

GENERAL INFORMATION**MODEL NOMENCLATURE****SELECTION CURVES****SPECIFICATIONS****PACKAGE SYSTEMS**

0.2C 4SC STANDARD

PUMP SERIES:

4SCM (3 - 50HP, 1750RPM, 1150RPM)**4SCD (3 - 100HP, 1750RPM, 1150RPM)****WARNING:**

CANCER AND REPRODUCTIVE HARM -
WWW.P65WARNINGS.CA.GOV

SITHE Submersible Chopper Pumps

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NAMEPLATE HORSEPOWER:

DISCHARGE SIZE:

3 = 3" DISCHARGE
4 = 4" DISCHARGE
6 = 6" DISCHARGE
8 = 8" DISCHARGE
10 = 10" DISCHARGE

IMPELLER TYPE:

M = MONOVANE
D = DUAL VANE
T = TRI VANE

MOTOR, PHASE & VOLTAGE:

30 = 3.0 HP	400 = 40.0 HP
50 = 5.0 HP	500 = 50.0 HP
75 = 7.5 HP	600 = 60.0 HP
100 = 10.0 HP	750 = 75.0 HP
150 = 15.0 HP	1000 = 100.0 HP
200 = 20.0 HP	1250 = 125.0 HP
250 = 25.0 HP	1500 = 150.0 HP
300 = 30.0 HP	

N = 208-230/460 Volt, 3 Phase, 60Hz.

3 = 230 Volt, 3 Phase, 60Hz.

4 = 460 Volt, 3 Phase, 60Hz.

5 = 575 Volt, 3 Phase, 60Hz.

6 = 208 Volt, 3 Phase, 60Hz.

8 = 230/460 Volt, 3 Phase, 60Hz.

9 = 208/230 Volt, 3 Phase, 60Hz.

HYDRAULIC GROUP:

C, D, E, PA

SPEED: 60Hz

4 = 1750 RPM
6 = 1150 RPM
8 = 870 RPM

4 XSC M D 200 8 4

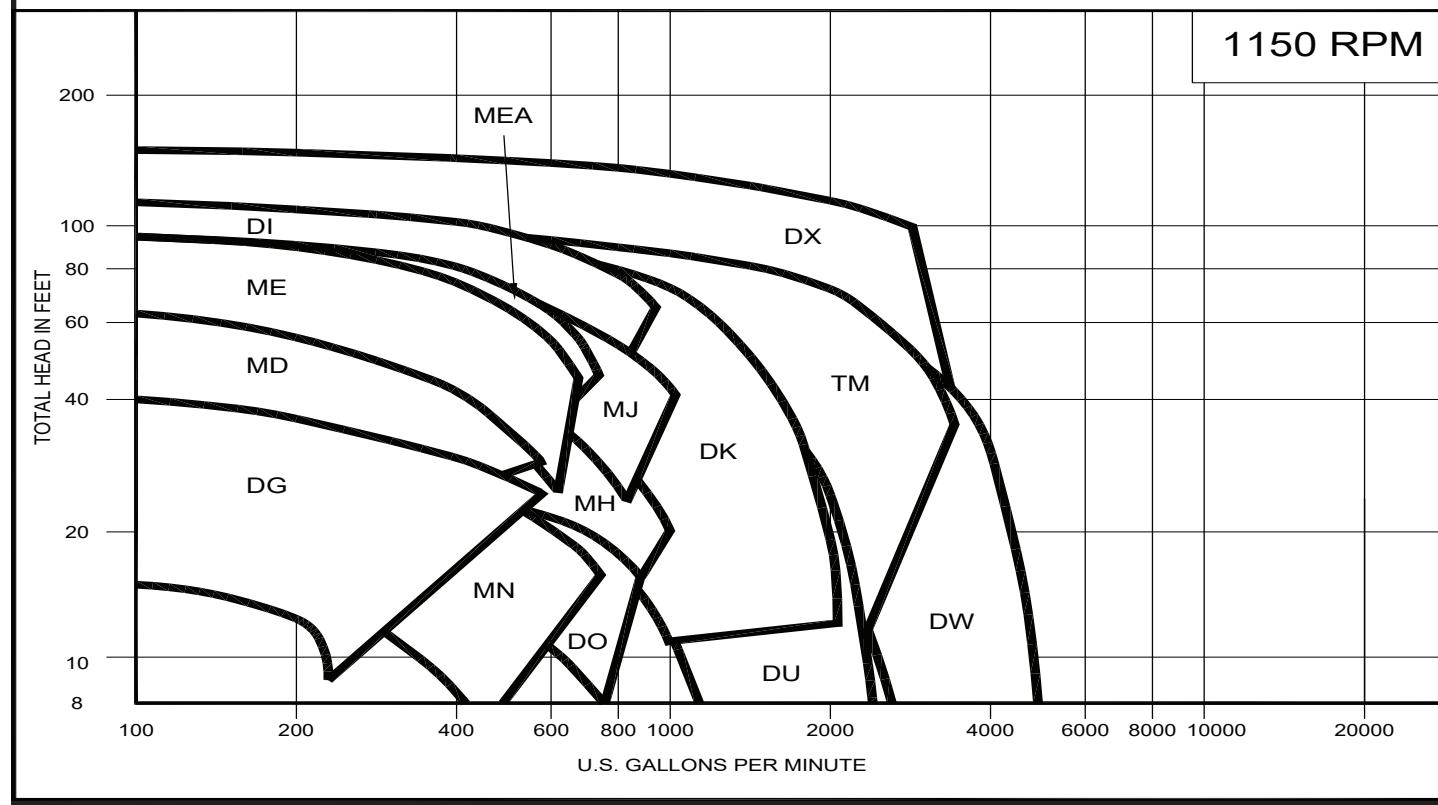
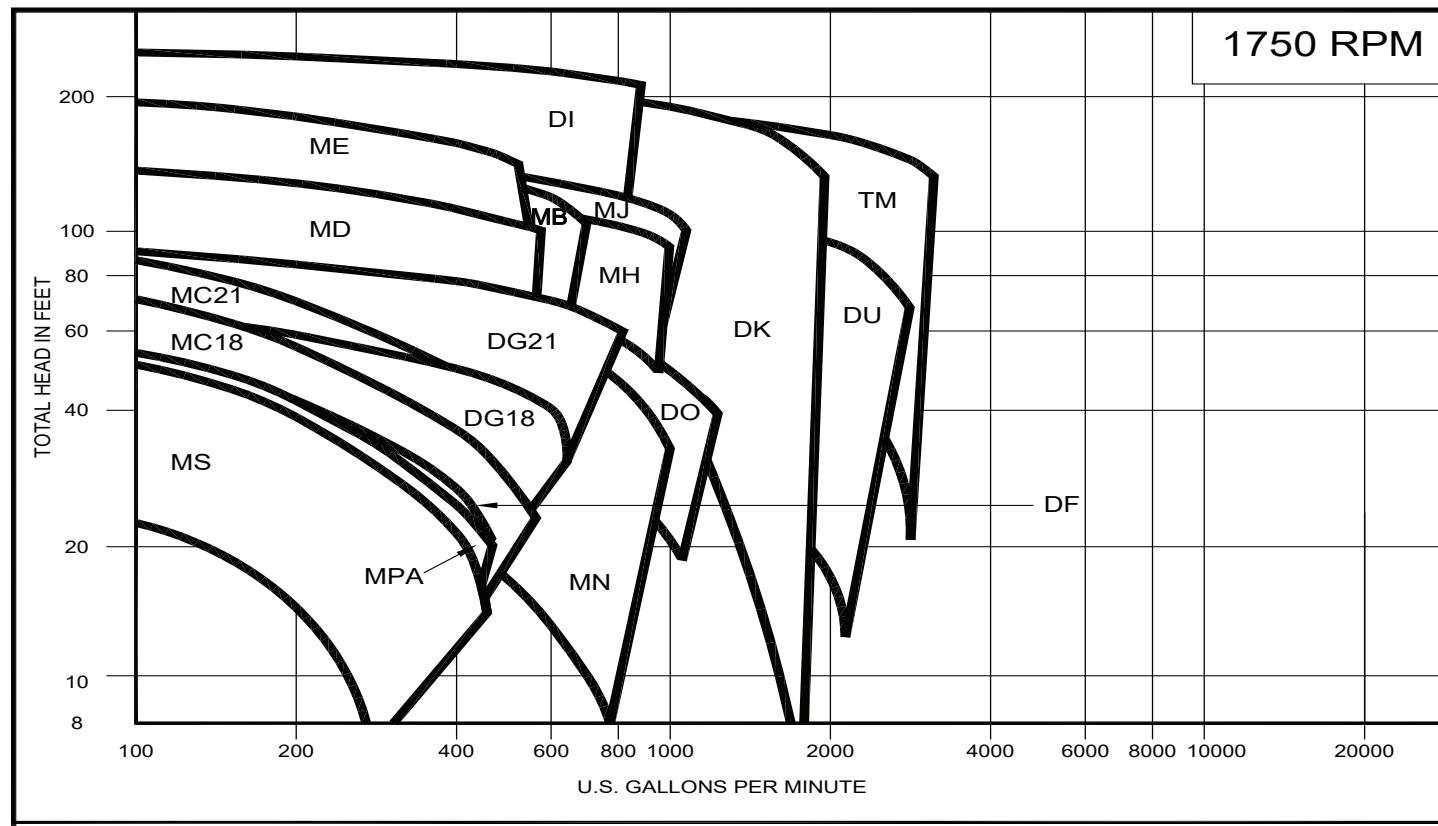
Selection Curves

RPM 1750 & 1150

BARNES®

www.cranepumps.com

SITHE Submersible Chopper Pumps



SECTION 0.2C
PAGE D
DATE 4/20

CRANE®

A Crane Co. Company

PUMPS & SYSTEMS

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

SCOPE: Furnish and install _____ submersible chopper pump(s). Each pump shall be capable of delivering the following performance points, _____ U.S. GPM at _____ TDH; _____ U.S. GPM at _____ TDH; and _____ U.S. GPM at _____ TDH, with a shut off head of _____ TDH (minimum) and _____ % minimum efficiency at _____ U.S.GPM at _____ TDH (operating point). The pump motor shall be _____ RPM, _____ HP (maximum), _____ Phase, 60 Hertz, _____ Volts. The pump (s) shall be manufactured by a company regularly engaged in the manufacture and assembly of submersible units for a minimum of five (5) years. The pump (s) shall be SITHE by Barnes® Pumps model 4SCM _____.

PUMP DESIGN: Each pump shall be capable of handling raw, unscreened domestic sewage consisting of water, fibrous materials, and solids at heavy consistencies. The pump shall be able to chop / macerate solids without clogging with chopped solid size not less than 1 inch, and the chopping mechanism shall be an integral part of the pump. The pump(s) shall be capable of handling liquids with temperatures up to 104 degrees F continuous, 160 degrees F intermittent. Bearings shall be oil-lubricated and designed for 50,000 hours operating at minimum flow. Product shall be furnished with oil filled Inverter Duty Motors per NEMA MG-1, Part 31 with stator winding of the open type with Class H spike resistant magnet wire.

PUMP CONSTRUCTION: The volute, seal plate, adapter, motor housing and motor housing cap shall be constructed of high quality, ASTM A-48 Class 30 cast iron. Impeller shall be furnished in ASTM A-536 ductile iron (ASTM A-532 class III Type A White Iron for abrasive applications) with a keyed, tapered shaft bore. Pump(s) shall be coated with two coats of Axalta™ amino amine modified polymer satin gloss epoxy with a total 10 mil minimum thickness in the manufacturer's standard color. All exposed hardware shall be 300 series stainless steel including the lifting bail. Discharge connection shall be a standard 125 pound 4" flange, slotted to accommodate 4" ANSI or 100mm ISO flanges. The suction side of the volute shall contain 16 points of attachment for accessories and additional configurations including attachment of a 4" ANSI or 100mm ISO flange.

The pump shaft shall be 416 stainless steel with a tapered impeller fit to reduce rotor imbalance and minimize stress risers associated with stepped shafts. All gaskets shall be of the angular gland compression O-ring type eliminating critical slip fits and the possibility of damage during service associated with sliding O-ring sealing arrangements. The impeller shall be a mono vane design with pump out vanes.

The chopping mechanism shall consist of a stationary striker plate and a rotating slicing blade. Both blades shall only be constructed of high quality, ASTM A276 440C stainless steel, heat treated to 53-60 HRC. The slicing blade shall be press-fitted on to the impeller and secured to the impeller by four stainless steel pins. The striker plate shall be fixed to the volute in eight locations. The striker plate shall be adjustable to maintain a clearance of 0.001" to 0.008" between the striker plate and slicing blade. The bladed impeller assembly shall be dynamically balanced to ISO G6.3 specifications. The striker plate shall be sealed internally against the volute with an O-ring. To upgrade from a submersible solids non clog pump into a chopper pump, the pump manufacturer shall be able to provide the bladed stationary plate, the rotating blade and all other necessary components.

The chopping mechanism shall consist of dual wear ring system. The slicing blade shall operate as a wear ring for the impeller along the outer diameter of the impeller assembly. The matching volute shall be provided with an external replaceable bronze wear ring at the inlet.

The tandem mechanical shaft seals shall be of the single spring design operating in an intermediate oil-filled seal cavity. Pump-out vanes on back side of the impeller shroud shall be large enough to efficiently expel solids away from the seal area. The materials of construction shall be silicon carbide vs. silicon carbide for the pump-end seal and carbon vs. ceramic for the motor-end seal, lapped and polished to a tolerance of one light band, 300 series stainless steel hardware, and Buna-N elastomeric parts. The pump-end seal shall be pinned in place to prevent rotation of the stationary seat and shall seal to the pump housing via an O-ring to maximize heat transfer. Cup mounted seats shall not be considered equal. The seal shall be commercially available and not a pump manufacturer's proprietary design. A moisture sensor detection system consisting of two probes shall be integrated within the oil-filled seal chamber which is isolated from the motor chamber. Units sensing moisture within the motor chamber are not acceptable. Moisture sensing devices utilizing one probe and grounding through the pump case or utilizing a float device are not acceptable.

The leads for the moisture detector and temperature sensors shall be contained within the power cable, except that for 1/0 cables, the sensor leads will be in a separate cable.

The pump motor shall be sized to be non-overloading throughout the entire system operating range. The rotor and stator assembly shall be of the standard frame design and the stator pressed into the motor housing for mechanical stability. The motor shall be constructed with the windings operating in a sealed environment containing clean dielectric oil. Manufacturer to supply submergence requirements for continuous operation.

Motors shall be dielectric oil filled for optimal thermal management and maximum bearing life. Air-filled motors with grease-filled bearings shall not be acceptable. The motor windings shall be of Class H, spike-resistant insulation. The motor shall meet the NEMA Design B standard and be Inverter Duty Rated per NEMA MG1, part 31.

The pump shaft shall be of 416 stainless steel, keyed and tapered for the matching impeller. The lower bearing shall be of the double row ball type, locked in position to accept radial and axial thrust loads, and the upper bearing of the single ball type for radial loads. Bearings shall operate in an oil bath environment for superior lubrication, cooling and life.

THREE PHASE: Three thermal sensors (one per phase) shall be embedded in the end coil of the stator windings, wired in series and used to monitor stator temperatures. This shall be used in conjunction with an external motor overload protection device and wired to the control panel through the single power cable.

The pump shall be equipped with (30/50/75/100) ft. of a CSA-qualified submersible quick connect power cable constructed in accordance with type W guidelines and shall include the moisture and temperature sensor leads. The pump shall have dual or tri voltage motors, that will provide the ability to change voltage by just changing the power cable. For 18 and 21 Frame pumps, the cable entry system shall consist of a voltage-selectable expanding elastomeric plug held in place by a cast stainless steel plate indicating voltage and max amps. For 28 Frame pumps, cord connection shall be a pump mounted plug and a rigid cord socket contained by a cast iron housing bolted to the motor with epoxy-potted cable connections and sealed by compressed O-rings.

PUMP TEST: The pump manufacturer shall perform a standard three point performance test at the minimum. If certified testing is required, the manufacturer shall offer to perform tests in accordance with Grades B, E and U of Hydraulic Institute standards. Additionally,

1. A check of the motor voltage and frequency shall be made as shown on the name plate.
2. A motor and cable insulation test for moisture content or insulation defects shall be made per CSA criteria.
3. A performance curve from the production line test showing head versus flow shall be included in the Installation and Operation Manual shipped with each pump.
4. A written report shall be available showing the aforementioned tests have been performed in accordance with the specifications.

START-UP: The pump(s) shall be tested at start-up by a qualified representative of the manufacturer. A start-up report as provided by the manufacturer shall be completed before final acceptance of the pump(s).

DOCUMENTATION: The manufacturer, if requested, will supply a minimum of _____ sets of standard submittal data; Standard submittal data consist of:

1. Pump catalog data;
2. Pump performance curve;
3. Break Away Fitting (BAF) data;
4. Access cover data;
5. Typical installation drawing;
6. Control panel data;
7. Panel wiring schematic;
8. Accessory data;
9. Installation & Operation Manuals with Parts List.

Typical Specifications

4SCD Submersible Chopper Pumps

BARNES®

www.craneplumps.com

SITHE Submersible Chopper Pumps

FILE: SPEC-4SCD.doc

SCOPE: Furnish and install _____ submersible chopper pump(s). Each pump shall be capable of delivering the following performance points, _____ U.S. GPM at _____ TDH; _____ U.S. GPM at _____ TDH; and _____ U.S. GPM at _____ TDH, with a shut off head of _____ TDH (minimum) and _____ % minimum efficiency at _____ U.S.GPM at _____ TDH (operating point). The pump motor shall be _____ RPM, _____ HP (maximum), _____ Phase, 60 Hertz, _____ Volts. The pump (s) shall be manufactured by a company regularly engaged in the manufacture and assembly of submersible units for a minimum of five (5) years. The pump (s) shall be SITHE by Barnes® Pumps model 4SCD_____.

PUMP DESIGN: Each pump shall be capable of handling raw, unscreened domestic sewage consisting of water, fibrous materials, and solids at heavy consistencies. The pump shall be able to chop/ macerate solids without clogging with chopped solid size not less than 1 inch, and the chopping mechanism shall be an integral part of the pump. The pump(s) shall be capable of handling liquids with temperatures to 104 degrees F continuous, 160 degrees F intermittent. Bearings shall be oil-lubricated and designed for 50,000 hours operating at minimum flow. Product shall be furnished with oil filled Inverter Duty Motors per NEMA MG-1, Part 31 with stator winding of the open type with Class H spike resistant magnet wire.

PUMP CONSTRUCTION: The volute, seal plate, adapter, motor housing and motor housing cap shall be constructed of high quality, ASTM A-48 Class 30 cast iron. Impeller shall be furnished in ASTM A-536 ductile iron (ASTM A-532 class III Type A White Iron for abrasive applications) with a keyed, tapered shaft bore. Pump(s) shall be coated with two coats of Axalta™ amido amine modified polymer satin gloss epoxy with a total 10 mil minimum thickness in the manufacturer's standard color. All exposed hardware shall be 300 series stainless steel including the lifting bail. Discharge connection shall be a standard 125 pound 4" flange, slotted to accommodate 4" ANSI or 100mm ISO flanges. The suction side of the volute shall contain 16 points of attachment for accessories and additional configurations including attachment of a 4" ANSI (100mm ISO) flanges or a 6" ANSI (150mm ISO) flanges.

The pump shaft shall be 416 stainless steel with a tapered impeller fit to reduce rotor imbalance and minimize stress risers associated with stepped shafts. All gaskets shall be of the angular gland compression O-ring type eliminating critical slip fits and the possibility of damage during service associated with sliding O-ring sealing arrangements. The impeller shall be a dual vane design with pump out vanes on back side.

The chopping mechanism shall consist of a stationary striker plate and a rotating slicing blade. Both blades shall only be constructed of high quality, ASTM A276 440C stainless steel, heat treated to 53-60 HRC. The slicing blade shall be press-fitted on to the impeller and secured to the impeller by four stainless steel pins. The striker plate shall be fixed to the volute in eight locations. The striker plate shall be adjustable to maintain a clearance of 0.001" to 0.008" between the striker plate and slicing blade. The bladed impeller assembly shall be dynamically balanced to ISO G6.3 specifications. The striker plate shall be sealed internally against the volute with an O-ring. To upgrade from a submersible solids non clog pump into a chopper pump, the pump manufacturer shall be able to provide the bladed stationary plate, the rotating blade and all other necessary components.

The chopping mechanism shall consist of dual wear ring system. The slicing blade shall operate as a wear ring for the impeller along the outer diameter of the impeller assembly. The matching volute shall be provided with an external replaceable bronze wear ring at the inlet.

The tandem mechanical shaft seals shall be of the single spring design operating in an intermediate oil-filled seal cavity. Pump-out vanes on back side of the impeller shroud shall be large enough to efficiently expel solids away from the seal area. The materials of construction shall be silicon carbide vs. silicon carbide for the pump-end seal and carbon vs. ceramic for the motor-end seal, lapped and polished to a tolerance of one light band, 300 series stainless steel hardware, and Buna-N elastomeric parts. The pump-end seal shall be pinned in place to prevent rotation of the stationary seat and shall seal to the pump housing via an O-ring to maximize heat transfer. Cup mounted seats shall not be considered equal. The seal shall be commercially available and not a pump manufacturer's proprietary design. A moisture sensor detection system consisting of two probes shall be integrated within the oil-filled seal chamber which is isolated from the motor chamber. Units sensing moisture within the motor chamber are not acceptable. Moisture sensing devices utilizing one probe and grounding through the pump case or utilizing a float device are not acceptable.

The leads for the moisture detector and temperature sensors shall be contained within the power cable, except that for 1/0 cables, the sensor leads will be in a separate cable.

The pump motor shall be sized to be non-overloading throughout the entire system operating range. The rotor and stator assembly shall be of the standard frame design and the stator pressed into the motor housing for mechanical stability. The motor shall be constructed with the windings operating in a sealed environment containing clean dielectric oil. Manufacturer to supply submergence requirements for continuous operation.

Motors shall be dielectric oil filled for optimal thermal management and maximum bearing life. Air-filled motors with grease-filled bearings shall not be acceptable. The motor windings shall be of Class H, spike-resistant insulation. The motor shall meet the NEMA Design B standard and be Inverter Duty Rated per NEMA MG-1, part 31.

The pump shaft shall be of 416 stainless steel, keyed and tapered for the matching impeller. The lower bearing shall be of the double row ball type, locked in position to accept radial and axial thrust loads, and the upper bearing of the single ball type for radial loads. Bearings shall operate in an oil bath environment for superior lubrication, cooling and life.

THREE PHASE: Three thermal sensors (one per phase) shall be embedded in the end coil of the stator windings, wired in series and used to monitor stator temperatures. This shall be used in conjunction with an external motor overload protection device and wired to the control panel through the single power cable.

The pump shall be equipped with (30/50/75/100) ft. of a CSA-qualified submersible quick connect power cable constructed in accordance with type W guidelines and shall include the moisture and temperature sensor leads. The pump shall have dual or tri voltage motors, that will provide the ability to change voltage by just changing the power cable. For 18 and 21 Frame pumps, the cable entry system shall consist of a voltage-selectable expanding elastomeric plug held in place by a cast stainless steel plate indicating voltage and max amps. For 28 and 32 Frame pumps, cord connection shall be a pump mounted plug and a rigid cord socket contained by a cast iron housing bolted to the motor with epoxy-potted cable connections and sealed by compressed O-rings.

PUMP TEST: The pump manufacturer shall perform a standard three point performance test at the minimum. If certified testing is required, the manufacturer shall offer to perform tests in accordance with Grades B, E and U of Hydraulic Institute standards. Additionally,

1. A check of the motor voltage and frequency shall be made as shown on the name plate.
2. A motor and cable insulation test for moisture content or insulation defects shall be made per CSA criteria.
3. A performance curve from the production line test showing head versus flow shall be included in the Installation and Operation Manual shipped with each pump.
4. A written report shall be available showing the aforementioned tests have been performed in accordance with the specifications.

START-UP: The pump(s) shall be tested at start-up by a qualified representative of the manufacturer. A start-up report as provided by the manufacturer shall be completed before final acceptance of the pump(s).

DOCUMENTATION: The manufacturer, if requested, will supply a minimum of _____ sets of standard submittal data; Standard submittal data consist of:

1. Pump catalog data;
2. Pump performance curve;
3. Break Away Fitting (BAF) data;
4. Access cover data;
5. Typical installation drawing;
6. Control panel data;
7. Panel wiring schematic;
8. Accessory data;
9. Installation & Operation Manuals with Parts List.

SECTION 0.2C
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CRANE®

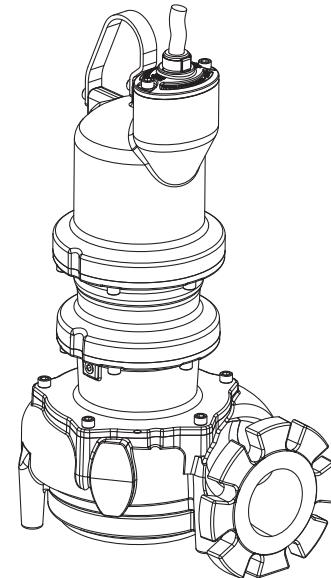
A Crane Co. Company

PUMPS & SYSTEMS

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Specifications:

DISCHARGE	4", 125 lb. Horizontal Flange Slotted to accommodate 100mm ISO Flanges
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
STRIKER PLATE .....	.440C Stainless Steel Heat Treated to 53-60 HRC Hole Pattern to Accommodate 4" 125 # Flange
WEAR RING.....	C954 Lead-Free Bronze
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER:	
Design	Enclosed Monovane, With Pump Out Vanес on Back Side. Dynamically Balanced ISO G6.3
Material	Ductile Iron ASTM A-536, 65-45-12
SLICING BLADE .....	.440C Stainless Steel Heat Treated to 53-60 HRC
SHAFT .....	.416 Stainless Steel
"O" RINGS	Buna-N
HARDWARE .....	.300 Series Stainless Steel
LIFTING BAIL .....	.300 Series Stainless Steel
PAINT	Axalta™ Corilar® Epoxy, Two Coats
SEAL: Design	Tandem Mechanical, Oil Filled Reservoir.
Material: Inboard.....	Rotating Faces - Carbon Stationary Faces - Ceramic
Material: Outboard.....	Rotating Faces - Silicon Carbide Stationary Faces - Silicon Carbide Elastomer - Buna-N Hardware - .300 Series Stainless
CORD ENTRY	Custom Molded, Quick Connected for Sealing and Strain Relief
POWER CORD	CSA Certified Submersible Power Cable 2000V - Ordered Separately
SPEED	1750 or 1150 RPM
UPPER BEARING:	
Design	Single Row, Ball, Oil Lubricated
Load	Radial
LOWER BEARING:	
Design	Double Row, Ball, Oil Lubricated
Load.....	Radial & Thrust
MOTOR: Design	NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
Insulation	Class H Varnish & Magnet Wire
THREE PHASE	Requires overload protection to be included in control panel.
MOISTURE SENSOR	Normally Open (N/O), Requires Relay in Control Panel
TEMPERATURE SENSOR	Three Normally Closed (N/C). To be wired in series with control circuit.
OPTIONAL EQUIPMENT.....	White Iron Impeller, Seal Material, Impeller Trims, Cord Length
MARKINGS	CSA
WEIGHT (MAX).....	288 lbs (130.5 Kg)
NOISE EMISSION MAX.....	In-Air 73 dB-A
SUBMERGENCE	Max Depth 66ft (20m)
RECOMMENDED:	
Accessories.....	Break Away Fitting (BAF) Check Valve Control Panel Moisture/Temp. Sensor Relay (Pump Monitor Relay) Leg Kit



SITHE

Series: 4SCM
3 - 10HP, 1750RPM, 60Hz

Sample Specifications: Section 0.2C Page E.

This product may be covered by one or more of the following patents and other patent(s) pending: US Patent 7,931,473, NZ DSN NO. 424412, NZ DSN NO. 424413, AUS DSN NO. 201812608, AUS DSN NO. 201812609, EU Design Reg. 005293040-0001

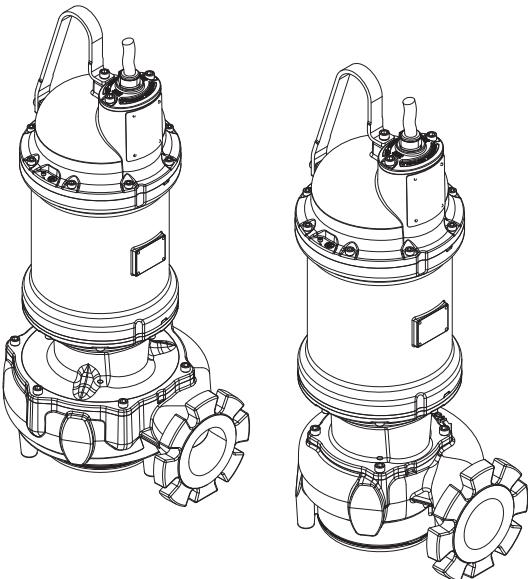
DESCRIPTION:

SUBMERSIBLE CHOPPER PUMP
DESIGNED FOR RAW SEWAGE
APPLICATIONS.



WARNING:
CANCER AND REPRODUCTIVE HARM -
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SITHE Submersible Chopper Pumps



Specifications:

DISCHARGE	4", 125 lb. Horizontal Flange Slotted to accommodate 100mm ISO Flanges
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
STRIKER PLATE	440C Stainless Steel Heat Treated to 53-60 HRC Hole Pattern to Accommodate 4" 125 # Flange
WEAR RING	C954 Lead-Free Bronze
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER:	
<i>Design</i>	Enclosed Monovane, With Pump Out Vanes on Back Side. Dynamically Balanced ISO G6.3
<i>Material</i>	Ductile Iron ASTM A-536, 65-45-12
SLICING BLADE	440C Stainless Steel Heat Treated to 53-60 HRC
SHAFT	416 Stainless Steel
"O" RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
LIFTING BAIL	300 Series Stainless Steel
PAINT	Axalta™ Corlar® Epoxy, Two Coats
SEAL:	<i>Design</i>.....Tandem Mechanical, Oil Filled Reservoir. <i>Material: Inboard</i>.....Rotating Faces - Carbon Stationary Faces - Ceramic <i>Material: Outboard</i>.....Rotating Faces - Silicon Carbide Stationary Faces - Silicon Carbide Elastomer - Buna-N Hardware - 300 Series Stainless
CORD ENTRY	Custom Molded, Quick Connected for Sealing and Strain Relief
POWER CORD	CSA Certified Submersible Power Cable 2000V - Ordered Separately
SPEED	1750 or 1150 RPM
UPPER BEARING:	<i>Design</i>.....Single Row, Ball, Oil Lubricated <i>Load</i>.....Radial
LOWER BEARING:	<i>Design</i>.....Double Row, Ball, Oil Lubricated <i>Load</i>.....Radial & Thrust
MOTOR: <i>Design</i>	NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
Insulation	Class H Varnish & Magnet Wire
THREE PHASE	Requires overload protection to be included in control panel.
MOISTURE SENSOR	Normally Open (N/O). Requires Relay in Control Panel
TEMPERATURE SENSOR	Three Normally Closed (N/C). To be wired in series with control circuit.
OPTIONAL EQUIPMENT	White Iron Impeller, Seal Material, Impeller Trims, Cord Length
MARKINGS	CSA
WEIGHT (MAX)	500 lbs (227 Kg)
NOISE EMISSION MAX	In-Air 73 dB-A
SUBMERGENCE	Max Depth 66ft (20m)

RECOMMENDED:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel Moisture/Temp. Sensor Relay (Pump Monitor Relay) Leg Kit
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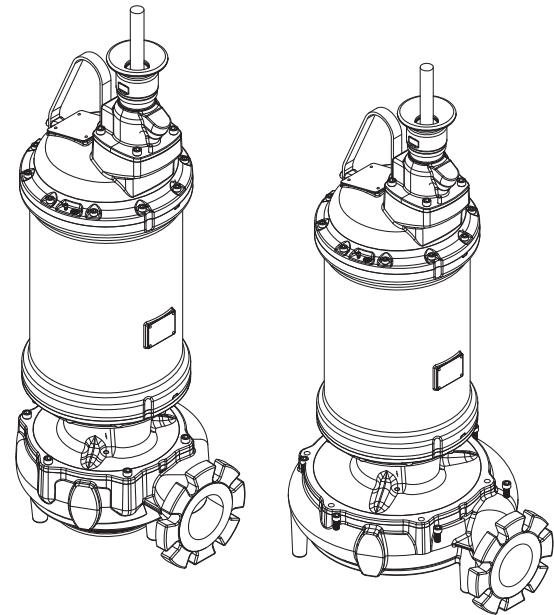
**WARNING:**

CANCER AND REPRODUCTIVE HARM -
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Specifications:

DISCHARGE	4", 125 lb. Horizontal Flange Slotted to accommodate 100mm ISO Flanges
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
STRIKER PLATE .....	.440C Stainless Steel Heat Treated to 53-60 HRC Hole Pattern to Accommodate 4" 125 # Flange
WEAR RING.....	C954 Lead-Free Bronze
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Ductile Iron ASTM A-536, 65-45-12
IMPELLER:	
Design	Enclosed Monovane, With Pump Out Vanes on Back Side. Dynamically Balanced ISO G6.3
Material	Ductile Iron ASTM A-536, 65-45-12
SLICING BLADE .....	.440C Stainless Steel Heat Treated to 53-60 HRC
SHAFT .....	.416 Stainless Steel
"O" RINGS	Buna-N
HARDWARE .....	.300 Series Stainless Steel
LIFTING BAIL .....	.300 Series Stainless Steel
PAINT	Axalta™ Corilar® Epoxy, Two Coats
SEAL: Design	Tandem Mechanical, Oil Filled Reservoir.
Material: Inboard.....	Rotating Faces - Carbon Stationary Faces - Ceramic
Material: Outboard.....	Rotating Faces - Silicon Carbide Stationary Faces - Silicon Carbide Elastomer - Buna-N Hardware - .300 Series Stainless
CORD ENTRY	Rigid quick change epoxy-potted housing
POWER CORD	CSA Certified Submersible Power Cable 2000V - Ordered Separately
SPEED	1750 or 1150 RPM
UPPER BEARING:	
Design	Single Row, Ball, Oil Lubricated
Load	Radial
LOWER BEARING:	
Design	Double Row, Ball, Oil Lubricated
Load.....	Radial & Thrust
MOTOR: Design	NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
Insulation	Class H Varnish & Magnet Wire
THREE PHASE	Requires overload protection to be included in control panel.
MOISTURE SENSOR	Normally Open (N/O), Requires Relay in Control Panel
TEMPERATURE SENSOR	Three Normally Closed (N/C). To be wired in series with control circuit.
OPTIONAL EQUIPMENT.....	White Iron Impeller, Seal Material, Impeller Trims, Cord Length
MARKINGS	CSA
WEIGHT (MAX).....	881 lbs (400 Kg)
SUBMERGENCE	Max Depth 66ft (20m)
RECOMMENDED:	
Accessories	Break Away Fitting (BAF) Check Valve Control Panel Moisture/Temp. Sensor Relay (Pump Monitor Relay) Leg Kit



SITHE

Series: 4SCM
20 - 50HP, 1750RPM, 60Hz
20 - 25HP, 1150RPM, 60Hz

Sample Specifications: Section 0.2C Page E.

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

DESCRIPTION:

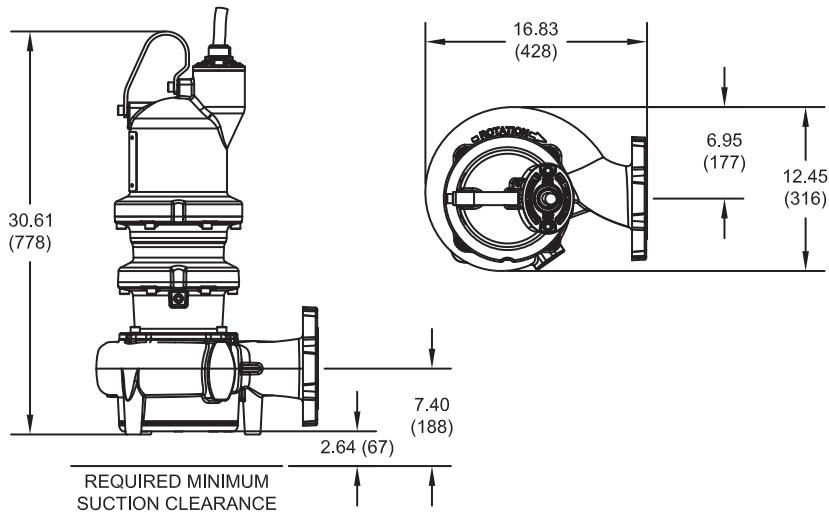
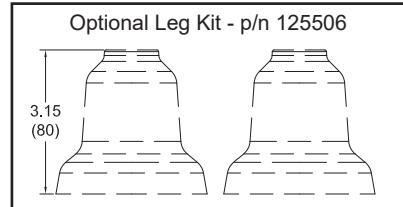
SUBMERSIBLE CHOPPER PUMP
DESIGNED FOR RAW SEWAGE
APPLICATIONS.



WARNING:
CANCER AND REPRODUCTIVE HARM -
WWW.P65WARNINGS.CA.GOV

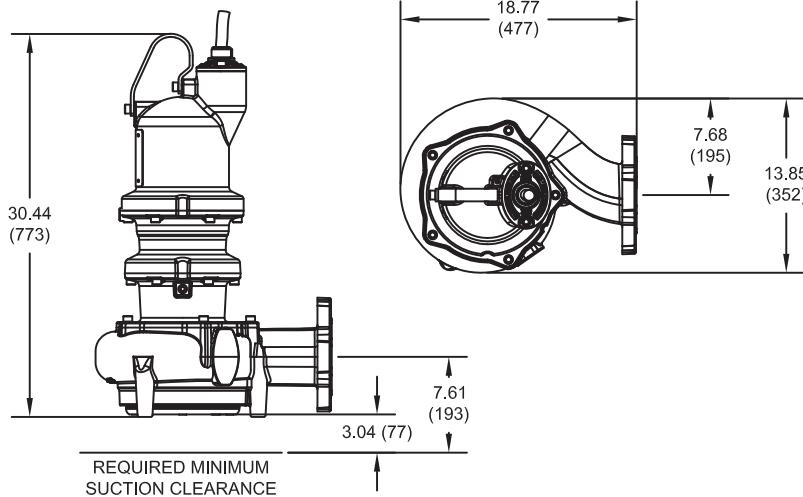


SITHE Submersible Chopper Pumps

18 Frame Driver

 inches
(mm)

IMPORTANT !

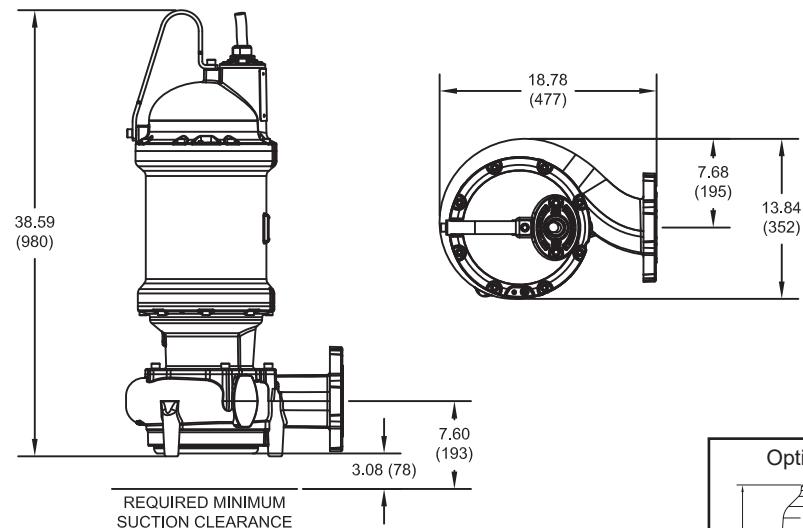
- 1.) MOISTURE AND TEMPERATURE SENSORS MUST BE CONNECTED TO VALIDATE THE CSA LISTING.
- 2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT BARNES PUMPS FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
- 3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS.**
- 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.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION 1 HAZARDOUS LOCATIONS.

18 Frame Driver

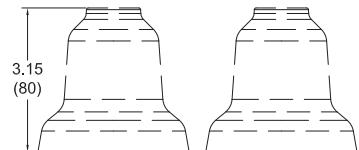


inches
(mm)

21 Frame Driver

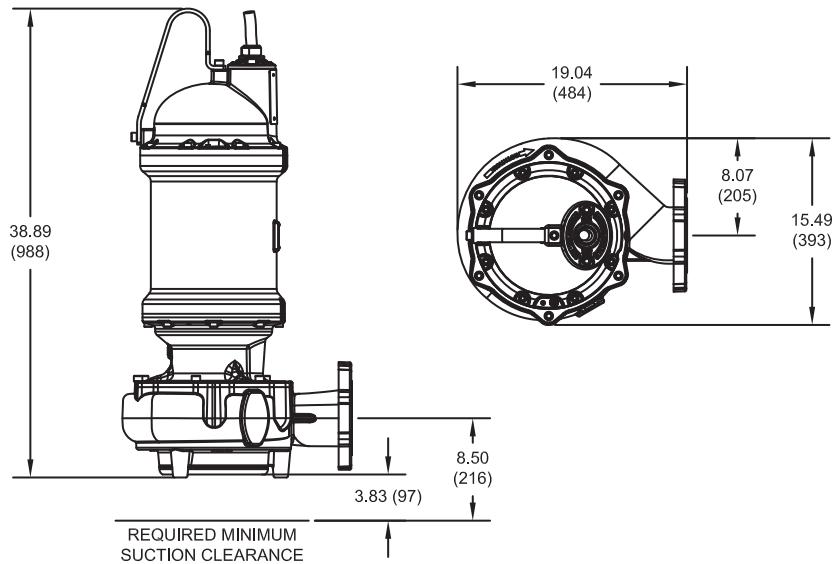
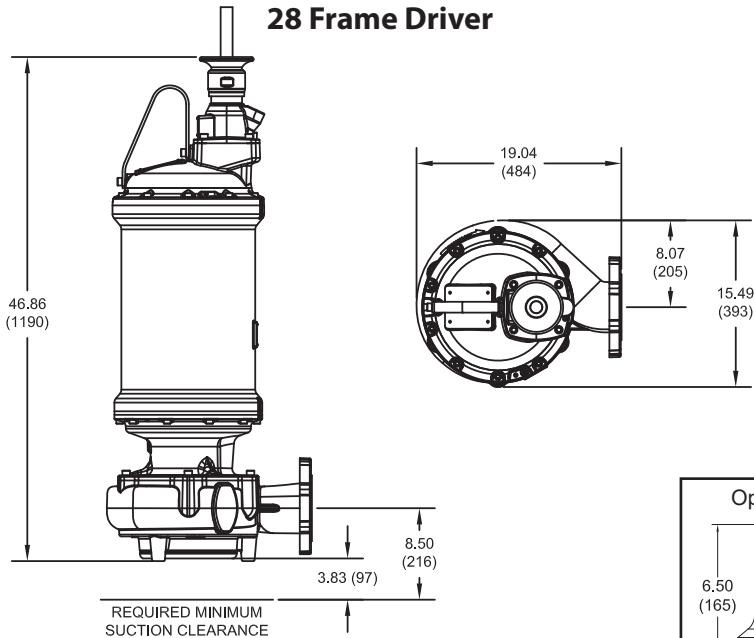


Optional Leg Kit - p/n 125506



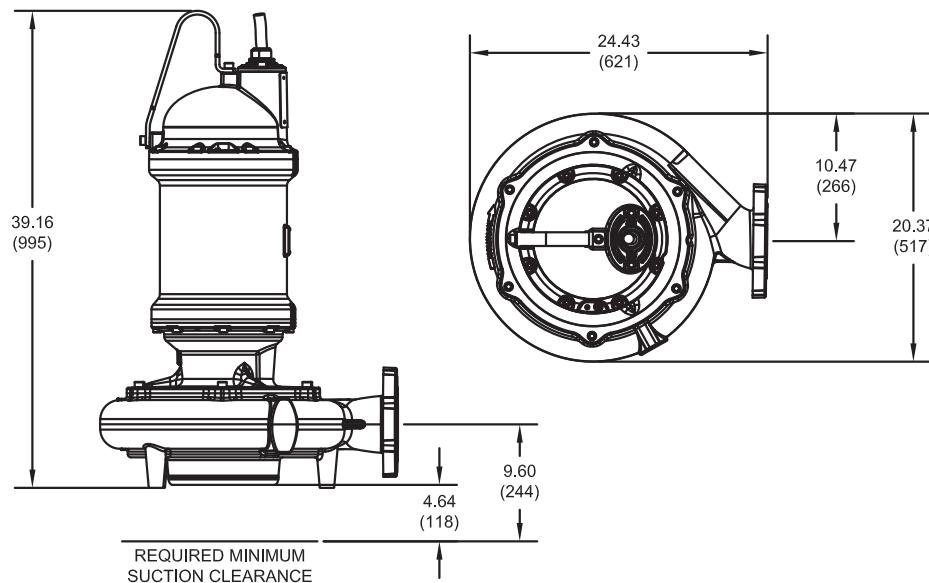
IMPORTANT !

- 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 BARNES PUMPS 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.**
- 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.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION 1 HAZARDOUS LOCATIONS.

SITHE Submersible Chopper Pumps
21 Frame Driverinches
(mm)**28 Frame Driver****IMPORTANT !**

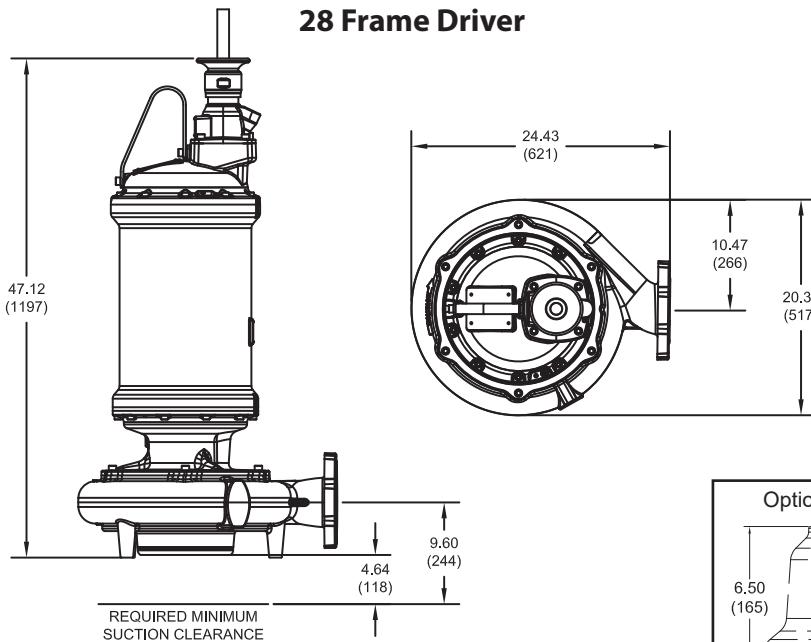
- 1.) MOISTURE AND TEMPERATURE SENSORS MUST BE CONNECTED TO VALIDATE THE CSA LISTING.
- 2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT BARNES PUMPS FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
- 3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS.**
- 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.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION 1 HAZARDOUS LOCATIONS.

21 Frame Driver

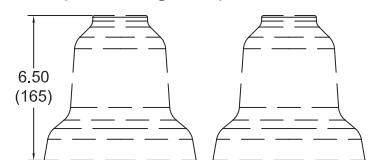


inches
(mm)

28 Frame Driver



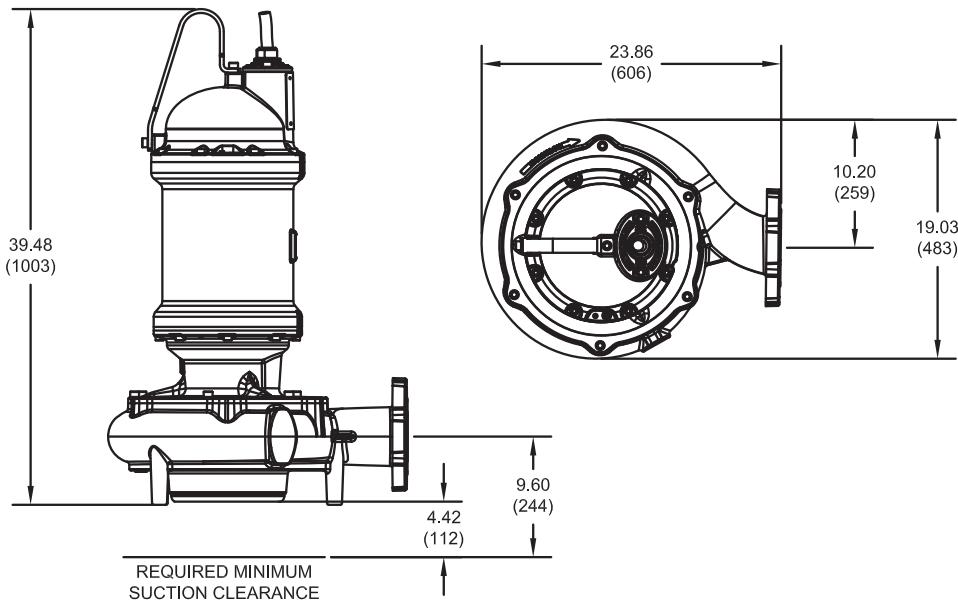
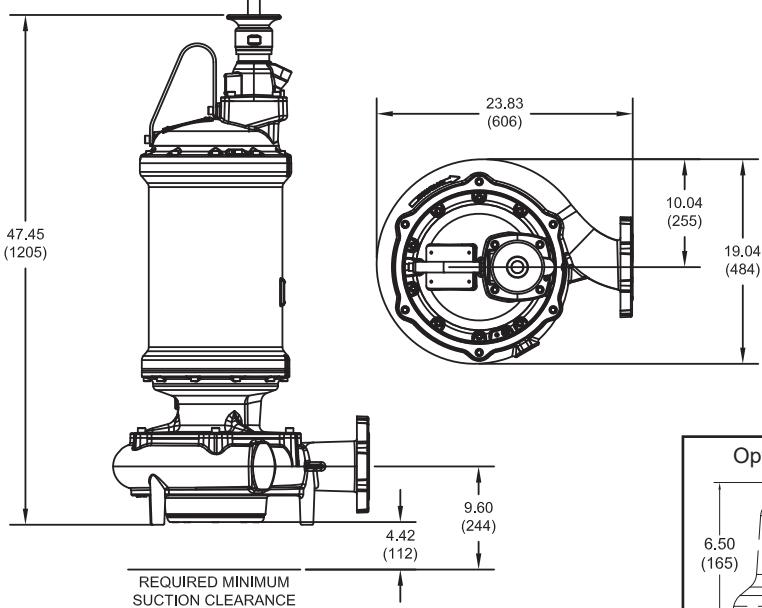
Optional Leg Kit - p/n 125506B



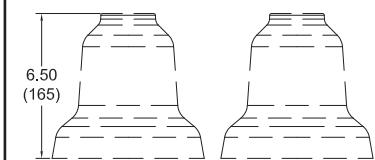
IMPORTANT !

- 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 BARNES PUMPS 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.**
- 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.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION 1 HAZARDOUS LOCATIONS.

SITHE Submersible Chopper Pumps

21 Frame Driver

28 Frame Driver


Optional Leg Kit - p/n 125506B

**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 BARNES PUMPS 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.**
- 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.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION 1 HAZARDOUS LOCATIONS.

	MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
4SCMS30N4	208	3	60	1750	K	9.7	1.2	11.4	58.2 / 65.8	18	125496	12/4 - 18/4	
	230	3	60	1750		9.2	1.2	10.6			125496	12/4 - 18/4	
	460					4.6	1.2	5.3	32.9		125497	12/4 - 18/4	
4SCMS3054	3.0	575	3	60	1750	N	4.5	1.2	4.9	37	18	125497	12/4 - 18/4
	208	3	60	1750		15.8	1.2	18.7	82.4 / 92.4		125496	12/4 - 18/4	
	230	3	60	1750	J	15	1.2	17.2		18	125496	12/4 - 18/4	
4SCMS50N4	5.0	575	3	60	1750	J	7.5	1.2	8.6	46.2		125497	12/4 - 18/4
	208	3	60	1750		6	1.2	6.9	37	18	125497	12/4 - 18/4	
	230	3	60	1750	H	23.8	1.2	28.5	105.9 / 123.6		125496	12/4 - 18/4	
4SCMS75N4	7.5	575	3	60	1750	H	23.7	1.2	27.2		18	125496	12/4 - 18/4
	208	3	60	1750		11.9	1.2	13.6	61.8		125497	12/4 - 18/4	
	230	3	60	1750	H	9.5	1.2	10.9	49.4	18	125497	12/4 - 18/4	
4SCMS7554	7.5	575	3	60	1750	H							
	460												

IMPORTANT!

Moisture and Temperature sensor leads are integral to power cord.

Pump rated for operation at $\pm 10\%$ voltage at motor.

▲ Cord Suffix: XC - 30 Feet, XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.

▲ Cord sold separately.

SITHE *Submersible Chopper Pumps*

MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
4SCMC50N4	5.0	208	3	60	1750	J	15.8	1.2	18.7	82.4/92.4	18	12/4 - 18/4
		230					15	1.2	17.2			12/4 - 18/4
		460					7.5	1.2	8.6	46.2		12/4 - 18/4
4SCMC5054	5.0	575	3	60	1750	J	6	1.2	6.9	37	18	12/4 - 18/4
4SCMC75N4	7.5	208	3	60	1750	H	23.8	1.2	28.5	105.9 / 123.6	18	12/4 - 18/4
		230					23.7	1.2	27.2			12/4 - 18/4
		460					11.9	1.2	13.6	61.8		12/4 - 18/4
4SCMC7554	7.5	575	3	60	1750	H	9.5	1.2	10.9	49.4	18	12/4 - 18/4
4SCMC100N4	10.0	208	3	60	1750	E	32.2	1.2	41.4	105.9 / 123.6	18	12/4 - 18/4
		230					29.8	1.2	35.6			12/4 - 18/4
		460					14.9	1.2	17.8	61.8		12/4 - 18/4
4SCMC10054	10.0	575	3	60	1750	E	11.9	1.2	14.2	49.4	18	12/4 - 18/4
4SCMC150N4	15.0	208	3	60	1750	E	51.8	1.2	59.0	206.6	21	12/4 - 18/4
		230					46.9	1.2	54.3			12/4 - 18/4
		460					23.4	1.2	27.2	103.3		12/4 - 18/4
4SCMC15054	15.0	575	3	60	1750	E	18.7	1.2	21.7	82.6	21	12/4 - 18/4

IMPORTANT!

Moisture and Temperature sensor leads are integral to power cord.

Pump rated for operation at $\pm 10\%$ voltage at motor.

▲ Cord Suffix: XC - 30 Feet, XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.

▲ Cord sold separately.

	MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
	4SCMD150N4	15.0	208	3	60	1750	E	51.8	1.2	59.0	206.6	21	1254998 8/4 - 18/4
	4SCMD150N4	15.0	230	3	60	1750	E	46.9	1.2	54.3	21	1254998 8/4 - 18/4	
	4SCMD150N4	15.0	460					23.4	1.2	27.2	103.3		1254997 12/4 - 18/4
	4SCMD150P4	15.0	575	3	60	1750	E	18.7	1.2	21.7	82.6	21	1254997 12/4 - 18/4
	4SCMD200N4	20.0	208	3	60	1750	G	63.0	1.2	74.6	323.0	28	138318 6/4 - 18/4
	4SCMD200N4	20.0	230	3	60	1750	J	53.7	1.2	59.0	383.9	21	1254998 8/4 - 18/4
	4SCMD200N4	20.0	460					26.9	1.2	29.9			1254997 12/4 - 18/4
	4SCMD200P4	20.0	575	3	60	1750	J	21.5	1.2	23.9	153.5	21	1254997 12/4 - 18/4
	4SCMD250N4	25.0	208	3	60	1750	G	77.8	1.2	93.4	359.0	28	138319 2/4 - 18/4
	4SCMD250N4	25.0	230	3	60	1750	G	71.4	1.2	82.3			125499 8/4 - 18/4
	4SCMD250N4	25.0	460					33.2	1.2	38.9	191.9	21	125499 8/4 - 18/4
	4SCMD250P4	25.0	575	3	60	1750	G	26.6	1.2	31.1	153.5	21	1254997 12/4 - 18/4
	4SCMD300N4	30.0	208	3	60	1750	E	93.4	1.2	116.9	359.0	28	138319 2/4 - 18/4
	4SCMD300N4	30.0	230	3	60	1750	E	82.3	1.2	98.7			125499 8/4 - 18/4
	4SCMD300N4	30.0	460					38.9	1.2	45.9	191.9	21	125499 8/4 - 18/4
	4SCMD300P4	30.0	575	3	60	1750	F	31.1	1.2	36.7	153.5	21	125499 8/4 - 18/4
	4SCMD400N4	40.0	208	3	60	1750	E	106.0	1.2	126.4	486.0	28	138319 2/4 - 18/4
	4SCMD400N4	40.0	230	3	60	1750	E	53.0	1.2	63.2	243.0	28	138318 6/4 - 18/4
	4SCMD400N4	40.0	460					42.4	1.2	50.6	194.4	28	138317 8/4 - 18/4
	4SCMD400P4	40.0	575	3	60	1750	E						
	4SCMD400P4	40.0	575	3	60	1750	E						
	4SCMD75N6	7.5	208	3	60	1150	J	24.9	1.2	29.6	137.6	21	1254996 12/4 - 18/4
	4SCMD75N6	7.5	230	3	60	1150	J	24.0	1.2	27.6			1254997 12/4 - 18/4
	4SCMD75N6	7.5	460					12.0	1.2	13.8	68.8		
	4SCMD75N6	7.5	575	3	60	1150	J	9.6	1.2	11.0	55.0	21	1254997 12/4 - 18/4
	4SCMD100N6	10.0	208	3	60	1150	F	32.9	1.2	41.0	137.6	21	1254998 8/4 - 18/4
	4SCMD100N6	10.0	230	3	60	1150	F	30.2	1.2	35.8			1254997 12/4 - 18/4
	4SCMD100N6	10.0	460					15.1	1.2	17.9	68.8		1254997 12/4 - 18/4
	4SCMD100P6	10.0	575	3	60	1150	F	12.1	1.2	14.3	55.0	21	1254997 12/4 - 18/4
	4SCMD150N6	15.0	208	3	60	1150	H	47.0	1.2	56.8	248.6	21	1254998 8/4 - 18/4
	4SCMD150N6	15.0	230	3	60	1150	H	44.1	1.2	51.4			1254997 12/4 - 18/4
	4SCMD150N6	15.0	460					22.0	1.2	25.7	124.3		
	4SCMD150P6	15.0	575	3	60	1150	H	17.6	1.2	20.6	99.4	21	1254997 12/4 - 18/4

SITHE SCMD Pump

IMPORTANT!

Moisture and Temperature sensor leads are integral to power cord.

Pump rated for operation at ± 10% voltage at motor.

▲ Cord Suffix: XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.

▲ Cord sold separately.

SITHE Submersible Chopper Pumps

MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
4SCMB150N4	15.0	208	3	60	1750	F	51.8	1.2	59.0	206.6/103.3	21	125498 8/4 - 18/4
		230					46.9	1.2	54.3			8/4 - 18/4
		460					23.4	1.2	27.2			125497 12/4 - 18/4
4SCMB150S4	15.0	57.5	3	60	1750	E	18.7	1.2	21.7	82.6	21	125497 12/4 - 18/4
4SCMB200S4	20.0	208	3	60	1750	G	63.0	1.2	74.6	323.0	28	138318 6/4 - 18/4
4SCMB20084	20.0	230	3	60	1750	J	53.7	1.2	59	383.8/191.9	21	125498 8/4 - 18/4
4SCMB20054	20.0	460	3	60	1750	J	26.9	1.2	29.9			125497 12/4 - 18/4
4SCMB25094	25.0	208	3	60	1750	G	71.4	1.2	82.3	359.0	28	138319 2/4 - 18/4
4SCMB25044	25.0	460	3	60	1750	G	33.2	1.2	38.9	191.9	21	125499 8/4 - 18/4
4SCMB25054	25.0	57.5	3	60	1750	G	26.6	1.2	31.1	153.5	21	125497 12/4 - 18/4
4SCMB30094	30.0	208	3	60	1750	E	93.4	1.2	116.9	359.0	28	138319 2/4 - 18/4
4SCMB30044	30.0	460	3	60	1750	F	82.3	1.2	98.7			125499 8/4 - 18/4
4SCMB30054	30.0	57.5	3	60	1750	F	31.1	1.2	45.9	191.9	21	125499 8/4 - 18/4
4SCMB40034	40.0	230	3	60	1750	E	106.0	1.2	126.4	486.0	28	138319 2/4 - 18/4
4SCMB40044	40.0	460	3	60	1750	E	53.0	1.2	63.2	243.0	28	138318 6/4 - 18/4
4SCMB40054	40.0	57.5	3	60	1750	E	42.4	1.2	50.6	194.4	28	138318 6/4 - 18/4

IMPORTANT!

Moisture and Temperature sensor leads are integral to power cord.

Pump rated for operation at $\pm 10\%$ voltage at motor.

▲ Cord Suffix: XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.

▲ Cord sold separately.

	MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
	4SCME30094	30.0	208	3	60	1750	E	93.4	1.2	116.9	359.0	28	138319
	4SCME30094	30.0	230	3	60	1750	F	82.3	1.2	98.7	191.9	21	125499
	4SCME30054	30.0	460	3	60	1750	F	38.9	1.2	45.9	153.5	21	125499
	4SCME30054	30.0	575	3	60	1750	F	31.1	1.2	36.7	126.4	28	138319
	4SCME40034	40.0	230	3	60	1750	E	106.0	1.2	486.0	243.0	28	138318
	4SCME40044	40.0	460	3	60	1750	E	53.0	1.2	63.2	194.4	28	138317
	4SCME40054	40.0	575	3	60	1750	E	42.4	1.2	50.6	79.0	28	138318
	4SCME50044	50.0	460	3	60	1750	F	67.1	1.2	339.0	271.2	28	138318
	4SCME50054	50.0	575	3	60	1750	F	53.7	1.2	63.2	248.6	21	125498
	4SCME150N6	15.0	208	3	60	1150	H	47.0	1.2	56.8	124.3	21	125497
	4SCME150N6	15.0	230	3	60	1150	H	44.1	1.2	51.4	22.0	21	125497
	4SCME15056	15.0	460	3	60	1150	H	17.6	1.2	20.6	99.4	28	138318
	4SCME20096	20.0	208	3	60	1150	H	60.3	1.2	71.5	354.0	21	125499
	4SCME20096	20.0	230	3	60	1150	H	57.2	1.2	69.8	124.3	21	125497
	4SCME20046	20.0	460	3	60	1150	E	28.6	1.2	34.9	99.4	21	138319
	4SCME20056	20.0	575	3	60	1150	E	22.9	1.2	27.9	141.6	28	138317
	4SCMEA100N6	10.0	208	3	60	1150	F	30.2	1.2	35.8	41.0	21	125498
	4SCMEA100N6	10.0	230	3	60	1150	F	15.1	1.2	17.9	124.3	21	125497
	4SCMEA10056	10.0	460	3	60	1150	F	12.1	1.2	14.3	55.0	21	125497
	4SCMEA150N6	15.0	208	3	60	1150	H	44.1	1.2	51.4	248.6	21	125498
	4SCMEA150N6	15.0	230	3	60	1150	H	22.0	1.2	25.7	124.3	21	125497
	4SCMEA15056	15.0	460	3	60	1150	H	17.6	1.2	20.6	99.4	21	125497
	4SCMEA20096	20.0	208	3	60	1150	H	60.3	1.2	71.5	354.0	28	138318
	4SCMEA20096	20.0	230	3	60	1150	H	57.2	1.2	69.8	124.3	21	125499
	4SCMEA20046	20.0	460	3	60	1150	E	28.6	1.2	34.9	99.4	21	125497
	4SCMEA20056	20.0	575	3	60	1150	E	22.9	1.2	27.9	141.6	28	138319
	4SCMEA25096	25.0	208	3	60	1150	G	75.2	1.2	90.8	354.0	28	138317
	4SCMEA25096	25.0	230	3	60	1150	G	70.8	1.2	82.6	177.0	28	138318
	4SCMEA25046	25.0	460	3	60	1150	G	35.4	1.2	41.3	138317	28	138317
	4SCMEA25056	25.0	575	3	60	1150	G	28.3	1.2	33.0	141.6	28	138317

SITHE SCME Pump

		MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
		4SCMEA100N6	10.0	208	3	60	1150	F	32.9	1.2	41.0	137.6	21	125498
		4SCMEA100N6	10.0	230	3	60	1150	F	30.2	1.2	35.8	17.9	21	125497
		4SCMEA10056	10.0	460	3	60	1150	F	15.1	1.2	17.8	55.0	21	125497
		4SCMEA150N6	15.0	208	3	60	1150	H	47.0	1.2	56.8	248.6	21	125498
		4SCMEA150N6	15.0	230	3	60	1150	H	44.1	1.2	51.4	22.0	21	125497
		4SCMEA15056	15.0	460	3	60	1150	H	17.6	1.2	20.6	71.5	21	125497
		4SCMEA20096	20.0	208	3	60	1150	H	60.3	1.2	71.5	354.0	28	138318
		4SCMEA20096	20.0	230	3	60	1150	H	57.2	1.2	69.8	124.3	21	125499
		4SCMEA20046	20.0	460	3	60	1150	E	28.6	1.2	34.9	99.4	21	125497
		4SCMEA20056	20.0	575	3	60	1150	E	22.9	1.2	27.9	141.6	28	138319
		4SCMEA25096	25.0	208	3	60	1150	G	75.2	1.2	90.8	354.0	28	138317
		4SCMEA25096	25.0	230	3	60	1150	G	70.8	1.2	82.6	177.0	28	138318
		4SCMEA25046	25.0	460	3	60	1150	G	35.4	1.2	41.3	138317	28	138317
		4SCMEA25056	25.0	575	3	60	1150	G	28.3	1.2	33.0	141.6	28	138317

SITHE SCMA Pump

IMPORTANT!

Moisture and Temperature sensor leads are integral to power cord.

Pump rated for operation at $\pm 10\%$ voltage at motor.

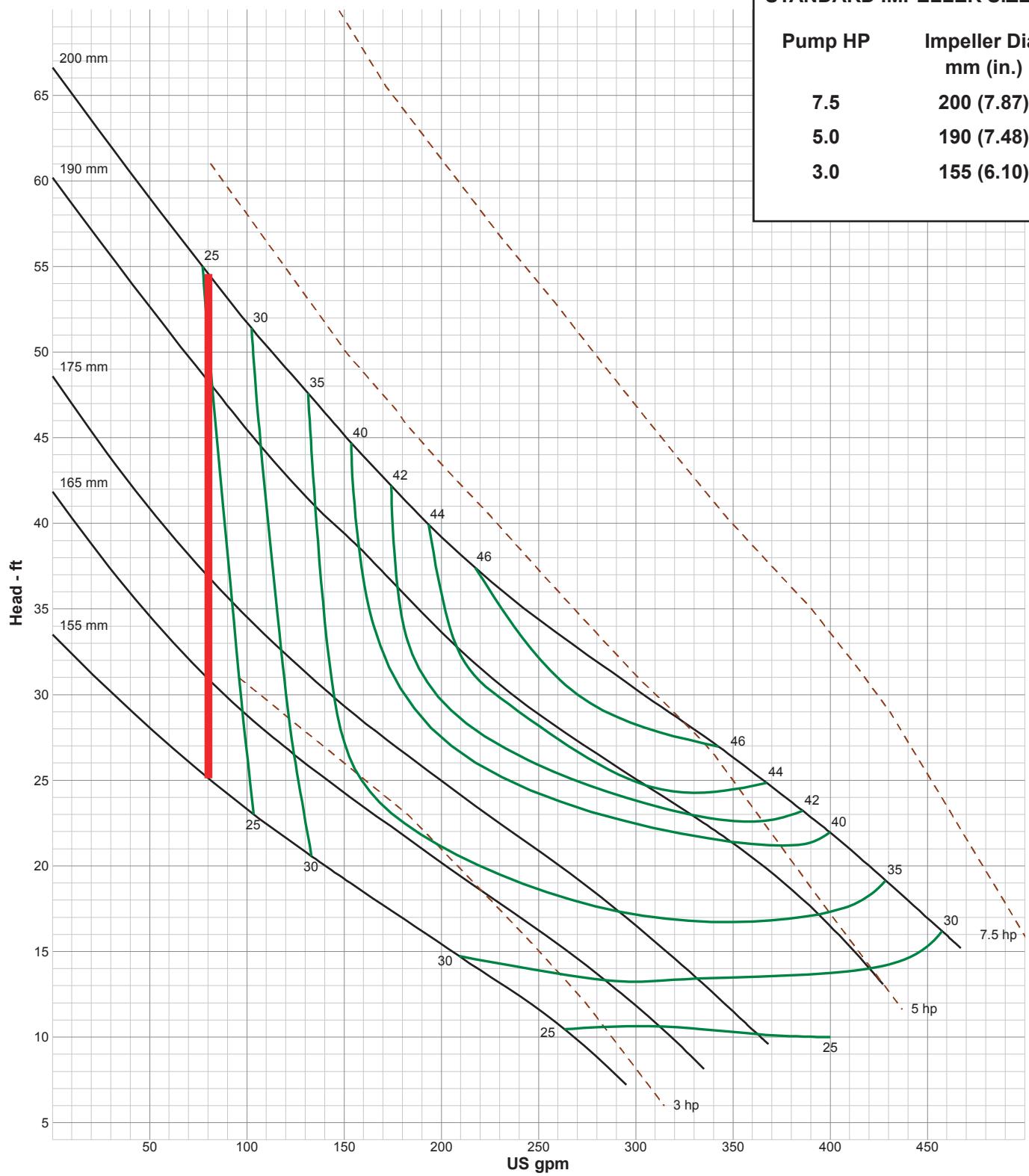
▲ Cord Suffix: XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.

▲ Cord sold separately.

SITHE Submersible Chopper Pumps

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SITHE Submersible Chopper Pumps



Series 4SCMC

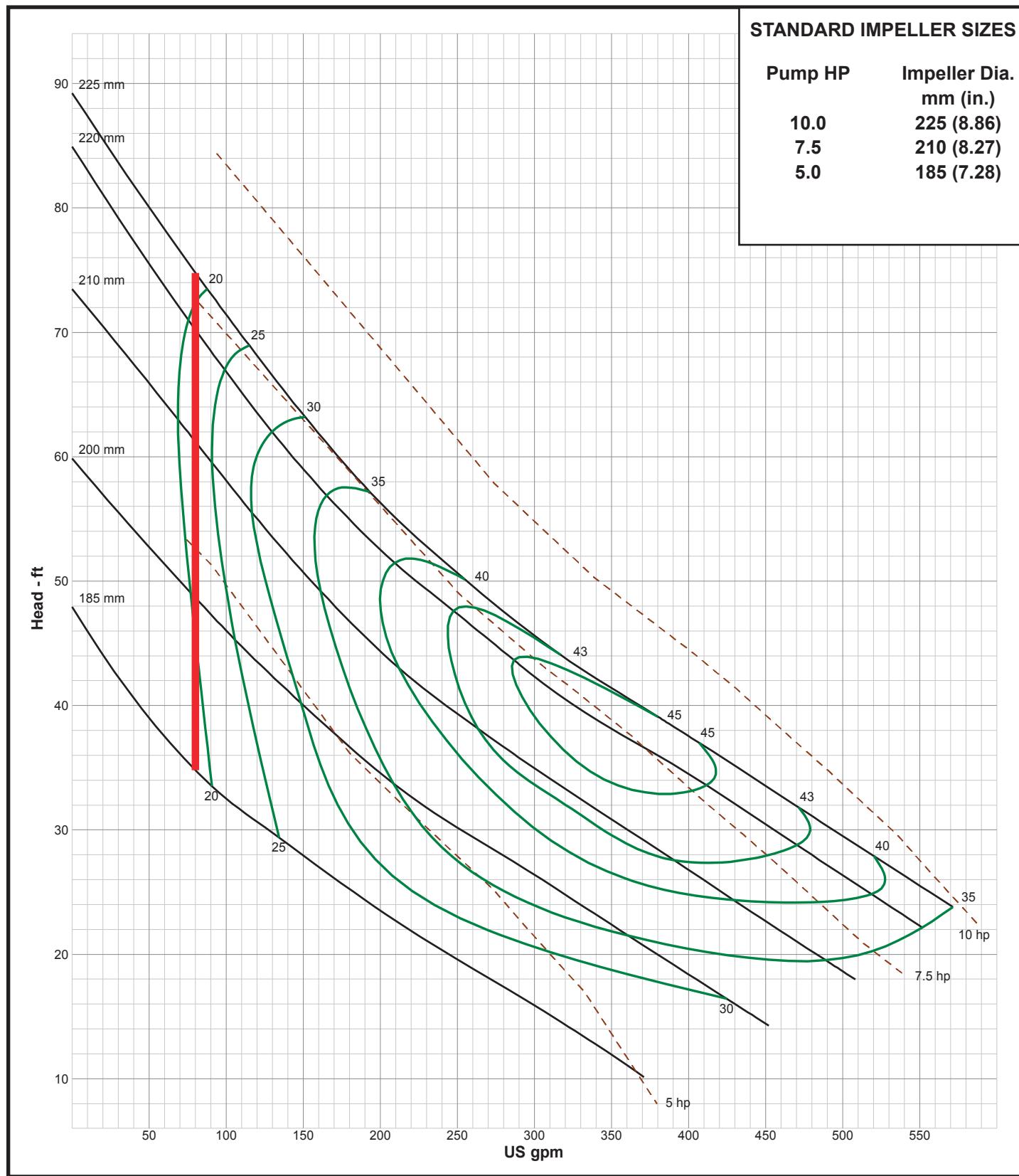
Performance Curve

5 - 10HP, 1750RPM, 60Hz, 18 Frame

BARNES®

www.cranepumps.com

SITHE Submersible Chopper Pumps



SECTION 0.2C
PAGE 16
DATE 7/18

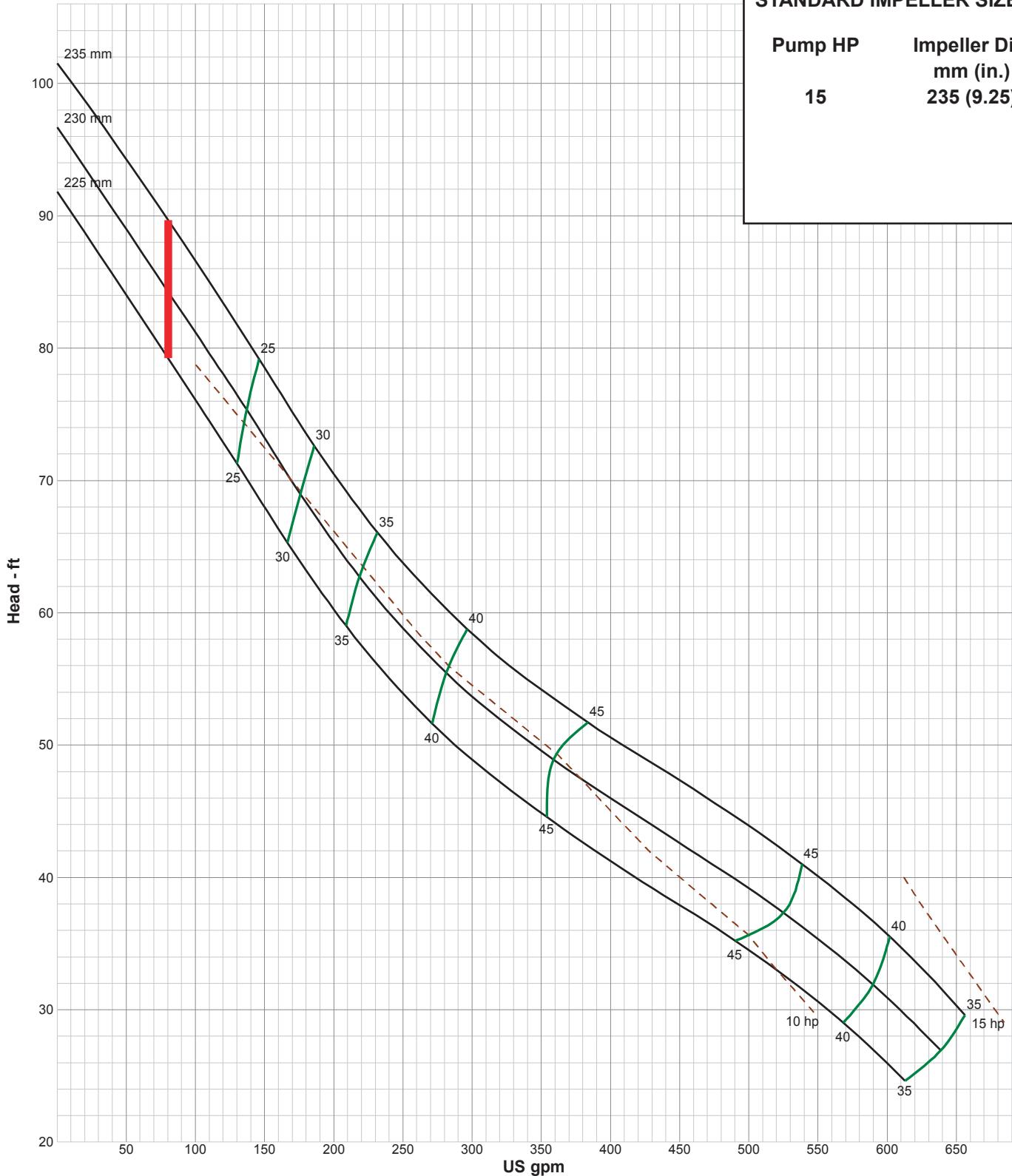
CRANE®

A Crane Co. Company

PUMPS & SYSTEMS

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

SITHE Submersible Chopper Pumps



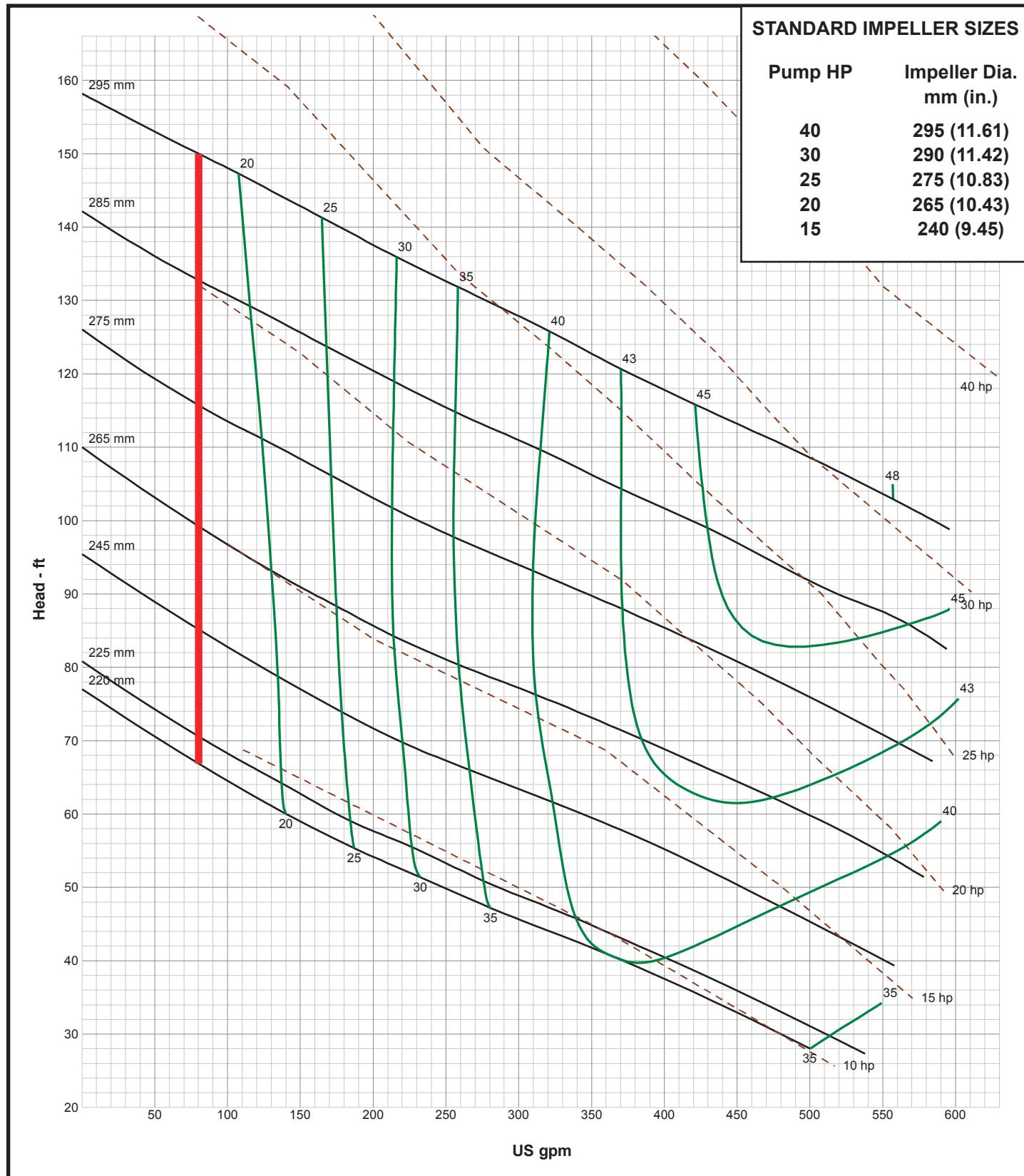
Series 4SCMD

Performance Curve
15 - 40HP, 1750RPM, 60Hz

BARNES®

www.cranepumps.com

SITHE Submersible Chopper Pumps



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PAGE 18
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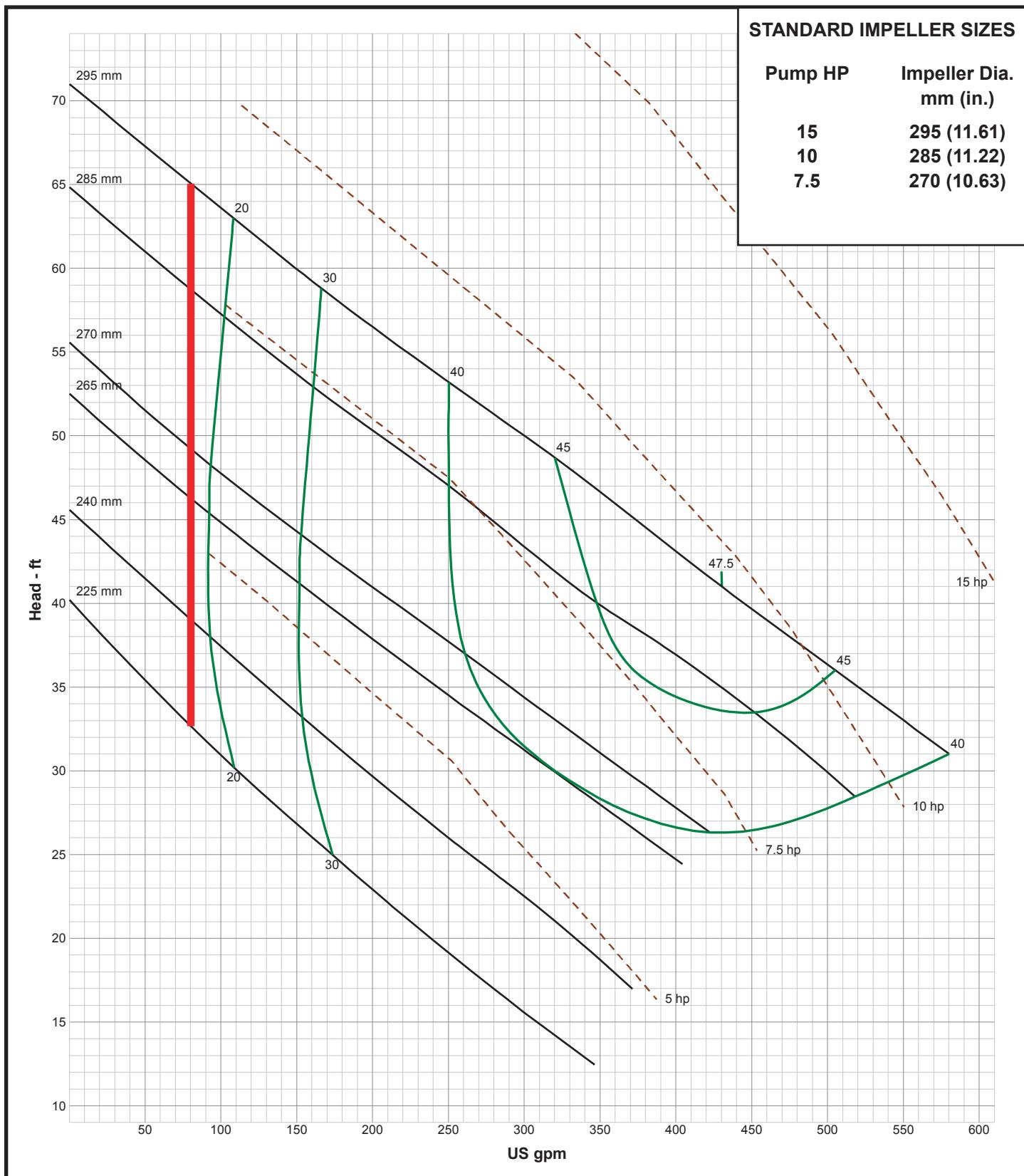
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SITHE Submersible Chopper Pumps



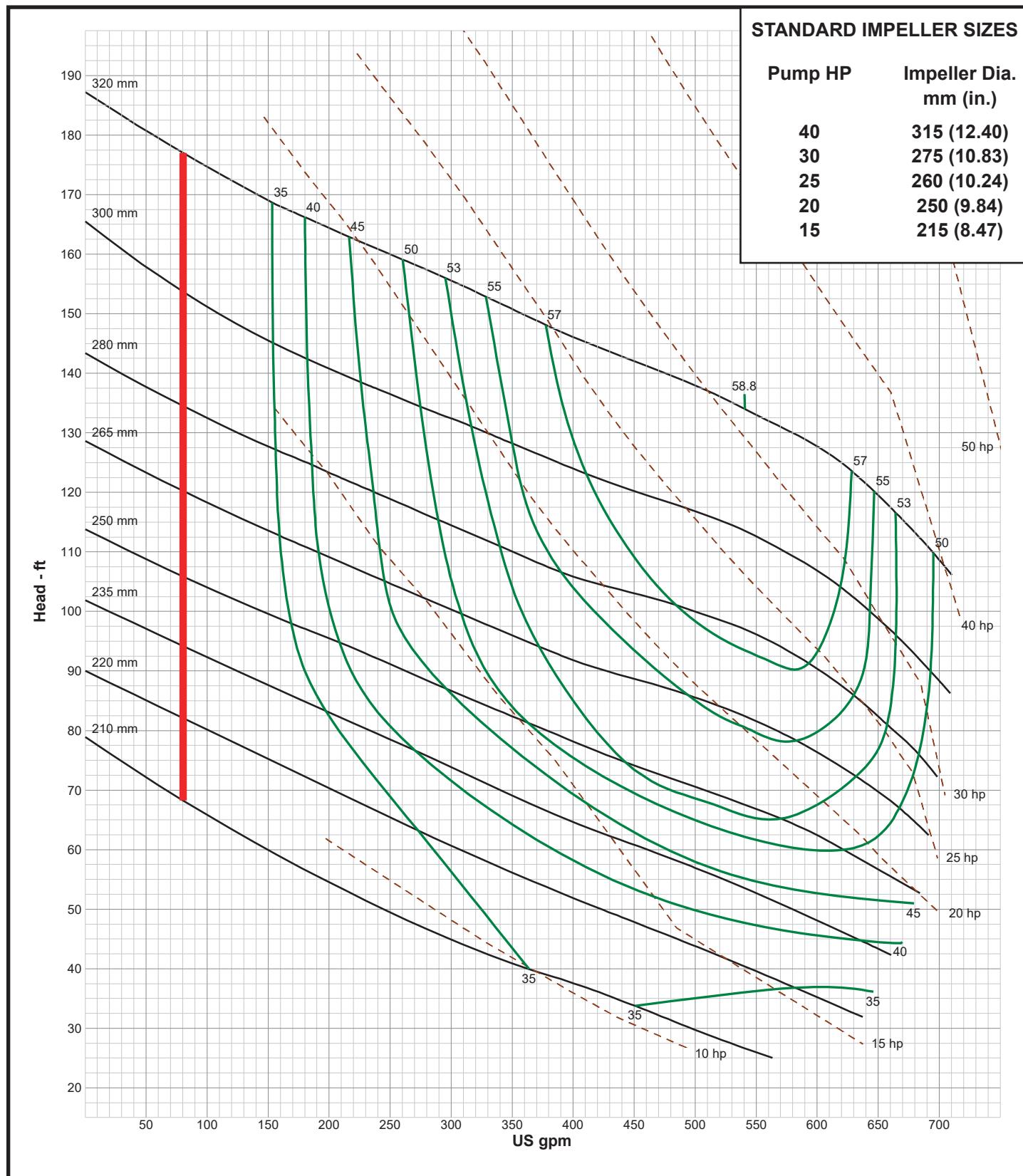
Series 4SCMB

Performance Curve
15 - 40HP, 1750RPM, 60Hz

BARNES®

www.cranepumps.com

SITHE Submersible Chopper Pumps



SECTION 0.2C
PAGE 20
DATE 4/20

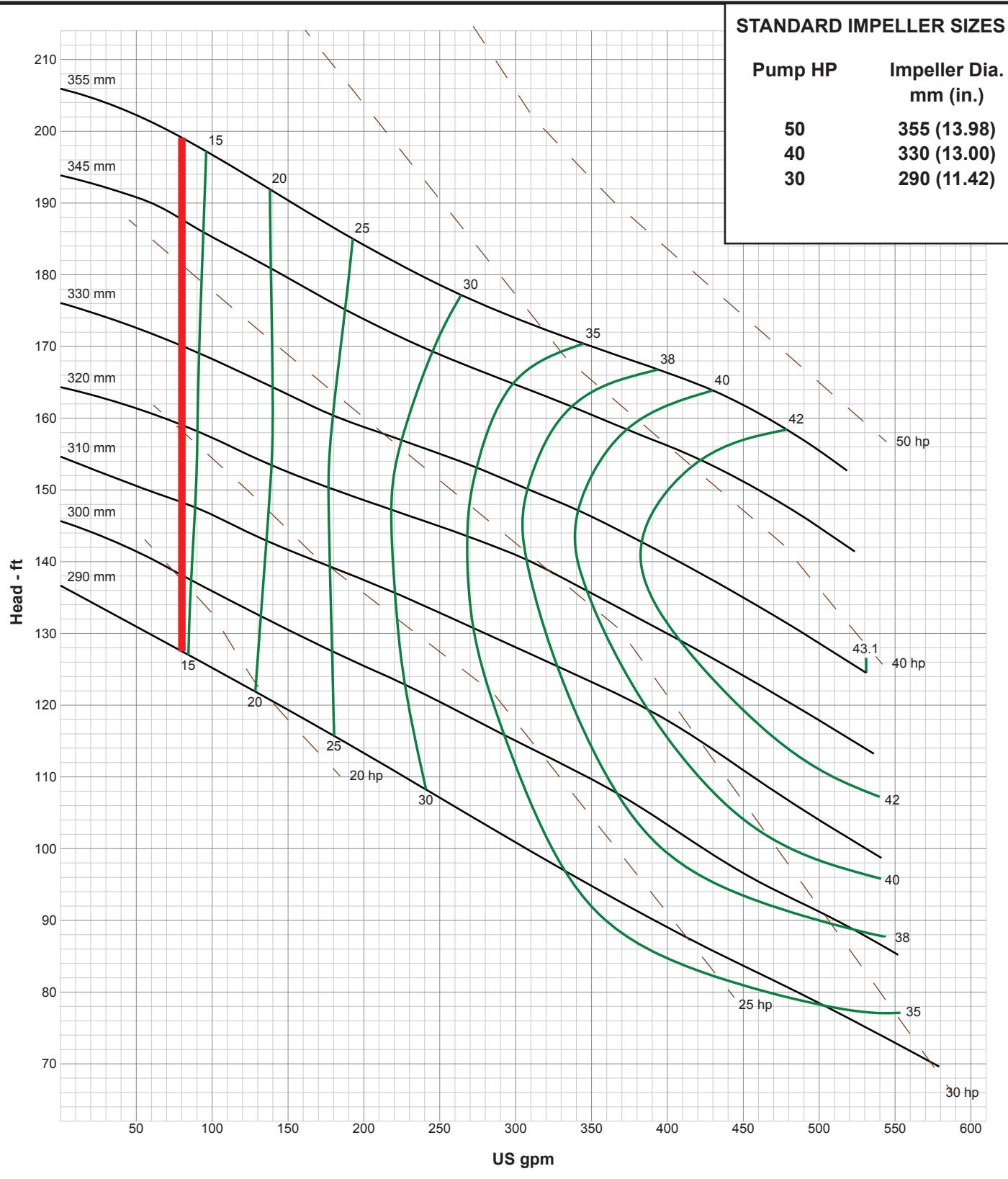
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SITHE Submersible Chopper Pumps



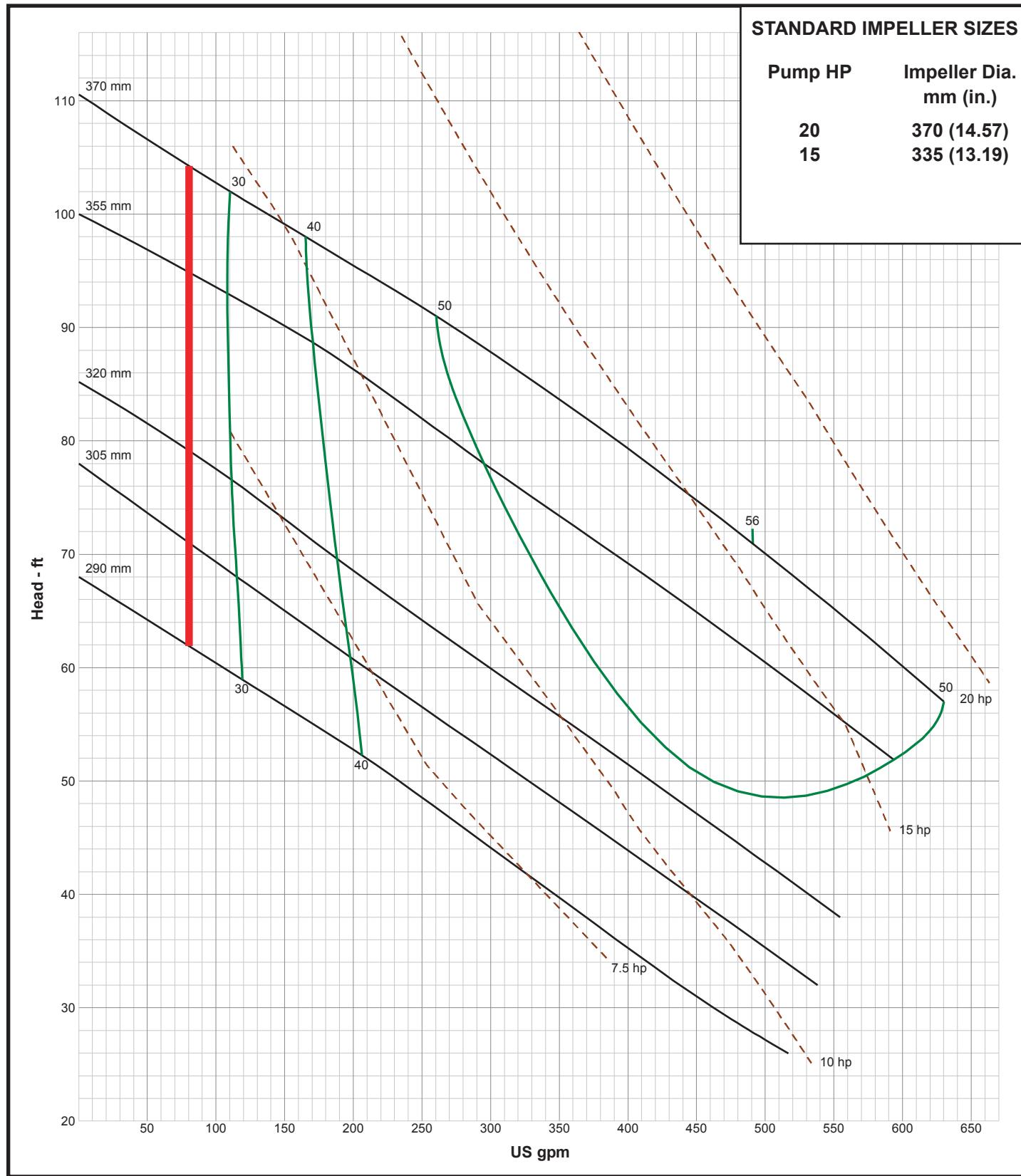
Series 4SCME

Performance Curve
15 - 20HP, 1150RPM, 60Hz

BARNES®

www.cranepumps.com

SITHE Submersible Chopper Pumps



SECTION 0.2C
PAGE 22
DATE 3/18

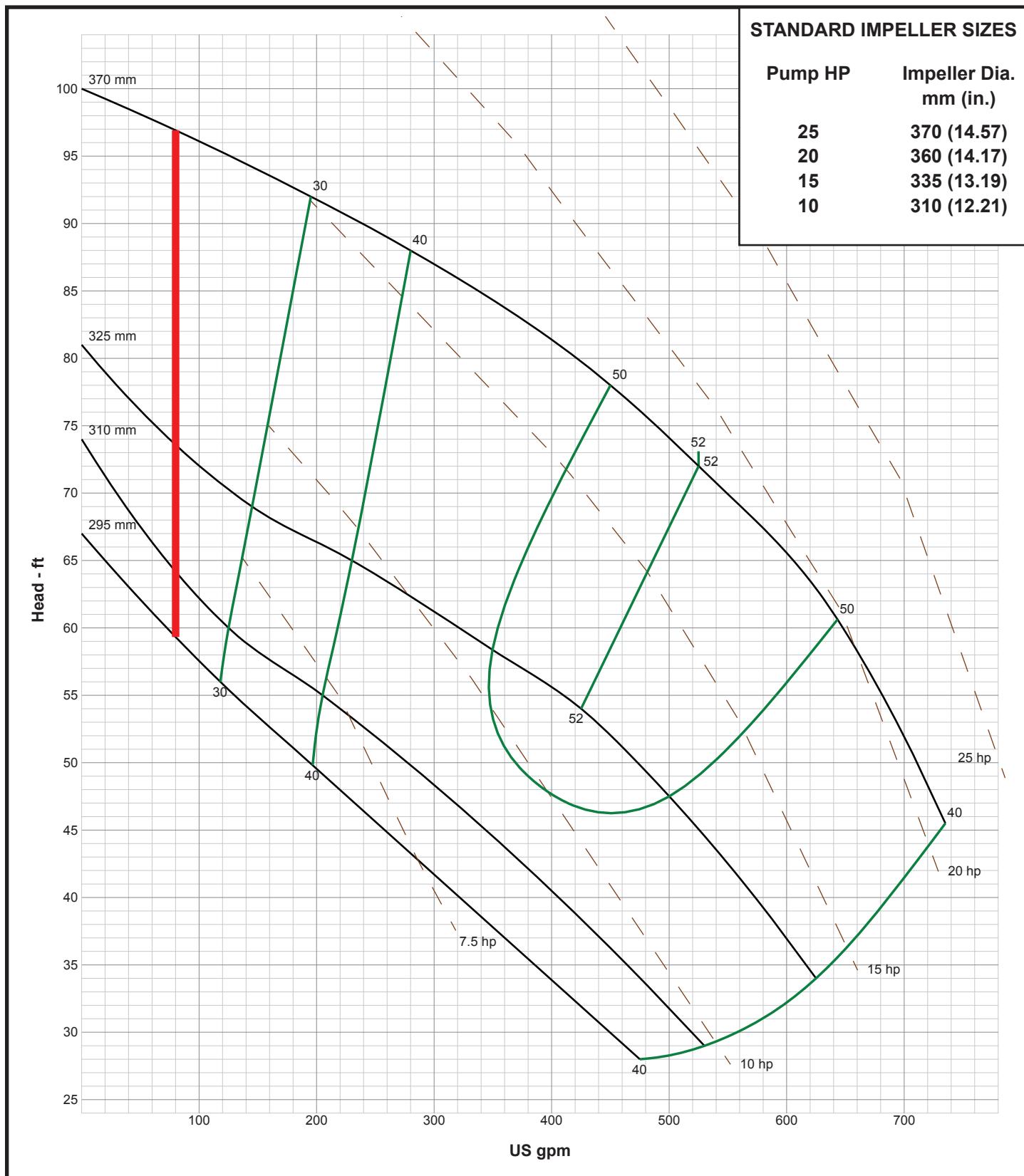
CRANE®

A Crane Co. Company

PUMPS & SYSTEMS

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

SITHE Submersible Chopper Pumps

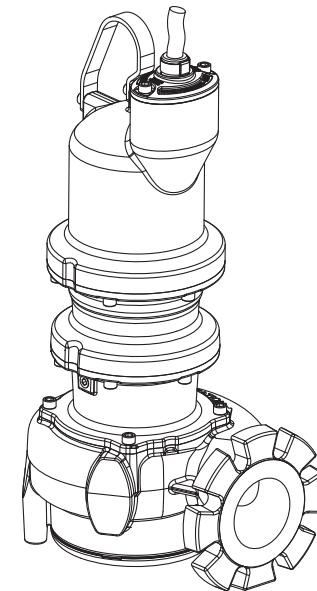


SITHE Submersible Chopper Pumps

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Specifications:

DISCHARGE	4", 125 lb. Horizontal Flange Slotted to accommodate 100mm ISO Flanges
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
STRIKER PLATE .....	.440C Stainless Steel Heat Treated to 53-60 HRC Hole Pattern to Accommodate 4" 125 # Flange
WEAR RING.....	C954 Lead-Free Bronze
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER:	
Design	Enclosed Dual Vane, With Pump Out Vanес on Back Side. Dynamically Balanced ISO G6.3
Material	Ductile Iron ASTM A-536, 65-45-12
SLICING BLADE .....	.440C Stainless Steel Heat Treated to 53-60 HRC
SHAFT .....	.416 Stainless Steel
"O" RINGS.....	Buna-N
HARDWARE .....	.300 Series Stainless Steel
LIFTING BAIL .....	.300 Series Stainless Steel
PAINT	Axalta™ Corilar® Epoxy, Two Coats
SEAL: Design	Tandem Mechanical, Oil Filled Reservoir.
Material: Inboard.....	Rotating Faces - Carbon Stationary Faces - Ceramic
Material: Outboard.....	Rotating Faces - Silicon Carbide Stationary Faces - Silicon Carbide Elastomer - Buna-N
CORD ENTRY	Hardware - .300 Series Stainless Custom Molded, Quick Connected for Sealing and Strain Relief
POWER CORD	CSA Certified Submersible Power Cable 2000V - Ordered Separately
SPEED	1750 or 1150 RPM
UPPER BEARING:	
Design	Single Row, Ball, Oil Lubricated
Load	Radial
LOWER BEARING:	
Design	Double Row, Ball, Oil Lubricated
Load.....	Radial & Thrust
MOTOR: Design	NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
Insulation	Class H Varnish & Magnet Wire
THREE PHASE	Requires overload protection to be included in control panel.
MOISTURE SENSOR	Normally Open (N/O), Requires Relay in Control Panel
TEMPERATURE SENSOR	Three Normally Closed (N/C). To be wired in series with control circuit.
OPTIONAL EQUIPMENT.....	White Iron Impeller, Seal Material, Impeller Trims, Cord Length
MARKINGS	CSA
WEIGHT (MAX).....	.291 lbs (131.9 Kg)
NOISE EMISSION MAX.....	In-Air 73 dB-A
SUBMERGENCE	Max Depth 66ft (20m)
RECOMMENDED:	
Accessories.....	Break Away Fitting (BAF) Check Valve Control Panel Moisture/Temp. Sensor Relay (Pump Monitor Relay) Leg Kit



SITHE

Series: 4SCD
3 - 10HP, 1750RPM, 60Hz

Sample Specifications: Section 0.2C Page F.

This product may be covered by one or more of the following patents and other patent(s) pending: US Patent 7,931,473, NZ DSN NO. 424412, NZ DSN NO. 424413, AUS DSN NO. 201812608, AUS DSN NO. 201812609, EU Design Reg. 005293040-0001

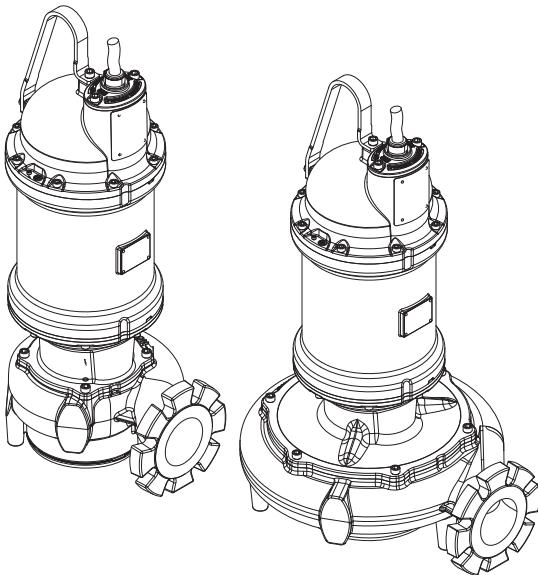
DESCRIPTION:

SUBMERSIBLE CHOPPER PUMP
DESIGNED FOR RAW SEWAGE
APPLICATIONS.



WARNING:
CANCER AND REPRODUCTIVE HARM -
WWW.P65WARNINGS.CA.GOV

SITHE Submersible Chopper Pumps



SITHE

Series: 4SCD

15 - 30HP, 1750RPM, 60Hz**7.5 - 20HP, 1150RPM, 60Hz**

Sample Specifications: Section 0.2C Page F.

This product may be covered by one or more of the following patents and other patent(s) pending: US Patent 7,931,473, NZ DSN NO. 424412, NZ DSN NO. 424413, AUS DSN NO. 201812608, AUS DSN NO. 201812609, EU Design Reg. 005293040-0001

DESCRIPTION:

**SUBMERSIBLE CHOPPER PUMP
DESIGNED FOR RAW SEWAGE
APPLICATIONS.**

**WARNING:**

CANCER AND REPRODUCTIVE HARM -
WWW.P65WARNINGS.CA.GOV

Specifications:

DISCHARGE	4", 125 lb. Horizontal Flange Slotted to accommodate 100mm ISO Flanges
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
STRIKER PLATE	440C Stainless Steel Heat Treated to 53-60 HRC Hole Pattern to Accommodate 4" 125 # Flange
WEAR RING	C954 Lead-Free Bronze
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER:	
<i>Design</i>	Enclosed Dual Vane, With Pump Out Vanes on Back Side. Dynamically Balanced ISO G6.3
<i>Material</i>	Ductile Iron ASTM A-536, 65-45-12
SLICING BLADE	440C Stainless Steel Heat Treated to 53-60 HRC
SHAFT	416 Stainless Steel
"O" RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
LIFTING BAIL	300 Series Stainless Steel
PAINT	Axalta™ Corlar® Epoxy, Two Coats
SEAL:	<i>Design</i>.....Tandem Mechanical, Oil Filled Reservoir. <i>Material: Inboard</i>.....Rotating Faces - Carbon Stationary Faces - Ceramic <i>Material: Outboard</i>.....Rotating Faces - Silicon Carbide Stationary Faces - Silicon Carbide Elastomer - Buna-N Hardware - 300 Series Stainless
CORD ENTRY	Custom Molded, Quick Connected for Sealing and Strain Relief
POWER CORD	CSA Certified Submersible Power Cable 2000V - Ordered Separately
SPEED	1750 or 1150 RPM
UPPER BEARING:	<i>Design</i>.....Single Row, Ball, Oil Lubricated <i>Load</i>.....Radial
LOWER BEARING:	<i>Design</i>.....Double Row, Ball, Oil Lubricated <i>Load</i>.....Radial & Thrust
MOTOR: <i>Design</i>	NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
Insulation	Class H Varnish & Magnet Wire
THREE PHASE	Requires overload protection to be included in control panel.
MOISTURE SENSOR	Normally Open (N/O). Requires Relay in Control Panel
TEMPERATURE SENSOR	Three Normally Closed (N/C). To be wired in series with control circuit.
OPTIONAL EQUIPMENT	White Iron Impeller, Seal Material, Impeller Trims, Cord Length
MARKINGS	CSA
WEIGHT (MAX)	657 lbs (298 Kg)
NOISE EMISSION MAX	In-Air 73 dB-A
SUBMERGENCE	Max Depth 66ft (20m)

RECOMMENDED:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel Moisture/Temp. Sensor Relay (Pump Monitor Relay) Leg Kit
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Specifications:

DISCHARGE 4", 125 lb. Horizontal Flange
Slotted to accommodate 100mm ISO Flanges

LIQUID TEMPERATURE 104°F (40°C) Continuous

VOLUTE Cast Iron ASTM A-48, Class 30

STRIKER PLATE 440C Stainless Steel Heat Treated to 53-60 HRC
Hole Pattern to Accommodate 4" 125 # Flange

WEAR RING C954 Lead-Free Bronze

MOTOR HOUSING Cast Iron ASTM A-48, Class 30

SEAL PLATE Ductile Iron ASTM A-536, 65-45-12

IMPELLER:

- Design* Enclosed Dual Vane, With Pump Out Vanes on Back Side. Dynamically Balanced ISO G6.3
- Material* Ductile Iron ASTM A-536, 65-45-12

SLICING BLADE 440C Stainless Steel Heat Treated to 53-60 HRC

SHAFT 416 Stainless Steel

"O" RINGS Buna-N

HARDWARE 300 Series Stainless Steel

LIFTING BAIL 300 Series Stainless Steel

PAINT Axalta™ Corilar® Epoxy, Two Coats

SEAL:

- Design* Tandem Mechanical, Oil Filled Reservoir.
- Material: Inboard* Rotating Faces - Carbon
Stationary Faces - Ceramic
- Material: Outboard* Rotating Faces - Silicon Carbide
Stationary Faces - Silicon Carbide
Elastomer - Buna-N
Hardware - 300 Series Stainless

CORD ENTRY Rigid quick change epoxy-potted housing

POWER CORD CSA Certified Submersible Power Cable 2000V - Ordered Separately

SPEED 1750 or 1150 RPM

UPPER BEARING:

- Design* Single Row, Ball, Oil Lubricated
- Load* Radial

LOWER BEARING:

- Design* Double Row, Ball, Oil Lubricated
- Load* Radial & Thrust

MOTOR: *Design* NEMA B Three Phase Torque Curve.
Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1

Insulation Class H Varnish & Magnet Wire

THREE PHASE Requires overload protection to be included in control panel.

MOISTURE SENSOR Normally Open (N/O), Requires Relay in Control Panel

TEMPERATURE SENSOR Three Normally Closed (N/C). To be wired in series with control circuit.

OPTIONAL EQUIPMENT White Iron Impeller, Seal Material, Impeller Trims, Cord Length

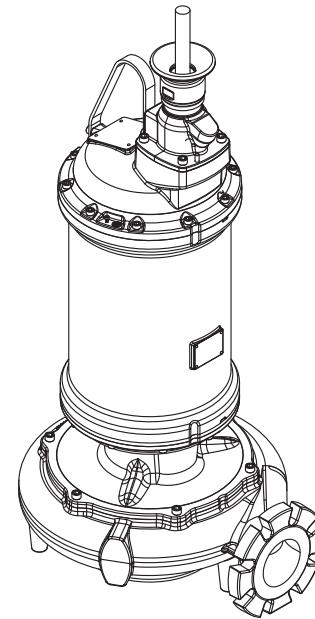
MARKINGS CSA

WEIGHT (MAX) 848 lbs (385 Kg)

SUBMERGENCE Max Depth 66ft (20m)

RECOMMENDED:

- Accessories* Break Away Fitting (BAF)
Check Valve
Control Panel
Moisture/Temp. Sensor Relay (Pump Monitor Relay)
Leg Kit



SITHE

Series: 4SCD

20 - 60HP, 1750RPM, 60Hz

20 - 40HP, 1150RPM, 60Hz

Sample Specifications: Section 0.2C Page F.

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

DESCRIPTION:

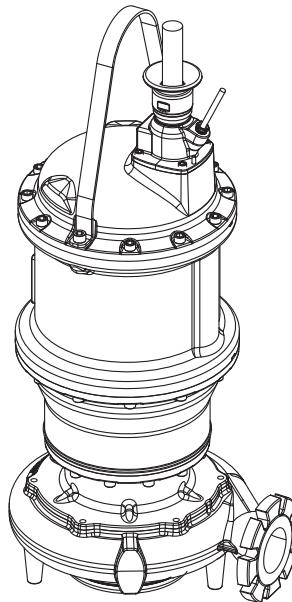
SUBMERSIBLE CHOPPER PUMP
DESIGNED FOR RAW SEWAGE
APPLICATIONS.

WARNING:

CANCER AND REPRODUCTIVE HARM -
WWW.P65WARNINGS.CA.GOV



SITHE Submersible Chopper Pumps



SITHE

Series: 4SCD

75 - 100HP, 1750RPM, 60Hz

Sample Specifications: Section 0.2C Page F.

This product may be covered by one or more of the following patents and other patent(s) pending: US Patent 7,931,473, NZ DSN NO. 424412, NZ DSN NO. 424413, AUS DSN NO. 201812608, AUS DSN NO. 201812609, EU Design Reg. 005293040-0001

DESCRIPTION:

SUBMERSIBLE CHOPPER PUMP
DESIGNED FOR RAW SEWAGE
APPLICATIONS.

WARNING:

CANCER AND REPRODUCTIVE HARM -
WWW.P65WARNINGS.CA.GOV



Specifications:

DISCHARGE	4", 125 lb. Horizontal Flange Slotted to accommodate 100mm ISO Flanges
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
STRIKER PLATE	440C Stainless Steel Heat Treated to 53-60 HRC Hole Pattern to Accommodate 4" 125 # Flange
WEAR RING	C954 Lead-Free Bronze
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER:	
Design	Enclosed Dual Vane, With Pump Out Vanes on Back Side. Dynamically Balanced ISO G6.3
Material	Ductile Iron ASTM A-536, 65-45-12
SLICING BLADE	440C Stainless Steel Heat Treated to 53-60 HRC
SHAFT	416 Stainless Steel
"O" RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
LIFTING BAIL	300 Series Stainless Steel
PAINT	Axalta™ Corilar® Epoxy, Two Coats
SEAL:	
Design	Tandem Mechanical, Oil Filled Reservoir.
Material: Inboard	Rotating Faces - Carbon Stationary Faces - Ceramic
Material: Outboard	Rotating Faces - Silicon Carbide Stationary Faces - Silicon Carbide Elastomer - Buna-N Hardware - 300 Series Stainless
CORD ENTRY	Rigid quick change epoxy-potted housing
POWER CORD	CSA Certified Submersible Power Cable 2000V - Ordered Separately
SPEED	1750 RPM
UPPER BEARING:	
Design	Single Row, Ball, Oil Lubricated
Load	Radial
LOWER BEARING:	
Design	Double Row, Ball, Oil Lubricated
Load	Radial & Thrust
MOTOR:	
Design	NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
Insulation	Class H Varnish & Magnet Wire
THREE PHASE	Requires overload protection to be included in control panel.
MOISTURE SENSOR	Normally Open (N/O), Requires Relay in Control Panel
TEMPERATURE SENSOR	Three Normally Closed (N/C). To be wired in series with control circuit.
OPTIONAL EQUIPMENT	White Iron Impeller, Seal Material, Impeller Trims, Cord Length
MARKINGS	CSA
WEIGHT	1575 lbs (715 Kg)
SUBMERGENCE	Max Depth 66ft (20m)

RECOMMENDED:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel Leg Kit
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LR16567



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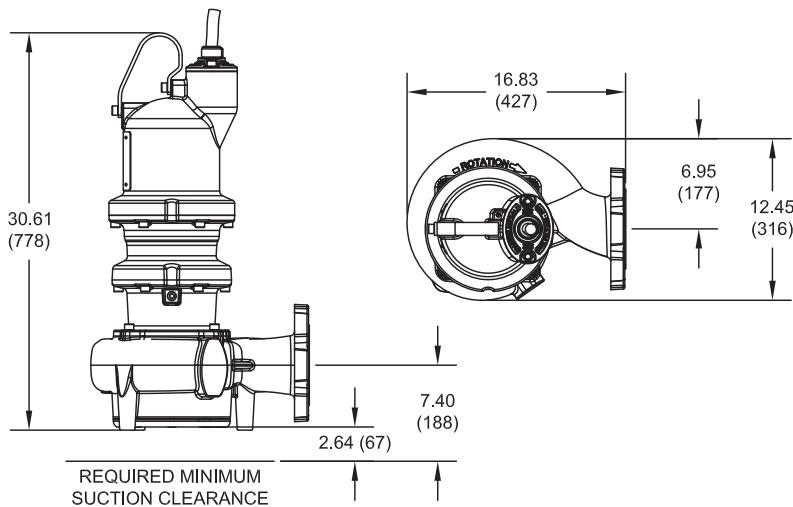
CRANE
®

A Crane Co. Company

PUMPS & SYSTEMS

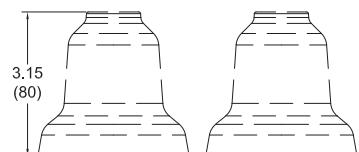
USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

18 Frame Driver



inches
(mm)

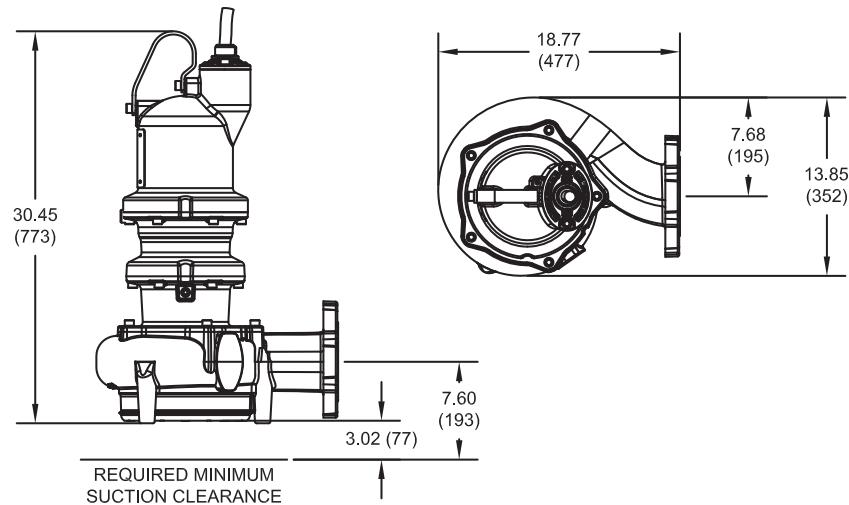
Optional Leg Kit - p/n 125506

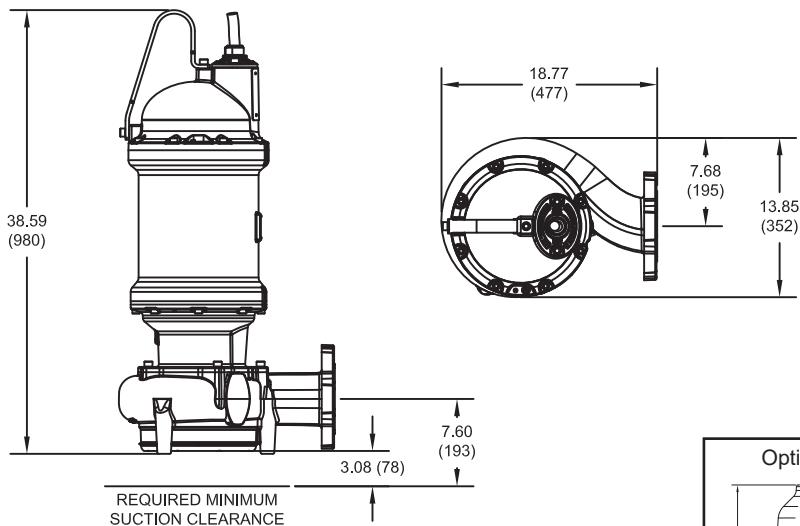


IMPORTANT !

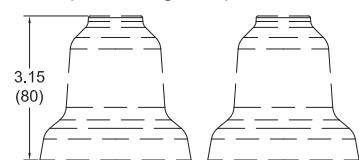
- 1.) MOISTURE AND TEMPERATURE SENSORS MUST BE CONNECTED TO VALIDATE THE CSA LISTING.
- 2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT BARNES PUMPS FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
- 3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS.**
- 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.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION 1 HAZARDOUS LOCATIONS.

SITHE Submersible Chopper Pumps

18 Frame Driver

 inches
(mm)

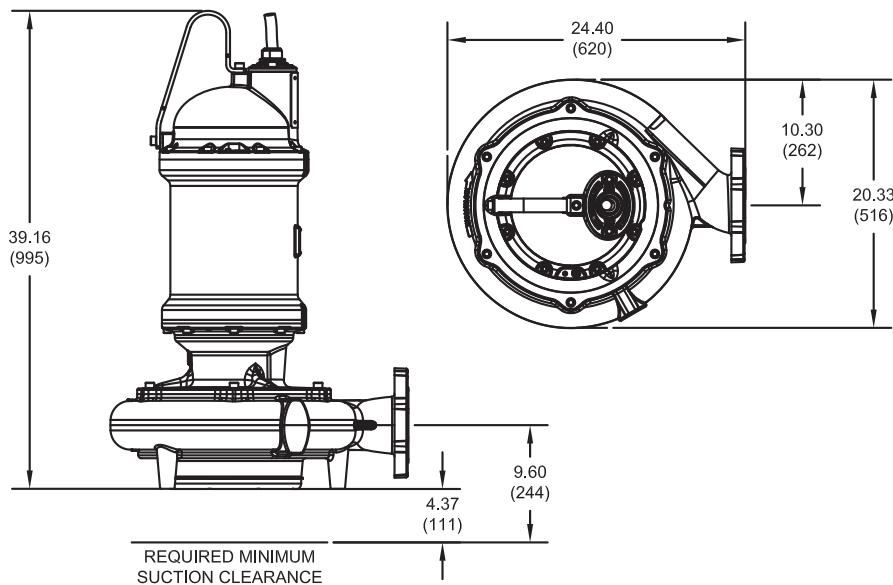
21 Frame Driver


Optional Leg Kit - p/n 125506

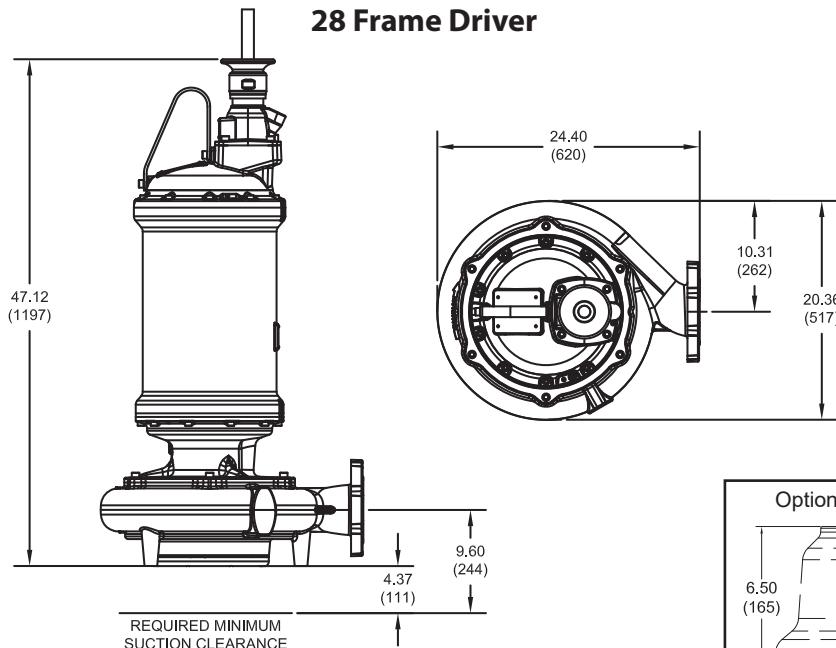

IMPORTANT !

- 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 BARNES PUMPS 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.**
- 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.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION 1 HAZARDOUS LOCATIONS.

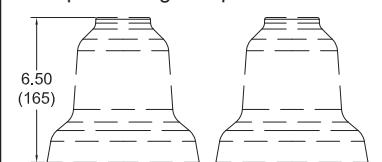
21 Frame Driver



28 Frame Driver



Optional Leg Kit - p/n 125506B



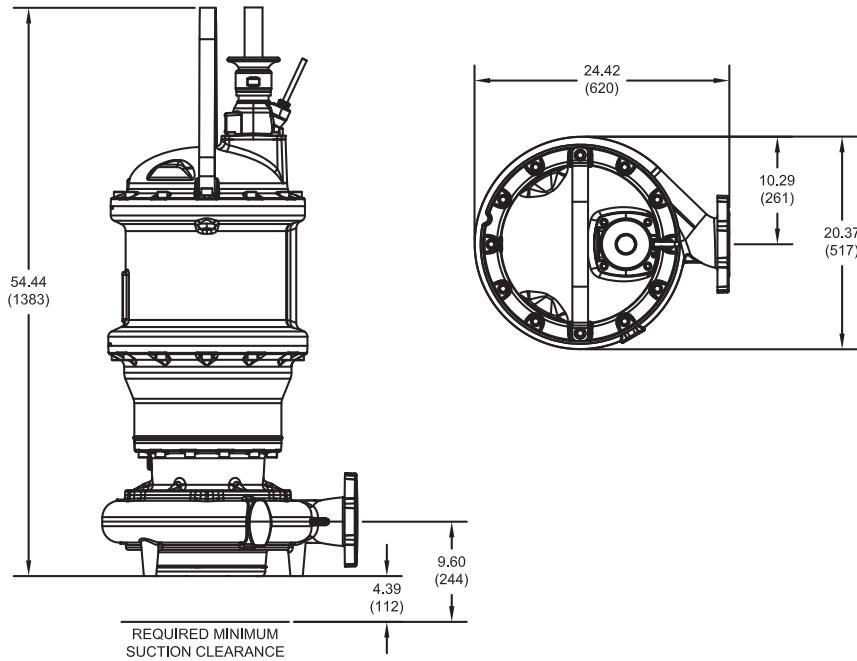
IMPORTANT !

- 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 BARNES PUMPS 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.**
- 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.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS I DIVISION 1 HAZARDOUS LOCATIONS.

SITHE Submersible Chopper Pumps

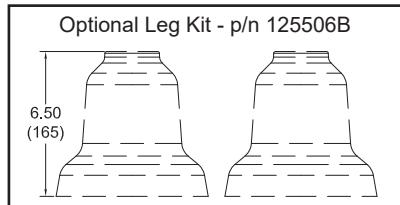
32 Frame Driver

inches
(mm)



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 BARNES PUMPS 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.**
- 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.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS 1 DIVISION 1 HAZARDOUS LOCATIONS.



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CRANE®

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PUMPS & SYSTEMS

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

	MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
4SCDF30N4	3.0	208	3	60	1750	K	9.7	1.2	11.4	58.2 / 65.8	18	125496	12/4 - 18/4
	3.0	230	3	60	1750	K	9.2	1.2	10.6			125496	12/4 - 18/4
	4.60						4.6	1.2	5.3	32.9		125497	12/4 - 18/4
4SCDF3054	3.0	575	3	60	1750	N	4.5	1.2	4.9	37	18	125497	12/4 - 18/4
	3.0	208	3	60	1750	J	15.8	1.2	18.7	82.4 / 92.4	18	125496	12/4 - 18/4
	5.0	230	3	60	1750	J	15	1.2	17.2			125496	12/4 - 18/4
4SCDF50N4	5.0	460					7.5	1.2	8.6	46.2		125497	12/4 - 18/4
	5.0	575	3	60	1750	J	6	1.2	6.9	37	18	125497	12/4 - 18/4
	5.0	208	3	60	1750	H	23.8	1.2	28.5	105.9 / 123.6	18	125496	12/4 - 18/4
4SCDF75N4	7.5	230	3	60	1750	H	23.7	1.2	27.2			125496	12/4 - 18/4
	7.5	460					11.9	1.2	13.6	61.8		125497	12/4 - 18/4
	7.5	575	3	60	1750	H	9.5	1.2	10.9	49.4	18	125497	12/4 - 18/4
IMPORTANT!													
Moisture and Temperature sensor leads are integral to power cord.													
Pump rated for operation at $\pm 10\%$ voltage at motor.													
▲ Cord Suffix: XC - 30 Feet, XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.													
▲ Cord sold separately.													

IMPORTANT!

Moisture and Temperature sensor leads are integral to power cord.

Pump rated for operation at $\pm 10\%$ voltage at motor.

▲ Cord Suffix: XC - 30 Feet, XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.

▲ Cord sold separately.

SITHE Submersible Chopper Pumps

MODEL NO	HP	VOLT	PH	Hz	RPM (Nm)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
4SCDG50N4	5.0	208	3	60	1750	J	15.8	1.2	18.7	82.4 / 92.4	18	12/4 - 18/4
		230	3	60	1750		15	1.2	17.2			12/4 - 18/4
		460					7.5	1.2	8.6	46.2		12/4 - 18/4
4SCDG5054	5.0	575	3	60	1750	J	6	1.2	6.9	37	18	12/4 - 18/4
4SCDG75N4	7.5	208	3	60	1750	H	23.8	1.2	28.5	105.9 / 123.6	18	12/4 - 18/4
		230	3	60	1750		23.7	1.2	27.2			12/4 - 18/4
		460					11.9	1.2	13.6	61.8		12/4 - 18/4
4SCDG7554	7.5	575	3	60	1750	H	9.5	1.2	10.9	49.4	18	12/4 - 18/4
4SCDG100N4	10.0	208	3	60	1750	E	32.2	1.2	41.4	105.9 / 123.6	18	12/4 - 18/4
		230	3	60	1750		29.8	1.2	35.6			12/4 - 18/4
		460					14.9	1.2	17.8	61.8		12/4 - 18/4
4SCDG10054	10.0	575	3	60	1750	E	11.9	1.2	14.2	49.4	18	12/4 - 18/4
4SCDG150N4	15.0	208	3	60	1750	E	51.8	1.2	59.0	206.6	21	12/4 - 18/4
		230	3	60	1750		46.9	1.2	54.3			12/4 - 18/4
		460					23.4	1.2	27.2	103.3		12/4 - 18/4
4SCDG15054	15.0	575	3	60	1750	E	18.7	1.2	21.7	82.6	21	12/4 - 18/4
4SCDG20084	20.0	208	3	60	1750	J	53.7	1.2	59.0	383.9	21	8/4 - 18/4
		230	3	60	1750		26.9	1.2	29.9			12/4 - 18/4
		460					21.5	1.2	23.9	153.5	21	12/4 - 18/4
4SCDG20054	20.0	575	3	60	1750	J						
SITHE SCDG Pump												

IMPORTANT !

Moisture and Temperature sensor leads are integral to power cord.

Pump rated for operation at $\pm 10\%$ voltage at motor.

▲ Cord Suffx: XC - 30 Feet, XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.

▲ Cord sold separately.

MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
4SCDI150N4*	15.0	208	3	60	1750	E	51.8	1.2	54.3	206.6	21	125498 8/4 - 18/4
		230					46.9		27.2	103.3		125497 12/4 - 18/4
		460					23.4					125497 12/4 - 18/4
4SCDI15054*	15.0	575	3	60	1750	E	18.7	1.2	21.7	82.6	21	125497 12/4 - 18/4
4SCDI120064	20.0	208	3	60	1750	G	63.0	1.2	74.6	323.0	28	138318 6/4 - 18/4
4SCDI120084	20.0	230	3	60	1750	J	53.7	1.2	59.0	383.9	21	125498 8/4 - 18/4
4SCDI120054	20.0	460					26.9	1.2	29.9			125497 12/4 - 18/4
4SCDI120054	20.0	575	3	60	1750	J	21.5	1.2	23.9	153.5	21	125497 12/4 - 18/4
4SCDI125094	25.0	208	3	60	1750	G	77.8	1.2	93.4	359.0	28	138319 2/4 - 18/4
4SCDI125044	25.0	230					71.4	1.2	82.3			125499 8/4 - 18/4
4SCDI125054	25.0	460	3	60	1750	G	33.2	1.2	38.9	191.9	21	125499 8/4 - 18/4
4SCDI125054	25.0	575	3	60	1750	G	26.6	1.2	31.1	153.5	21	125497 12/4 - 18/4
4SCDI130094	30.0	208	3	60	1750	E	93.4	1.2	116.9	359.0	28	138319 2/4 - 18/4
4SCDI130044	30.0	230					82.3	1.2	98.7			125499 8/4 - 18/4
4SCDI130054	30.0	460	3	60	1750	F	38.9	1.2	45.9	191.9	21	125499 8/4 - 18/4
4SCDI130054	30.0	575	3	60	1750	F	31.1	1.2	36.7	153.5	21	125499 8/4 - 18/4
4SCDI140034	40.0	230	3	60	1750	E	106.0	1.2	126.4	486.0	28	138319 2/4 - 18/4
4SCDI140044	40.0	460	3	60	1750	E	53.0	1.2	63.2	243.0	28	138318 6/4 - 18/4
4SCDI140054	40.0	575	3	60	1750	E	42.4	1.2	50.6	194.4	28	138317 6/4 - 18/4
4SCDI150044	50.0	460	3	60	1750	F	67.1	1.2	79.0	339.0	28	138318 6/4 - 18/4
4SCDI150054	50.0	575	3	60	1750	F	53.7	1.2	63.2	271.2	28	138318 6/4 - 18/4
4SCDI160044	60.0	460	3	60	1750	E	79.0	1.2	95.5	339.0	28	138319 2/4 - 18/4
4SCDI160054	60.0	575	3	60	1750	E	63.2	1.2	76.4	271.2	28	138318 6/4 - 18/4
4SCDI175044	75.0	460	3	60	1750	G	108.4	1.15	120.7	578.0	32	138319 2/4 - 18/4
4SCDI175054	75.0	575	3	60	1750	G	86.7	1.15	96.6	462.4	32	138319 2/4 - 18/4
4SCDI110044	100.0	460	3	60	1750	E	136.6	1.15	155.3	578.0	32	138319 2/4 - 18/4
4SCDI110054	100.0	575	3	60	1750	E	109.2	1.15	124.2	462.4	32	138319 2/4 - 18/4

IMPORTANT!

Moisture and Temperature sensor leads are integral to power cord.

Pump rated for operation at $\pm 10\%$ voltage at motor.

▲ Cord Suffix: XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.

▲ Cord sold separately.

* Select impeller diameter when ordering.

SITHE Submersible Chopper Pumps

MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
4SCDI175N6	7.5	208	3	60	1150	J	24.9	1.2	29.6	137.6	21	125496
		230					24.0	1.2	27.6			12/4 - 18/4
		460					12.0	1.2	13.8			125497
4SCDI17556	7.5	575	3	60	1150	J	9.6	1.2	11.0	55.0	21	125497
		208					32.9	1.2	41.0			12/4 - 18/4
4SCDI100N6	10.0	230	3	60	1150	F	30.2	1.2	35.8	137.6	21	125498
		460					15.1	1.2	17.9			8/4 - 18/4
4SCDI10056	10.0	575	3	60	1150	F	12.1	1.2	14.3	55.0	21	125497
		208					47.0	1.2	56.8			12/4 - 18/4
4SCDI150N6	15.0	230	3	60	1150	H	44.1	1.2	51.4	248.6	21	125498
		460					22.0	1.2	25.7			8/4 - 18/4
4SCDI15056	15.0	575	3	60	1150	H	17.6	1.2	20.6	99.4	21	125497
		208					60.3	1.2	71.5			12/4 - 18/4
4SCDI20096	20.0	230	3	60	1150	H	57.2	1.2	69.8	354.0	28	138318
		460					28.6	1.2	34.9			6/4 - 18/4
4SCDI20046	20.0	575	3	60	1150	E	22.9	1.2	27.9	99.4	21	125499
		208					75.2	1.2	90.8			8/4 - 18/4
4SCDI20056	20.0	575	3	60	1150	E	70.8	1.2	82.6			12/4 - 18/4
		230					35.4	1.2	41.3			2/4 - 18/4
4SCDI25096	25.0	208	3	60	1150	G	28.3	1.2	33.0	177.0	28	138317
		460					90.8	1.2	114.9			8/4 - 18/4
4SCDI25046	25.0	575	3	60	1150	G	82.6	1.2	99.7	354.0	28	138319
		230					41.3	1.2	49.9			2/4 - 18/4
4SCDI25056	25.0	575	3	60	1150	G	70.8	1.2	82.6			8/4 - 18/4
		208					35.4	1.2	41.3			12/4 - 18/4
4SCDI30096	30.0	230	3	60	1150	E	28.3	1.2	33.0	141.6	28	138317
		460					90.8	1.2	114.9			2/4 - 18/4
4SCDI30046	30.0	575	3	60	1150	E	82.6	1.2	99.7	354.0	28	138319
		208					41.3	1.2	49.9			8/4 - 18/4
4SCDI30056	30.0	575	3	60	1150	E	70.8	1.2	82.6			12/4 - 18/4
		230					33.0	1.2	39.9			2/4 - 18/4
4SCDI40036	40.0	230	3	60	1150	E	110.4	1.2	131.8	476.0	28	138319
		460					55.2	1.2	65.9			2/4 - 18/4
4SCDI40046	40.0	575	3	60	1150	E	44.2	1.2	52.7	190.4	28	138318
		208					44.2	1.2	52.7			6/4 - 18/4
4SCDI40056	40.0	575	3	60	1150	E	44.2	1.2	52.7	190.4	28	138317

SITHE SCDI Pump

IMPORTANT!

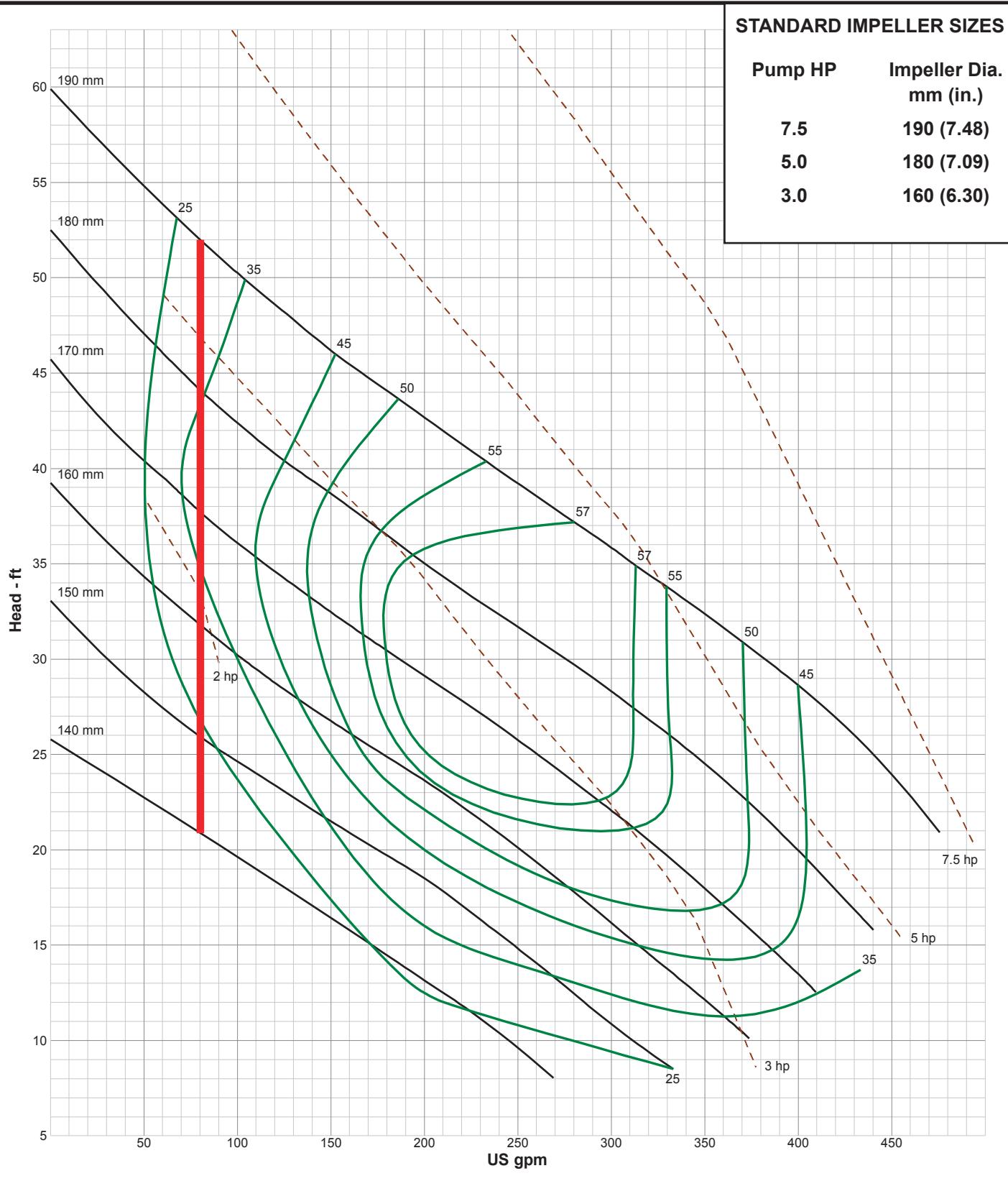
Moisture and Temperature sensor leads are integral to power cord.

Pump rated for operation at $\pm 10\%$ voltage at motor.

▲ Cord Suffix: XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.

▲ Cord sold separately.

SITHE Submersible Chopper Pumps



Series 4SCDG

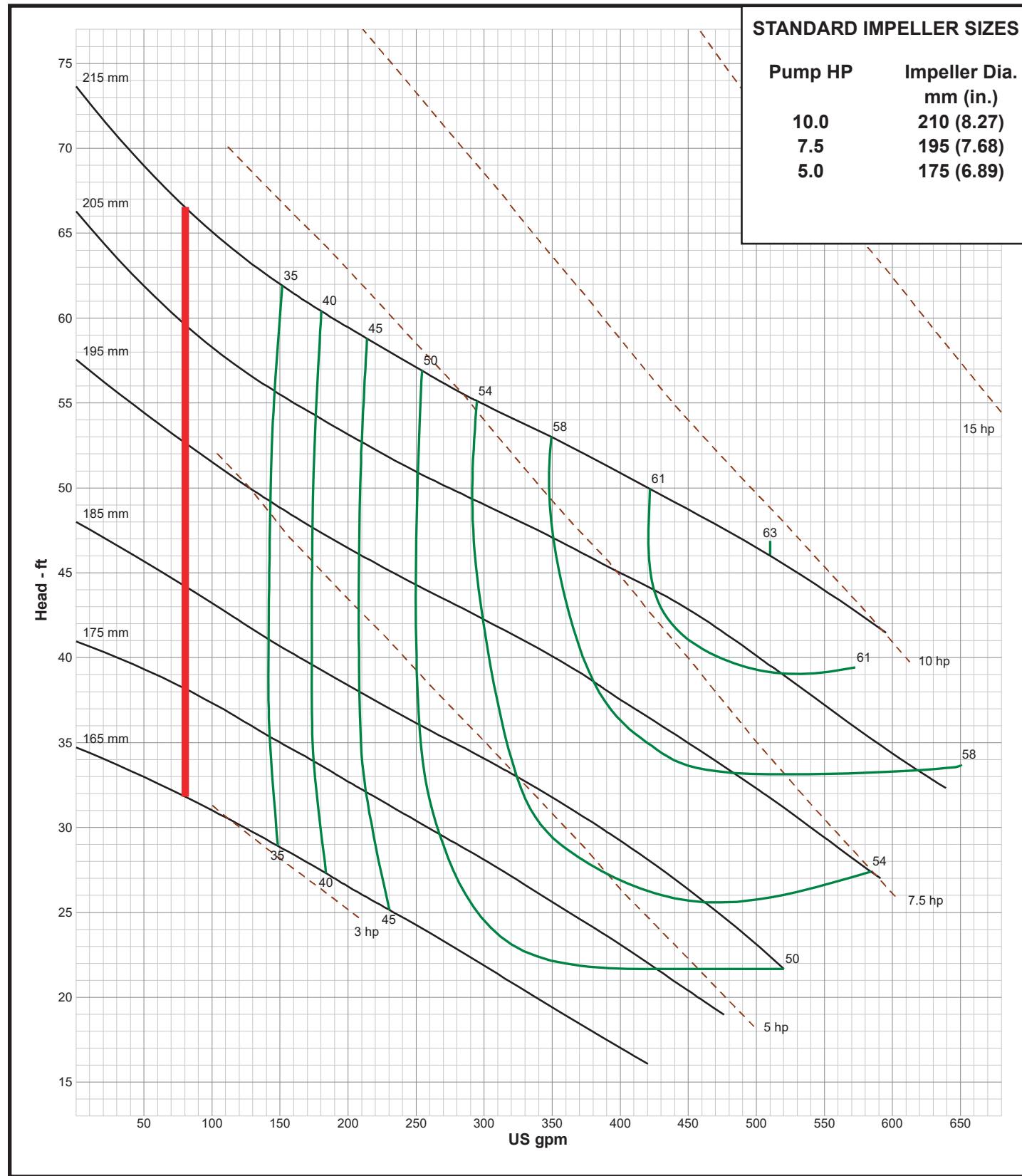
Performance Curve

5 - 10HP, 1750RPM, 60Hz, 18 Frame

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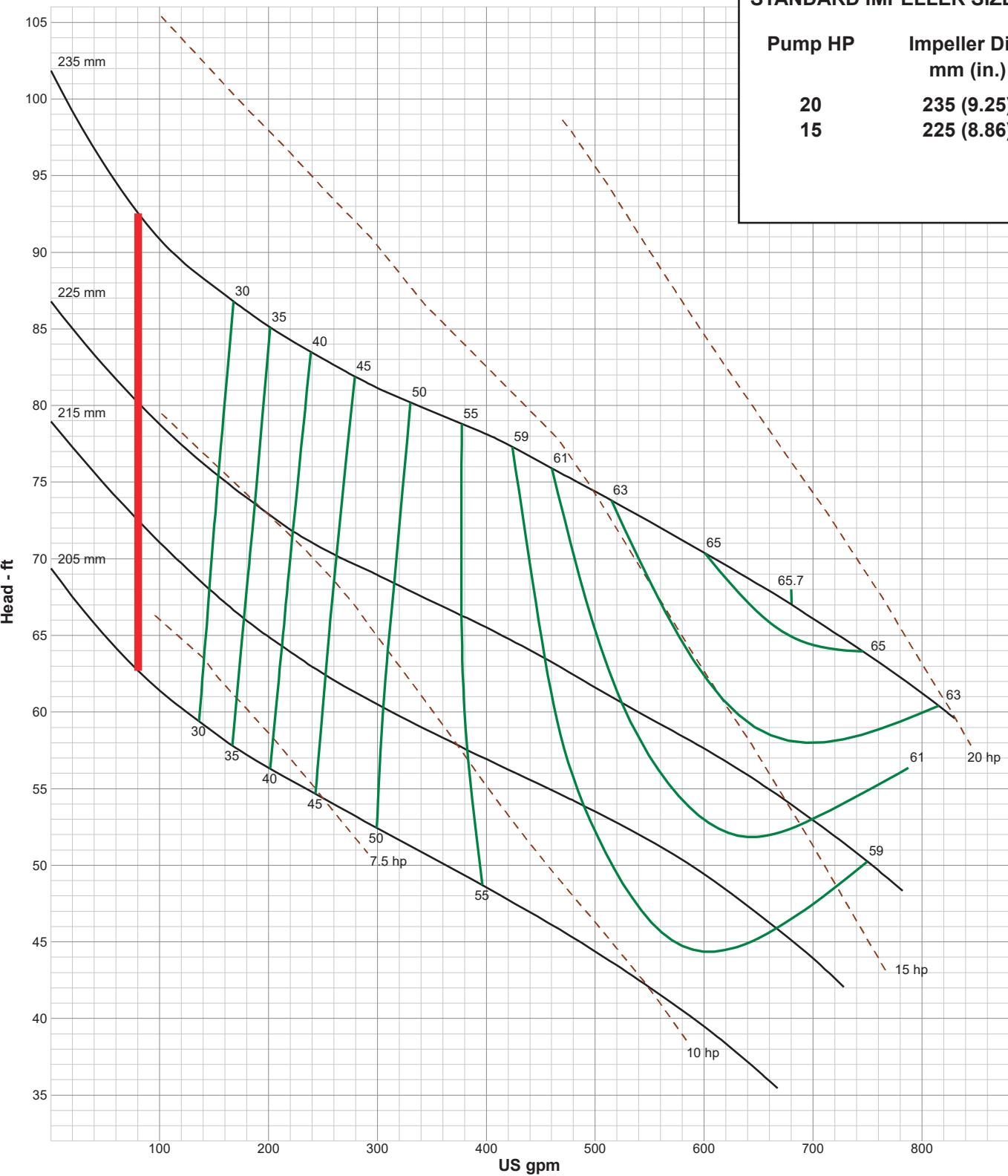
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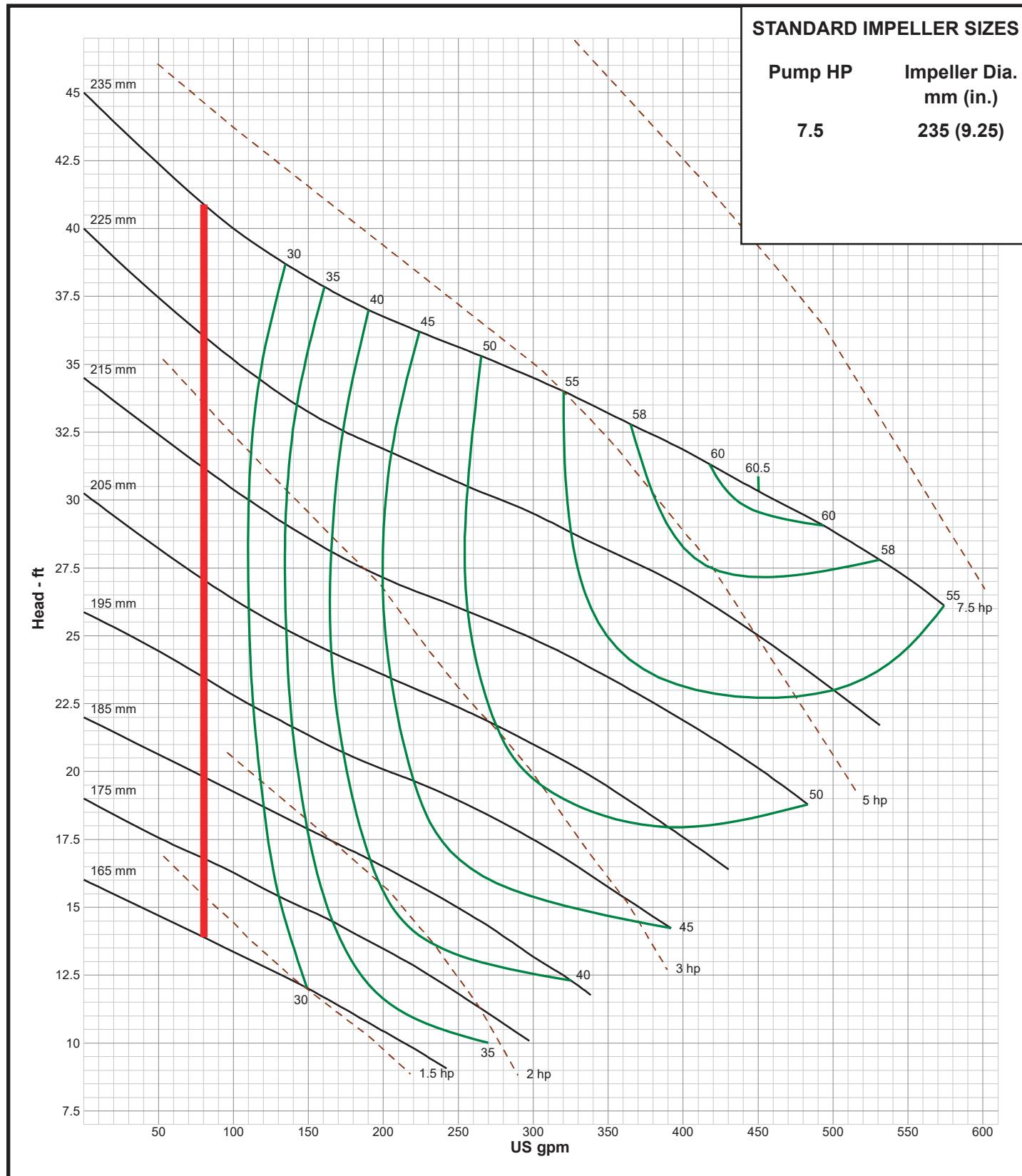
Series 4SCDG

Performance Curve
7.5HP, 1150RPM, 60Hz

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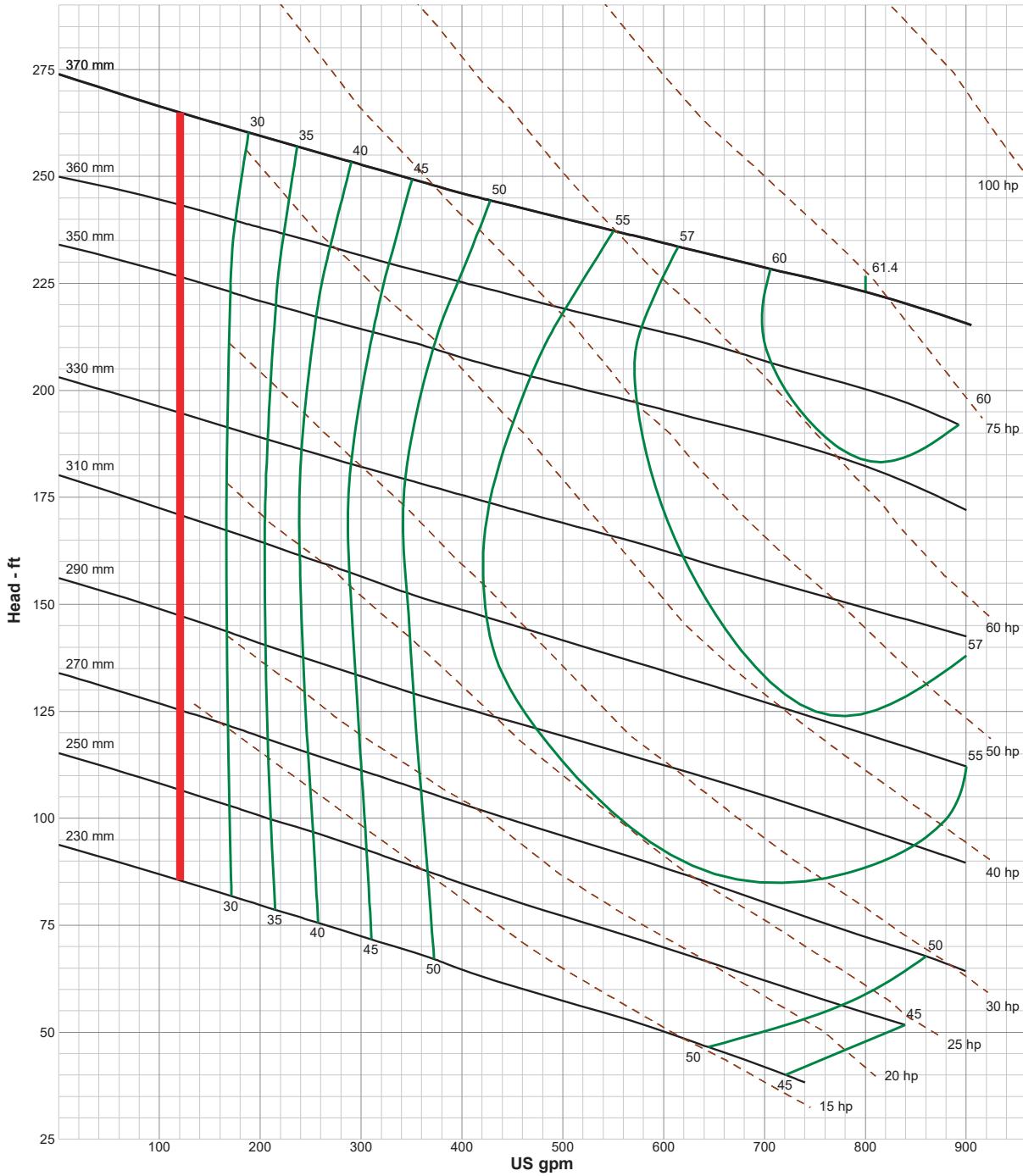
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SITHE Submersible Chopper Pumps

STANDARD IMPELLER SIZES

Pump HP	Impeller Dia. mm (in.)	Pump HP	Impeller Dia. mm (in.)	Pump HP	Impeller Dia. mm (in.)
100	370 (14.57)	50	315 (12.40)	25	250 (9.84)
75	360 (14.17)	40	290 (11.42)	20	235 (9.25)
60	335 (13.19)	30	265 (10.43)	15	*

* Select impeller diameter when ordering



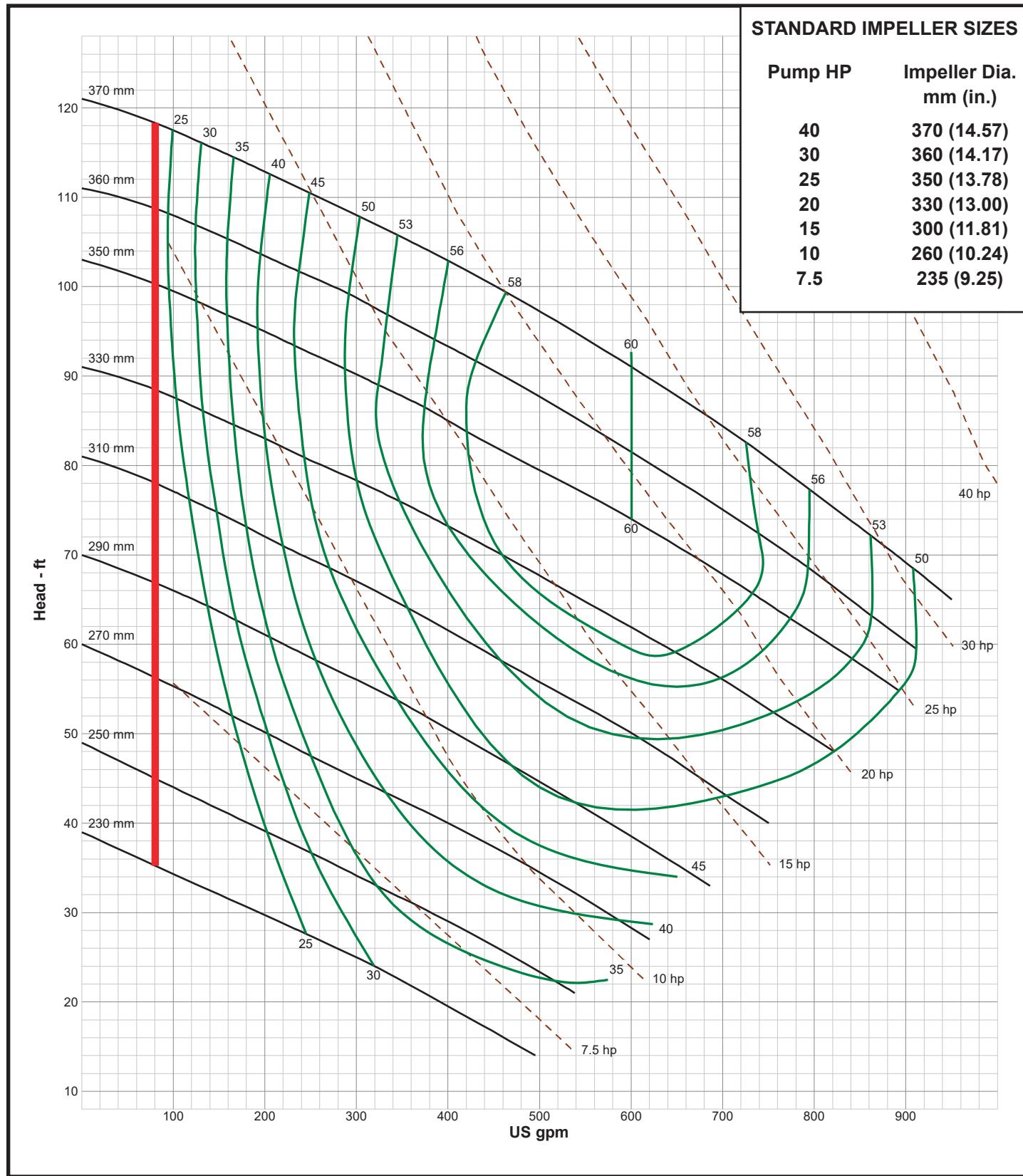
Series 4SCDI

Performance Curve
7.5 - 40HP, 1150RPM, 60Hz

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