"> <li>• Lower Volute O-Ring (option 1)</li> <li>• Lower Volute O-Ring (option 2)</li> <li>• Lower Volute O-Ring (option 3)</li> <li>• Lower Volute O-Ring (option 4)</li> <li>• Lower Volute O-Ring (option 5)</li> </ul>

Cord Attachment Kit includes:
<ul style="list-style-type: none"> <li>• Cord</li> <li>• Attachment Bolts</li> </ul>

Volute Kit includes:
<ul style="list-style-type: none"> <li>• Wear Ring (PRESSED)</li> <li>• Volute (painted)</li> </ul> <p><i>(Components are Fully Assembled)</i></p>

Removeable Cord Attachment Kit includes:
<ul style="list-style-type: none"> <li>• O-ring Cord</li> <li>• Attachment Bolts</li> </ul>

Additional Components			
Component	Part No.	Single Sale	Kit
Impeller	See Table	No	Slicer Blade Kit (see table)
Wear Ring (Volute)	See Table	No	Volute Kit, Shell Kit
Lifting Handle	38550	No	138550D-KIT
Nameplate		No Resale	
Nameplate/Model Plate Rivets	001628	No Resale	Rivet Kit (p/n 139398D), Stator Kit, Motor Cap Kit, Hardware Kit

Leg Kits		
Model	Leg Kit Part No.	Leg Kit Height Inches (mm)
3MA	125506	3.15 (80)
4M	125506	3.15 (80)
4D	125506	3.15 (80)
4ML	125506	3.15 (80)
4DM	125506	3.15 (80)
4MM	125506B	6.50 (165)
6DL	125506B	6.50 (165)
4MB	125506B	6.50 (165)
4MH	125506B	6.50 (165)
4MHA	125506B	6.50 (165)
4DH	125506B	6.50 (165)
6ML	125506B	6.50 (165)
6MM	125506B	6.50 (165)
6MH	125506B	6.50 (165)
6D	125506B	6.50 (165)
8D	125506B	6.50 (165)
8T	125506C	10.75 (273)
10DL	125506C	10.75 (273)
10DH	125506C	10.75 (273)

Leg Kit includes:
<ul style="list-style-type: none"> <li>• 3 Legs (painted)</li> <li>• attachment hardware</li> </ul>

Model	Seal Kit	O-Ring Kit	Hardware Kit	Volute Kit	Slicer Blade Attachment Kit	Cord Attachment Kit	Lifting Handle Kit	Slicer Blade Kit	Leg Kit	Shim Kit	Striker Plate Kit	Striker Shell Kit	Striker Hardware Kit
7366-411-16-32N			138617-D	129995SK-D-KIT	138614D	140152-32	138550D-KIT	127262TF-ASSY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	129995SK-D-ASSY-KIT	142633-4D-KIT
7366-411-32-32N			138617-D	129995SK-D-KIT	138614D	140152-32	138550D-KIT	127262TD-ASSY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	129995SK-D-ASSY-KIT	142633-4D-KIT
7366-411-33-32N	138582-DX-SD		138617-D	129995SK-D-KIT	138614D	140152-32	138550D-KIT	127262TA-ASSY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	129995SK-D-ASSY-KIT	142633-4D-KIT
7366-411-49-32N	138582-DX-CC	138582-XP	138617-D	129995SK-D-KIT	138614D	140152-32	138550D-KIT	127262-AS-SY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	129995SK-D-ASSY-KIT	142633-4D-KIT
7366-411-64-32N	138582-DX-TC		138617-D	129995SK-D-KIT	138614D	140152-32	138550D-KIT	127262-AS-SY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	129995SK-D-ASSY-KIT	142633-4D-KIT
7366-411-79-32N			138617-D	129995SK-D-KIT	138614D	140152-32	138550D-KIT	127262-AS-SY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	129995SK-D-ASSY-KIT	142633-4D-KIT
7366-466-16-30N			138617-D	129995SK-D-KIT	138614D	140152-32	138550D-KIT	127262-AS-SY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	129995SK-D-ASSY-KIT	142633-4D-KIT
7366-466-32-30N			138617-D	129995SK-D-KIT	138614D	140152-32	138550D-KIT	127262-AS-SY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	129995SK-D-ASSY-KIT	142633-4D-KIT
7366-466-33-30N			138617-D	129995SK-D-KIT	138614D	140152-32	138550D-KIT	127262-AS-SY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	129995SK-D-ASSY-KIT	142633-4D-KIT
7366-466-49-30N	138582-DX-SD		138617-D	129995SK-D-KIT	138614D	140152-32	138550D-KIT	127262-AS-SY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	129995SK-D-ASSY-KIT	142633-4D-KIT
7366-466-64-30N	138582-DX-CC	138582-XP	138617-D	129995SK-D-KIT	138614D	140152-32	138550D-KIT	127262-AS-SY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	129995SK-D-ASSY-KIT	142633-4D-KIT
7366-466-79-30N	138582-DX-TC		138617-D	129995SK-D-KIT	138614D	140152-32	138550D-KIT	127262-AS-SY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	129995SK-D-ASSY-KIT	142633-4D-KIT
7366-466-65-30N			138617-D	129995SK-D-KIT	138614D	140152-32	138550D-KIT	127262-AS-SY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	129995SK-D-ASSY-KIT	142633-4D-KIT
7366-466-80-30N			138617-D	129995SK-D-KIT	138614D	140152-32	138550D-KIT	127262-AS-SY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	129995SK-D-ASSY-KIT	142633-4D-KIT

Model	Seal Kit	O-Ring Kit	Hardware Kit	Volute Kit	Slicer Blade Attachment Kit	Cord Attachment Kit	Lifting Handle Kit	Slicer Blade Kit	Leg Kit	Shim Kit	Striker Plate Kit	Striker Shell Kit	Striker Hardware Kit
7366-412-33-32N			138617-D	127254SK-D-KIT	138614D	140152-32	138550D-KIT	127261TP-ASSY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	127254SK-D-ASSY-KIT	142633-4D-KIT
7366-412-49-32N			138617-D	127254SK-D-KIT	138614D	140152-32	138550D-KIT	127261TH-ASSY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	127254SK-D-ASSY-KIT	142633-4D-KIT
7366-412-64-32N	138582-DX-SD		138617-D	127254SK-D-KIT	138614D	140152-32	138550D-KIT	127261TH-ASSY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	127254SK-D-ASSY-KIT	142633-4D-KIT
7366-412-79-32N	138582-DX-CC	138582-XP	138617-D	127254SK-D-KIT	138614D	140152-32	138550D-KIT	127261TH-ASSY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	127254SK-D-ASSY-KIT	142633-4D-KIT
7366-412-65-32N	138582-DX-TC		138617-D	127254SK-D-KIT	138614D	140152-32	138550D-KIT	127261TC-ASSY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	127254SK-D-ASSY-KIT	142633-4D-KIT
7366-412-80-32N			138617-D	127254SK-D-KIT	138614D	140152-32	138550D-KIT	127261TC-ASSY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	127254SK-D-ASSY-KIT	142633-4D-KIT
7366-447-31-32N	138582-DX-SD	138582-XP	138617-D	127254SK-D-KIT	138614D	140152-32	138550D-KIT	127261-ASY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	127254SK-D-ASSY-KIT	142633-4D-KIT
7366-437-31-32N			138617-D	137226SK-D-KIT	138614D	140152-32	138550D-KIT	137225TB-ASSY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	137226SK-D-ASSY-KIT	142633-4D-KIT
7366-437-32-32N	138582-DX-SD		138617-D	137226SK-D-KIT	138614D	140152-32	138550D-KIT	137225-ASY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	137226SK-D-ASSY-KIT	142633-4D-KIT
7366-437-92-32N	138582-DX-CC	138582-XP	138617-D	137226SK-D-KIT	138614D	140152-32	138550D-KIT	137225-ASY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	137226SK-D-ASSY-KIT	142633-4D-KIT
7366-437-1B-32N	138582-DX-TC		138617-D	137226SK-D-KIT	138614D	140152-32	138550D-KIT	137225-ASY-KIT	125506B	142157D-KIT	142125D-ASSY-KIT	137226SK-D-ASSY-KIT	142633-4D-KIT

KIT PART NUMBERS (AFTER FEB.-2019)													
Model	Seal Kit	O-Ring Kit	Hardware Kit	Volute Kit	Slicer Blade Attachment Kit	Cord Attachment Kit	Lifting Handle Kit	Slicer Blade Kit	Leg Kit	Shim Kit	Striker Plate Kit	Striker Shell Kit	Striker Hardware Kit
7366-414-16-32N			138617-D	143264SK-D-KIT	138614D	140152-32	1385500-D-KIT	144218TAD-ASSY-KIT	125506B	142158D-KIT	143265D-ASSY-KIT	143264SK-D-ASSY-KIT	142633-6D-KIT
7366-414-32-32N			138617-D	143264SK-D-KIT	138614D	140152-32	1385500-D-KIT	144218TAA-ASSY-KIT	125506B	142158D-KIT	143265D-ASSY-KIT	143264SK-D-ASSY-KIT	142633-6D-KIT
7366-414-33-32N			138617-D	143264SK-D-KIT	138614D	140152-32	1385500-D-KIT	144218TX-ASSY-KIT	125506B	142158D-KIT	143265D-ASSY-KIT	143264SK-D-ASSY-KIT	142633-6D-KIT
7366-414-49-32N			138617-D	143264SK-D-KIT	138614D	140152-32	1385500-D-KIT	144218TS-ASSY-KIT	125506B	142158D-KIT	143265D-ASSY-KIT	143264SK-D-ASSY-KIT	142633-6D-KIT
7366-414-64-32N	138582-DX-SD		138617-D	143264SK-D-KIT	138614D	140152-32	1385500-D-KIT	144218TS-ASSY-KIT	125506B	142158D-KIT	143265D-ASSY-KIT	143264SK-D-ASSY-KIT	142633-6D-KIT
7366-414-79-32N	138582-DX-CC	138582-XP	138617-D	143264SK-D-KIT	138614D	140152-32	1385500-D-KIT	144218TS-ASSY-KIT	125506B	142158D-KIT	143265D-ASSY-KIT	143264SK-D-ASSY-KIT	142633-6D-KIT
7366-414-80-32N	138582-DX-TC		138617-D	143264SK-D-KIT	138614D	140152-32	1385500-D-KIT	144218TL-ASSY-KIT	125506B	142158D-KIT	143265D-ASSY-KIT	143264SK-D-ASSY-KIT	142633-6D-KIT
7366-414-81-32N			138617-D	143264SK-D-KIT	138614D	140152-32	1385500-D-KIT	144218TG-ASSY-KIT	125506B	142158D-KIT	143265D-ASSY-KIT	143264SK-D-ASSY-KIT	142633-6D-KIT

KIT PART NUMBERS (BEFORE FEB.-2019)												
Model	Volute Kit	Slicer Blade Kit	Shim Kit	Striker Plate Kit	Striker Shell Kit	Striker Hardware Kit						
7366-414-16-32N	137226SK-KIT	129993TAA-ASSY-KIT	142157D-KIT	142125-ASY-KIT	127254SK-ASSY-KIT	142633-4-KIT						
7366-414-32-32N	137226SK-KIT	129993TX-ASSY-KIT	142157D-KIT	142125-ASY-KIT	127254SK-ASSY-KIT	142633-4-KIT						
7366-414-33-32N	137226SK-KIT	129993TU-ASSY-KIT	142157D-KIT	142125-ASY-KIT	127254SK-ASSY-KIT	142633-4-KIT						
7366-414-49-32N	137226SK-KIT	129993TM-ASSY-KIT	142157D-KIT	142125-ASY-KIT	127254SK-ASSY-KIT	142633-4-KIT						
7366-414-64-32N	137226SK-KIT	129993TI-ASSY-KIT	142157D-KIT	142125-ASY-KIT	127254SK-ASSY-KIT	142633-4-KIT						
7366-414-79-32N	137226SK-KIT	129993TH-ASSY-KIT	142157D-KIT	142125-ASY-KIT	127254SK-ASSY-KIT	142633-4-KIT						
7366-414-80-32N	137226SK-KIT	129993TH-ASSY-KIT	142157D-KIT	142125-ASY-KIT	127254SK-ASSY-KIT	142633-4-KIT						

**NOTE:**

For NIHARD impeller info, start on page 29.

\* Standard part number. For more information see page 36.

KIT PART NUMBERS (AFTER FEB.-2019)												
Model	Seal Kit	O-Ring Kit	Hardware Kit	Volute Kit	Slicer Attachment Kit	Lifting Handle Kit	Slicer Blade Kit	Leg Kit	Shim Kit	Striker Plate Kit	Striker Shell Kit	Striker Hardware Kit
7366-449-31-32N			138617-D	143264SK-D-KIT	138614D	140152-32	144218TH-ASSY-KIT	125506B	142158D-KIT	143265D-ASSY-KIT	143264SK-D-ASSY-KIT	142633-6D-KIT
7366-449-32-32N			138617-D	143264SK-D-KIT	138614D	140152-32	144218TD-ASSY-KIT	125506B	142158D-KIT	143265D-ASSY-KIT	143264SK-D-ASSY-KIT	142633-6D-KIT
7366-449-92-32N			138617-D	143264SK-D-KIT	138614D	140152-32	144218TD-ASSY-KIT	125506B	142158D-KIT	143265D-ASSY-KIT	143264SK-D-ASSY-KIT	142633-6D-KIT
7366-449-1B-32N			138617-D	143264SK-D-KIT	138614D	140152-32	144218TD-ASSY-KIT	125506B	142158D-KIT	143265D-ASSY-KIT	143264SK-D-ASSY-KIT	142633-6D-KIT
7366-449-33-32N	138582-DX-SD		138617-D	143264SK-D-KIT	138614D	140152-32	144218TB-ASSY-KIT	125506B	142158D-KIT	143265D-ASSY-KIT	143264SK-D-ASSY-KIT	142633-6D-KIT
7366-449-93-32N	138582-DX-CC	138582-XP	138617-D	143264SK-D-KIT	138614D	140152-32	144218TB-ASSY-KIT	125506B	142158D-KIT	143265D-ASSY-KIT	143264SK-D-ASSY-KIT	142633-6D-KIT
7366-449-1C-32N	138582-DX-TC		138617-D	143264SK-D-KIT	138614D	140152-32	144218TB-ASSY-KIT	125506B	142158D-KIT	143265D-ASSY-KIT	143264SK-D-ASSY-KIT	142633-6D-KIT
7366-449-49-32N			138617-D	143264SK-D-KIT	138614D	140152-32	144218-ASSY-KIT	125506B	142158D-KIT	143265D-ASSY-KIT	143264SK-D-ASSY-KIT	142633-6D-KIT
7366-449-64-32N			138617-D	143264SK-D-KIT	138614D	140152-32	144218-ASSY-KIT	125506B	142158D-KIT	143265D-ASSY-KIT	143264SK-D-ASSY-KIT	142633-6D-KIT
7366-449-79-32N			138617-D	143264SK-D-KIT	138614D	140152-32	144218-ASSY-KIT	125506B	142158D-KIT	143265D-ASSY-KIT	143264SK-D-ASSY-KIT	142633-6D-KIT

KIT PART NUMBERS (BEFORE FEB.-2019)												
Model	Volute Kit	Slicer Blade Kit	Shim Kit	Striker Plate Kit	Striker Shell Kit	Striker Hardware Kit						
7366-449-31-32N	137226SK-KIT	129993TF-ASSY-KIT	142157D-KIT	142125-AS-SY-KIT	127254SK-ASSY-KIT	142633-4-KIT						
7366-449-32-32N	137226SK-KIT	129993TB-ASSY-KIT	142157D-KIT	142125-AS-SY-KIT	127254SK-ASSY-KIT	142633-4-KIT						
7366-449-92-32N	137226SK-KIT	129993TB-ASSY-KIT	142157D-KIT	142125-AS-SY-KIT	127254SK-ASSY-KIT	142633-4-KIT						
7366-449-1B-32N	137226SK-KIT	129993TB-ASSY-KIT	142157D-KIT	142125-AS-SY-KIT	127254SK-ASSY-KIT	142633-4-KIT						
7366-449-33-32N	137226SK-KIT	129993AS-SY-KIT	142157D-KIT	142125-AS-SY-KIT	127254SK-ASSY-KIT	142633-4-KIT						
7366-449-93-32N	137226SK-KIT	129993AS-SY-KIT	142157D-KIT	142125-AS-SY-KIT	127254SK-ASSY-KIT	142633-4-KIT						
7366-449-1C-32N	137226SK-KIT	129993AS-SY-KIT	142157D-KIT	142125-AS-SY-KIT	127254SK-ASSY-KIT	142633-4-KIT						

**NOTE:**

For NIHARD impeller info, start on page 29.

\* Standard part number. For more information see page 36.



Model	Seal Kit	O-Ring Kit	Hardware Kit	Volute Kit	Slicer Blade Attachment Kit	Cord Attachment Kit	Lifting Handle Kit	Slicer Blade Kit	Leg Kit	Shim Kit	Striker Plate Kit	Striker Shell Kit	Striker Hardware Kit
7366-615-16-32N	138582-DX-SD 138582-DX-CC 138582-DX-TC	138582-XP	138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826BT-ASSY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-615-32-32N			138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826BTB-ASSY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-615-33-32N			138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826B-ASSY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-616-33-32N	138582-DX-SD 138582-DX-CC 138582-DX-TC	138582-XP	138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826ATH-ASSY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-616-49-32N			138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826ATC-ASSY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-616-64-32N			138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826ATC-ASSY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-616-79-32N	138582-DX-SD 138582-DX-CC 138582-DX-TC	138582-XP	138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826ATC-ASSY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-616-65-32N			138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826A-ASSY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-616-80-32N			138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826A-ASSY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-620-31-32N	138582-DX-SD 138582-DX-CC 138582-DX-TC	138582-XP	138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826A-ASSY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-617-65-32N	138582-DX-SD 138582-DX-CC 138582-DX-TC	138582-XP	138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826TJ-ASSY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-617-80-32N			138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826TJ-ASSY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-617-66-32N			138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826TE-ASSY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-617-81-32N	138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826TE-ASSY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT	142633-6D-KIT	

Model	Seal Kit	O-Ring Kit	Hardware Kit	Volute Kit	Slicer Blade Attachment Kit	Cord Attachment Kit	Lifting Handle Kit	Slicer Blade Kit	Leg Kit	Shim Kit	Striker Plate Kit	Striker Shell Kit	Striker Hardware Kit
7366-621-31-32N			138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826TE-ASSY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-621-32-32N			138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826TC-ASSY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-621-92-32N			138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826TC-ASSY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-621-1B-32N	138582-DX-SD 138582-DX-CC 138582-DX-TC	138582-XP	138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826AS-SY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-621-33-32N			138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826AS-SY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-621-93-32N			138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826AS-SY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-621-1C-32N			138617-D	130830SK-1D-KIT	138614D	140152-32	138550D-KIT	130826AS-SY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-663-16-32N			138617-D	138110SK-D-KIT	138614D	140152-32	138550D-KIT	138104STB-ASSY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-663-32-32N	138582-DX-SD 138582-DX-CC 138582-DX-TC	138582-XP	138617-D	138110SK-D-KIT	138614D	140152-32	138550D-KIT	138104STA-ASSY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT
7366-663-33-32N			138617-D	138110SK-D-KIT	138614D	140152-32	138550D-KIT	138104S-ASSY-KIT	125506B	142158D-KIT	141585D-ASSY-KIT	130830SK1D-ASSY-KIT	142633-6D-KIT

KIT PART NUMBERS (AFTER FEB.-2019)													
Model	Seal Kit	O-Ring Kit	Hardware Kit	Volute Kit	Slicer Blade Attachment Kit	Cord Attachment Kit	Lifting Handle Kit	Slicer Blade Kit	Leg Kit	Shim Kit	Striker Plate Kit	Striker Shell Kit	Striker Hardware Kit
7366-618-32-32N			138617-D	143338SK-D-KIT	138614D	140152-32	138550D-KIT	144216UC-ASSY-KIT	125506B	143551D-KIT	143339D-ASSY-KIT	143338SK-D-ASSY-KIT	142633-8D-KIT
7366-618-33-32N			138617-D	143338SK-D-KIT	138614D	140152-32	138550D-KIT	144216TZ-ASSY-KIT	125506B	143551D-KIT	143339D-ASSY-KIT	143338SK-D-ASSY-KIT	142633-8D-KIT
7366-618-49-32N			138617-D	143338SK-D-KIT	138614D	140152-32	138550D-KIT	144216TV-ASSY-KIT	125506B	143551D-KIT	143339D-ASSY-KIT	143338SK-D-ASSY-KIT	142633-8D-KIT
7366-618-64-32N	138582-DX-SD		138617-D	143338SK-D-KIT	138614D	140152-32	138550D-KIT	144216TV-ASSY-KIT	125506B	143551D-KIT	143339D-ASSY-KIT	143338SK-D-ASSY-KIT	142633-8D-KIT
7366-618-79-32N	138582-DX-CC	138582-XP	138617-D	143338SK-D-KIT	138614D	140152-32	138550D-KIT	144216TV-ASSY-KIT	125506B	143551D-KIT	143339D-ASSY-KIT	143338SK-D-ASSY-KIT	142633-8D-KIT
7366-618-65-32N	138582-DX-TC		138617-D	143338SK-D-KIT	138614D	140152-32	138550D-KIT	144216TQ-ASSY-KIT	125506B	143551D-KIT	143339D-ASSY-KIT	143338SK-D-ASSY-KIT	142633-8D-KIT
7366-618-80-32N			138617-D	143338SK-D-KIT	138614D	140152-32	138550D-KIT	144216TQ-ASSY-KIT	125506B	143551D-KIT	143339D-ASSY-KIT	143338SK-D-ASSY-KIT	142633-8D-KIT
7366-618-66-32N			138617-D	143338SK-D-KIT	138614D	140152-32	138550D-KIT	144216TL-ASSY-KIT	125506B	143551D-KIT	143339D-ASSY-KIT	143338SK-D-ASSY-KIT	142633-8D-KIT
7366-618-81-32N			138617-D	143338SK-D-KIT	138614D	140152-32	138550D-KIT	144216TL-ASSY-KIT	125506B	143551D-KIT	143339D-ASSY-KIT	143338SK-D-ASSY-KIT	142633-8D-KIT

KIT PART NUMBERS (BEFORE FEB.-2019)									
Model	Volute Kit	Slicer Blade Kit	Shim Kit	Striker Plate Kit	Striker Shell Kit	Striker Hardware Kit			
7366-618-32-32N	130830SK-2-KIT	130827UA-ASSY-KIT	142158D-KIT	141585-AS-SY-KIT	130830SK-2-ASSY-KIT	142633-6-KIT			
7366-618-33-32N	130830SK-2-KIT	130827TX-ASSY-KIT	142158D-KIT	141585-AS-SY-KIT	130830SK-2-ASSY-KIT	142633-6-KIT			
7366-618-49-32N	130830SK-2-KIT	130827TR-ASSY-KIT	142158D-KIT	141585-AS-SY-KIT	130830SK-2-ASSY-KIT	142633-6-KIT			
7366-618-64-32N	130830SK-2-KIT	130827TR-ASSY-KIT	142158D-KIT	141585-AS-SY-KIT	130830SK-2-ASSY-KIT	142633-6-KIT			
7366-618-79-32N	130830SK-2-KIT	130827TR-ASSY-KIT	142158D-KIT	141585-AS-SY-KIT	130830SK-2-ASSY-KIT	142633-6-KIT			
7366-618-65-32N	130830SK-2-KIT	130827TL-ASSY-KIT	142158D-KIT	141585-AS-SY-KIT	130830SK-2-ASSY-KIT	142633-6-KIT			
7366-618-80-32N	130830SK-2-KIT	130827TL-ASSY-KIT	142158D-KIT	141585-AS-SY-KIT	130830SK-2-ASSY-KIT	142633-6-KIT			
7366-618-66-32N	130830SK-2-KIT	130827TG-ASSY-KIT	142158D-KIT	141585-AS-SY-KIT	130830SK-2-ASSY-KIT	142633-6-KIT			
7366-618-81-32N	130830SK-2-KIT	130827TG-ASSY-KIT	142158D-KIT	141585-AS-SY-KIT	130830SK-2-ASSY-KIT	142633-6-KIT			

**NOTE:**

For NIHARD impeller info, start on page 29.

\* Standard part number. For more information see page 36.

KIT PART NUMBERS (AFTER FEB.-2019)													
Model	Seal Kit	O-Ring Kit	Hardware Kit	Volute Kit	Slicer Attachment Kit	Cord Attachment Kit	Lifting Handle Kit	Slicer Blade Kit	Leg Kit	Shim Kit	Striker Plate Kit	Striker Shell Kit	Striker Hardware Kit
7366-622-31-32N			138617-D	143338SK-D-KIT	138614D	140152-32	138550D-KIT	144216TJ-ASSY-KIT	125506B	143551D-KIT	143339D-ASSY-KIT	143338SK-D-ASSY-KIT	142633-8D-KIT
7366-622-32-32N			138617-D	143338SK-D-KIT	138614D	140152-32	138550D-KIT	144216TE-ASSY-KIT	125506B	143551D-KIT	143339D-ASSY-KIT	143338SK-D-ASSY-KIT	142633-8D-KIT
7366-622-92-32N			138617-D	143338SK-D-KIT	138614D	140152-32	138550D-KIT	144216TE-ASSY-KIT	125506B	143551D-KIT	143339D-ASSY-KIT	143338SK-D-ASSY-KIT	142633-8D-KIT
7366-622-1B-32N			138617-D	143338SK-D-KIT	138614D	140152-32	138550D-KIT	144216TE-ASSY-KIT	125506B	143551D-KIT	143339D-ASSY-KIT	143338SK-D-ASSY-KIT	142633-8D-KIT
7366-622-33-32N	138582-DX-SD		138617-D	143338SK-D-KIT	138614D	140152-32	138550D-KIT	144216TB-ASSY-KIT	125506B	143551D-KIT	143339D-ASSY-KIT	143338SK-D-ASSY-KIT	142633-8D-KIT
7366-622-93-32N	138582-DX-CC	138582-XP	138617-D	143338SK-D-KIT	138614D	140152-32	138550D-KIT	144216TB-ASSY-KIT	125506B	143551D-KIT	143339D-ASSY-KIT	143338SK-D-ASSY-KIT	142633-8D-KIT
7366-622-1C-32N	138582-DX-TC		138617-D	143338SK-D-KIT	138614D	140152-32	138550D-KIT	144216TB-ASSY-KIT	125506B	143551D-KIT	143339D-ASSY-KIT	143338SK-D-ASSY-KIT	142633-8D-KIT
7366-622-49-32N			138617-XP	143338SK-D-KIT	138614D	140152-32	138550-KIT	144216-ASSY-KIT	125506B	143551D-KIT	143339D-ASSY-KIT	143338SK-D-ASSY-KIT	142633-8D-KIT
7366-622-64-32N			138617-XP	143338SK-D-KIT	138614D	140152-32	138550-KIT	144216-ASSY-KIT	125506B	143551D-KIT	143339D-ASSY-KIT	143338SK-D-ASSY-KIT	142633-8D-KIT
7366-622-79-32N			138617-XP	143338SK-D-KIT	138614D	140152-32	138550-KIT	144216-ASSY-KIT	125506B	143551D-KIT	143339D-ASSY-KIT	143338SK-D-ASSY-KIT	142633-8D-KIT

KIT PART NUMBERS (BEFORE FEB.-2019)												
Model	Volute Kit	Slicer Blade Kit	Shim Kit	Striker Plate Kit	Striker Shell Kit	Striker Hardware Kit						
7366-622-31-32N	130830SK-2-KIT	130827TH-ASSY-KIT	142158D-KIT	141585-AS-SY-KIT	130830SK-2-ASSY-KIT	142633-6-KIT						
7366-622-32-32N	130830SK-2-KIT	130827TD-ASSY-KIT	142158D-KIT	141585-AS-SY-KIT	130830SK-2-ASSY-KIT	142633-6-KIT						
7366-622-92-32N	130830SK-2-KIT	130827TD-ASSY-KIT	142158D-KIT	141585-AS-SY-KIT	130830SK-2-ASSY-KIT	142633-6-KIT						
7366-622-1B-32N	130830SK-2-KIT	130827TD-ASSY-KIT	142158D-KIT	141585-AS-SY-KIT	130830SK-2-ASSY-KIT	142633-6-KIT						
7366-622-33-32N	130830SK-2-KIT	130827AS-SY-KIT	142158D-KIT	141585-AS-SY-KIT	130830SK-2-ASSY-KIT	142633-6-KIT						
7366-622-63-32N	130830SK-2-KIT	130827AS-SY-KIT	142158D-KIT	141585-AS-SY-KIT	130830SK-2-ASSY-KIT	142633-6-KIT						
7366-622-78-32N	130830SK-2-KIT	130827AS-SY-KIT	142158D-KIT	141585-AS-SY-KIT	130830SK-2-ASSY-KIT	142633-6-KIT						

**NOTE:**

For NIHARD impeller info, start on page 29.

\* Standard part number. For more information see page 36.

Model	Seal Kit	O-Ring Kit	Hardware Kit	Volute Kit	Slicer Blade Attachment Kit	Cord Attachment Kit	Lifting Handle Kit	Slicer Blade Kit	Leg Kit	Shim Kit	Striker Plate Kit	Striker Shell Kit	Striker Hardware Kit
7366-860-32-32N			138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102STN-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-860-33-32N			138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102STL-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-860-49-32N			138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102STH-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-860-64-32N			138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102STH-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-860-79-32N	138582-DX-SD 138582-DX-CC 138582-DX-TC	138582-XP	138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102STH-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-860-65-32N			138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102STE-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-860-80-32N			138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102STC-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-860-66-32N			138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102STC-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-860-81-32N			138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102STC-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-861-31-32N			138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102STC-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-861-32-32N	138582-DX-SD 138582-DX-CC 138582-DX-TC	138582-XP	138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102S-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-861-92-32N			138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102S-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-861-1B-32N			138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102S-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-862-39-32N			138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102STF-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-862-1U-32N			138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102STF-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-862-1V-32N			138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102STF-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-862-37-32N	138582-DX-SD 138582-DX-CC 138582-DX-TC	138582-XP	138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102STA-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-862-89-32N			138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102STA-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-862-98-32N			138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102S-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-862-38-32N			138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102S-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-862-90-32N			138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102S-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT
7366-862-99-32N			138617-D	143415SK-D-KIT	143617D	140152-32	138550-KIT	138102S-ASSY-KIT	125506B	143465D-KIT	143411D-ASSY-KIT	143415SK-D-ASSY-KIT	142633-10D-KIT

Model	Seal Kit	O-Ring Kit	Hardware Kit	Volute Kit	Slicer Blade Attachment Kit	Cord Attachment Kit	Lifting Handle Kit	Slicer Blade Kit	Leg Kit	Shim Kit	Striker Plate Kit	Striker Shell Kit	Striker Hardware Kit
7366-850-66-32N	138582-DX-SD		138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829UA-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
	138582-DX-CC	138582-XP											
7366-850-81-32N	138582-DX-TC		138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829UA-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-823-31-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829UA-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-823-32-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TY-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-823-92-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TY-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-823-1B-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TY-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-823-33-32N	138582-DX-SD		138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TW-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
	138582-DX-CC	138582-XP											
7366-823-93-32N	138582-DX-TC		138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TW-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-823-1C-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TW-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-823-49-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TR-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-823-64-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TR-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-823-79-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TR-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT

Model	Seal Kit	O-Ring Kit	Hardware Kit	Volute Kit	Slicer Blade Attachment Kit	Cord Attachment Kit	Lifting Handle Kit	Slicer Blade Kit	Leg Kit	Shim Kit	Striker Plate Kit	Striker Shell Kit	Striker Hardware Kit
7366-851-39-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829UA-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-851-1U-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829UA-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-851-1V-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829UA-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-851-37-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TY-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-851-89-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TY-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-851-98-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TY-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-851-38-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TR-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-851-90-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TR-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-851-99-32N	138582-DX-SD		138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TK-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-851-31-32N	138582-DX-CC	138582-XP	138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TK-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-851-91-32N	138582-DX-TC		138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TK-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-851-1A-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TK-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-851-32-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TE-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-851-92-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TE-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-851-1B-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TE-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-851-33-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TB-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-851-93-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TB-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT
7366-851-1C-32N			138617-D	143414SK-D-KIT	143617D	140152-32	138550-KIT	130829TB-ASSY-KIT	125506C	143465D-KIT	143411D-ASSY-KIT	143414SK-D-ASSY-KIT	142633-10D-KIT

Model	Seal Kit	O-Ring Kit	Hardware Kit	Volute Kit	Slicer Blade Attachment Kit	Cord Attachment Kit	Lifting Handle Kit	Slicer Blade Kit	Leg Kit	Shim Kit	Striker Plate Kit	Striker Shell Kit	Striker Hardware Kit
7366-X54-32-32N			138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S TM-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT
7366-X54-92-32N			138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S TM-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT
7366-X54-1B-32N			138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S TM-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT
7366-X54-33-32N			138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S TK-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT
7366-X54-93-32N	138582-DX-SD 138582-DX-CC 138582-DX-TC	138582-XP	138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S TK-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT
7366-X54-1C-32N			138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S TK-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT
7366-X54-49-32N			138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S TE-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT
7366-X54-64-32N			138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S TE-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT
7366-X54-79-32N			138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S TE-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT
7366-X55-37-32N			138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S TP-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT
7366-X55-89-32N			138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S TP-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT
7366-X55-98-32N			138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S TP-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT
7366-X55-38-32N			138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S TH-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT
7366-X55-90-32N			138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S TH-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT
7366-X55-99-32N	138582-DX-SD 138582-DX-CC 138582-DX-TC	138582-XP	138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S TH-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT
7366-X55-31-32N			138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S TC-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT
7366-X55-91-32N			138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S TC-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT
7366-X55-1A-32N			138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S TC-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT
7366-X55-32-32N			138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT
7366-X55-92-32N			138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT
7366-X55-1B-32N			138617-D	143483SK-D-KIT	143617D	140152-32	138550-KIT	138100S-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143483SK-D-ASSY-KIT	142633-12D-KIT



Model	Seal Kit	O-Ring Kit	Hardware Kit	Volute Kit	Slicer Blade Attachment Kit	Cord Attachment Kit	Lifting Handle Kit	Slicer Blade Kit	Leg Kit	Shim Kit	Striker Plate Kit	Striker Shell Kit	Striker Hardware Kit		
7366-X52-49-32N	138582-DX-SD 138582-DX-CC 138582-DX-TC	138582-XP	138617-D	143484SK-D-KIT	143617D	140152-32	138550-KIT	138099STW-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143484SK-D-ASSY-KIT	142633-12D-KIT		
7366-X52-64-32N			138617-D	143484SK-D-KIT	143617D	140152-32	138550-KIT	138099STW-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143484SK-D-ASSY-KIT	142633-12D-KIT		
7366-X52-79-32N			138617-D	143484SK-D-KIT	143617D	140152-32	138550-KIT	138099STW-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143484SK-D-ASSY-KIT	142633-12D-KIT		
7366-X53-38-32N	138582-DX-SD 138582-DX-CC 138582-DX-TC	138582-XP	138617-D	143484SK-D-KIT	143617D	140152-32	138550-KIT	138099STY-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143484SK-D-ASSY-KIT	142633-12D-KIT		
7366-X53-90-32N			138617-D	143484SK-D-KIT	143617D	140152-32	138550-KIT	138099STY-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143484SK-D-ASSY-KIT	142633-12D-KIT		
7366-X53-99-32N			138617-D	143484SK-D-KIT	143617D	140152-32	138550-KIT	138099STY-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143484SK-D-ASSY-KIT	142633-12D-KIT		
7366-X53-31-32N			138617-D	143484SK-D-KIT	143617D	140152-32	138550-KIT	138099STT-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143484SK-D-ASSY-KIT	142633-12D-KIT		
7366-X53-91-32N			138617-D	143484SK-D-KIT	143617D	140152-32	138550-KIT	138099STT-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143484SK-D-ASSY-KIT	142633-12D-KIT		
7366-X53-1A-32N			138582-DX-SD	138582-XP	138617-D	143484SK-D-KIT	143617D	140152-32	138550-KIT	138099STT-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143484SK-D-ASSY-KIT	142633-12D-KIT
7366-X53-32-32N			138582-DX-CC		138617-D	143484SK-D-KIT	143617D	140152-32	138550-KIT	138099STP-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143484SK-D-ASSY-KIT	142633-12D-KIT
7366-X53-92-32N			138582-DX-TC		138617-D	143484SK-D-KIT	143617D	140152-32	138550-KIT	138099STP-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143484SK-D-ASSY-KIT	142633-12D-KIT
7366-X53-1B-32N			138582-DX-SD 138582-DX-CC 138582-DX-TC	138582-XP	138617-D	143484SK-D-KIT	143617D	140152-32	138550-KIT	138099STJ-ASSY-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143484SK-D-ASSY-KIT	142633-12D-KIT
7366-X53-33-32N					138617-D	143484SK-D-KIT	143617D	140152-32	138550-KIT	138550-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143484SK-D-ASSY-KIT	142633-12D-KIT
7366-X53-93-32N					138617-D	143484SK-D-KIT	143617D	140152-32	138550-KIT	138550-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143484SK-D-ASSY-KIT	142633-12D-KIT
7366-X53-1C-32N					138617-D	143484SK-D-KIT	143617D	140152-32	138550-KIT	140152-32	138550-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143484SK-D-ASSY-KIT
	138617-D	143484SK-D-KIT			143617D	140152-32	138550-KIT	140152-32	138550-KIT	125506C	143487D-KIT	143472D-ASSY-KIT	143484SK-D-ASSY-KIT	142633-12D-KIT	



**BARNES®**



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**WEINMAN®**

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**PROSSER®**

## Limited 24 Month Warranty

Crane Pumps & Systems warrants that products of our manufacture will be free of defects in material and workmanship under normal use and service for twenty-four (24) months after manufacture date, when installed and maintained in accordance with our instructions. This warranty gives you specific legal rights, and there may also be other rights which vary from state to state. In the event the product is covered by the Federal Consumer Product Warranties Law (1) the duration of any implied warranties associated with the product by virtue of said law is limited to the same duration as stated herein, (2) this warranty is a LIMITED WARRANTY, and (3) no claims of any nature whatsoever shall be made against us, until the ultimate consumer, his successor, or assigns, notifies us in writing of the defect, and delivers the product and/or defective part(s) freight prepaid to our factory or nearest authorized service station. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply. **THE SOLE AND EXCLUSIVE REMEDY FOR BREACH OF ANY AND ALL WARRANTIES WITH RESPECT TO ANY PRODUCT SHALL BE TO REPLACE OR REPAIR AT OUR ELECTION, F.O.B. POINT OF MANUFACTURE OR AUTHORIZED REPAIR STATION, SUCH PRODUCTS AND/OR PARTS AS PROVEN DEFECTIVE. THERE SHALL BE NO FURTHER LIABILITY, WHETHER BASED ON WARRANTY, NEGLIGENCE OR OTHERWISE.** Unless expressly stated otherwise, guarantees in the nature of performance specifications furnished in addition to the foregoing material and workmanship warranties on a product manufactured by us, if any, are subject to laboratory tests corrected for field performance. Any additional guarantees, in the nature of performance specifications must be in writing and such writing must be signed by our authorized representative. Due to inaccuracies in field testing if a conflict arises between the results of field testing conducted by or for user, and laboratory tests corrected for field performance, the latter shall control. **RECOMMENDATIONS FOR SPECIAL APPLICATIONS OR THOSE RESULTING FROM SYSTEMS ANALYSES AND EVALUATIONS WE CONDUCT WILL BE BASED ON OUR BEST AVAILABLE EXPERIENCE AND PUBLISHED INDUSTRY INFORMATION. SUCH RECOMMENDATIONS DO NOT CONSTITUTE A WARRANTY OF SATISFACTORY PERFORMANCE AND NO SUCH WARRANTY IS GIVEN.**

This warranty shall not apply when damage is caused by (a) improper installation, (b) improper voltage (c) lightning (d) excessive sand or other abrasive material (e) scale or corrosion build-up due to excessive chemical content. Any modification of the original equipment will also void the warranty. We will not be responsible for loss, damage or labor cost due to interruption of service caused by defective parts. Neither will we accept charges incurred by others without our prior written approval.

This warranty is void if our inspection reveals the product was used in a manner inconsistent with normal industry practice and/or our specific recommendations. The purchaser is responsible for communication of all necessary information regarding the application and use of the product. **UNDER NO CIRCUMSTANCES WILL WE BE RESPONSIBLE FOR ANY OTHER DIRECT OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO TRAVEL EXPENSES, RENTED EQUIPMENT, OUTSIDE CONTRACTOR FEES, UNAUTHORIZED REPAIR SHOP EXPENSES, LOST PROFITS, LOST INCOME, LABOR CHARGES, DELAYS IN PRODUCTION, IDLE PRODUCTION, WHICH DAMAGES ARE CAUSED BY ANY DEFECTS IN MATERIAL AND/OR WORKMANSHIP AND/OR DAMAGE OR DELAYS IN SHIPMENT. THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

No rights extended under this warranty shall be assigned to any other person, whether by operation of law or otherwise, without our prior written approval.



**PUMPS & SYSTEMS**

A Crane Co. Company

420 Third Street  
Piqua, Ohio 45356  
(937) 778-8947  
Fax (937) 773-7157  
[www.cranepumps.com](http://www.cranepumps.com)

83 West Drive  
Brampton, Ont. Canada L6T 2J6  
(905) 457-6223  
Fax (905) 457-2650

**IMPORTANT!  
WARRANTY INFORMATION**

Warranty will be voided if the product  
is serviced by any  
Unauthorized Service Center.

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**IMPORTANT!  
WARRANTY REGISTRATION**

Your product is covered by the enclosed Warranty.  
To complete the Warranty Registration Form go to:

<http://www.cranepumps.com/ProductRegistration/>

If you have a claim under the provision of the warranty, contact your local  
Crane Pumps & Systems, Inc. Distributor.

**RETURNED GOODS**

**RETURN OF MERCHANDISE REQUIRES A "RETURNED GOODS AUTHORIZATION".  
CONTACT YOUR LOCAL CRANE PUMPS & SYSTEMS, INC. DISTRIBUTOR.**



**Products Returned Must Be Cleaned, Sanitized,  
Or Decontaminated As Necessary Prior To Shipment,  
To Insure That Employees Will Not Be Exposed To Health  
Hazards In Handling Said Material. All Applicable Laws  
And Regulations Shall Apply.**



A Crane Co. Company

# PUMPS & SYSTEMS

## START-UP REPORT

### General Information

Pump Owner's Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Location of Installation: \_\_\_\_\_  
 Contact Person: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Purchased From: \_\_\_\_\_

### Nameplate Data

Pump Model #: \_\_\_\_\_ Serial #: \_\_\_\_\_  
 Part #: \_\_\_\_\_ Impeller Diameter: \_\_\_\_\_  
 Voltage: \_\_\_\_\_ Phase: \_\_\_\_\_ Ø Hertz: \_\_\_\_\_ Horsepower: \_\_\_\_\_  
 Full Load Amps: \_\_\_\_\_ Service Factor Amps: \_\_\_\_\_  
 Motor Manufacturer: \_\_\_\_\_

### Controls

Control panel manufacturer: \_\_\_\_\_  
 Model/Part number: \_\_\_\_\_  
 Number of pumps operated by control panel: \_\_\_\_\_  
 Short circuit protection? YES\_\_\_ NO\_\_\_ Type: \_\_\_\_\_  
 Number and size of short circuit device(s): \_\_\_\_\_ Amp rating: \_\_\_\_\_  
 Overload Type: \_\_\_\_\_ Size: \_\_\_\_\_ Amp rating: \_\_\_\_\_  
 Do protection devices comply with pump and motor Amp rating? YES\_\_\_ NO\_\_\_  
 Are all electrical and panel entry connections tight? YES\_\_\_ NO\_\_\_  
 Is the interior of the panel dry? YES\_\_\_ NO\_\_\_  
 Liquid level Control Brand and Model: \_\_\_\_\_

### Pre-Startup

#### All Pumps

Type of equipment: NEW\_\_\_ REBUILT\_\_\_ USED\_\_\_  
 Condition of equipment at Start-Up: DRY\_\_\_ WET\_\_\_ MUDDY\_\_\_  
 Was Equipment Stored? YES\_\_\_ NO\_\_\_ Length of Storage: \_\_\_\_\_  
 Liquid being pumped: \_\_\_\_\_ Liquid Temperature: \_\_\_\_\_  
 Supply Voltage/Phase/Frequency matches nameplate? YES\_\_\_ NO\_\_\_  
 Shaft turns freely? YES\_\_\_ NO\_\_\_  
 Direction of rotation verified for 3Ø motors? YES\_\_\_ NO\_\_\_  
 Debris in piping or wet well? YES\_\_\_ NO\_\_\_  
 Debris removed in your presence? YES\_\_\_ NO\_\_\_  
 Pump case/wet well filled with liquid before startup? YES\_\_\_ NO\_\_\_  
 Is piping properly supported? YES\_\_\_ NO\_\_\_

#### Non-Submersible Pumps

Is base plate properly installed / grouted? YES\_\_\_ NO\_\_\_ N/A\_\_\_  
 Coupling Alignment Verified per I&O Manual? YES\_\_\_ NO\_\_\_ N/A\_\_\_  
 Grease Cup/Oil Reservoir Level checked? YES\_\_\_ NO\_\_\_ N/A\_\_\_

**Submersible Pumps**

Resistance of cable and pump motor (measured at pump control):

Red-Black: \_\_\_\_\_ Ohms(Ω) Red-White: \_\_\_\_\_ Ohms(Ω) White-Black: \_\_\_\_\_ Ohms(Ω)

Resistance of Ground Circuit between Control Panel and outside of pump: \_\_\_\_\_ Ohms(Ω)

MEG Ohms check of insulation:

Red to Ground: \_\_\_\_\_ White to Ground: \_\_\_\_\_ Black to Ground: \_\_\_\_\_

**Operational Checks**

Is there noise or vibration present? YES\_\_\_ NO\_\_\_ Source of noise/vibration: \_\_\_\_\_

Does check valve operate properly? YES\_\_\_ NO\_\_\_ N/A\_\_\_

Is system free of leaks? YES\_\_\_ NO\_\_\_ Leaks at: \_\_\_\_\_

Does system appear to operate at design flow rate? YES\_\_\_ NO\_\_\_

Nominal Voltage: \_\_\_\_\_ Phase: 1Ø 3Ø (select one)

Voltage Reading at panel connection, Pump OFF: L1, L2 \_\_\_\_\_ L2, L3 \_\_\_\_\_ L1, L3 \_\_\_\_\_

Voltage Reading at panel connection, Pump ON: L1, L2 \_\_\_\_\_ L2, L3 \_\_\_\_\_ L1, L3 \_\_\_\_\_

Amperage Draw, Pump ON: L1 \_\_\_\_\_ L2 \_\_\_\_\_ L3 \_\_\_\_\_

**Submersible Pumps**

Are BAF and guide rails level / plumb? YES\_\_\_ NO\_\_\_

Is pump seated on discharge properly? YES\_\_\_ NO\_\_\_

Are level controls installed away from turbulence? YES\_\_\_ NO\_\_\_

Is level control operating properly? YES\_\_\_ NO\_\_\_

Is pump fully submerged during operation? YES\_\_\_ NO\_\_\_

**Follow up/Corrective Action Required**

YES\_\_\_ NO\_\_\_

**Additional Comments:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Startup performed by: \_\_\_\_\_ Date: \_\_\_\_\_

**Present at Start-Up**

( ) Engineer: \_\_\_\_\_ ( ) Operator: \_\_\_\_\_

( ) Contactor: \_\_\_\_\_ ( ) Other: \_\_\_\_\_

**All parties should retain a copy of this report for future trouble shooting/reference**



**PUMPS & SYSTEMS**

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