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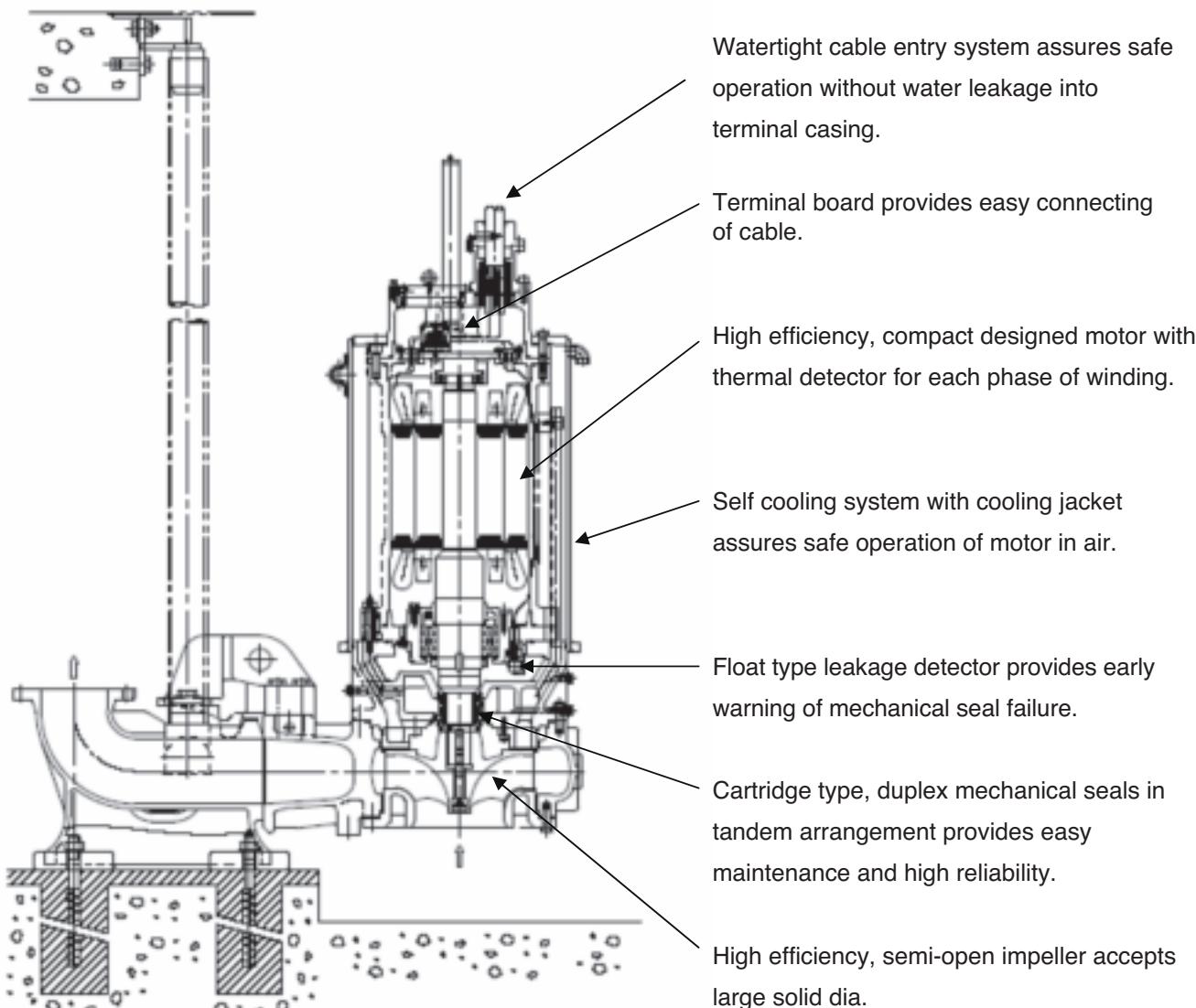
Contents

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| Section                      | Page |
|------------------------------|------|
| Features                     | 2    |
| Specifications               | 10   |
| Model Designation            | 16   |
| Impeller Design              | 18   |
| Material Specifications      | 19   |
| Selection Chart              | 21   |
| Performance Curves           | 23   |
| Dimension Drawings           | 41   |
| Quick Discharge Connector    | 67   |
| Sectional View               | 68   |
|                              |      |
| Motor Data                   |      |
| Specifications               | 76   |
| Electrical Data              | 77   |
| Cable Data                   | 80   |
| Wiring Diagrams              | 81   |
|                              |      |
| Technical Information        |      |
| Mechanical Seal              | 83   |
| Cable Entry - Sectional View | 85   |
| Thermal Detector             | 86   |
| Leakage Detector             | 87   |
| Paint Specifications         | 89   |
| General                      | 90   |

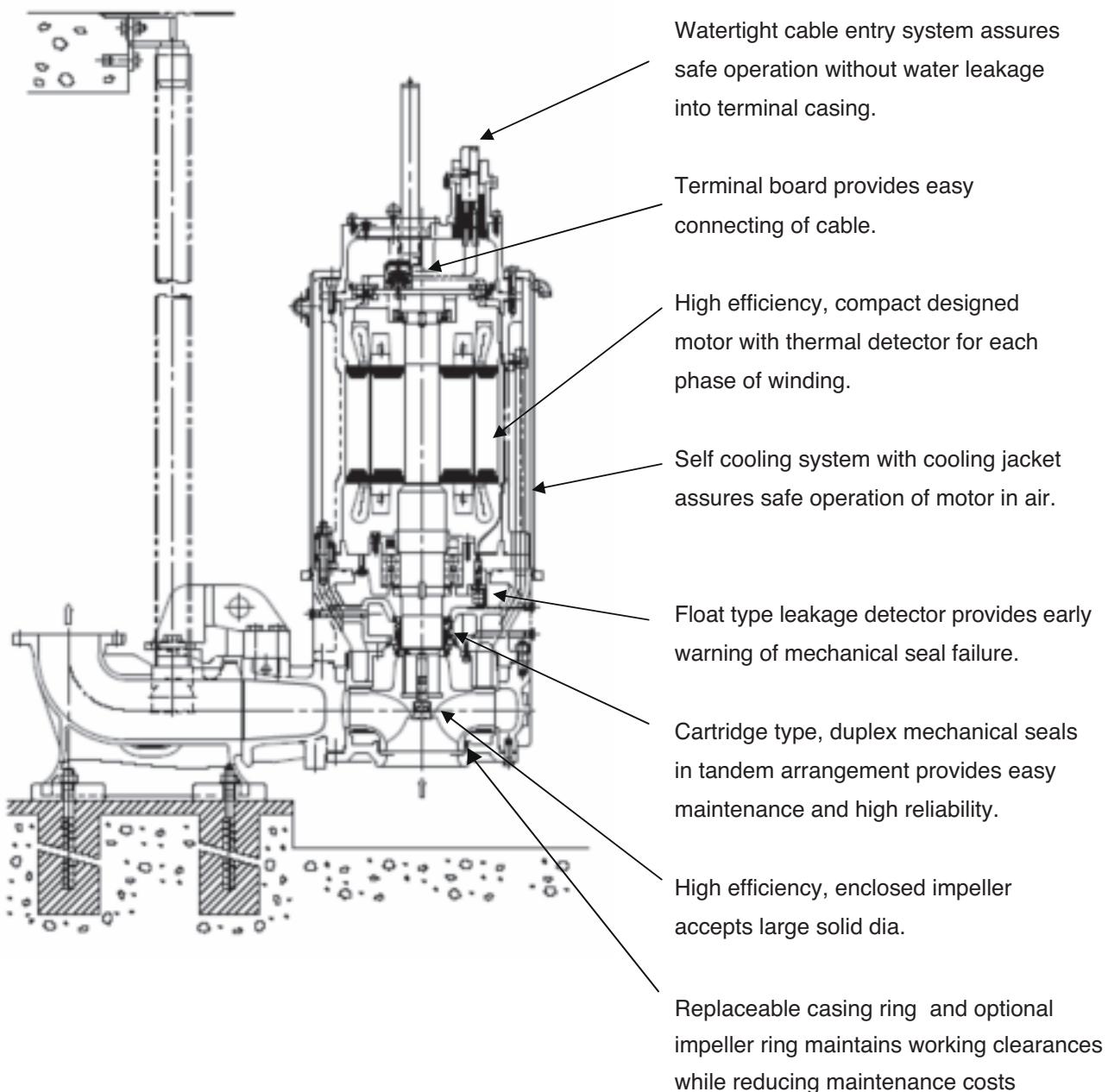
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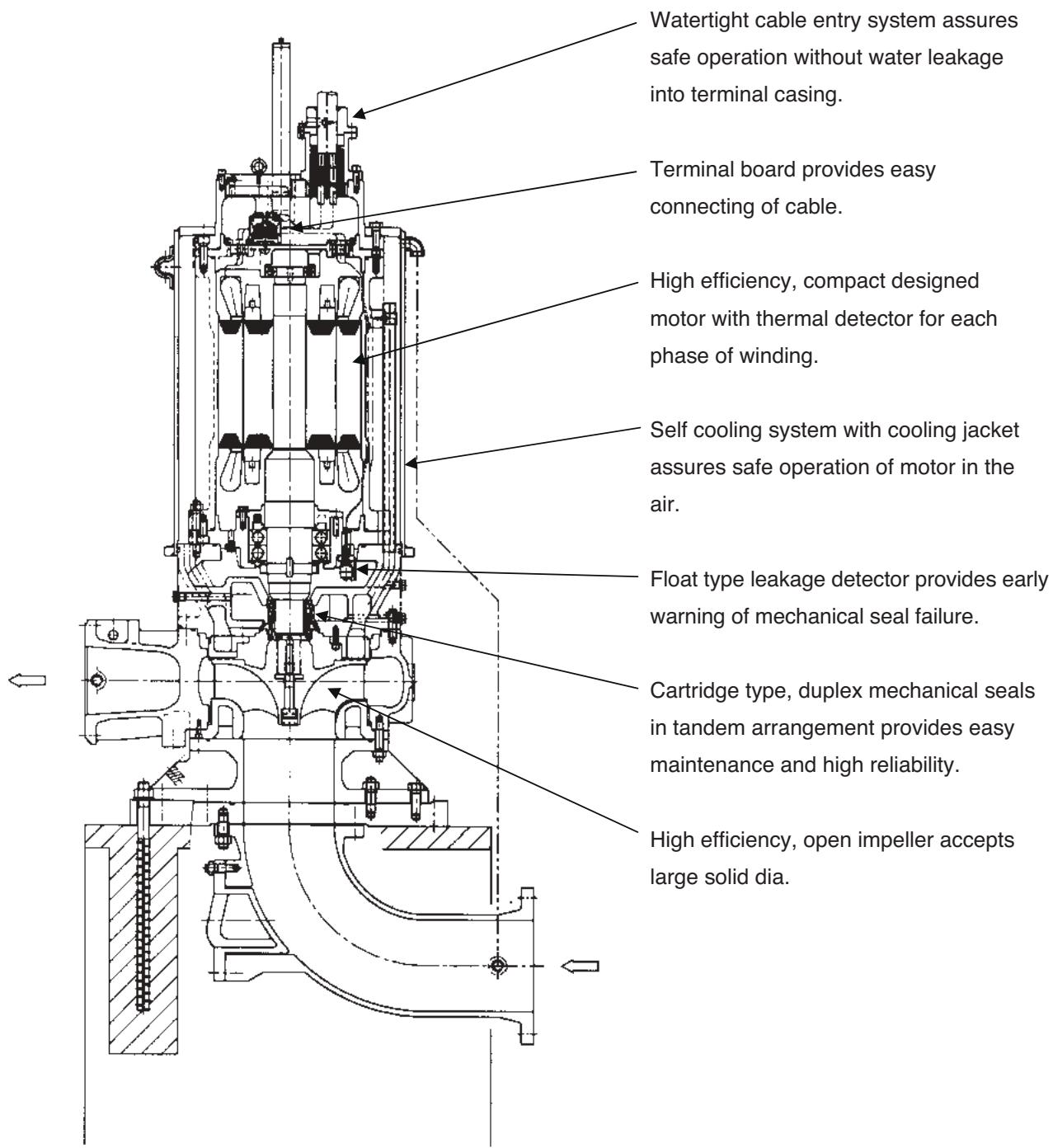


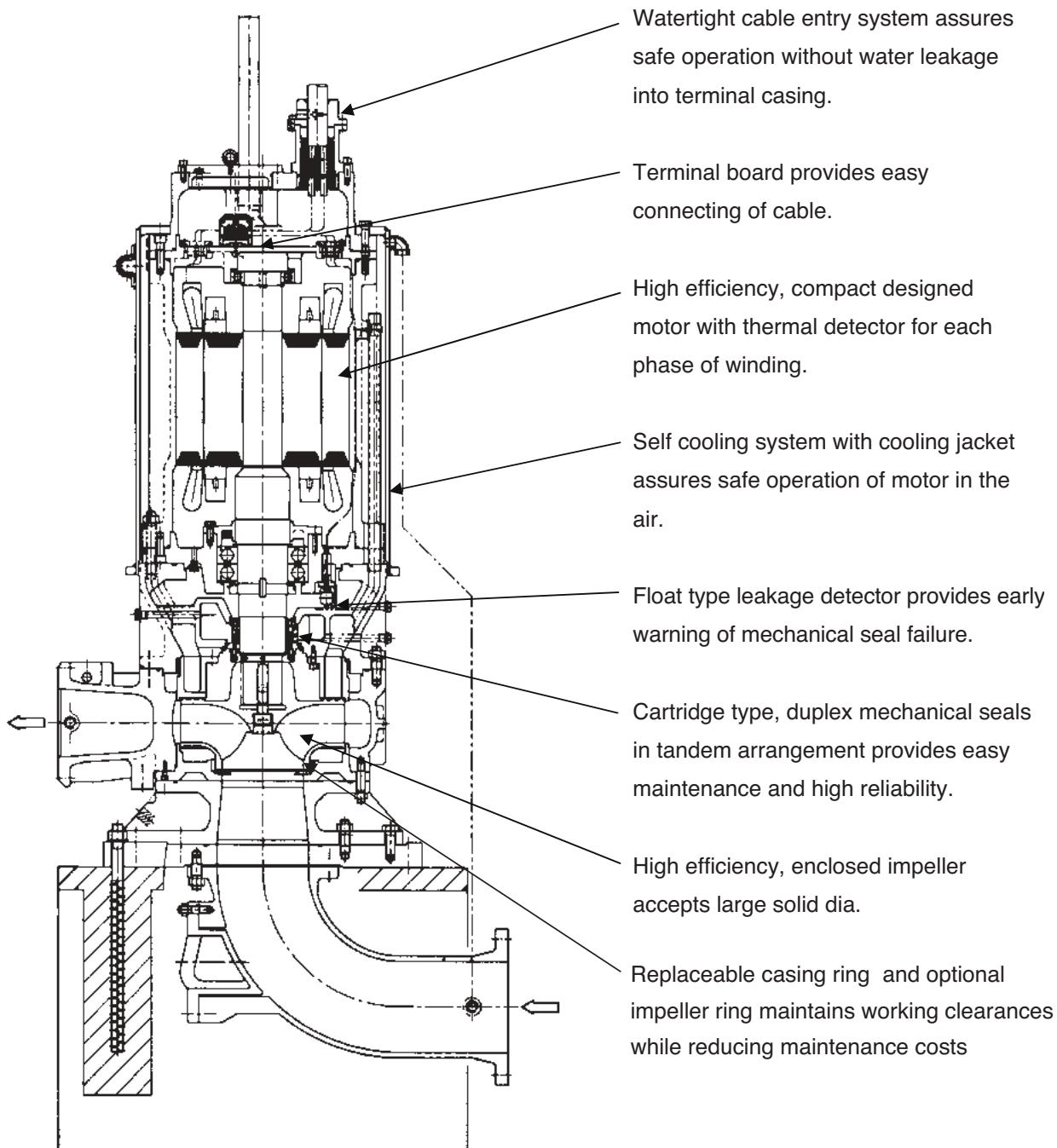
**Features - DSC4****Semi-open Impeller****Typical Construction (Semi-open Impeller)**

**Features - DSC4**

## Enclosed Impeller

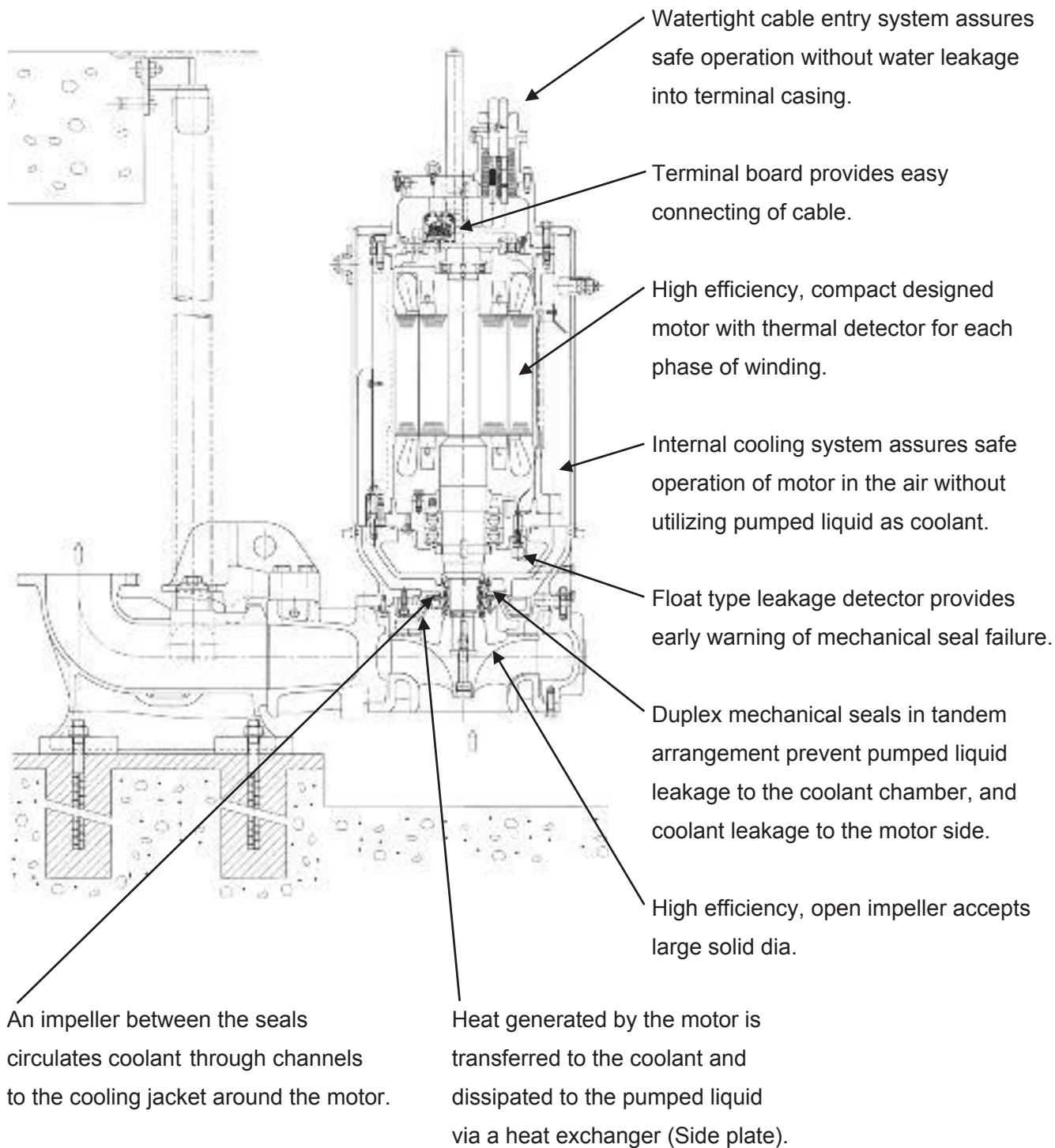
**Typical Construction (Enclosed Impeller)**

**Features - DSCA4****Semi-open Impeller****Typical Construction (Semi-open Impeller)**

**Features - DSCA4****Enclosed Impeller****Typical Construction (Enclosed Impeller)**

## Features - DSC4C - 4P/6P 50-145HP Models

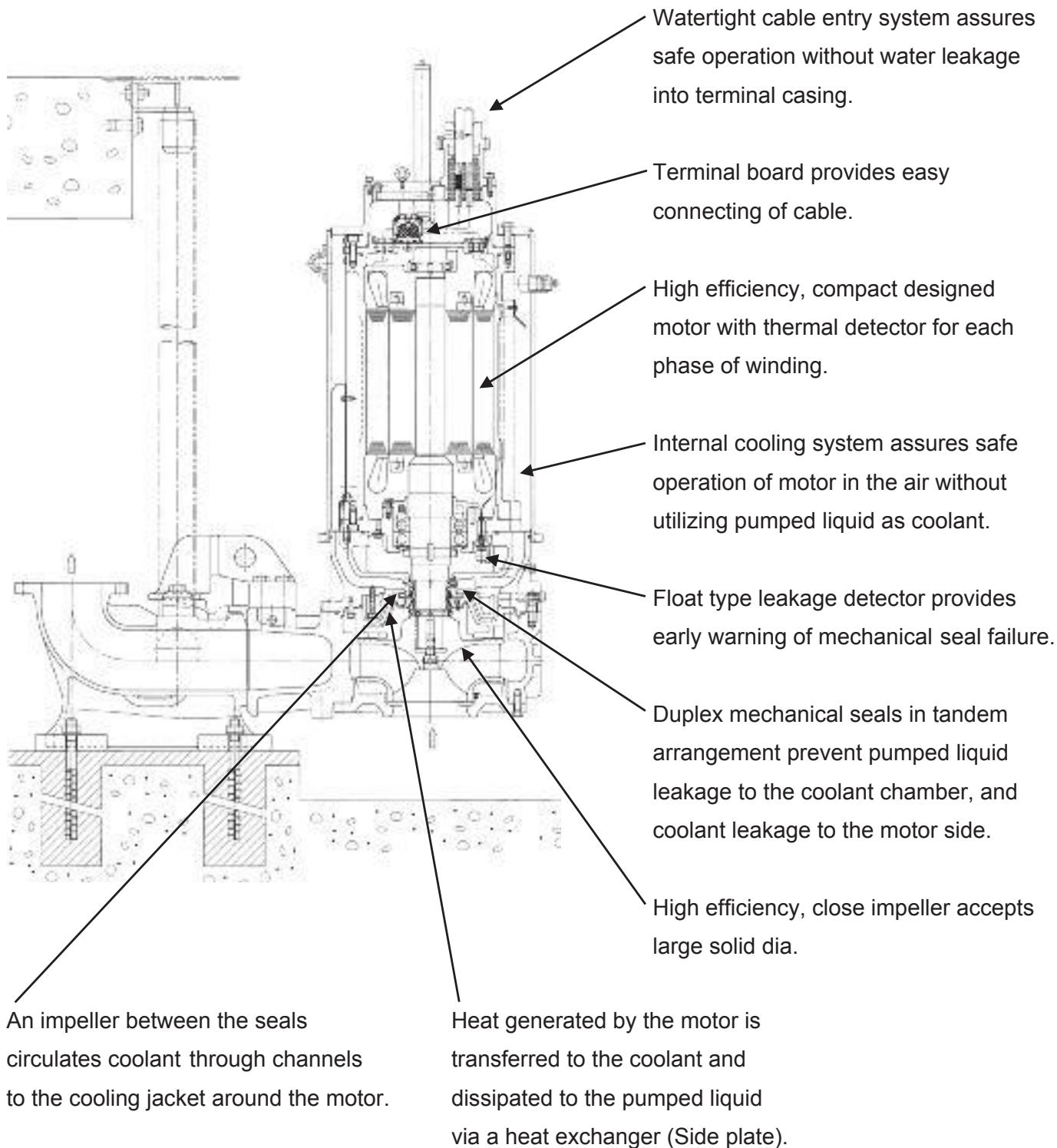
Semi-open Impeller (ICS option)



## Typical Construction (Semi-open Impeller)

## Features - DSC4C - 4P/6P 50-145HP Models

Enclosed Impeller (ICS option)



## Typical Construction (Enclosed Impeller)



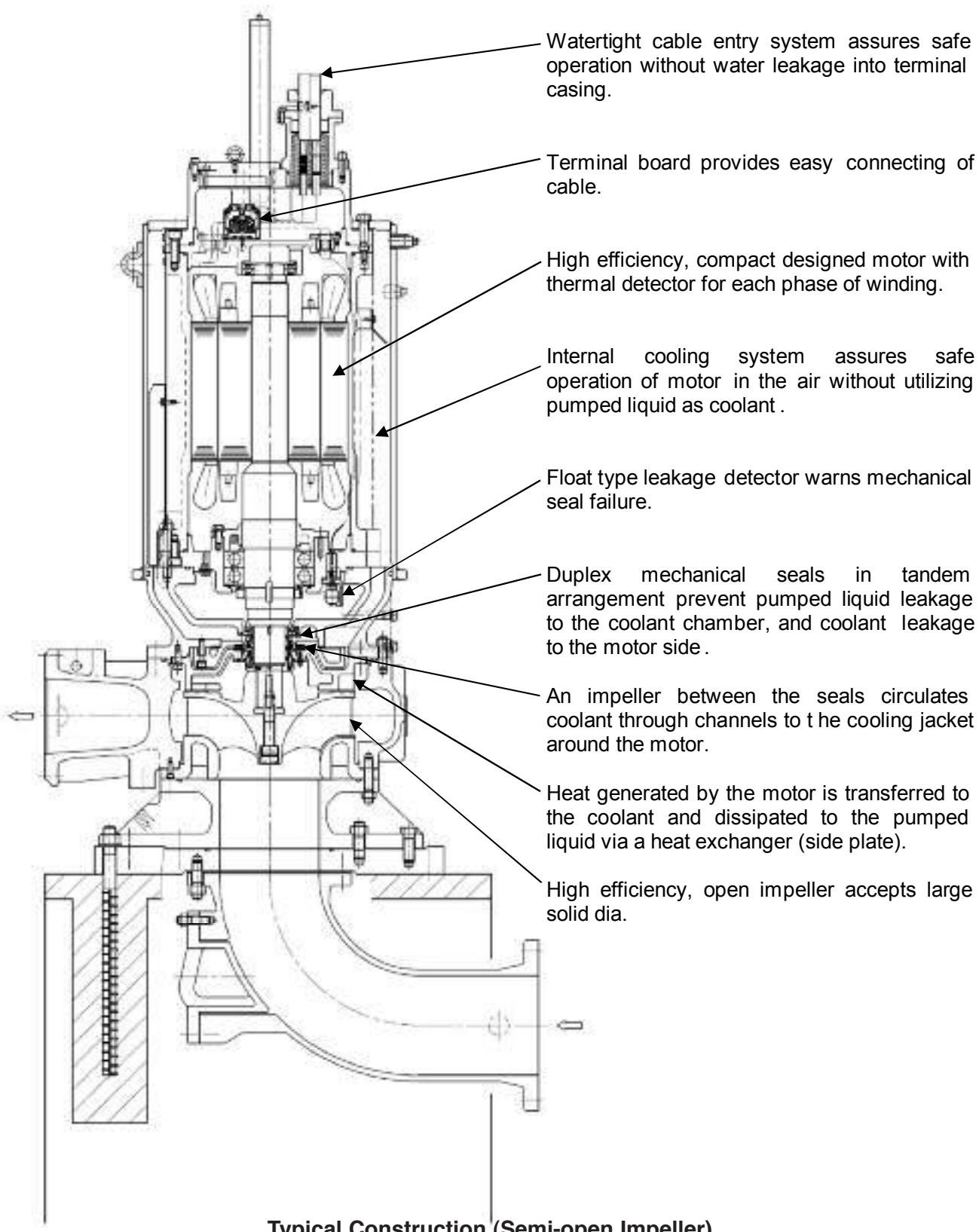
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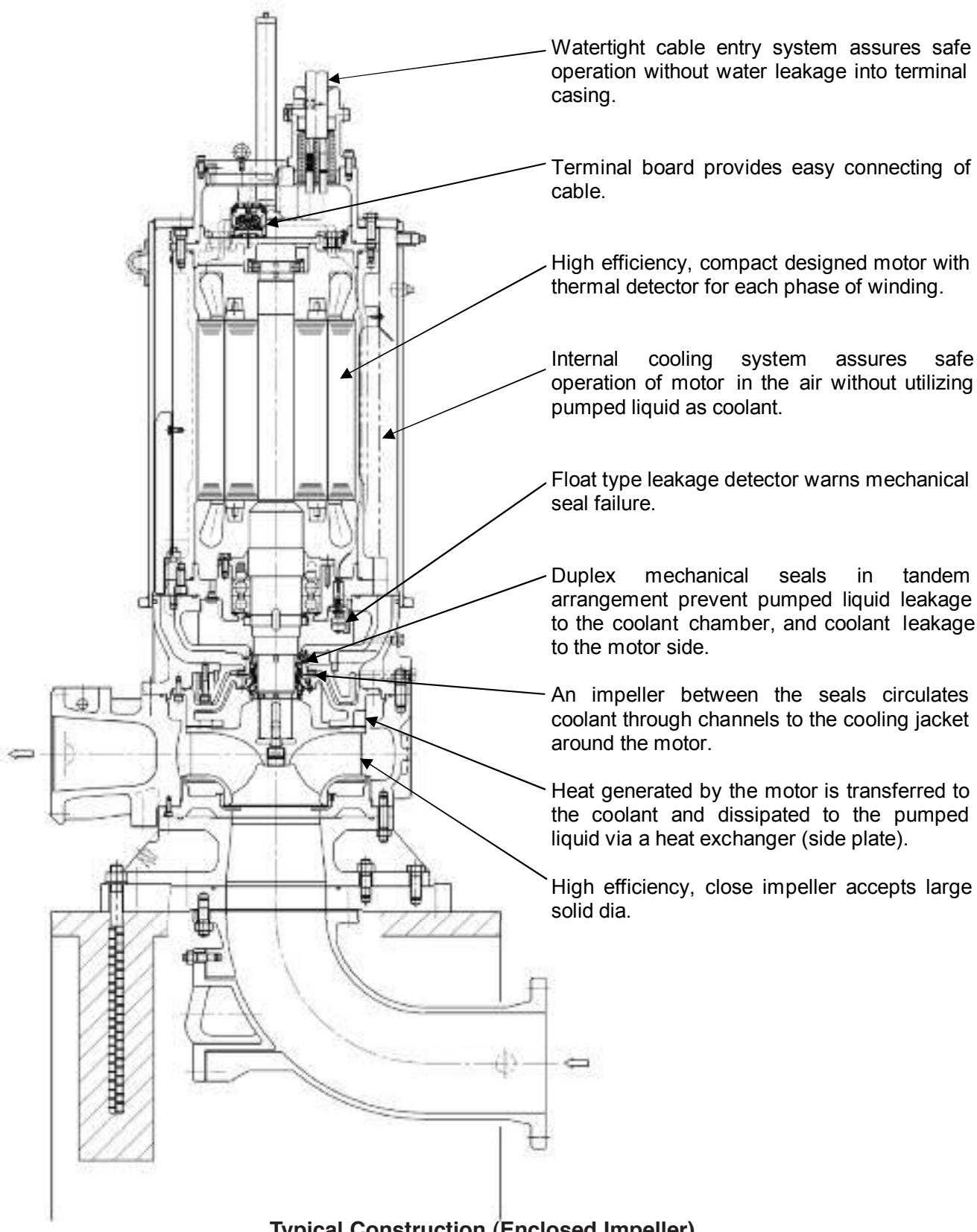
**Features – DSCA4C – 4P/6P 50-145HP Models**

Semi-open Impeller (ICS option)



**Features – DSCA4C – 4P/6P 50-145HP Models**

Enclosed Impeller (ICS option)



**Standard Specifications**

|              | STANDARD SPECIFICATIONS                                     |  | OPTIONAL  |
|--------------|---|--|---|
| Design       | Capacity  | 530 to 12500 USGPM (2 to 48 m³/min)  |   |
|              | Total head  | 12 to 300 ft (3.8 to 91 m)   |   |
|              | Liquid temp.  | 32°F to 104°F (0° to 40°C)   |   |
|              | Max. submergence  | 114 ft (35 m)  |   |
| Materials    | Casing  | Cast Iron  |   |
|              | Impeller  | Cast Iron  |   |
|              | Casing Ring   | 420 Stainless Steel (enclosed impeller models)   |   |
|              | Shaft   | 420 Stainless Steel (4P/6P 50-145HP models)<br>403Q Stainless Steel (4P/6P/8P 175-245HP,<br>10P 50-145HP models)   |   |
|              | Motor Frame   | Cast Iron  |   |
|              | Cooling Jacket  | Steel  |   |
|              | Fasteners   | 304 Stainless Steel  |   |
| Construction | Impeller  | Semi-open/Enclosed   | Impeller ring<br>(enclosed impeller models)   |
|              | Shaft seal  | Cartridge type duplex mechanical seals<br>in tandem arrangement<br>Upper: Carbon/Ceramic<br>Lower: Silicon Carbide/Silicon Carbide   | Consult factory for optional<br>seal material   |
|              | Bearing   | Grease lubricated ball bearing   |   |
|              | Motor   | Air filled water tight electric motor<br>with cooling jacket<br>Starting method: D.O.L.<br>60 Hz, 460V<br>Built-in winding temperature detector<br>Built-in float type leak detector | FM Explosion proof Class 1,<br>Group C, D<br><br>Temp. detector for thrust bearing          |
|              | Mounting method   | Wet Pit: Quick discharge connector (QDC)<br>Dry Pit: with baseplate  |   |
|              | Cooling System  | Pumpage re-circulation   | Internal Cooling System (ICS)<br>Coolant: Propylen glycol solution<br>4P/6P 50-145HP models |
| Accessories  | 50 ft (15.24 m) water tight rubber insulated flexible cable |  | Consult factory for additional<br>cable lengths   |



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## Specifications – DSC4/DSC4C

#### A. General;

Provide FM explosion proof submersible sewage pumps suitable for continuous duty operation underwater without loss of watertight integrity to a depth of 114 feet. Pump system design shall include a guide rail system such that the pump will be automatically connected to the discharge piping when lowered into place. The pump shall be easily removable for inspection or service, requiring no bolts, nuts, or other fasteners to be disconnected, or the need for personnel to enter the wet well. The motor and pump shall be designed, manufactured, and assembled by the same manufacturer.

**B. Manufacturer:**

Ebara International Corporation

### C. Pump Characteristics:

Pumps shall conform to the following requirements:

#### Number of units

Number of units  
Design flow (gpm)

Design flow (gpm)

Design TPH (lb)

RPM

KI M  
Maximum HP

Minimum hydraulic efficiency at design (%)

Minimum hydraulic efficiency at design (%) Voltage/Hz 160V / 60

Voltage/Hz Phase

## D Pump Construction:

**Pump Construction:** All major parts of the pumping unit(s) including casing, intermediate casing, impeller, motor frame shall be manufactured from gray cast iron, ASTM A-48 Class 35. Castings shall have smooth surfaces devoid of blow holes or other casting irregularities. Casing design shall be centerline discharge with a large radius on the cut water to prevent clogging. All exposed bolts and nuts shall be 304 stainless steel. All mating surfaces of major components shall be machined and fitted with NBR o-rings where watertight sealing is required. Machining and fitting shall be such that sealing is accomplished by automatic compression of o-rings in two planes and o-ring contact is made on four surfaces without the requirement of specific torque limits. Surfaces in contact with the pumpage shall be surface prepared to SSPC-SP-10 and coated with one (1) coat of zinc rich primer paint and two (2) coats of coal tar epoxy paint. The internal surface of the motor shall be surface prepared to SSPC-SP-3 and coated with one (1) coat of zinc rich primer paint.

## 1. Impellers

- a. The impeller shall be a non-clog, enclosed, multi-vane mixed flow type. It shall be balanced and shall be designed for solids handling with a long thrulet without acute turns. The inlet edge of the impeller vanes shall be angled toward the impeller periphery so as to facilitate the release of objects that might otherwise clog the pump. The design shall also include back pump out vanes to reduce the pressure and entry of foreign materials into the mechanical seal area. Impellers shall be direct connected to the motor shaft with a slip fit, key driven, and secured with an impeller nut. A replaceable casing ring shall be provided, manufactured of AISI 420SS material, to maintain working clearances and hydraulic efficiencies. The design shall include an optional, replaceable impeller ring manufactured of AISI 304SS material to maintain working clearances and hydraulic efficiencies.
  - b. The impeller shall be a mixed flow multi-vane semi-open design. It shall be balanced and shall be designed for solids handling with a long thrulet without acute turns. The inlet edge of the impeller vanes shall be angled toward the impeller periphery so as to facilitate the release of objects that might otherwise clog the pump. The design shall also include back pump out vanes to reduce the pressure and entry of foreign materials into the mechanical seal area. Impellers shall be direct connected to the motor shaft with a slip fit, key driven and secured with an impeller bolt. The design shall include a replaceable cast iron suction cover. The suction cover shall be designed such that it may be adjusted to maintain working clearances and hydraulic efficiencies.

## 2. Mechanical Seals

The mechanical seal system shall be a cartridge mounted double mechanical seal in a tandem



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Specifications – DSC4/DSC4C

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arrangement. Each seal shall be positively driven and act independently with its own spring system. The upper seal operates in an oil bath, while the lower seal is lubricated by the oil from between the shaft and the seal faces, and in contact with the pumpage. The oil filled seal chamber shall be designed to prevent over-filling and include an anti-vortexing vane to insure proper lubrication of both seal faces. Lower face materials shall be Silicon Carbide, upper faces Carbon vs. Ceramic. NBR elastomers shall be provided in the oil chamber and viton elastomers where in contact with the pumpage. The mechanical seal hardware shall be 304SS. Seal system shall not rely on pumping medium for lubrication.

**E. Motor Construction:**

The pump motor shall be FM Explosion Proof, Class 1, Division 1, Groups C and D. The design shall be an air filled induction type with squirrel cage rotor, shell type design, built to NEMA MG-1, Design B specifications. Stator windings shall be copper, insulated with moisture resistant Class H insulation, rated for 356°F. The stator shall be dipped and baked three times in Class H varnish and heat shrunk fitted into the stator housing. Rotor bars and short circuit rings shall be manufactured of cast aluminum. The motor junction area shall include a terminal strip for wire connections and shall be sealed with gaskets and o-rings from the motor stator housing. The motor shaft shall be one piece ANSI420SS for 4 pole and 6 pole 50hp to 145hp, ANSI403Q for 4 pole, 6 pole, and 8 pole 175hp to 245hp and 10 pole 50hp to 145hp, rotating on two permanently lubricated ball bearings designed for a minimum B-10 life of up to 100,000 hours. Motor service factor shall be 1.15 and capable of up to 15 starts per hour for 4 pole and 6 pole 50hp to 145hp, 10 starts per hour for 4 pole, 6 pole, and 8 pole 175hp to 245hp and 10 pole 50hp to 145hp. The motor shall be designed for continuous duty pumping at a maximum sump temperature of 104°F. Voltage and frequency tolerances shall be a maximum 10/5% respectively. A thrust bearing RTD temperature monitor shall be provided. (Thrust bearing RTD is optional) Motor over temperature protection shall be provided by three miniature thermal protectors (one per phase) embedded in the windings. Mechanical seal failure protection shall be provided by a mechanical float switch located in a chamber above the seal. This switch shall be comprised of a magnetic float that actuates a dry reed switch encapsulated within the stem. Should the mechanical seal fail, liquid shall be directed into the float chamber, in which the rising liquid activates the switch opening the normally closed circuit. The float switch components shall be 316SS material. The motor shall be non-overloading over the entire specified range of operation and be able to operate at full load continuously with the motor unsubmerged.

Power cable jacket shall be manufactured of an oil resistant chloroprene rubber material, designed for submerged applications. Cable shall be watertight to a depth of a least 114'. The cable entry system shall comprise of primary, secondary, and tertiary sealing methods. The primary seal shall be achieved by a cylindrical elastomeric grommet compressed between the cable housing and cable gland. Secondary sealing is accomplished with a compressed o-rings made of NBR material. Compression and subsequent sealing shall preclude specific torque requirements. The system shall also include tertiary sealing to prevent leakage into the motor housing due to capillary action through the insulation if the cable is damaged or cut. The cable wires shall be stripped and embedded in epoxy within the cable gland. This provides a dead end for leakage through the cable insulation into the motor junction area. The cable entry system shall be the same for both the power and control cables.

**1. Cooling**

- a. The motor design shall also include an integral cooling jacket constructed of steel, A283, Grade D. The cooling medium shall be the pumpage. Re-circulation through the jacket shall be achieved by discharging the pumpage into the cooling jacket from the periphery, high pressure area, of the impeller, and returning it into the low pressure behind the impeller, at the hub. Riser pipes within the jacket shall be utilized to facilitate circulation. The cooling passage ways shall be non-clogging by virtue of the dimensions; screening solids from entering the jacket. The jacket shall have external NPT connections to be used for external cooling as an option, as well as for venting the jacket. The jacket cooling system shall provide heat dissipation for the motor whether the unit is submerged or operating in air.
- b. The motor design shall include a propylene glycol closed loop integral cooling system. The system shall consist of a steel cooling jacket. An impeller, integral to the cooling system and driven by the pump shaft, shall provide the necessary circulation of the cooling liquid through the jacket. The



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Specifications – DSC4/DSC4C

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coolant shall be cooled using a heat exchanger mounted in the base of the motor housing. The jacket cooling system shall provide heat dissipation for the motor whether the unit is submerged or operating in air.

**F. Guide Rail system:**

The QDC shall be manufactured of cast iron, ASTM A48 Class 35. It shall be designed to adequately support the guide rails, discharge piping, and pumping unit under both static and dynamic loading conditions with support legs that are suitable for anchoring it to the wetwell floor. The face of the inlet QDC flange shall be perpendicular to the floor of the wetwell. The discharge flange of the QDC shall conform to ANSI B16.1 Class 125.

The pump design shall include an integral self-aligning sliding bracket. Sealing of the pumping unit to the QDC shall be accomplished by a single, linear, downward motion of the pump. The entire weight of the pump unit shall be guided to and wedged tightly against the inlet flange of the QDC, making metal to metal contact with the pump discharge forming a seal without the use of bolts, gaskets or o-rings.

Design requires two (2) 304SS schedule 40 guide rails sized to mount directly to the quick discharge connector, QDC, at the floor of the wetwell and to a guide rail bracket at the top of the wetwell below the hatch opening, (refer to project drawings). Intermediate guide brackets are recommended for rail lengths over 15 feet.

Guide rails are not part of the pump package and shall be supplied by others.

Lifting chain, either galvanized or stainless steel, is suitable for removing and installing the pump unit.



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Specifications – DSCA4/DSCA4C

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**A. General:**

Provide FM explosion proof dry pit submersible sewage pumps suitable for continuous duty operation underwater without loss of watertight integrity to a depth of 114 feet. Pump system design shall include permanently mounted suction elbow on which the pump/motor unit is mounted. The motor and pump shall be designed, manufactured, and assembled by the same manufacturer.

**B. Manufacturer:**

Ebara International Corporation

**C. Pump Characteristics:**

Pumps shall conform to the following requirements:

Number of units

Design flow (gpm)

Design TDH (ft)

Minimum shut off head (ft)

RPM

Maximum HP

Minimum hydraulic efficiency at design (%)

460V / 60

Voltage/Hz

3

Phase

**D. Pump Construction:**

All major parts of the pumping unit(s) including casing, intermediate casing, impeller, motor frame, suction elbow shall be manufactured from gray cast iron, ASTM A-48 Class 35. Castings shall have smooth surfaces devoid of blow holes or other casting irregularities. Casing design shall be centerline discharge with a large radius on the cut water to prevent clogging. Units shall be furnished with suction and discharge elbows with 125 lb. flat face ANSI flange. All exposed bolts and nuts shall be 304 stainless steel. All mating surfaces of major components shall be machined and fitted with NBR o-rings where watertight sealing is required. Machining and fitting shall be such that sealing is accomplished by automatic compression of o-rings in two planes and o-ring contact is made on four surfaces without the requirement of specific torque limits. Surfaces in contact with the pumpage shall be surface prepared to SSPC-SP-10 and coated with two (2) coats of coal tar epoxy paint. The internal surface of the motor shall be surface prepared to SSPC-SP-3 and coated with one (1) coat of zinc rich primer paint. Exposed surfaces shall be surface prepared to SSPC-SP-10 and coated with one (1) coat of zinc chromate primer and one (2) coats of coal tar epoxy paint.

**1. Impellers**

- a. The impeller shall be a non-clog, enclosed, multi-vane mixed flow type. It shall be balanced and shall be designed for solids handling with a long thrulet without acute turns. The inlet edge of the impeller vanes shall be angled toward the impeller periphery so as to facilitate the release of objects that might otherwise clog the pump. The design shall also include back pump out vanes to reduce the pressure and entry of foreign materials into the mechanical seal area. Impellers shall be direct connected to the motor shaft with a slip fit, key driven, and secured with an impeller nut. A replaceable casing ring shall be provided, manufactured of AISI 420SS material, to maintain working clearances and hydraulic efficiencies. The design shall include an optional, replaceable impeller ring manufactured of AISI 304SS material to maintain working clearances and hydraulic efficiencies.
- b. The impeller shall be a mixed flow multi-vane semi-open design. It shall be balanced and shall be designed for solids handling with a long thrulet without acute turns. The inlet edge of the impeller vanes shall be angled toward the impeller periphery so as to facilitate the release of objects that might otherwise clog the pump. The design shall also include back pump out vanes to reduce the pressure and entry of foreign materials into the mechanical seal area. Impellers shall be direct connected to the motor shaft with a slip fit, key driven and secured with an impeller bolt. The design shall include a replaceable cast iron suction cover. The suction cover shall be designed such that it may be adjusted to maintain working clearances and hydraulic efficiencies.

**2. Mechanical Seals**

The mechanical seal system shall be a cartridge mounted double mechanical seal in a tandem arrangement. Each seal shall be positively driven and act independently with its own spring system. The upper seal operates in an oil bath, while the lower seal is lubricated by the oil from between the shaft and



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Specifications – DSCA4/DSCA4C

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the seal faces, and in contact with the pumpage on the outside. The oil filled seal chamber shall be designed to prevent over-filling and include an anti-vortexing vane to insure proper lubrication of both seal faces. Lower face materials shall be Silicon Carbide, upper faces carbon vs. ceramic. NBR elastomers shall be provided in the oil chamber and viton elastomers where in contact with the pumpage. The mechanical seal hardware shall be 304SS. Seal system shall not rely on pumping medium for lubrication.

**E. Motor Construction:**

The pump motor shall be FM Explosion Proof, Class 1, Division 1, Groups C, D. The design shall be an air filled induction type with a squirrel cage rotor, shell type design, built to NEMA MG-1, Design B specifications. Stator windings shall be copper, insulated with moisture resistant Class H insulation, rated for 356°F. The stator shall be dipped and baked three times in Class H varnish and heat shrunk fitted into the stator housing. Rotor bars and short circuit rings shall be manufactured of cast aluminum. The motor junction area shall include a terminal strip for wire connections and shall be sealed with gaskets and o-rings from the motor stator housing. The motor shaft shall be one piece ANSI420SS for 4 pole and 6 pole 50hp to 145hp, ANSI403Q for 4 pole, 6 pole, and 8 pole 175hp to 245hp and 10 pole 50hp to 145hp, rotating on two permanently lubricated ball bearings designed for a minimum B-10 life of up to 100,000 hours. Motor service factor shall be 1.15 and capable of up to 15 starts per hour. The motor shall be designed for continuous duty pumping at a maximum sump temperature of 104°F. Voltage and frequency tolerances shall be a maximum 10 / 5% respectively. A thrust bearing RTD temperature monitor shall be provided. (Thrust bearing RTD is optional) Motor over temperature protection shall be provided by three miniature thermal protectors (one per phase) embedded in the windings. Mechanical seal failure protection shall be provided by a mechanical float switch located in a chamber above the seal. This switch shall be comprised of a magnetic float that actuates a dry reed switch encapsulated within the stem. Should the mechanical seal fail, liquid shall be directed into the float chamber, in which the rising liquid activates the switch opening the normally closed circuit. The float switch components shall be 316SS material. The motor shall be non-overloading over the entire specified range of operation and be able to operate at full load continuously with the motor unsubmerged.

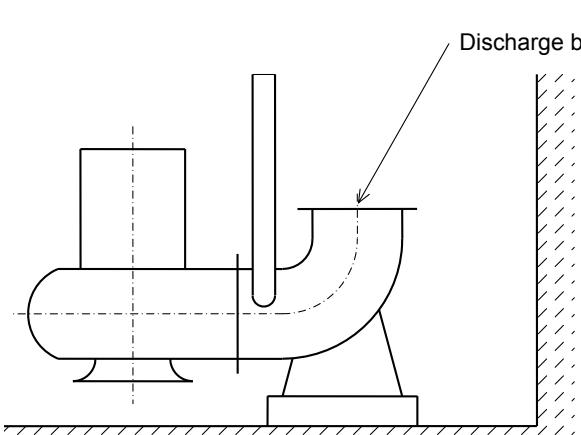
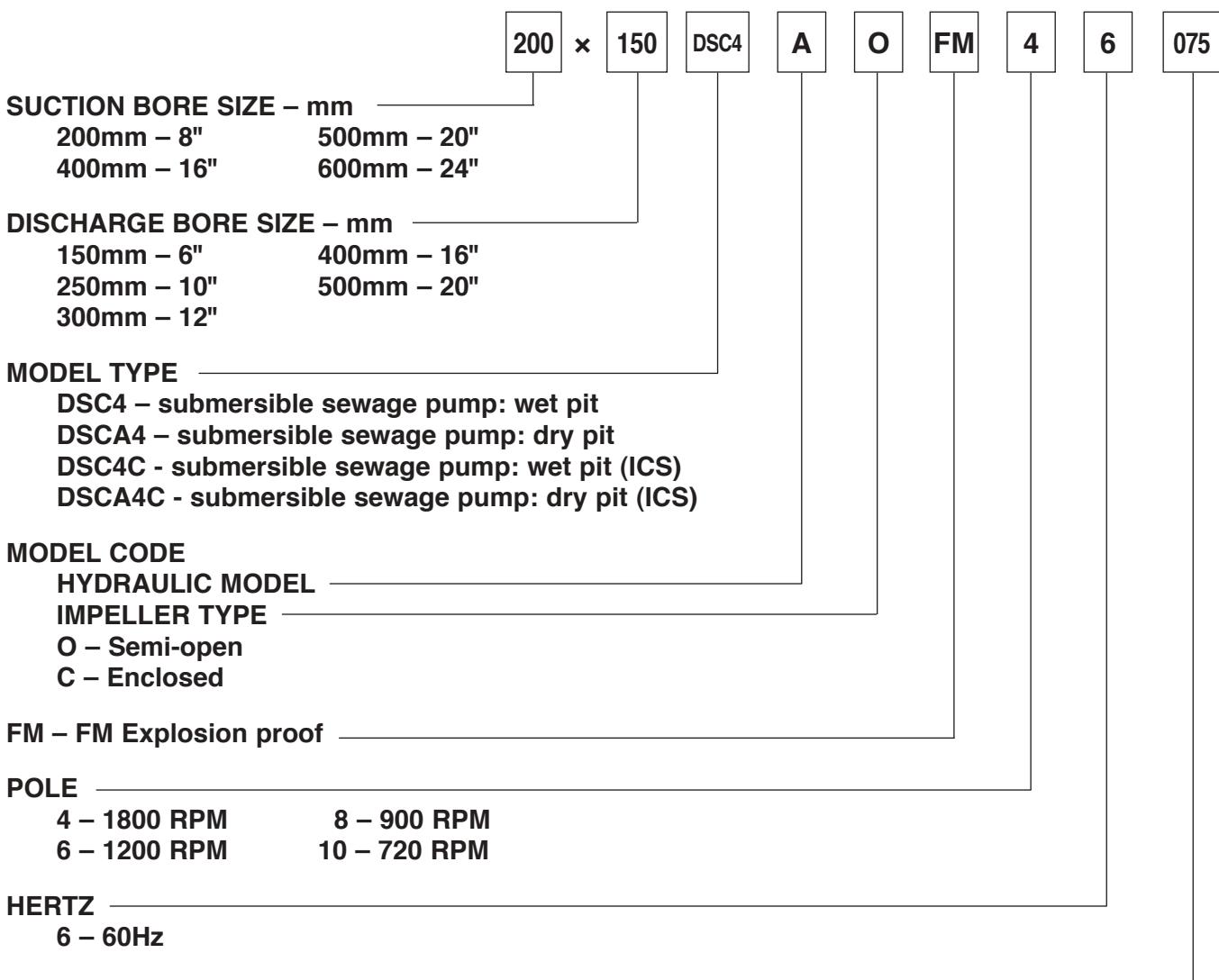
Power cable jacket shall be manufactured of an oil resistant chloroprene rubber material, designed for submerged applications. Cable shall be watertight to a depth of a least 114'. The cable entry system shall comprise of primary, secondary, and tertiary sealing methods. The primary seal shall be achieved by a cylindrical elastomeric grommet compressed between the cable housing and cable gland. Secondary sealing is accomplished with a compressed o-rings made of NBR material. Compression and subsequent sealing shall preclude specific torque requirements. The system shall

also include tertiary sealing to prevent leakage into the motor housing due to capillary action through the insulation if the cable is damaged or cut. The cable wires shall be cut, stripped, re-connected with a copper butt end connector, and embedded in epoxy within the cable gland. This provides a dead end for leakage through the cable insulation into the motor junction area. The cable entry system shall be the same for both the power and control cables.

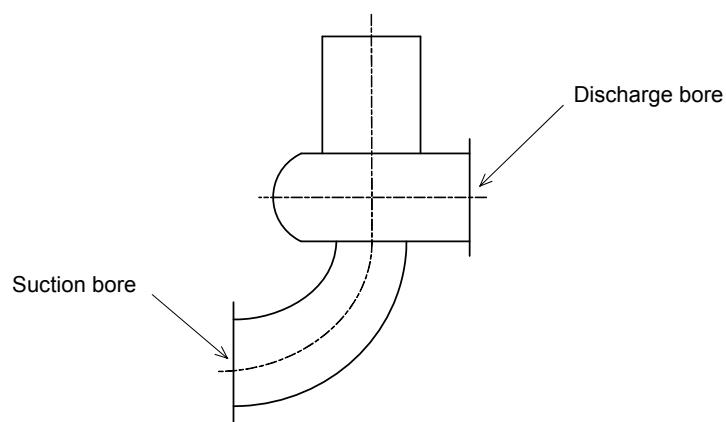
**Cooling**

- a. The motor design shall also include an integral cooling jacket constructed of steel, A283, Grade D. The cooling medium shall be the pumpage. Re-circulation through the jacket shall be achieved by discharging the pumpage into the cooling jacket from the periphery, high pressure area, of the impeller, and returning it into the low pressure behind the impeller, at the hub. Riser pipes within the jacket shall be utilized to facilitate circulation. The cooling passage ways shall be non-clogging by virtue of the dimensions; screening solids from entering the jacket. The jacket shall have external NPT connections to be used for external cooling as an option, as well as for venting the jacket. The jacket cooling system shall provide heat dissipation for the motor whether the unit is submerged or operating in air.
- b. The motor design shall include a propylene glycol closed loop integral cooling system. The system shall consist of a steel cooling jacket. An impeller, integral to the cooling system and driven by the pump shaft, shall provide the necessary circulation of the cooling liquid through the jacket. The coolant shall be cooled using a heat exchanger mounted in the base of the motor housing. The jacket cooling system shall provide heat dissipation for the motor whether the unit is submerged or operating in air.



**Model Designation**

**Model DSC4(C)**  
**Wet Pit Installation**



**Model DSAC4(C)**  
**Dry Pit Installation**



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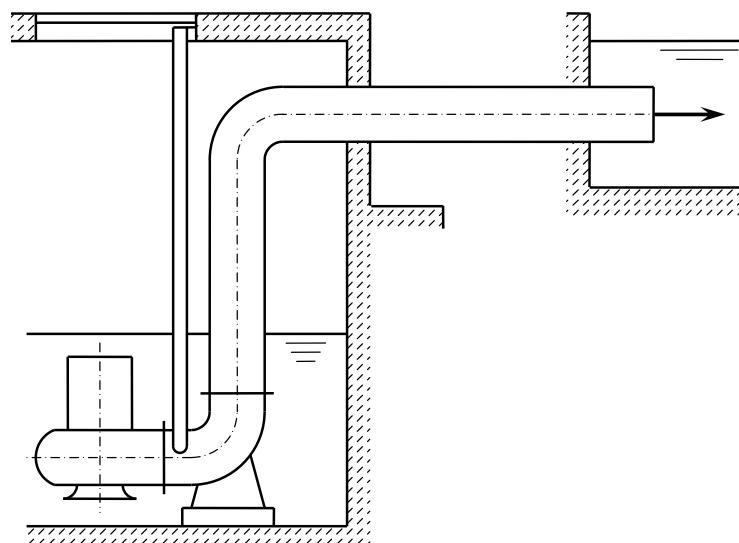
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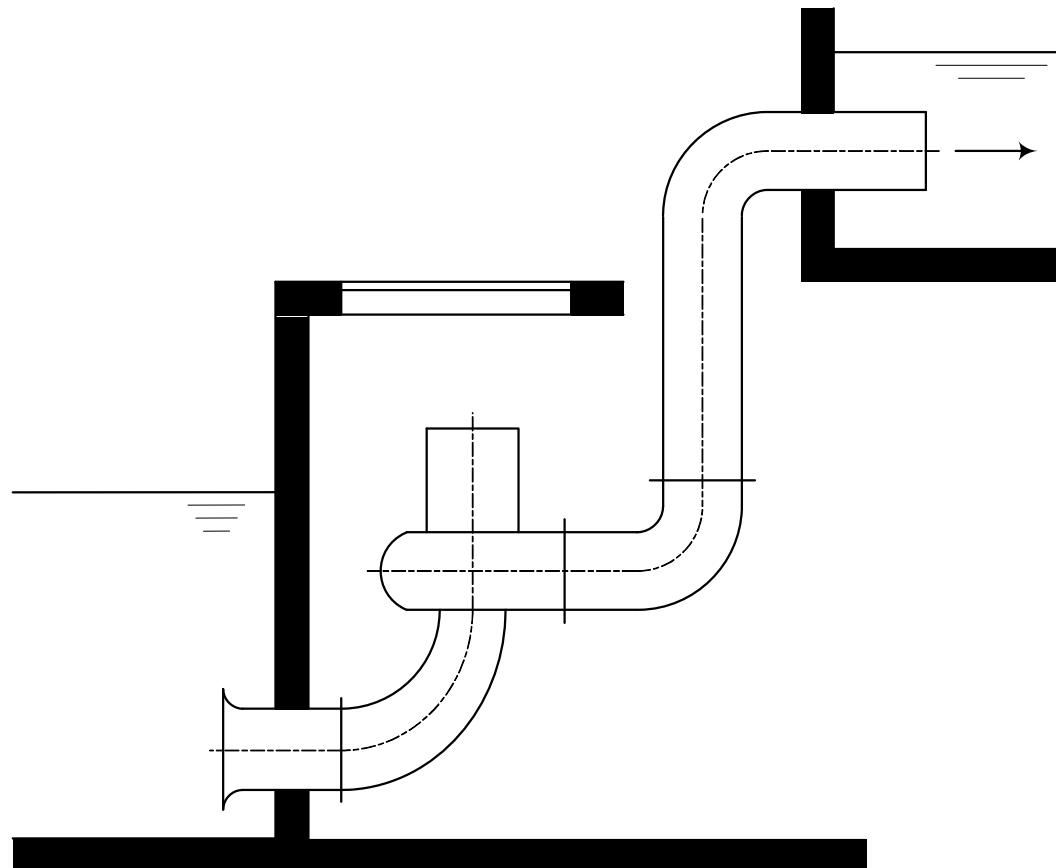
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Configurations

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MODEL DSC4(C)  
(WET PIT INSTALLATION)



MODEL DSCA4(C)  
(DRY PIT INSTALLATION)

**Specifications****Impeller Design**

| Pump Model              | Model Code | Impeller Type | No. of Vanes | ICS Opt. |
|-------------------------|------------|---------------|--------------|----------|
| 150DSC4<br>200x150DSCA4 | AC-46050   | Enclosed      | 2            | Y        |
|                         | AC-46060   |               |              | N        |
|                         | AC-46075   |               |              |          |
|                         | BC-46100   |               |              |          |
|                         | BC-46120   |               |              |          |
|                         | CC-46120   |               |              |          |
|                         | CC-46145   |               |              |          |
|                         | CC-46175   |               |              |          |
|                         | C1C-46175  |               |              |          |
|                         | C1C-46200  |               |              |          |
|                         | C1C-46215  |               |              |          |
|                         | C1C-46245  |               |              |          |
|                         | HC-46050   |               |              |          |
|                         | HC-46060   |               |              |          |
|                         | HC-46075   |               |              |          |
| 250DSC4<br>400x250DSCA4 | EC-66100   |               | 3            | Y        |
|                         | EC-66120   |               |              |          |
|                         | EC-66145   |               |              |          |
| 300DSC4<br>400x300DSCA4 | FC-66050   |               | 3            |          |
|                         | FC-66060   |               |              |          |
|                         | GC-66075   |               |              |          |
|                         | EEC-66175  |               |              |          |
|                         | EEC-66200  |               |              |          |
|                         | EEC-66215  |               |              |          |
| 400DSC4<br>500x400DSCA4 | EEC-66245  |               | 3            |          |
|                         | D1C-106050 |               |              |          |
|                         | D1C-106060 |               |              |          |
| 500DSC4<br>600x500DSCA4 | D1C-106075 |               | 3            |          |
|                         | D2C-106100 |               |              |          |
|                         | G1C-106120 |               |              |          |
|                         | G1C-106145 |               |              |          |
|                         | G2C-86175  |               |              |          |
|                         | G2C-86200  |               |              |          |
|                         | G2C-86215  |               |              |          |
|                         | G2C-86245  |               |              |          |

| Pump Model              | Model Code | Impeller Type | No. of Vanes | ICS Opt. |
|-------------------------|------------|---------------|--------------|----------|
| 150DSC4<br>200x150DSCA4 | AO-46050   | Semi-open     | 2            | Y        |
|                         | AO-46060   |               |              |          |
|                         | AO-46075   |               |              |          |
|                         | HO-46050   |               |              |          |
|                         | HO-46060   |               |              |          |
|                         | HO-46075   |               |              |          |
| 250DSC4<br>400x250DSCA4 | EO-66100   |               | 3            |          |
|                         | EO-66120   |               |              |          |
|                         | EO-66145   |               |              |          |
| 300DSC4<br>400x300DSCA4 | FO-66050   |               | 3            |          |
|                         | FO-66060   |               |              |          |
|                         | GO-66075   |               |              |          |



## Material Specifications – DSC4

| PARTS                      | MATERIAL   |
|----------------------------|--|
| Pump casing<br>QDC         | Cast iron<br>ASTM A48 CL35   |
| Impeller <sup>3</sup>      | Cast iron<br>ASTM A48 CL35   |
| Shaft                      | Stainless Steel<br>AISI 420 (4P/6P 50-145HP models)<br>AISI 403Q (4P/6P/8P 175-245HP, 10P 50-145HP models) |
| Casing ring <sup>1</sup>   | Stainless Steel<br>AISI 420  |
| Suction Cover <sup>2</sup> | Cast Iron<br>ASTM A48 CL35   |
| Motor Frame                | Cast iron<br>ASTM A48 CL35   |
| Cooling jacket             | Rolled steel<br>ASTM A283 Gr.D   |
| Mechanical Seal            | Upper: Carbon/Ceramic<br>Lower: Silicon Carbide/Silicon Carbide  |
| Lifting Handle             | Stainless Steel<br>AISI 304  |

**Note:**<sup>1</sup> Enclosed impeller models only<sup>2</sup> Semi-open impeller models only<sup>3</sup> Optional 304 SS Impeller ring available for enclosed impeller models

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## Material Specifications – DSC4C 4P/6P 50-145HP Models

| PARTS                          | MATERIAL   |
|--------------------------------|--|
| Pump casing<br>QDC             | Cast iron<br>ASTM A48 CL35   |
| Impeller <sup>3</sup>          | Cast iron<br>ASTM A48 CL35   |
| Shaft                          | Stainless Steel<br>AISI 420  |
| Casing ring <sup>1</sup>       | Stainless Steel<br>AISI 420  |
| Suction Cover <sup>2</sup>     | Cast iron<br>ASTM A48 CL35   |
| Motor Frame                    | Cast iron<br>ASTM A48 CL35   |
| Cooling jacket                 | Rolled steel<br>ASTM A283 Gr.D   |
| Mechanical Seal                | Upper: Carbon/Ceramics<br>Lower: Silicon Carbide/Silicon Carbide   |
| Impeller<br>for coolant        | Corrosion-resistant cast steel<br>ASTM A351 CF8  |
| Side plate<br>(Heat exchanger) | Cast iron<br>ASTM A48 CL35 (4P 50-100HP, 6P 50-145HP)<br><br>Copper alloy casting<br>ASTM B584 C83600 (4P 120-145HP) |
| Lifting Handle                 | Stainless Steel<br>AISI 304  |

**Note:**<sup>1</sup>Enclosed impeller models only<sup>2</sup>Semi-open impeller models only<sup>3</sup>Optional 304 SS impeller ring available for enclosed models

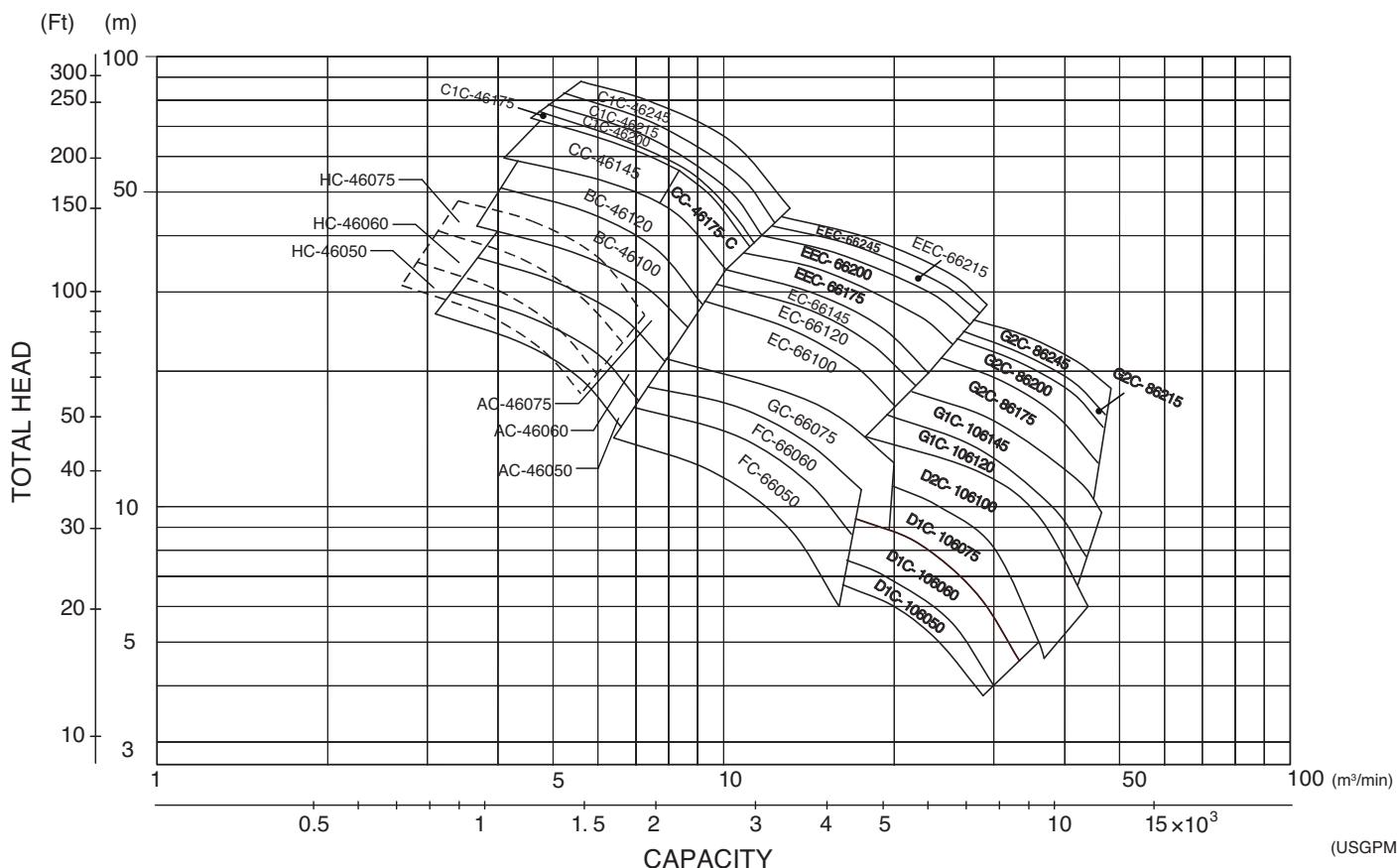
**Selection Chart**

Project:

Model:

Chk'd:

Date:

**DSC4/DSCA4 Selection Chart**

**Please note:** Selection chart shows curves for the DSC4 enclosed impeller model.  
Please reference individual curve for impeller performance of semi-open impeller models.

## Performance Curves

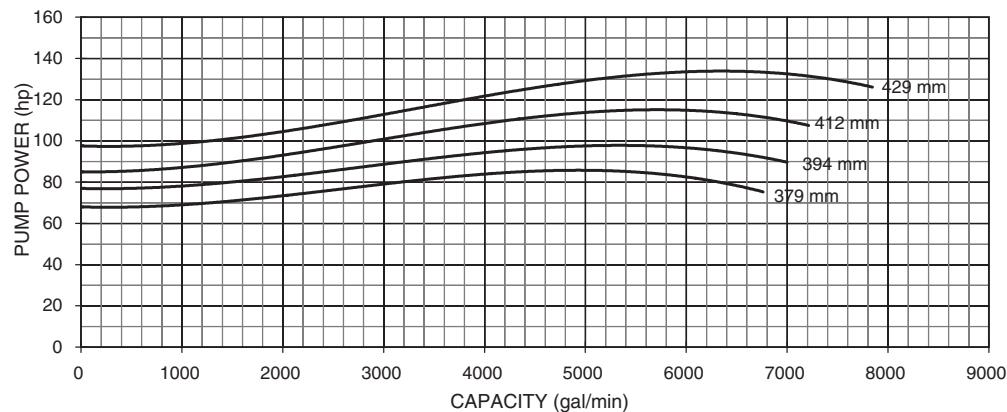
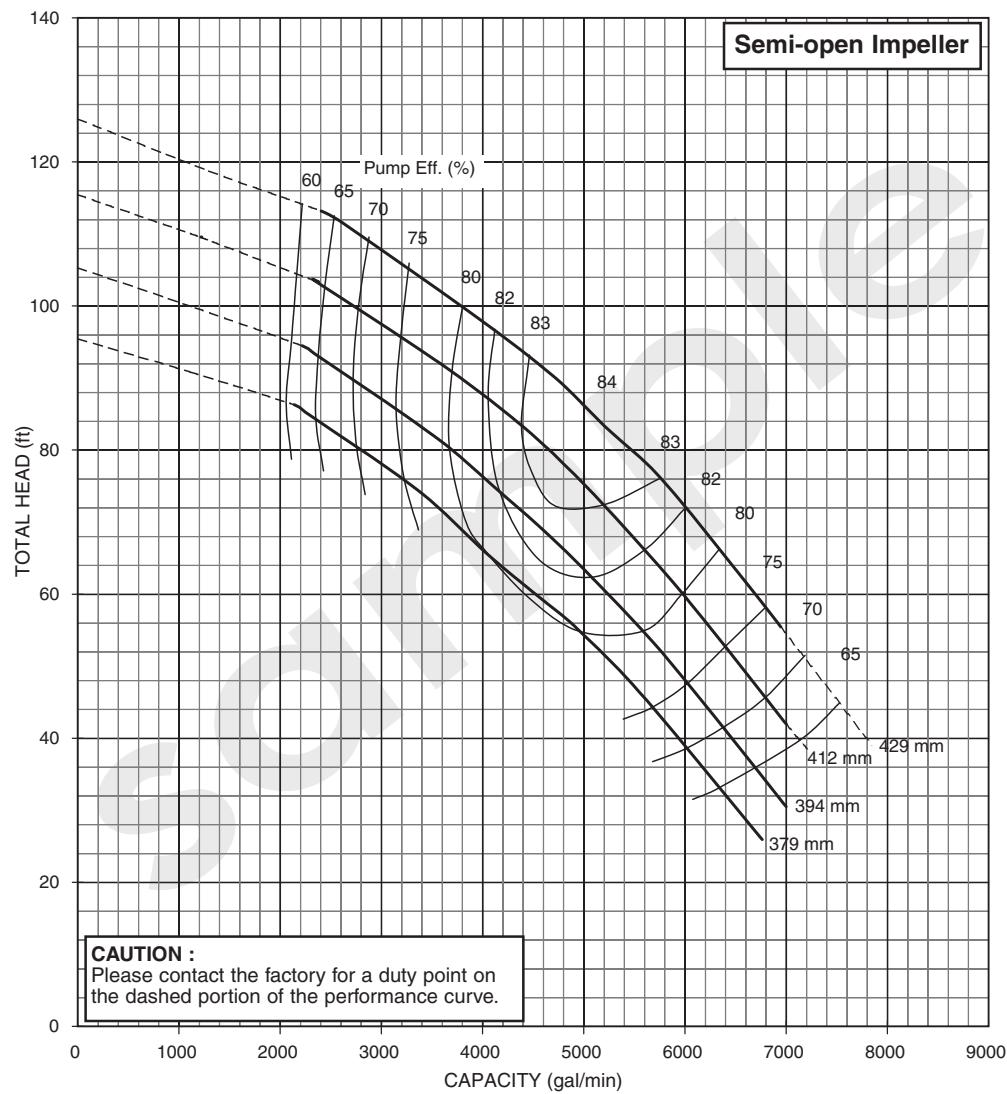
Project:

Chk'd:

Date:

**MODEL: 250DSC4  
400x250DSCA4  
100HP - 145HP**

|                 |                  |             |                    |
|-----------------|------------------|-------------|--------------------|
| Rated Capacity  | Rated Total Head | Pump Speed  | Motor Output Power |
| GPM<br>( 3800 ) | FT<br>( 100 )    | RPM<br>1800 | HP<br>( 145 )      |



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## Performance Curves

MODEL CODE: AO

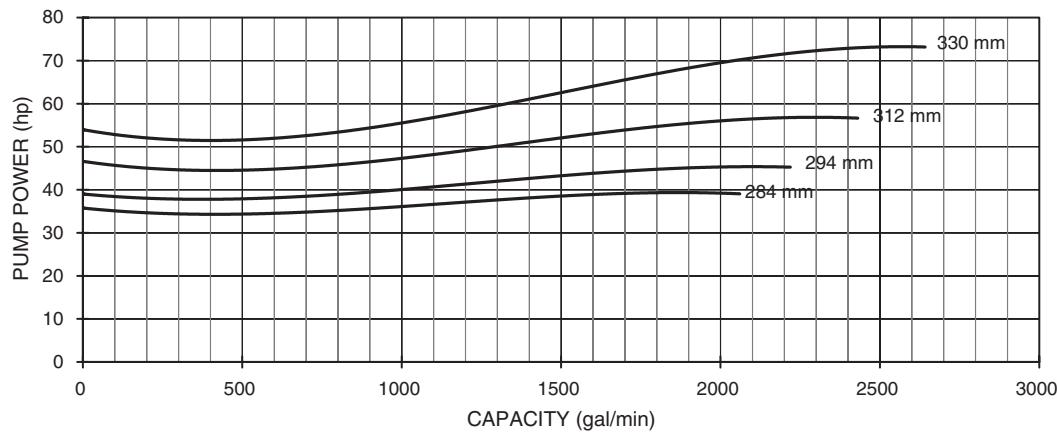
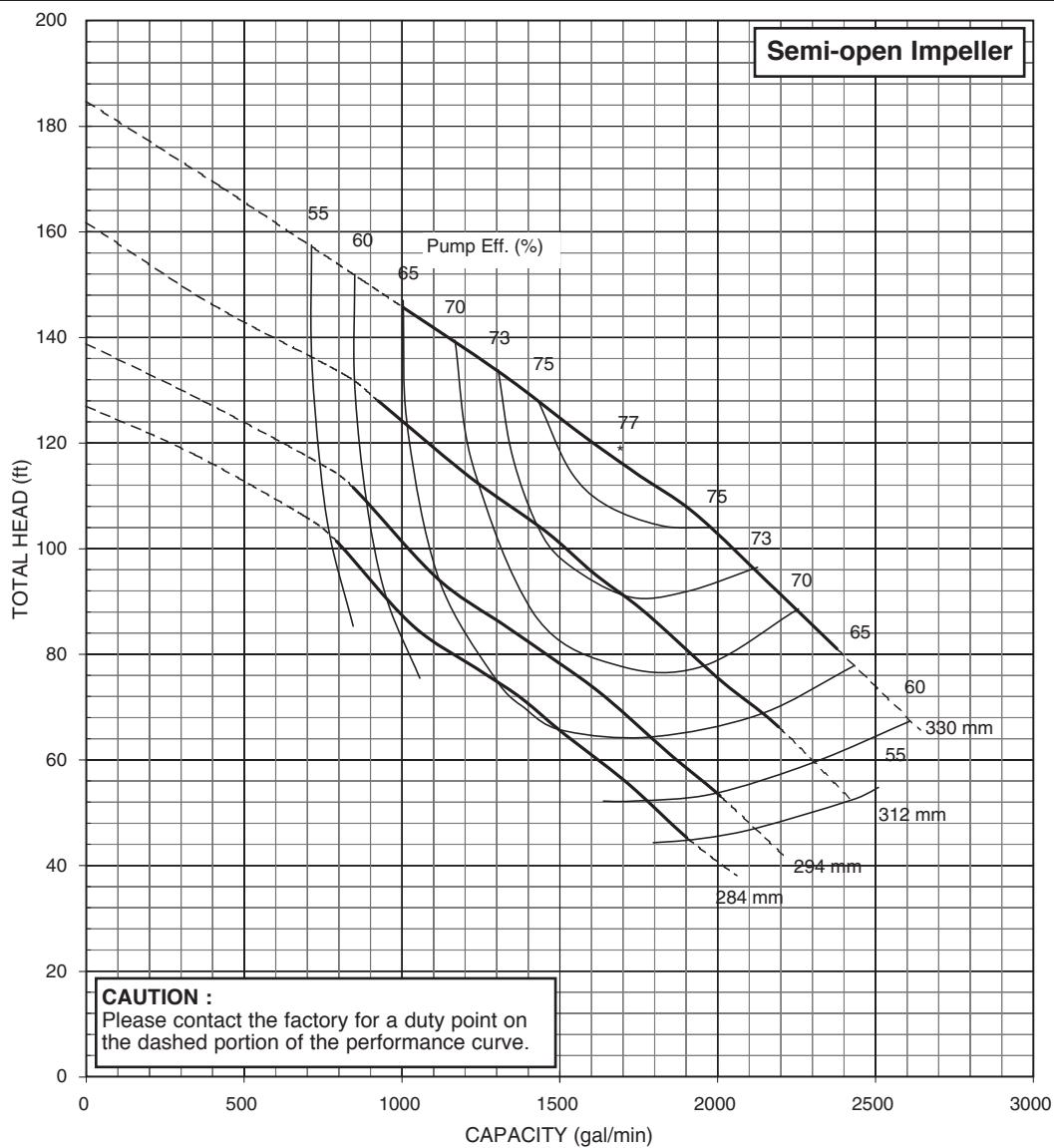
Project:

Chk'd:

Date:

**MODEL: 150DSC4/DSC4C  
200x150DSCA4/DSCA4C  
50HP - 75HP**

|     |   |    |   |     |      |    |   |
|-----|---|----|---|-----|------|----|---|
| GPM | × | FT | × | RPM | 1800 | HP | × |
|-----|---|----|---|-----|------|----|---|



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# EBARA Submersible Non-clog Sewage/Wastewater Pumps

**DSC4/DSCA4**

## Performance Curves

**MODEL CODE: AC**

Project:

Chk'd:

Date:

**MODEL: 150DSC4/DSC4C  
200x150DSCA4/DSCA4C  
50HP - 75HP**

GPM

FT

RPM

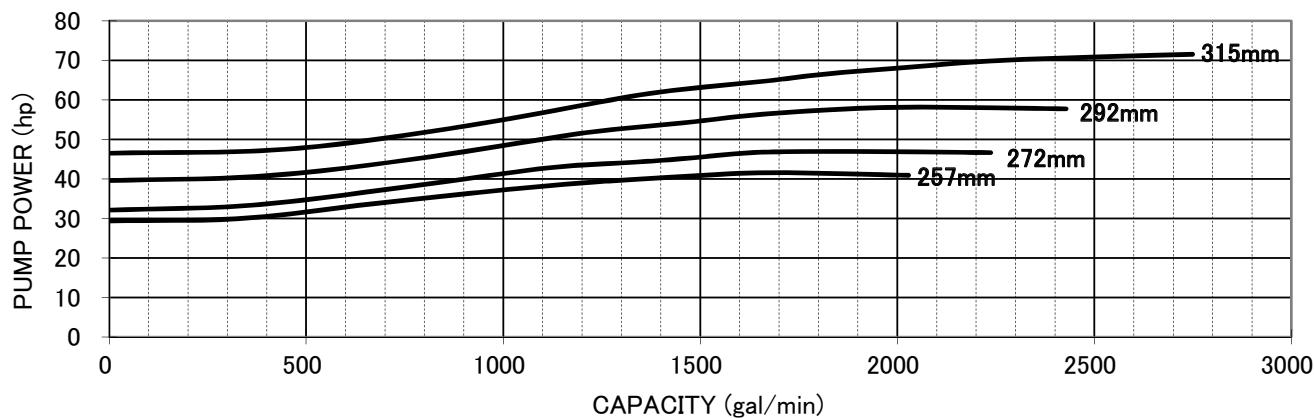
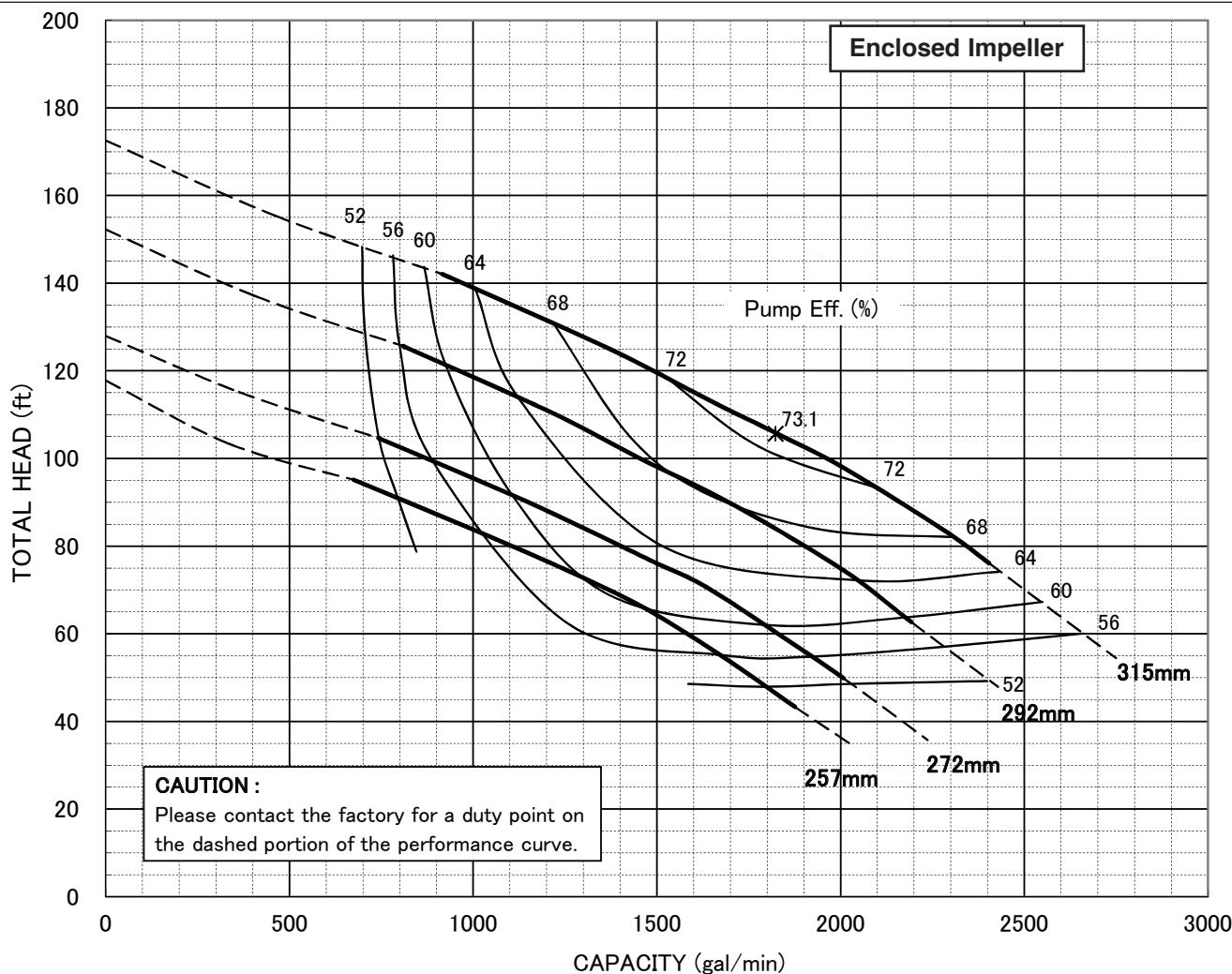
HP

x

x

x

1800



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## Performance Curves

MODEL CODE: BC

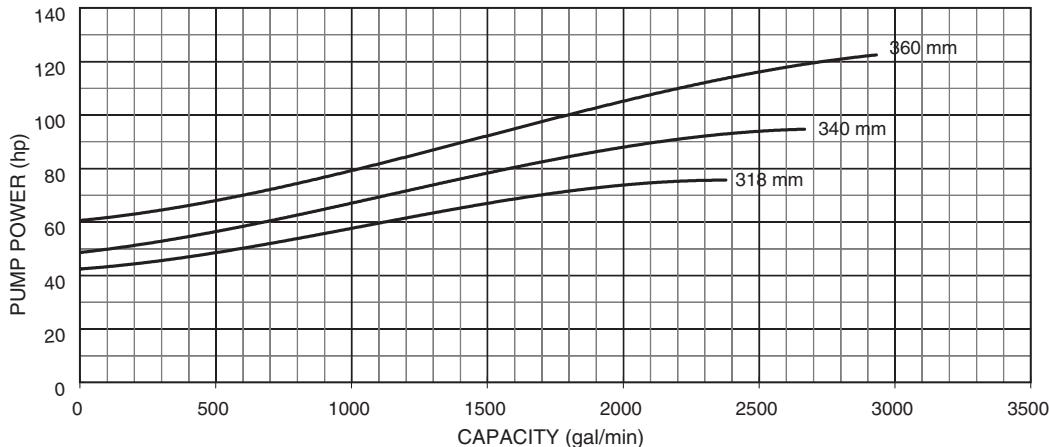
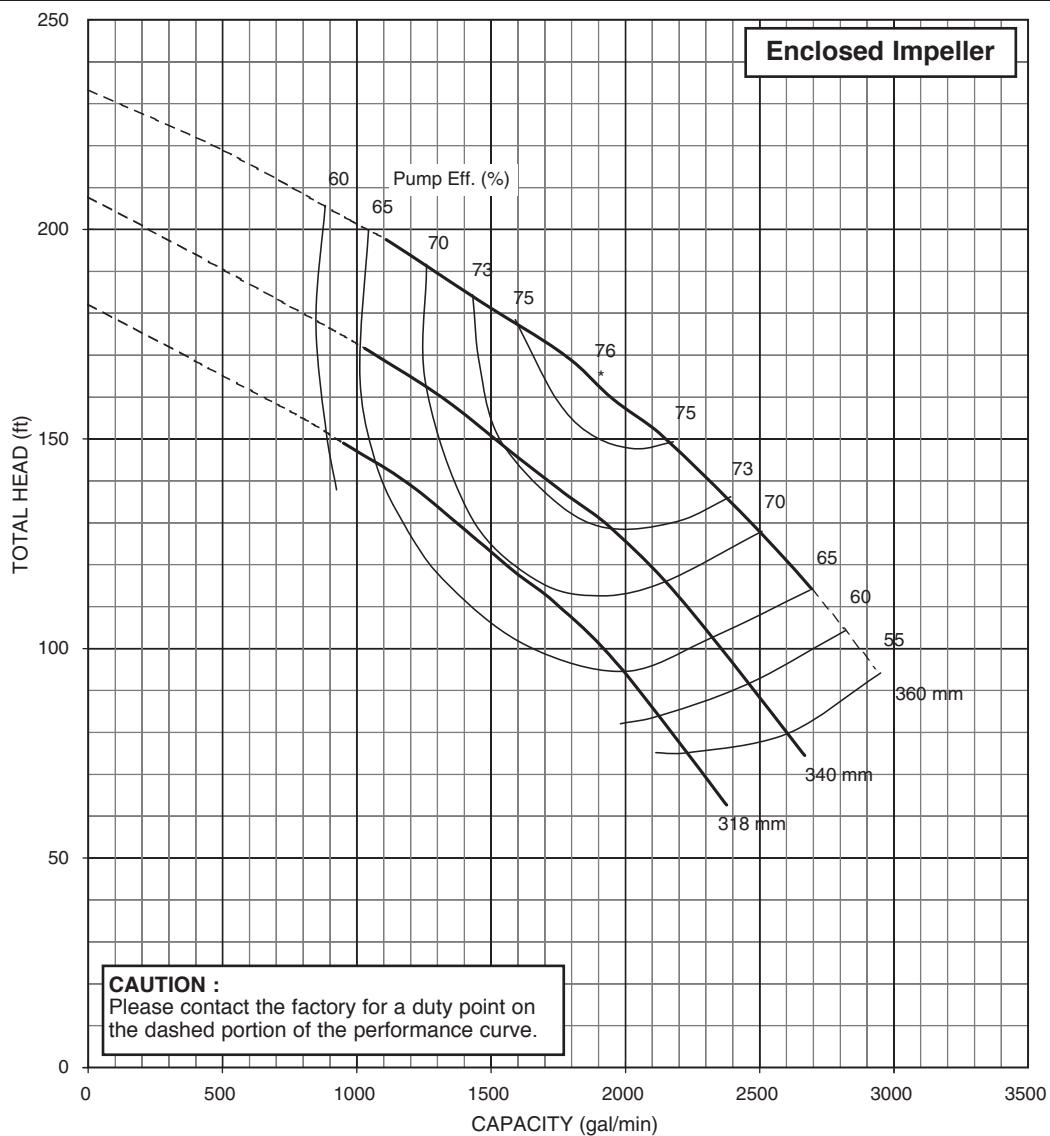
Project:

Chk'd:

Date:

**MODEL: 150DSC4/DSC4C  
200x150DSCA4/DSCA4C  
100HP - 120HP**

|     |   |    |   |     |      |    |
|-----|---|----|---|-----|------|----|
| GPM | × | FT | × | RPM | 1800 | HP |
|     |   |    |   |     |      |    |



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## Performance Curves

MODEL CODE: CC

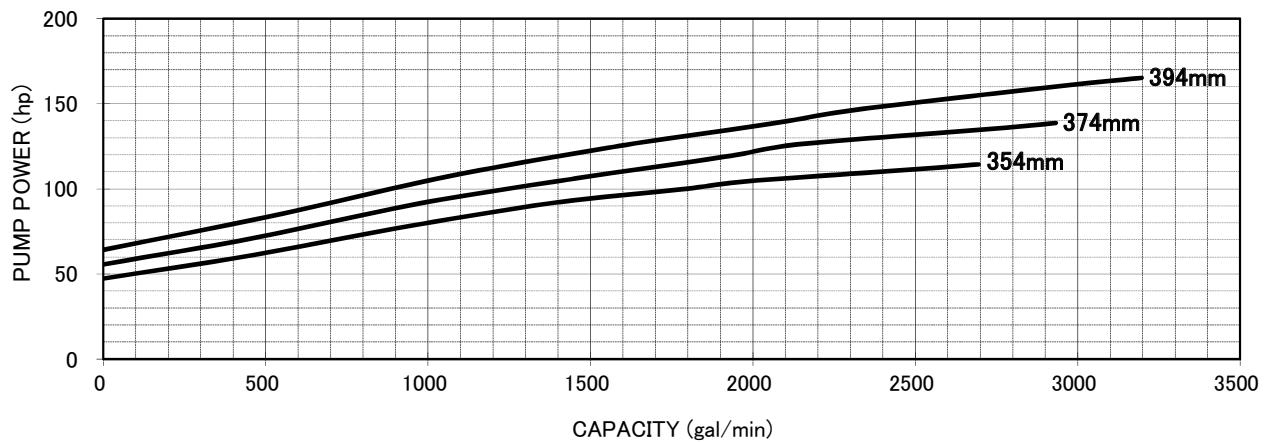
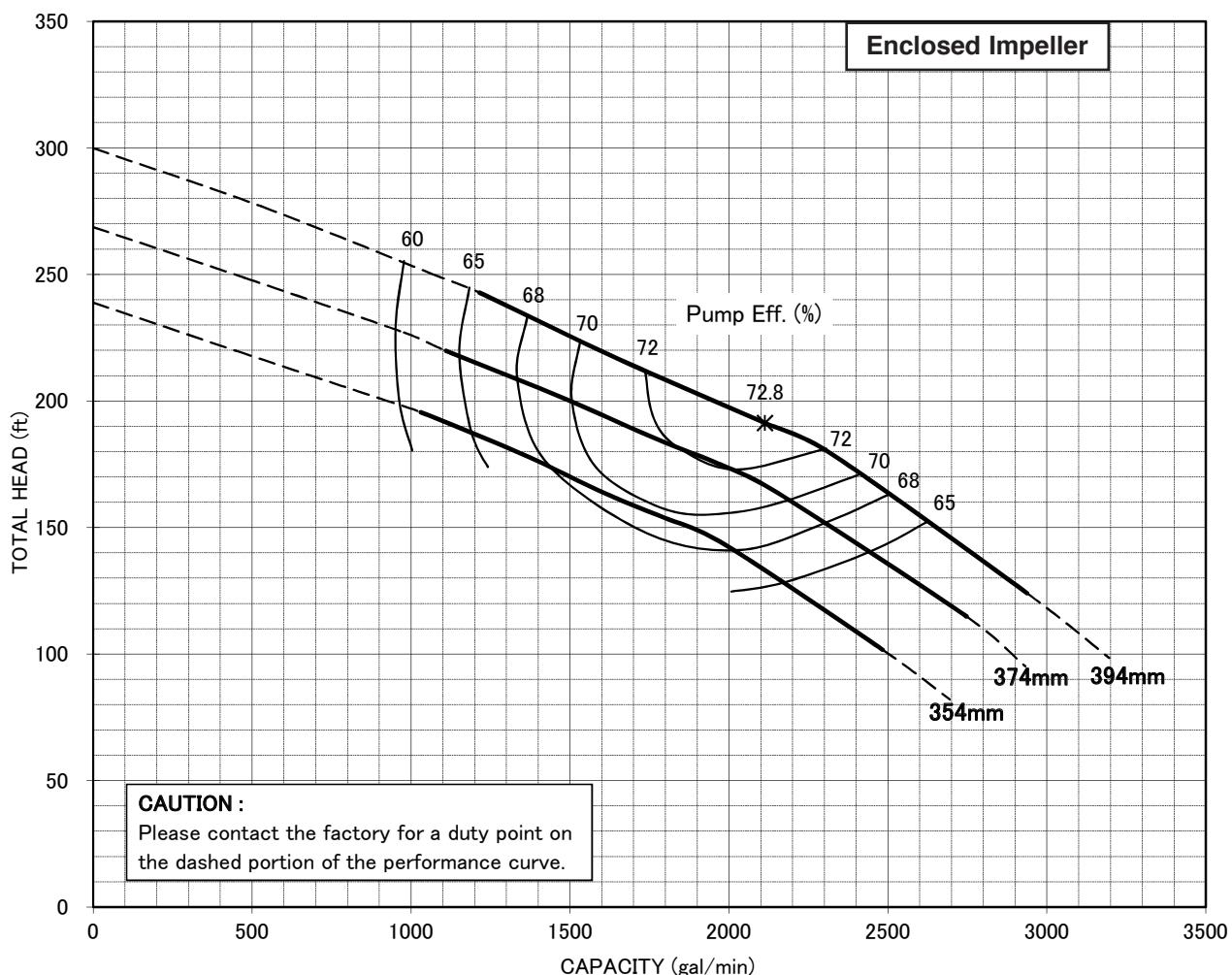
Project:

Chk'd:

Date:

**MODEL: 150DSC4/DSC4C  
200x150DSCA4/DSKA4C  
120HP - 175HP\***

|     |   |    |   |     |      |    |   |
|-----|---|----|---|-----|------|----|---|
| GPM | × | FT | × | RPM | 1800 | HP | × |
|-----|---|----|---|-----|------|----|---|



\*Note: 175HP Model is not available in ICSÉ



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## Performance Curves

MODEL CODE: C1C

Project:

Chk'd:

Date:

**MODEL: 150DSC4  
200x150DSCA4  
175HP - 245HP**

GPM

FT

RPM

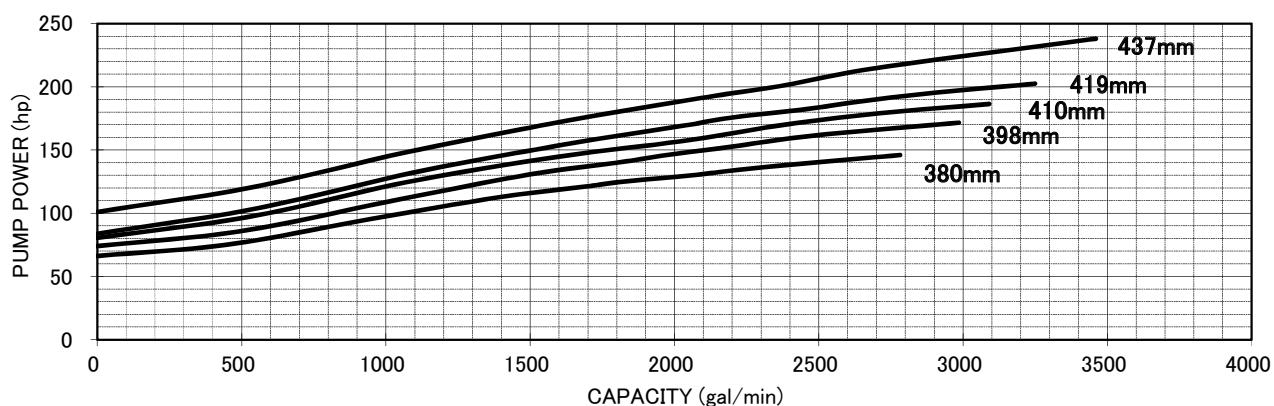
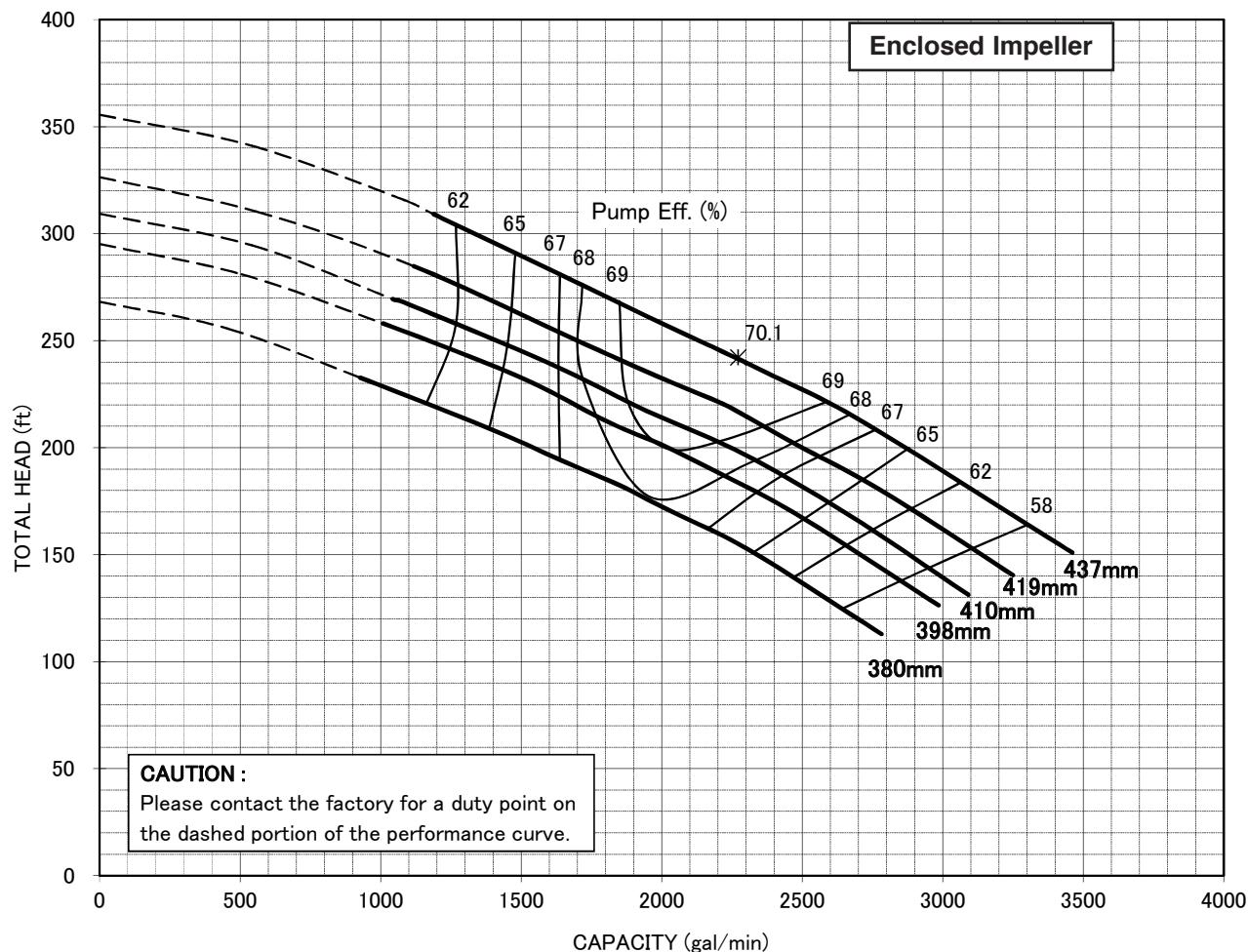
HP

x

x

1800

x



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## Performance Curves

MODEL CODE: EO

Project:

Chk'd:

Date:

**MODEL: 250DSC4/DSC4C  
400x250DSCA4/DSKA4C  
100HP - 145HP**

GPM

FT

RPM

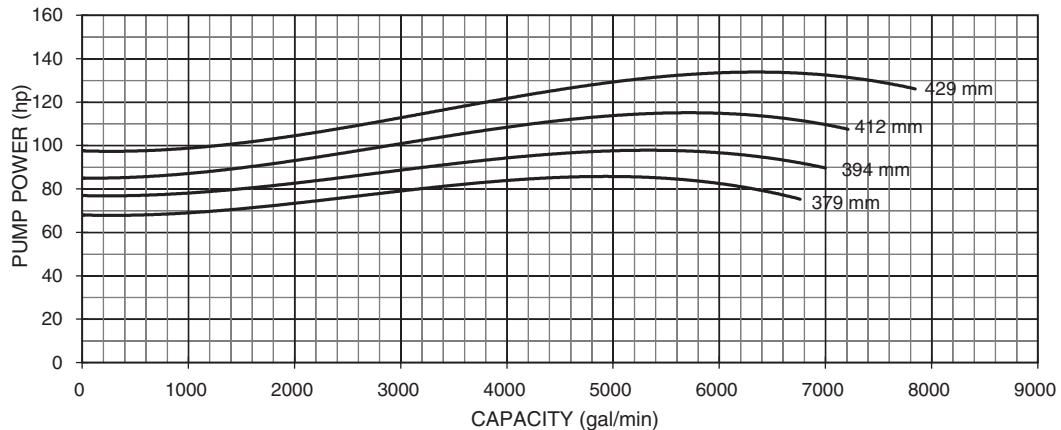
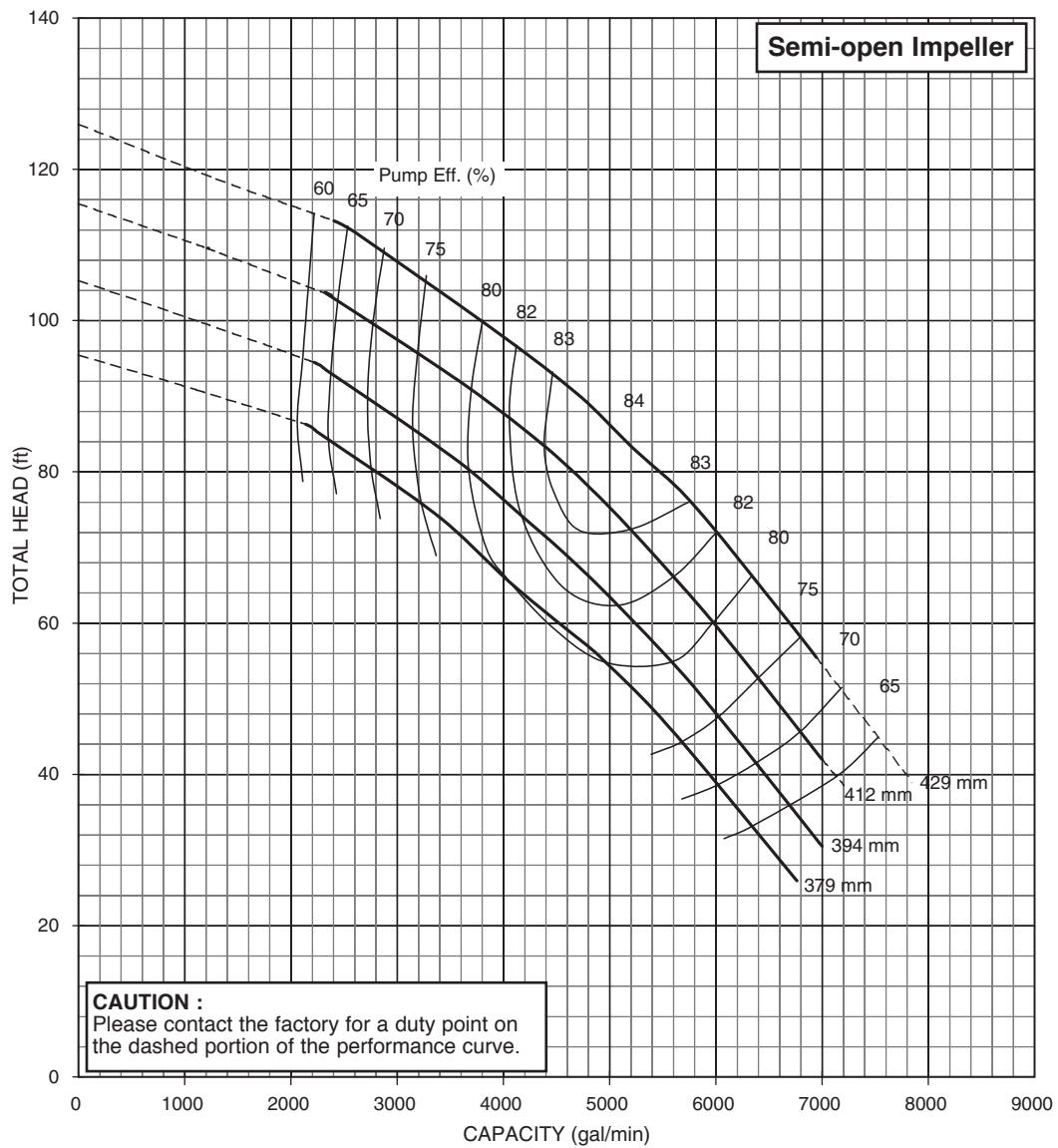
HP

X

X

1200

X



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## Performance Curves

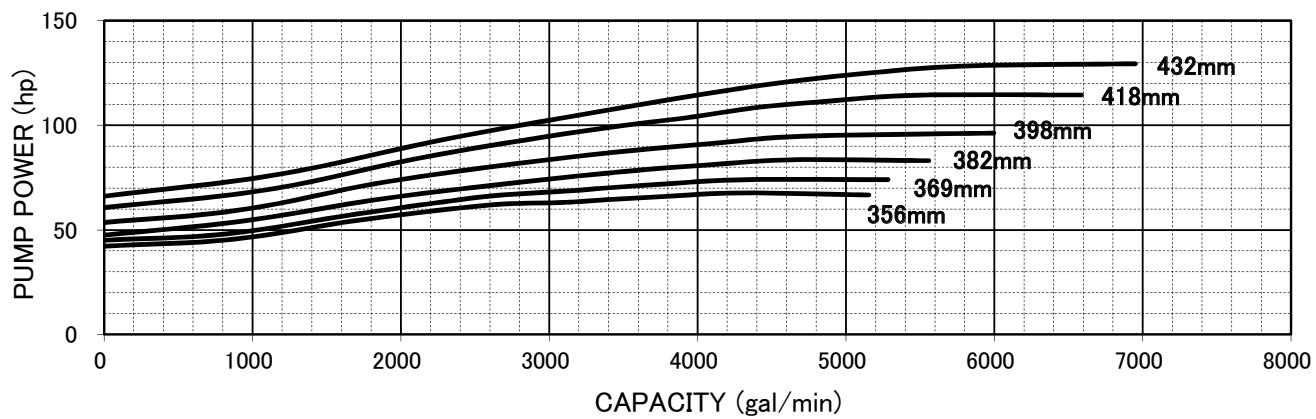
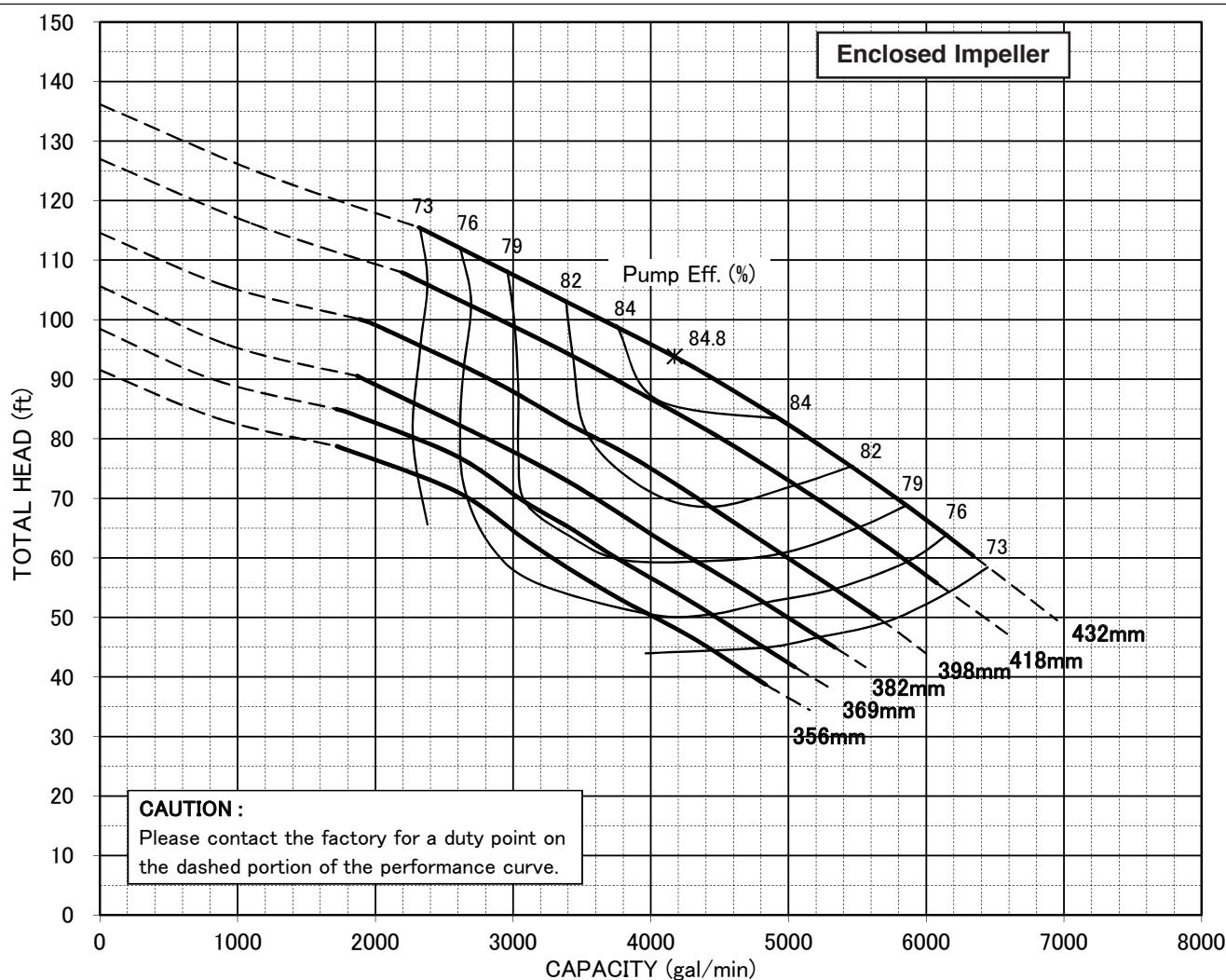
MODEL CODE: EC

Project:

Chk'd: Date:

**MODEL: 250DSC4/DSC4C  
400x250DSCA4/DSKA4C  
100HP - 145HP**

|     |   |    |   |     |      |    |   |
|-----|---|----|---|-----|------|----|---|
| GPM | × | FT | × | RPM | 1200 | HP | × |
|-----|---|----|---|-----|------|----|---|



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## Performance Curves

MODEL CODE: FO

Project:

Chk'd:

Date:

**MODEL: 300DSC4/DSC4C  
400x300DSCA4/DSCA4C  
50HP - 60HP**

GPM

FT

RPM

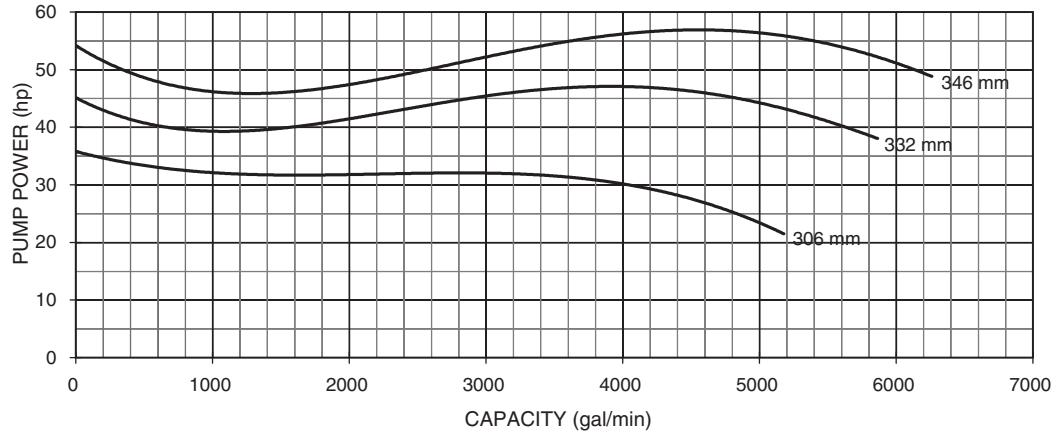
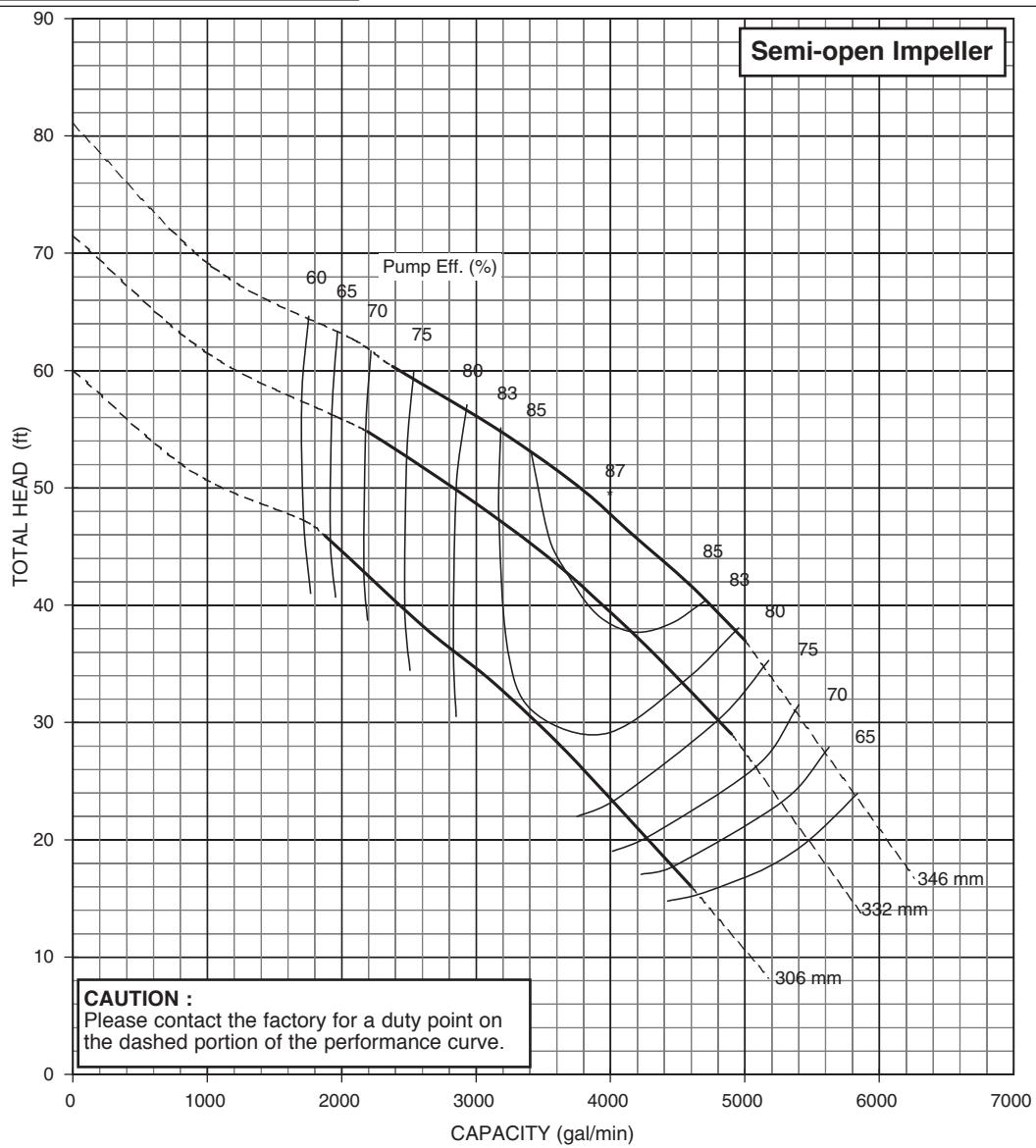
HP

X

X

1200

X



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## Performance Curves

MODEL CODE: FC

Project:

Chk'd:

Date:

**MODEL: 300DSC4/DSC4C  
400x300DSCA4/DSCA4C  
50HP - 60HP**

GPM

FT

RPM

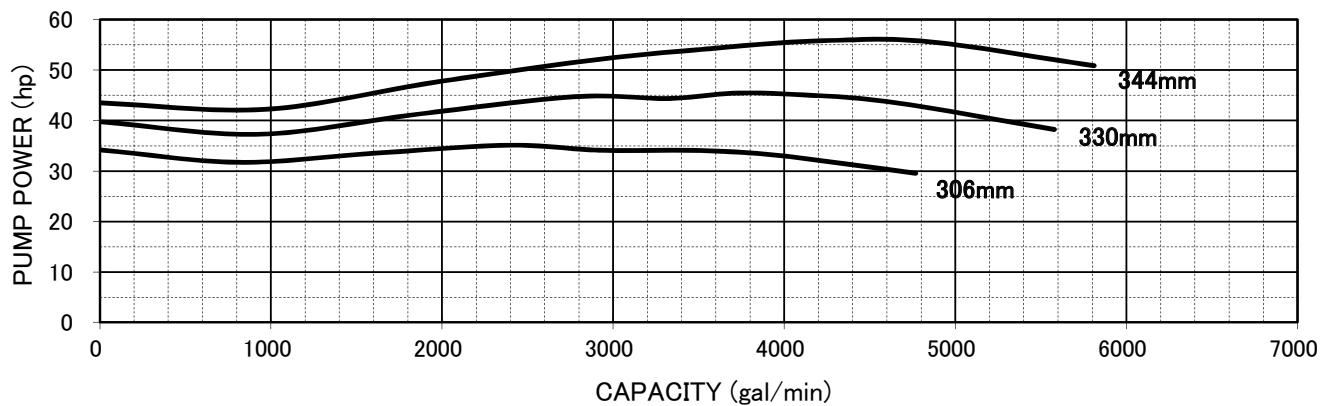
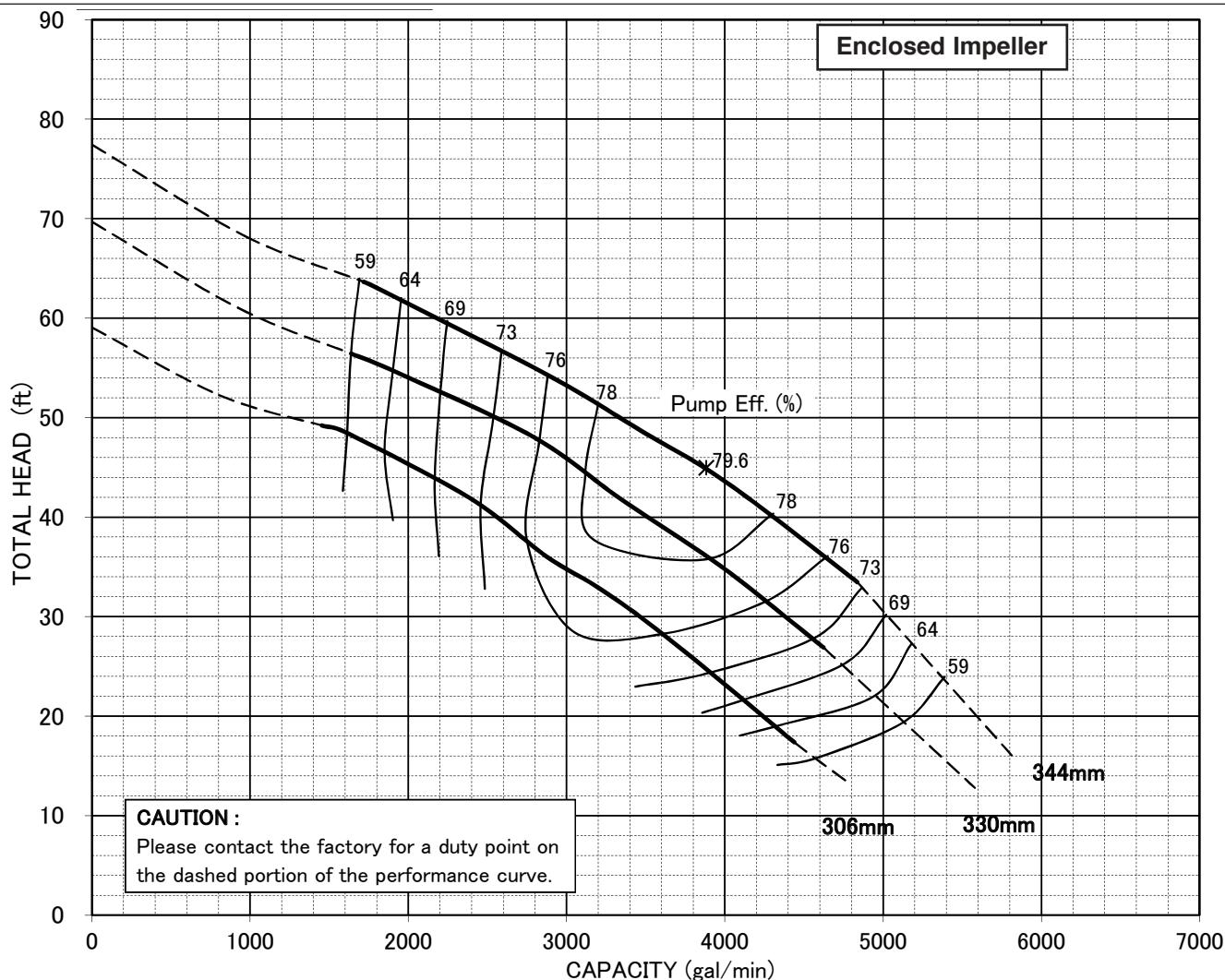
1200

HP

X

X

X



## Performance Curves

MODEL CODE: GO

Project:

Chk'd:

Date:

**MODEL: 300DSC4/DSC4C  
400x300DSCA4/DSCA4C  
75HP**

GPM

FT

RPM

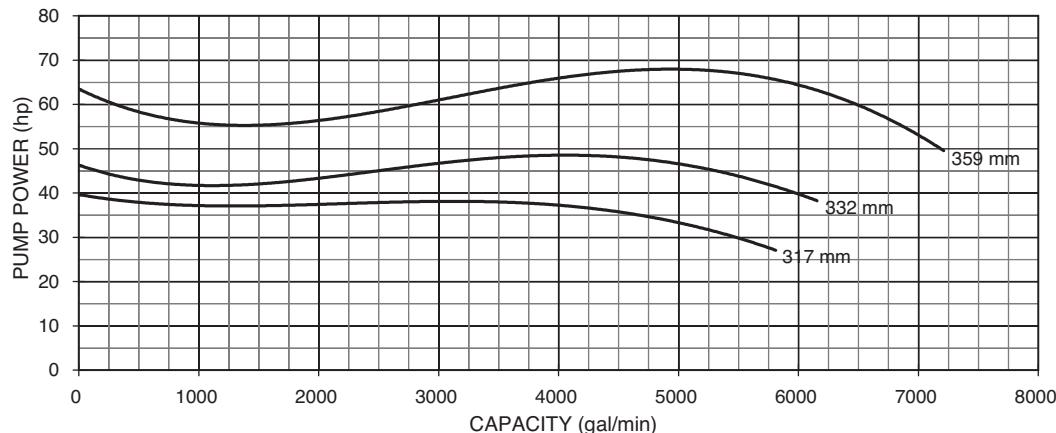
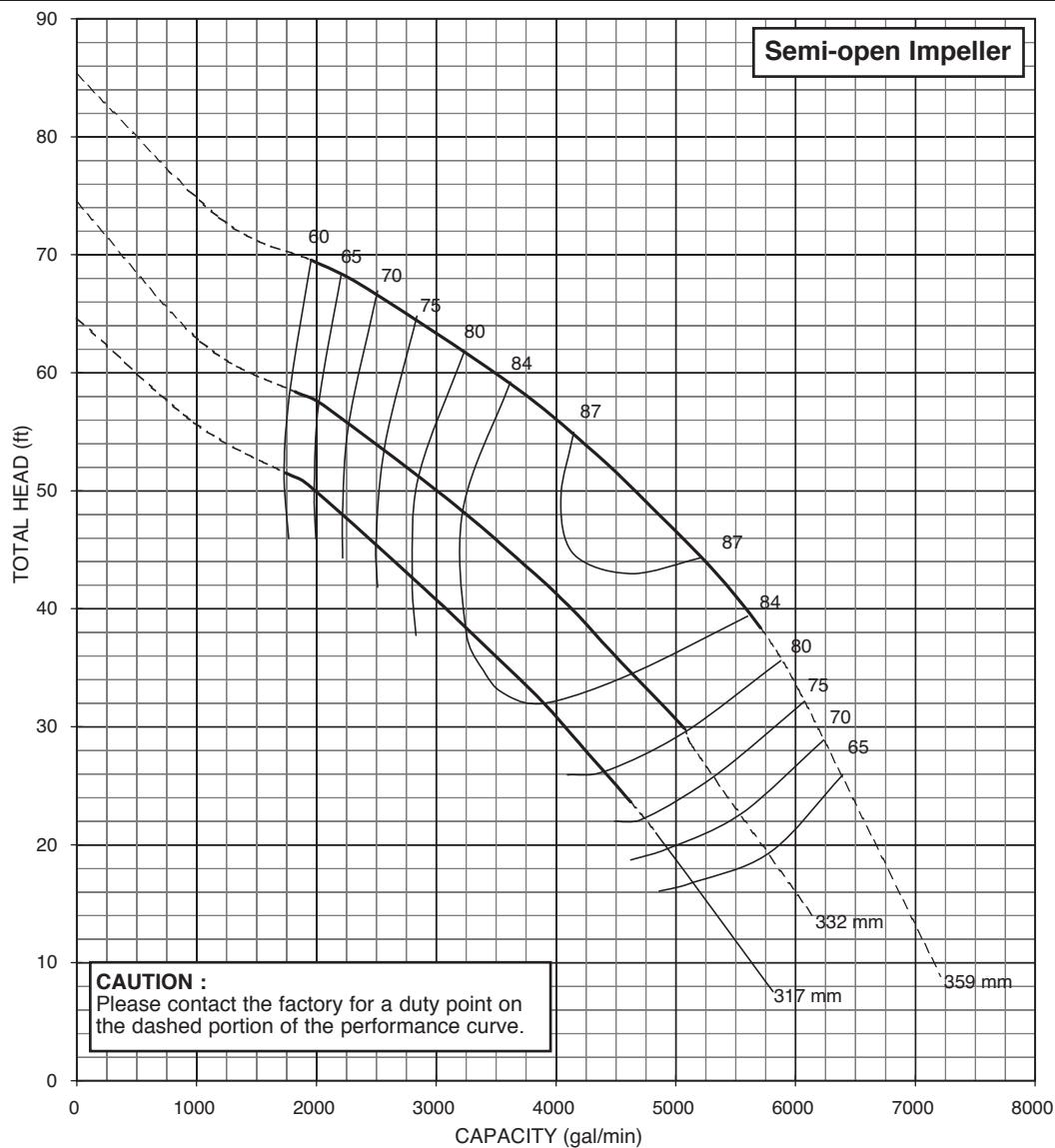
HP

X

X

1200

X



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## Performance Curves

MODEL CODE: GC

Project:

Chk'd:

Date:

**MODEL: 300DSC4/DSC4C  
400x300DSCA4/DSCA4C  
75HP**

GPM

FT

RPM

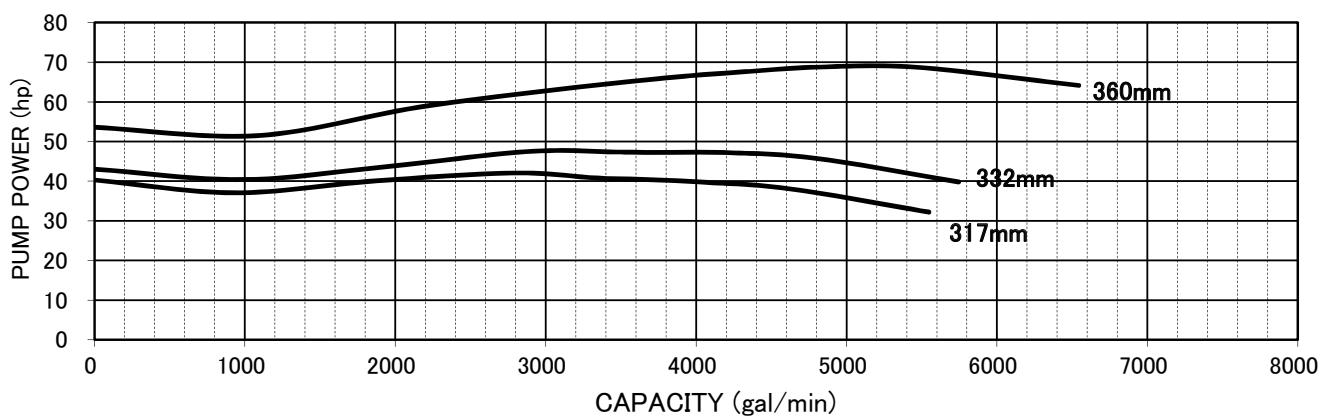
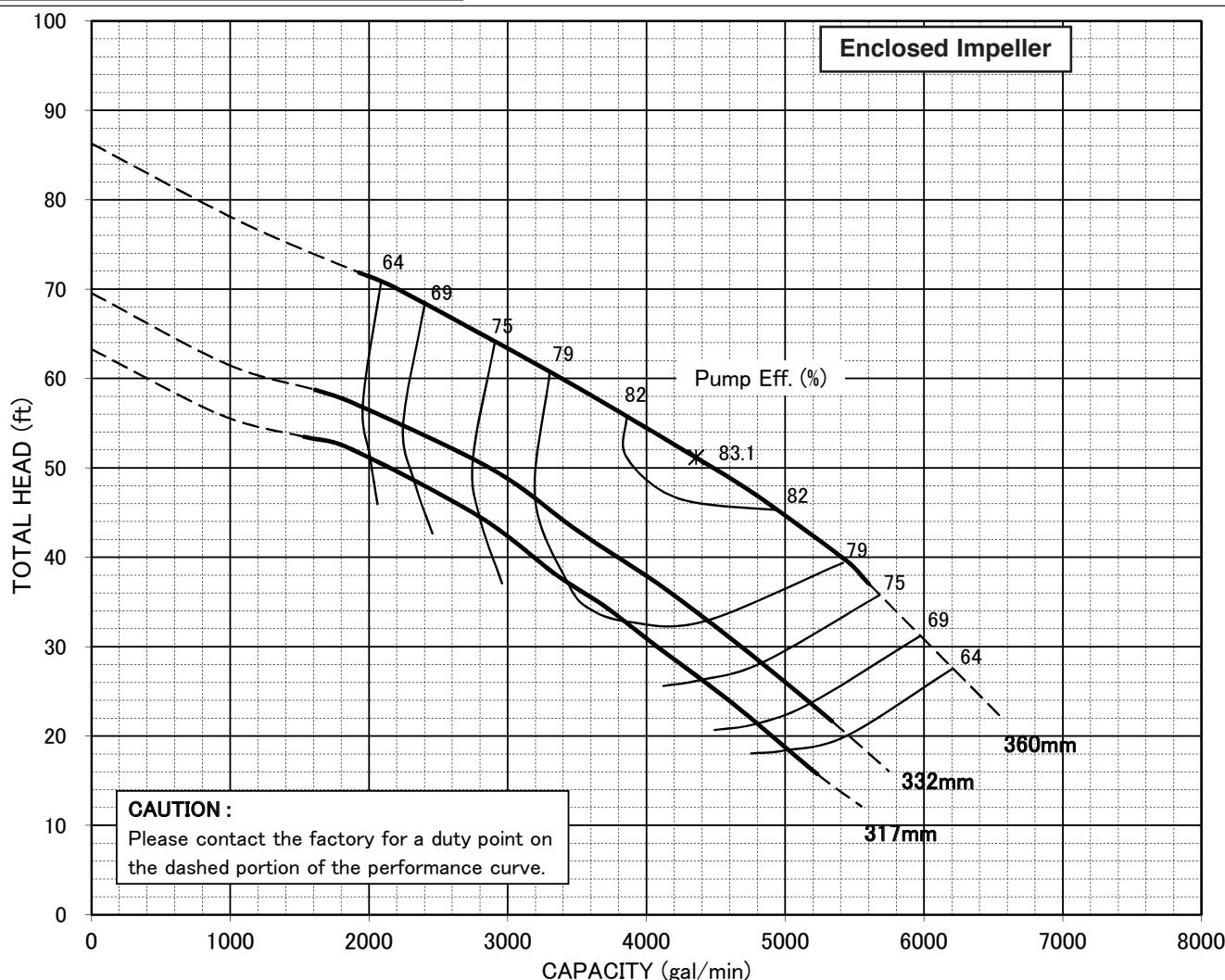
HP

X

X

1200

X



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## Performance Curves

MODEL CODE: EEC

Project:

Chk'd:

Date:

**MODEL: 300DSC4  
400x300DSCA4  
175HP - 245HP**

GPM

FT

RPM

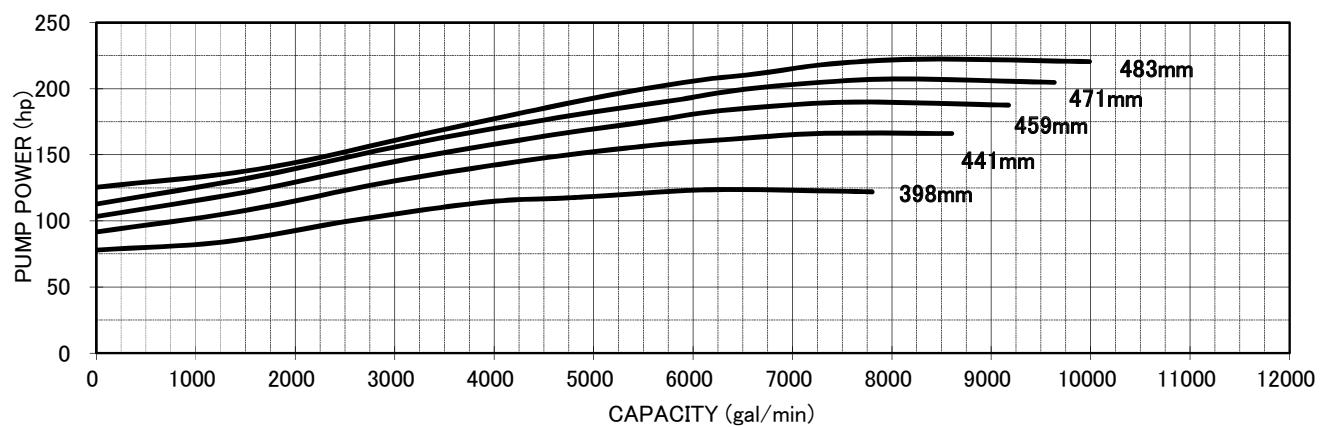
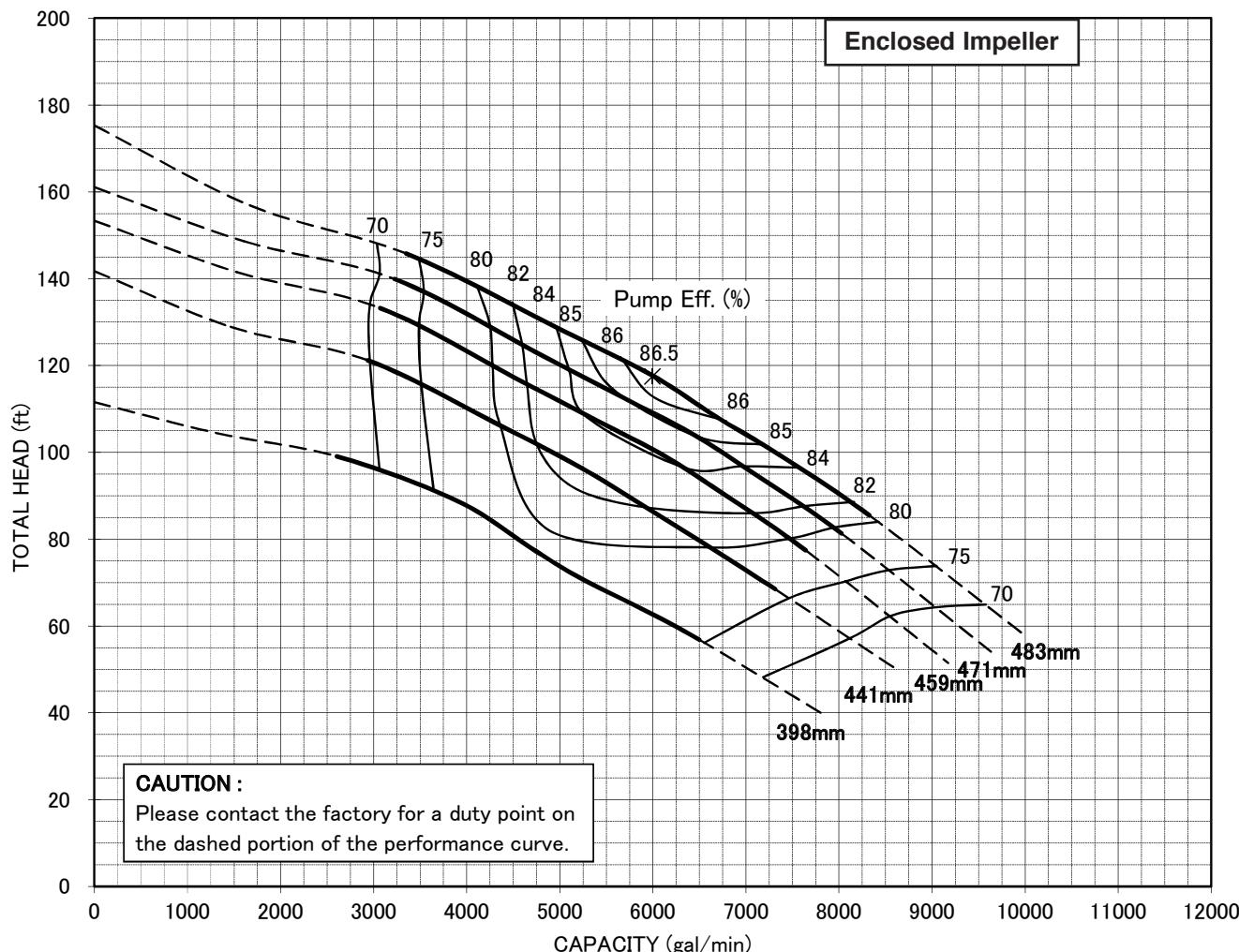
HP

X

X

1200

X



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## Performance Curves

MODEL CODE: D1C

Project:

Chk'd:

Date:

**MODEL: 400DSC4  
500x400DSCA4  
50HP - 75HP**

GPM

FT

RPM

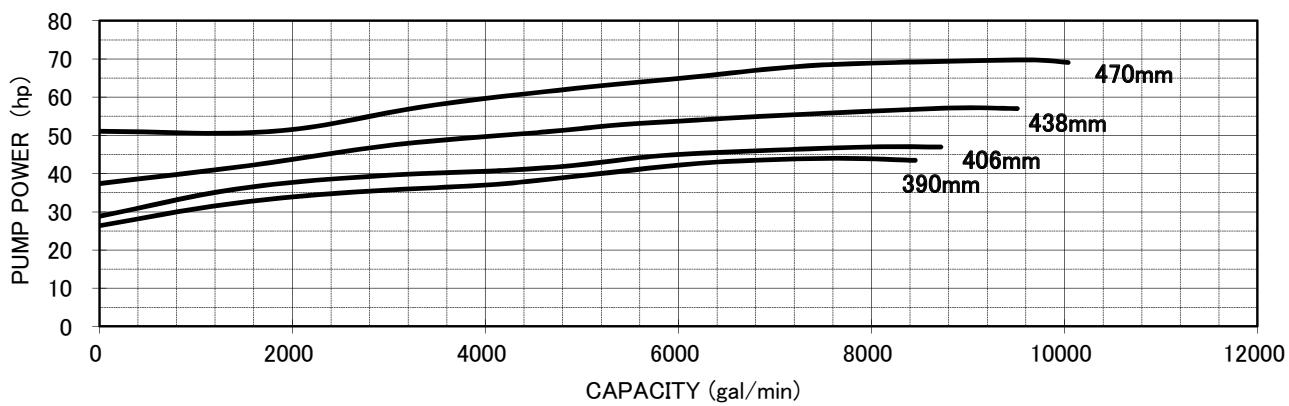
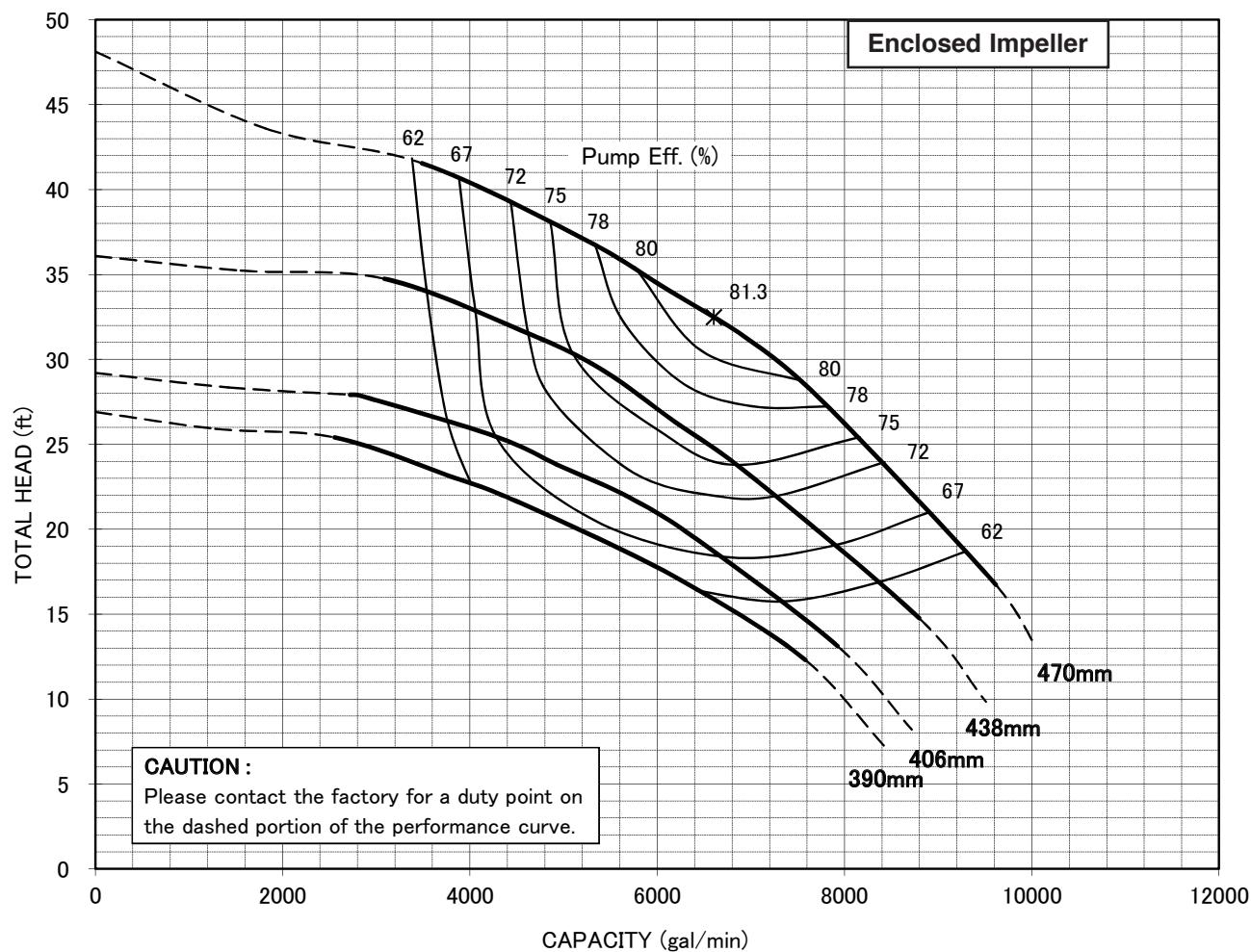
HP

X

X

720

X



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## Performance Curves

MODEL CODE: D2C

Project:

Chk'd:

Date:

**MODEL: 500DSC4  
600x500DSCA4  
100HP**

GPM

FT

RPM

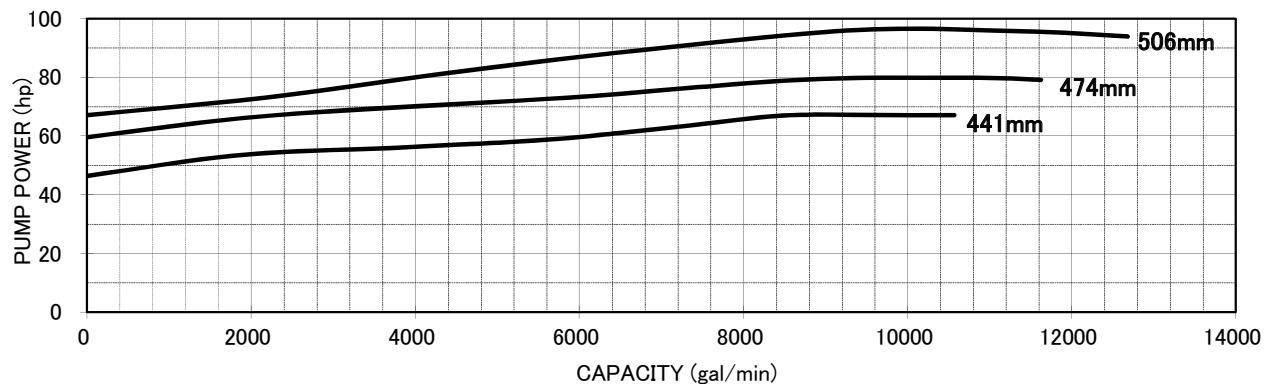
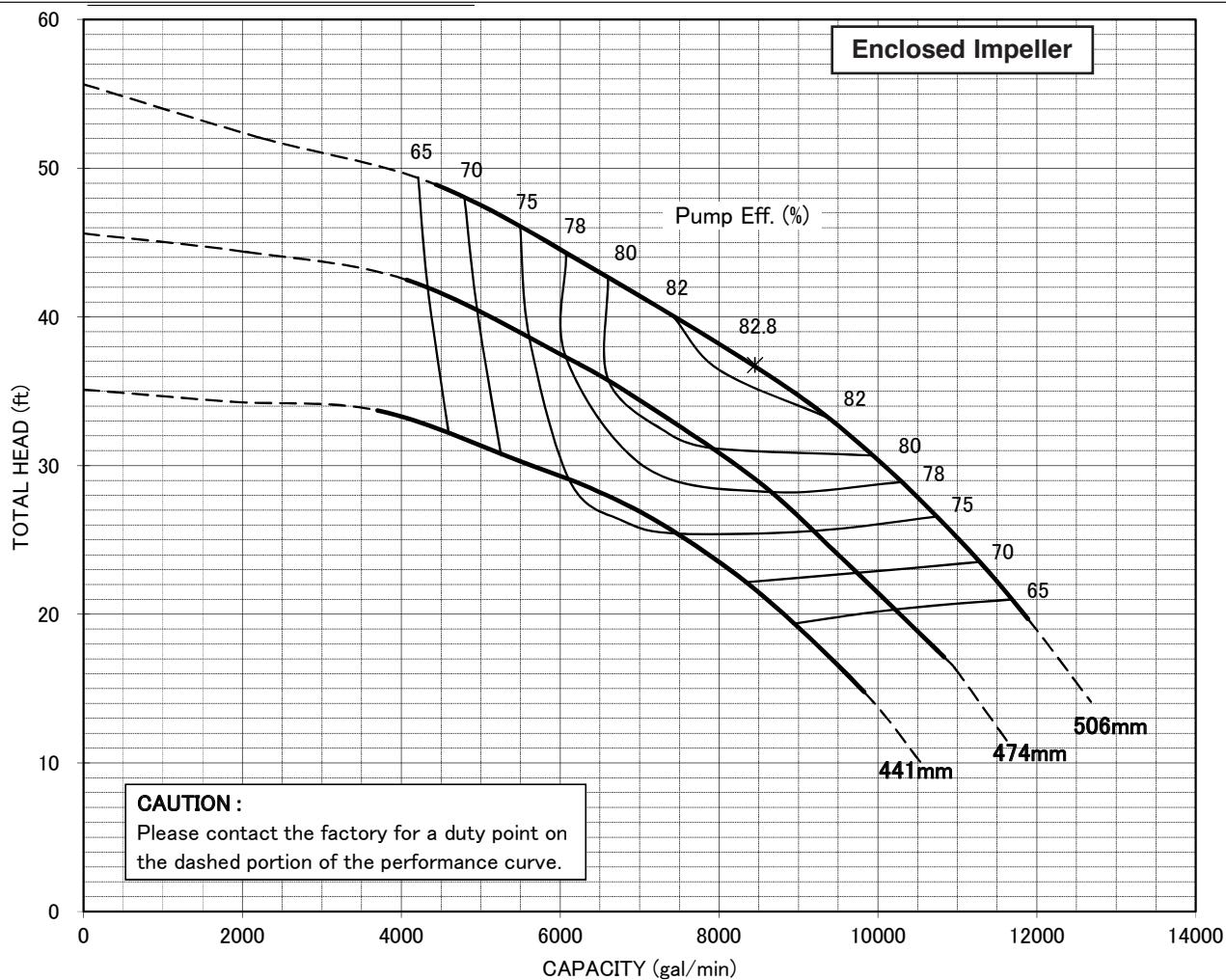
HP

x

x

x

720



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## Performance Curves

MODEL CODE: G1C

Project:

Chk'd:

Date:

**MODEL: 500DSC4  
600x500DSCA4  
120HP - 145HP**

GPM

FT

RPM

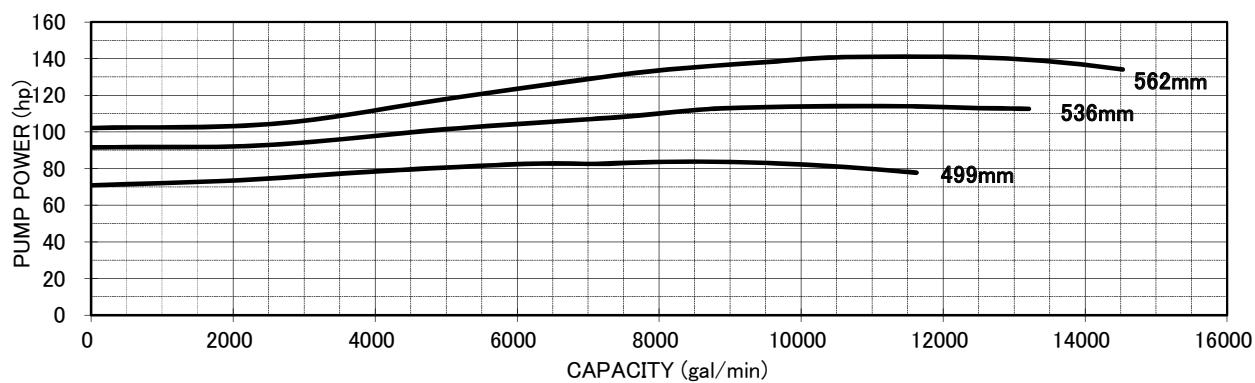
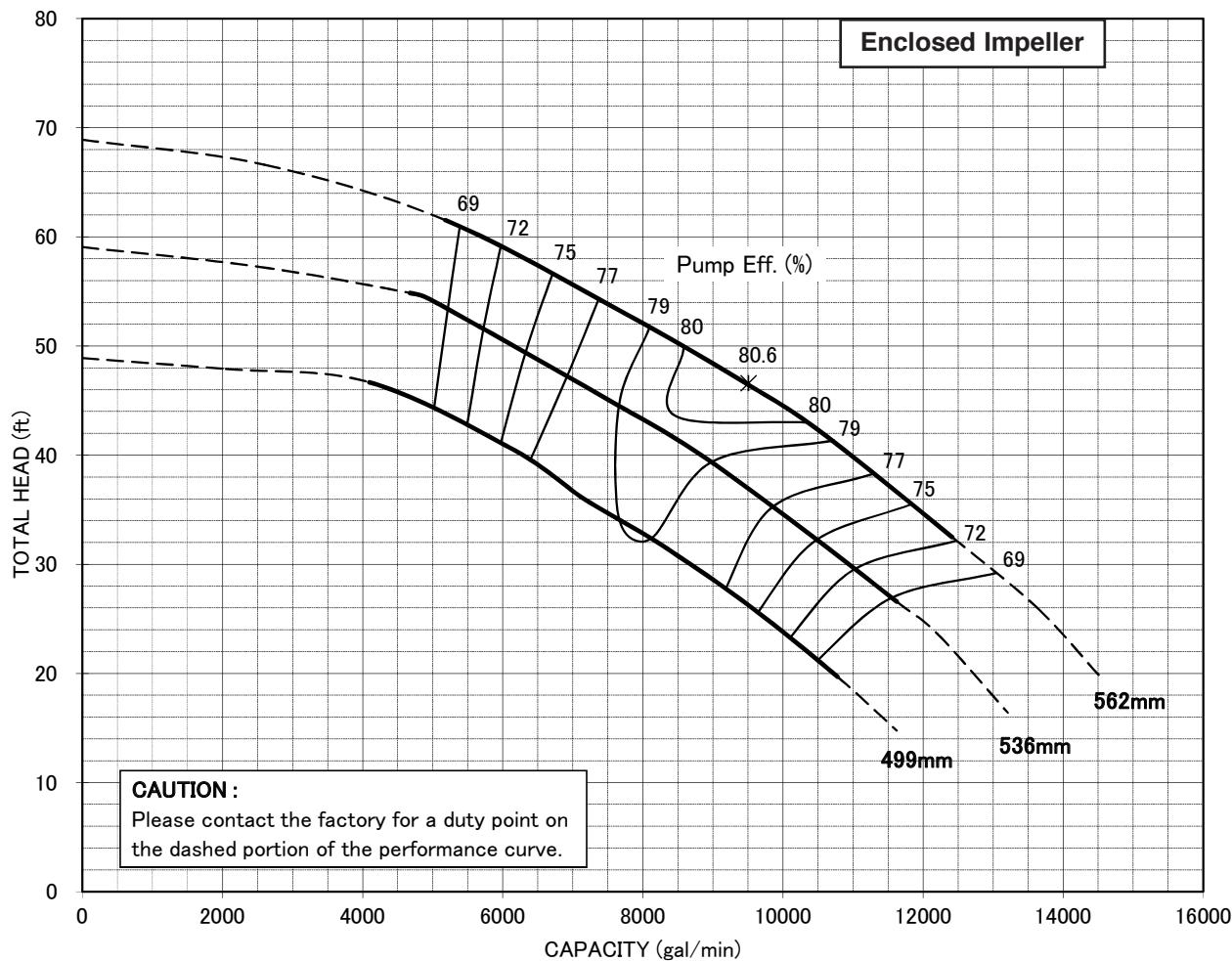
HP

X

X

720

X



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## Performance Curves

MODEL CODE: G2C

Project:

Chk'd:

Date:

**MODEL: 500DSC4  
600x500DSCA4  
175HP - 245HP**

GPM

FT

RPM

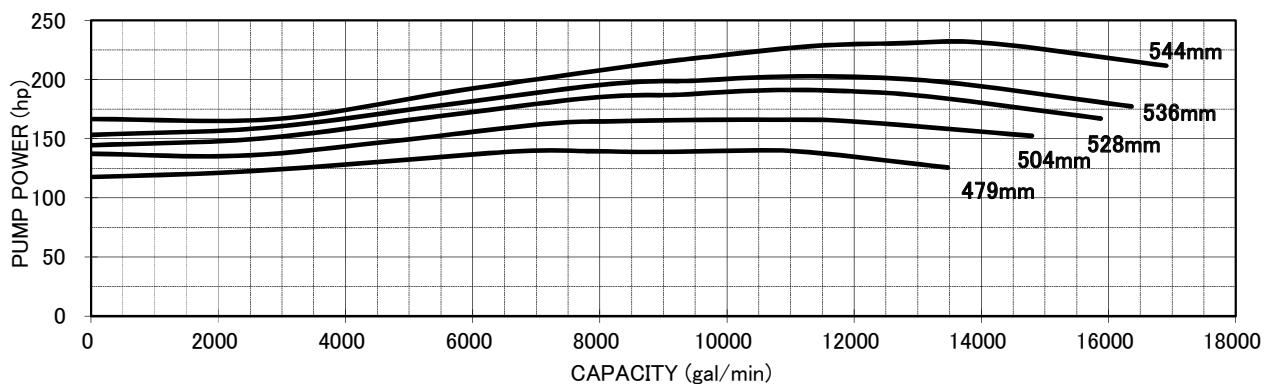
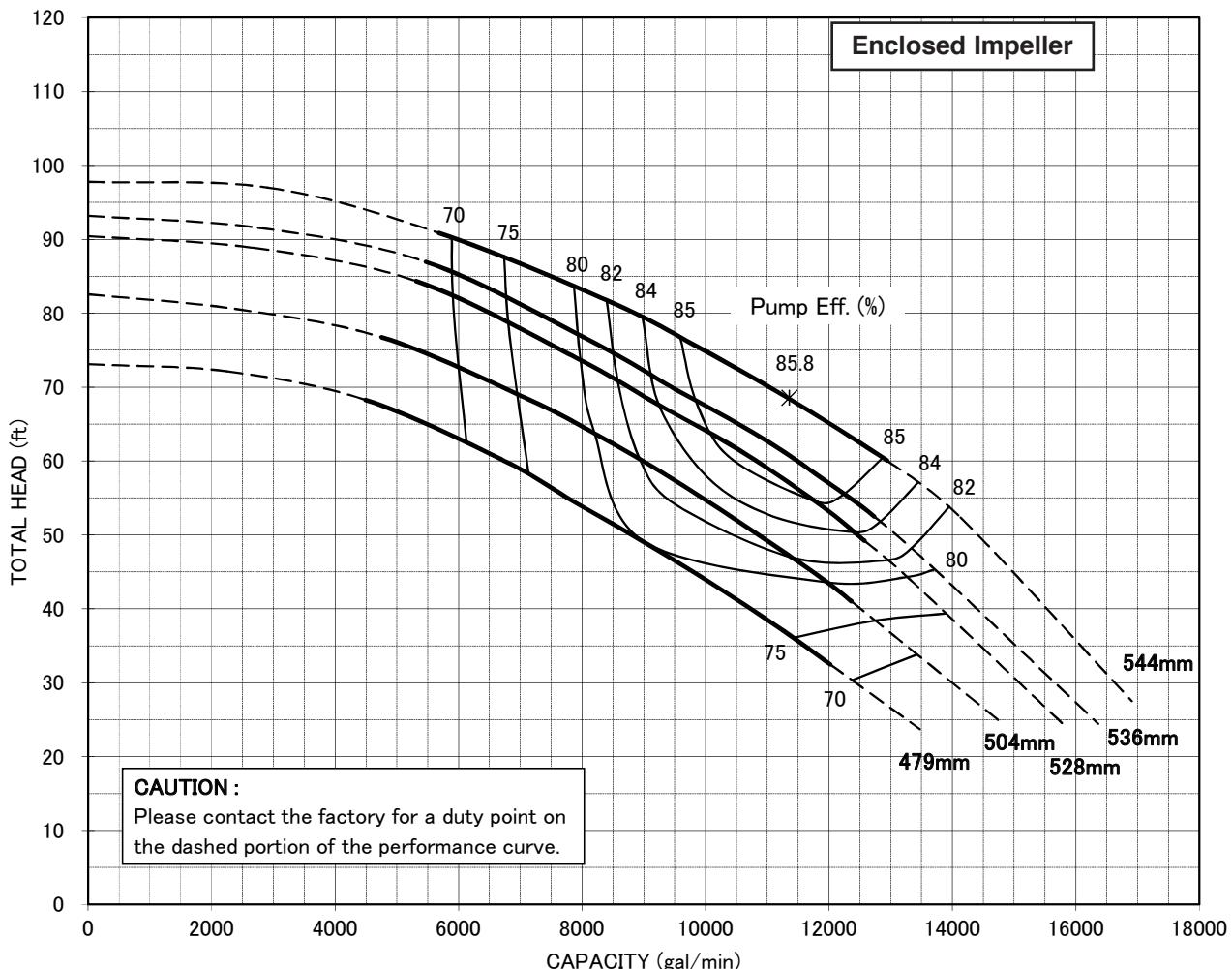
HP

x

x

900

x



## Performance Curves

MODEL CODE: HO

Project:

Chk'd:

Date:

**MODEL: 150DSC4/DSC4C  
200x150DSCA4/DSCA4C  
50HP - 75HP**

GPM

FT

RPM

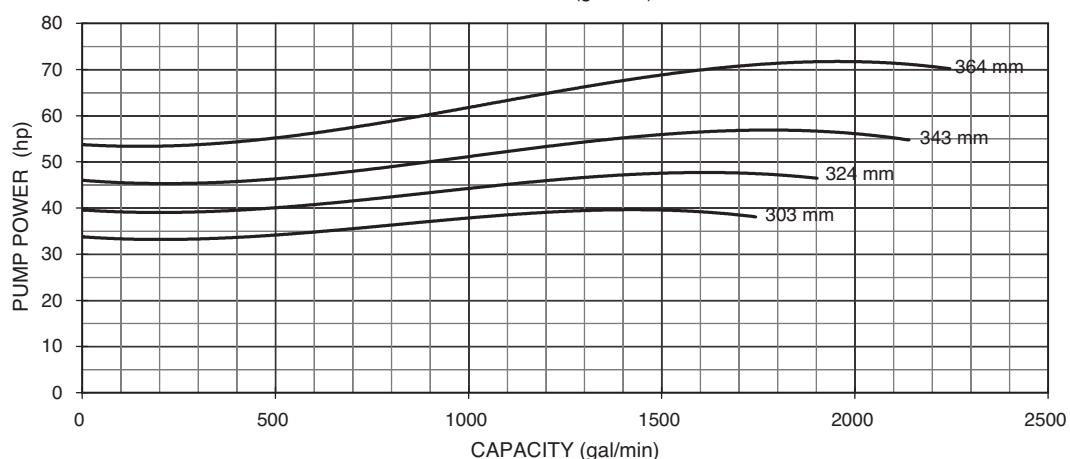
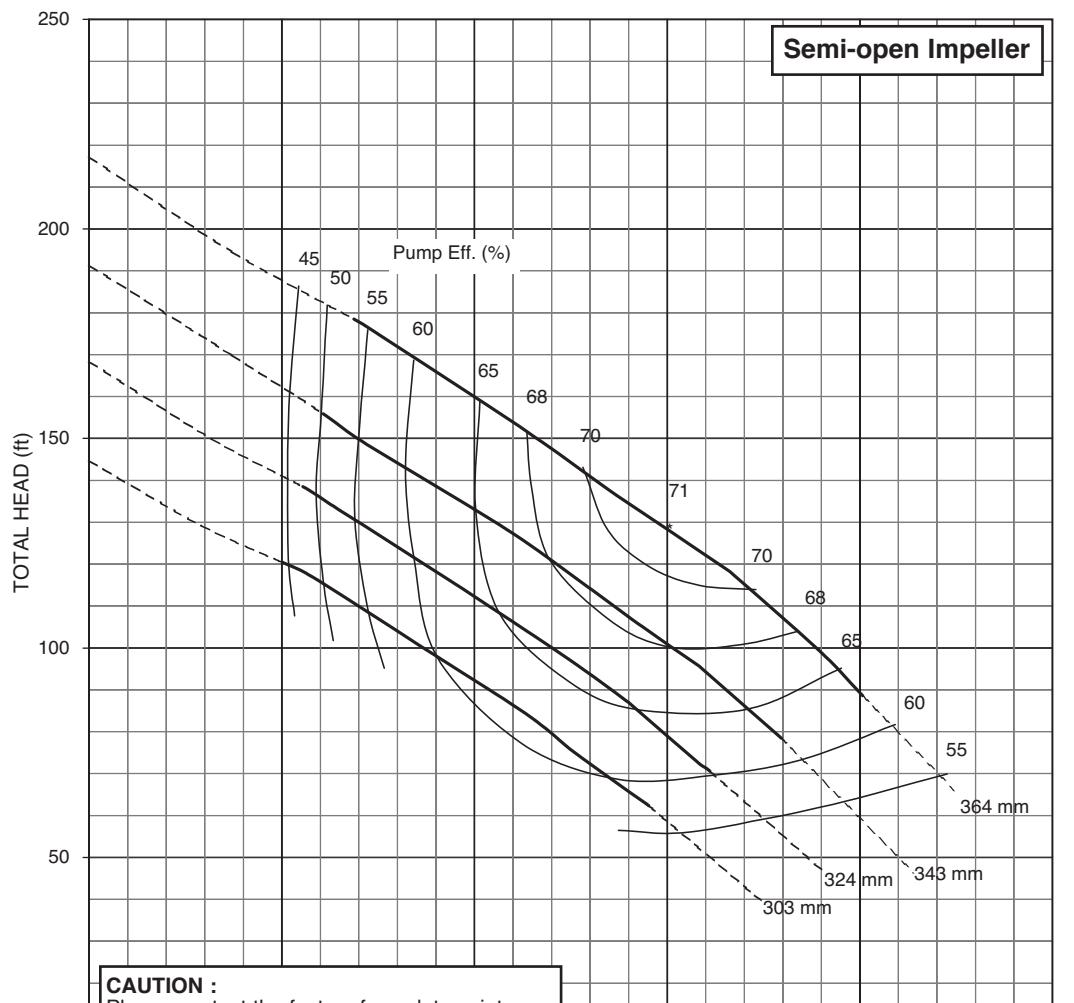
HP

X

X

1800

X



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## Performance Curves

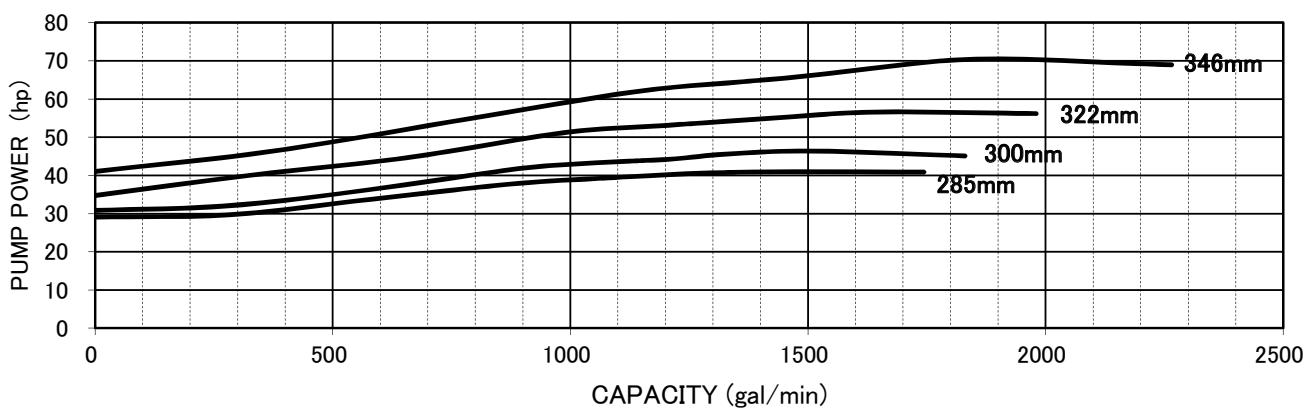
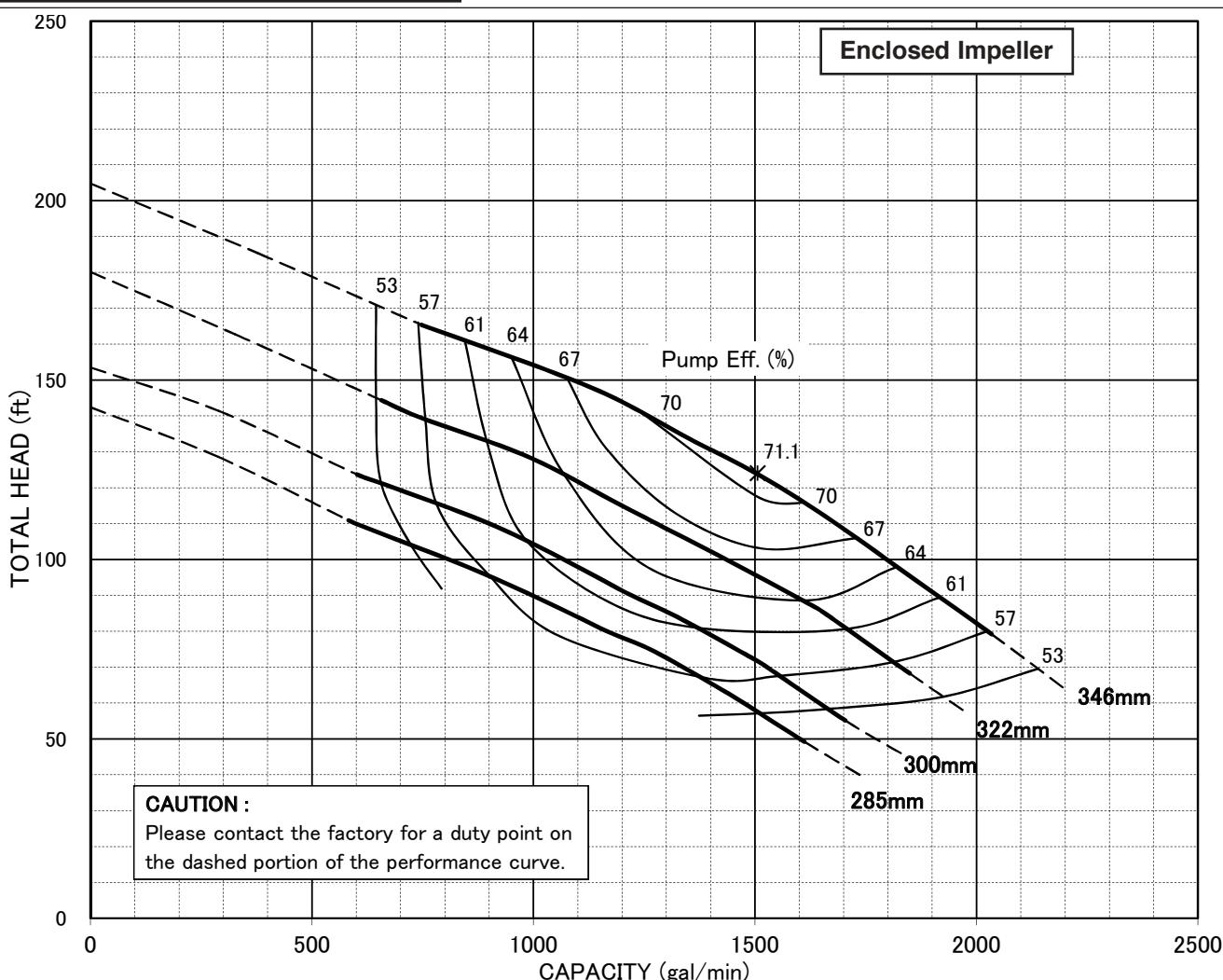
MODEL CODE: HC

Project:

Chk'd: Date:

**MODEL: 150DSC4/DSC4C  
200x150DSCA4/DSCA4C  
50HP - 75HP**

GPM                    FT                    RPM                    HP  
                       X                        X                        1800                X



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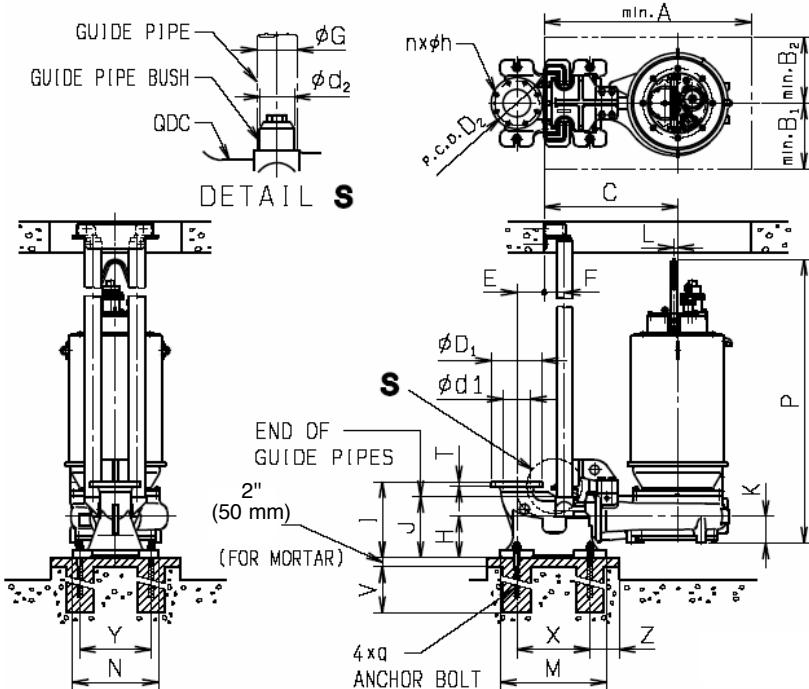
**Dimensions**

Project:

Model:

Chk'd:

Date:

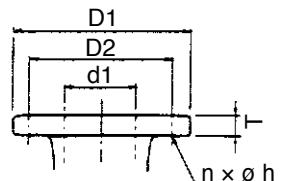
**Model 150DSC4/DSC4C Model Code AO(C)\* with Quick Discharge Connector****Weights<sup>†</sup>**

Unit: lbs.

| Model       | HP | Pump | QDC |
|-------------|----|------|-----|
| AO(C)-46050 | 50 | 1811 |     |
| AO(C)-46060 | 60 | 1877 |     |
| AO(C)-46075 | 75 | 1987 | 243 |

**Unit: kg**

| Model       | kW | Pump | QDC |
|-------------|----|------|-----|
| AO(C)-46050 | 37 | 822  |     |
| AO(C)-46060 | 45 | 952  |     |
| AO(C)-46075 | 55 | 901  | 110 |

**Flange Detail**

Unit: inches

| D1 | D2    | T | n | h   |
|----|-------|---|---|-----|
| 11 | 9 1/2 | 1 | 8 | 7/8 |

Unit: mm

| D1    | D2    | T    | n | h  |
|-------|-------|------|---|----|
| 279.4 | 241.3 | 25.4 | 8 | 23 |

**Unit: inches**

| Model       | HP | d1 | A      | B1      | B2      | C      | E     | F      | G     | H     | I       | J      |
|-------------|----|----|--------|---------|---------|--------|-------|--------|-------|-------|---------|--------|
| AO(C)-46050 | 50 |    |        |         |         |        |       |        |       |       |         |        |
| AO(C)-46060 | 60 | 6  | 44 1/2 | 14 3/16 | 14 3/16 | 28 3/4 | 5 7/8 | 4 5/16 | 3 1/2 | 8 7/8 | 16 5/16 | 13 1/8 |
| AO(C)-46075 | 75 |    |        |         |         |        |       |        |       |       |         |        |

**Unit: mm**

| Model       | KW | d1  | A    | B1  | B2  | C   | E   | F   | G    | H   | I   | J   |
|-------------|----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|
| AO(C)-46050 | 37 |     |      |     |     |     |     |     |      |     |     |     |
| AO(C)-46060 | 45 | 150 | 1130 | 360 | 360 | 730 | 150 | 110 | 89.1 | 225 | 415 | 333 |
| AO(C)-46075 | 55 |     |      |     |     |     |     |     |      |     |     |     |

| Model       | KW | K       | L     | M        | N      | P       | V        | X      | Y      | Z      | q | d2 |
|-------------|----|---------|-------|----------|--------|---------|----------|--------|--------|--------|---|----|
| AO(C)-46050 | 37 |         |       |          |        | 1451    |          |        |        |        |   |    |
| AO(C)-46060 | 45 | 5 11/16 | 13/16 | 22 13/16 | 18 1/2 | 59 1/2  | 17 11/16 | 15 3/4 | 15 3/8 | 6 5/16 | 1 | 3  |
| AO(C)-46075 | 55 |         |       |          |        | 61 1/16 |          |        |        |        |   |    |

**Notes:**

\*AO = Semi-open impeller model; AC = Enclosed impeller model

†The weight of pump includes the weight of 50 ft. (15.25 m) of cables, and does not include the weight of the guide pipes and the water in pump.



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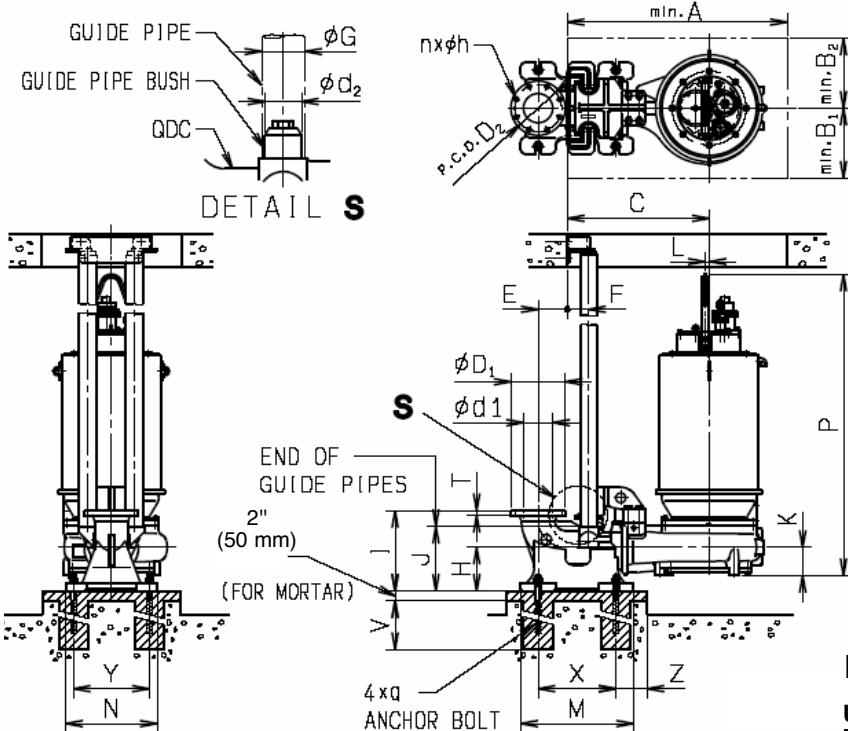
**Dimensions**

Project:

Model:

Chk'd:

Date:

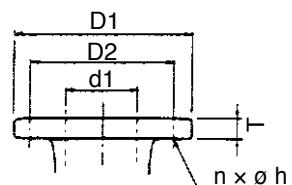
**Model 150DSC4/DSC4C Model Code BC with Quick Discharge Connector****Weights<sup>†</sup>**

Unit: lbs.

| Model    | HP  | Pump | QDC |
|----------|-----|------|-----|
| BC-46100 | 100 | 2185 | 243 |
| BC-46120 | 120 | 2776 |     |

Unit: kg

| Model    | kW | Pump | QDC |
|----------|----|------|-----|
| BC-46100 | 75 | 991  | 110 |
| BC-46120 | 90 | 1259 |     |

**Flange Detail**

Unit: inches

| D1 | D2    | T | n | h   |
|----|-------|---|---|-----|
| 11 | 9 1/2 | 1 | 8 | 7/8 |

Unit: mm

| D1    | D2    | T    | n | h  |
|-------|-------|------|---|----|
| 279.4 | 241.3 | 25.4 | 8 | 23 |

**Unit: inches**

| Model    | HP  | d1 | A      | B1       | B2       | C      | E     | F      | G     | H     | I       | J      |
|----------|-----|----|--------|----------|----------|--------|-------|--------|-------|-------|---------|--------|
| BC-46100 | 100 | 6  | 44 1/2 | 14 3/16  | 14 3/16  | 28 3/4 | 5 7/8 | 4 5/16 | 3 1/2 | 8 7/8 | 16 5/16 | 13 1/8 |
| BC-46120 | 120 |    | 45 1/4 | 14 15/16 | 14 15/16 |        |       |        |       |       |         |        |

| Model    | HP  | K       | L | M      | N        | P      | V       | X        | Y      | Z      | q      | d2 |
|----------|-----|---------|---|--------|----------|--------|---------|----------|--------|--------|--------|----|
| BC-46100 | 100 | 5 11/16 |   | 13/16  | 22 13/16 | 18 1/2 | 64 3/16 | 17 11/16 | 15 3/4 | 15 3/8 | 6 5/16 | 1  |
| BC-46120 | 120 |         |   | 1 3/16 |          |        | 67 3/8  |          |        |        |        | 3  |

**Unit: mm**

| Model    | kW | d1  | A    | B1  | B2  | C   | E   | F   | G    | H   | I   | J   |
|----------|----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|
| BC-46100 | 75 | 150 | 1130 | 360 | 360 | 730 | 150 | 110 | 89.1 | 225 | 415 | 333 |
| BC-46120 | 90 |     | 1150 | 380 | 380 |     |     |     |      |     |     |     |

| Model    | kW | K   | L  | M   | N   | P    | V   | X   | Y   | Z   | q  | d2 |
|----------|----|-----|----|-----|-----|------|-----|-----|-----|-----|----|----|
| BC-46100 | 75 | 145 | 20 | 580 | 470 | 1631 | 450 | 400 | 390 | 160 | 24 | 75 |
| BC-46120 | 90 |     | 30 |     |     | 1712 |     |     |     |     |    |    |

**Notes:**

<sup>†</sup>The weight of pump includes the weight of 50 ft. (15.25 m) of cables, and does not include the weight of the guide pipes and the water in pump.



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## Dimensions

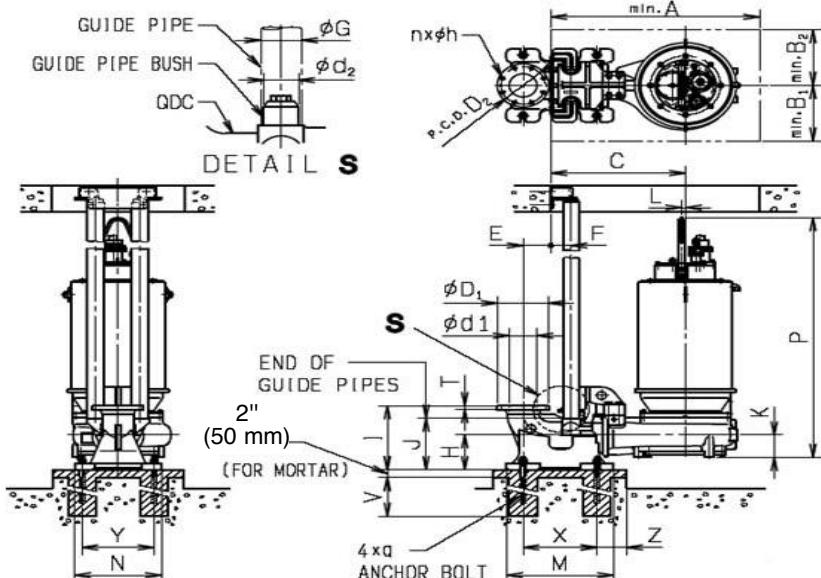
Project:

Model:

Chk'd:

Date:

## Model 150DSC4/DSC4C\* Model Code CC with Quick Discharge Connector



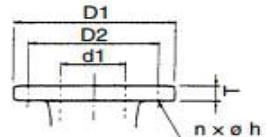
## Weights

Unit: lbs.

| Model    | HP  | Pump | QDC |
|----------|-----|------|-----|
| CC-46120 | 120 | 2906 |     |
| CC-46145 | 145 | 3067 |     |
| CC-46175 | 175 | 3396 | 243 |

Unit: kg

| Model    | kW  | Pump | QDC |
|----------|-----|------|-----|
| CC-46120 | 90  | 1318 |     |
| CC-46145 | 110 | 1391 |     |
| CC-46175 | 132 | 1540 | 110 |



## Flange Detail

Unit: inches

| D1 | D2    | T | n | h   |
|----|-------|---|---|-----|
| 11 | 9 1/2 | 1 | 8 | 7/8 |

Unit: mm

| D1    | D2    | T    | n | h  |
|-------|-------|------|---|----|
| 279.4 | 241.3 | 25.4 | 8 | 23 |

Unit: inches

| Model    | HP  | d1 | A       | B1     | B2       | C        | E     | F      | G     | H     | I       | J      |
|----------|-----|----|---------|--------|----------|----------|-------|--------|-------|-------|---------|--------|
| CC-46120 | 120 |    |         |        |          |          |       |        |       |       |         |        |
| CC-46145 | 145 | 6  | 48 1/16 | 15 3/4 | 14 15/16 | 30 11/16 | 5 7/8 | 4 5/16 | 3 1/2 | 8 7/8 | 16 5/16 | 13 1/8 |
| CC-46175 | 175 |    |         |        |          |          |       |        |       |       |         |        |

| Model    | HP  | K       | L      | M        | N      | V        | X        | Y      | Z      | q      | d2      |
|----------|-----|---------|--------|----------|--------|----------|----------|--------|--------|--------|---------|
| CC-46120 | 120 |         |        |          |        | 67 3/8   |          |        |        |        |         |
| CC-46145 | 145 | 5 11/16 | 1 3/16 | 22 13/16 | 18 1/2 | 70 15/16 | 17 11/16 | 15 3/4 | 15 3/8 | 6 5/16 | M24     |
| CC-46175 | 175 |         |        |          |        | 75 1/4   |          |        |        |        | 2 15/16 |

Unit: mm

| Model    | kW  | d1  | A    | B1  | B2  | C   | E   | F   | G    | H   | I   | J   |
|----------|-----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|
| CC-46120 | 90  |     |      |     |     |     |     |     |      |     |     |     |
| CC-46145 | 110 | 150 | 1220 | 400 | 380 | 780 | 150 | 110 | 89.1 | 225 | 415 | 333 |
| CC-46175 | 132 |     |      |     |     |     |     |     |      |     |     |     |

| Model    | kW  | K   | L  | M   | N   | P    | V   | X   | Y   | Z   | q   | d2 |
|----------|-----|-----|----|-----|-----|------|-----|-----|-----|-----|-----|----|
| CC-46120 | 90  |     |    |     |     | 1712 |     |     |     |     |     |    |
| CC-46145 | 110 | 145 | 30 | 580 | 470 | 1802 | 450 | 400 | 390 | 160 | M24 | 75 |
| CC-46175 | 132 |     |    |     |     | 1912 |     |     |     |     |     |    |

## Notes:

<sup>†</sup>The weight of pump includes the weight of 50 ft. (15.25 m) of cables, and does not include the weight of the guide pipes and the water in pump.

\*175HP Model is not available in ICS.



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## Dimensions

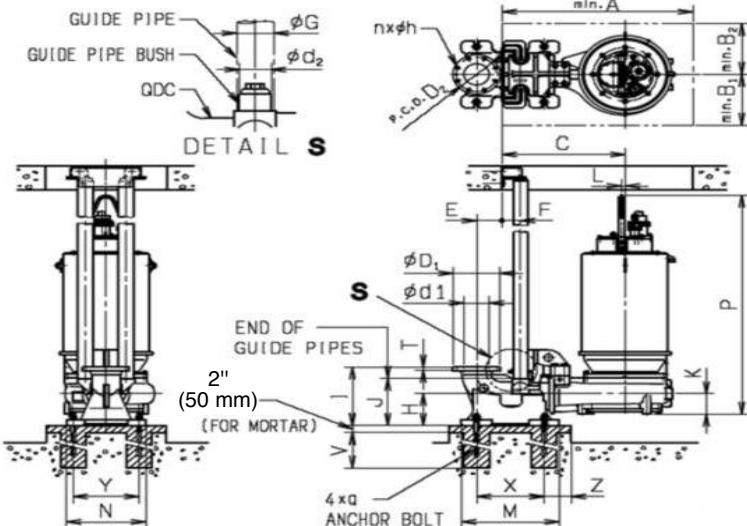
Project:

Model:

Chk'd:

Date:

## Model 150DSC4 Model Code C1C with Quick Discharge Connector



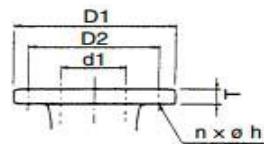
## Weights

Unit: lbs.

| Model     | HP  | Pump | QDC |
|-----------|-----|------|-----|
| C1C-46175 | 175 | 3605 | 243 |
| C1C-46200 | 200 | 4575 |     |
| C1C-46215 | 215 | 4597 |     |
| C1C-46245 | 245 | 4994 |     |

Unit: kg

| Model     | kW  | Pump | QDC |
|-----------|-----|------|-----|
| C1C-46175 | 132 | 1635 | 110 |
| C1C-46200 | 150 | 2075 |     |
| C1C-46215 | 160 | 2085 |     |
| C1C-46245 | 185 | 2265 |     |



## Flange Detail

Unit: inches

| D1 | D2    | T | n | h   |
|----|-------|---|---|-----|
| 11 | 9 1/2 | 1 | 8 | 7/8 |

Unit: mm

| D1    | D2    | T    | n | h  |
|-------|-------|------|---|----|
| 279.4 | 241.3 | 25.4 | 8 | 23 |

Unit: inches

| Model     | HP  | d1 | A       | B1      | B2      | C      | E     | F      | G     | H     | I       | J      |
|-----------|-----|----|---------|---------|---------|--------|-------|--------|-------|-------|---------|--------|
| C1C-46175 | 175 | 6  | 51 3/16 | 17 5/16 | 17 5/16 | 31 7/8 | 5 7/8 | 4 5/16 | 3 1/2 | 8 7/8 | 16 5/16 | 13 1/8 |
| C1C-46200 | 200 |    |         |         |         |        |       |        |       |       |         |        |
| C1C-46215 | 215 |    |         |         |         |        |       |        |       |       |         |        |
| C1C-46245 | 245 |    |         |         |         |        |       |        |       |       |         |        |

Unit: mm

| Model     | kW  | d1  | A    | B1  | B2  | C   | E   | F   | G    | H   | I   | J   |
|-----------|-----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|
| C1C-46175 | 132 | 150 | 1300 | 440 | 440 | 810 | 150 | 110 | 89.1 | 225 | 415 | 333 |
| C1C-46200 | 150 |     |      |     |     |     |     |     |      |     |     |     |
| C1C-46215 | 160 |     |      |     |     |     |     |     |      |     |     |     |
| C1C-46245 | 185 |     |      |     |     |     |     |     |      |     |     |     |

| Model     | kW  | K   | L  | M   | N   | P    | V   | X   | Y   | Z   | q   | d2 |
|-----------|-----|-----|----|-----|-----|------|-----|-----|-----|-----|-----|----|
| C1C-46175 | 132 | 165 | 30 | 580 | 470 | 1932 | 450 | 400 | 390 | 160 | M24 | 75 |
| C1C-46200 | 150 |     |    |     |     | 2034 |     |     |     |     |     |    |
| C1C-46215 | 160 |     |    |     |     | 2034 |     |     |     |     |     |    |
| C1C-46245 | 185 |     |    |     |     | 2174 |     |     |     |     |     |    |

## Notes:

<sup>†</sup>The weight of pump includes the weight of 50 ft. (15.25 m) of cables, and does not include the weight of the guide pipes and the water in pump.



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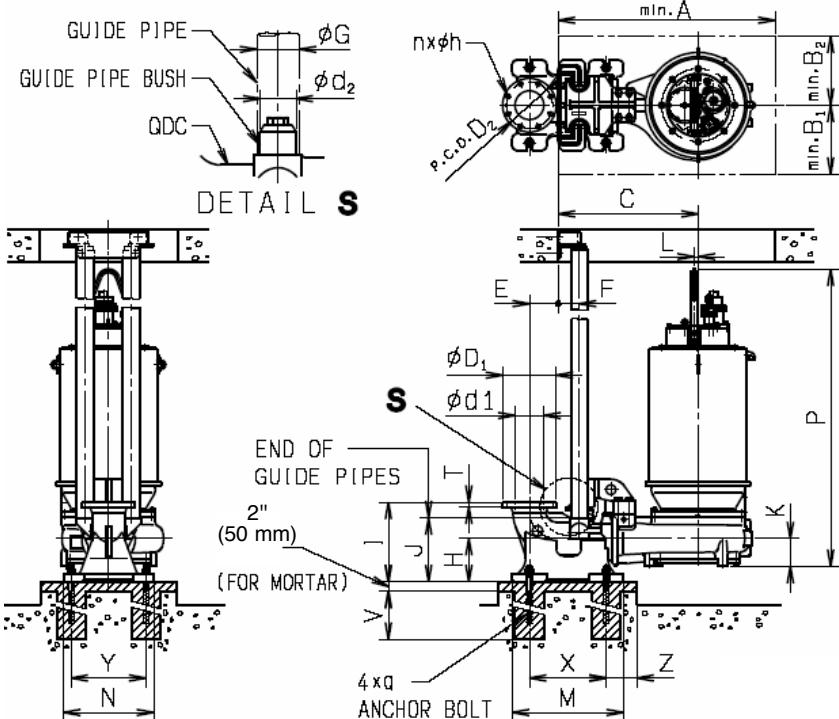
**Dimensions**

Project:

Model:

Chk'd:

Date:

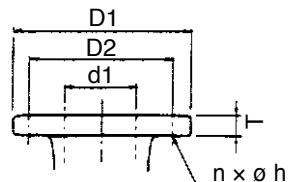
**Model 250DSC4/DSC4C Model Code EO(C)\* with Quick Discharge Connector****Weights<sup>†</sup>**

Unit: lbs.

| Model       | HP  | Pump | QDC |
|-------------|-----|------|-----|
| EO(C)-66100 | 100 | 3354 |     |
| EO(C)-66120 | 120 | 3393 |     |
| EO(C)-66145 | 145 | 3617 | 375 |

Unit: kg

| Model       | kW  | Pump | QDC |
|-------------|-----|------|-----|
| EO(C)-66100 | 75  | 1521 |     |
| EO(C)-66120 | 90  | 1539 |     |
| EO(C)-66145 | 110 | 1640 | 170 |

**Flange Detail**

Unit: inches

| D1 | D2     | T      | n  | h |
|----|--------|--------|----|---|
| 16 | 14 1/4 | 1 3/16 | 12 | 1 |

Unit: mm

| D1    | D2  | T    | n  | h  |
|-------|-----|------|----|----|
| 406.4 | 362 | 30.3 | 12 | 26 |

**Unit: inches**

| Model       | HP  | d1 | A      | B1      | B2     | C      | E      | F      | G     | H       | I        | J      |
|-------------|-----|----|--------|---------|--------|--------|--------|--------|-------|---------|----------|--------|
| EO(C)-66100 | 100 |    |        |         |        |        |        |        |       |         |          |        |
| EO(C)-66120 | 120 | 10 | 55 1/2 | 19 5/16 | 15 3/8 | 35 5/8 | 8 7/16 | 4 5/16 | 3 1/2 | 11 7/16 | 22 13/16 | 17 5/8 |
| EO(C)-66145 | 145 |    |        |         |        |        |        |        |       |         |          |        |

| Model       | HP  | K     | L      | M        | N      | P        | V        | X        | Y      | Z      | q | d2 |
|-------------|-----|-------|--------|----------|--------|----------|----------|----------|--------|--------|---|----|
| EO(C)-66100 | 100 |       |        |          |        | 73 11/16 |          |          |        |        |   |    |
| EO(C)-66120 | 120 | 8 1/4 | 1 3/16 | 24 13/16 | 21 5/8 | 75 11/16 | 17 11/16 | 17 11/16 | 18 1/2 | 6 5/16 | 1 | 3  |
| EO(C)-66145 | 145 |       |        |          |        | 78 13/16 |          |          |        |        |   |    |

**Unit: mm**

| Model       | kW  | d1  | A    | B1  | B2  | C    | E   | F   | G    | H   | I   | J   |
|-------------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|-----|
| EO(C)-66100 | 75  |     |      |     |     |      |     |     |      |     |     |     |
| EO(C)-66120 | 90  | 250 | 1410 | 490 | 390 | 905  | 215 | 110 | 89.1 | 290 | 580 | 448 |
| EO(C)-66145 | 110 |     |      |     |     |      |     |     |      |     |     |     |
| Model       | kW  | K   | L    | M   | N   | P    | V   | X   | Y    | Z   | q   | d2  |
| EO(C)-66100 | 75  |     |      |     |     | 1872 |     |     |      |     |     |     |
| EO(C)-66120 | 90  | 210 | 30   | 630 | 550 | 1922 | 450 | 450 | 470  | 160 | 24  | 75  |
| EO(C)-66145 | 110 |     |      |     |     | 2002 |     |     |      |     |     |     |

**Notes:**

\*EO = Semi-open impeller model; EC = Enclosed impeller model

†The weight of pump includes the weight of 50 ft. (15.25 m) of cables, and does not include the weight of the guide pipes and the water in pump.



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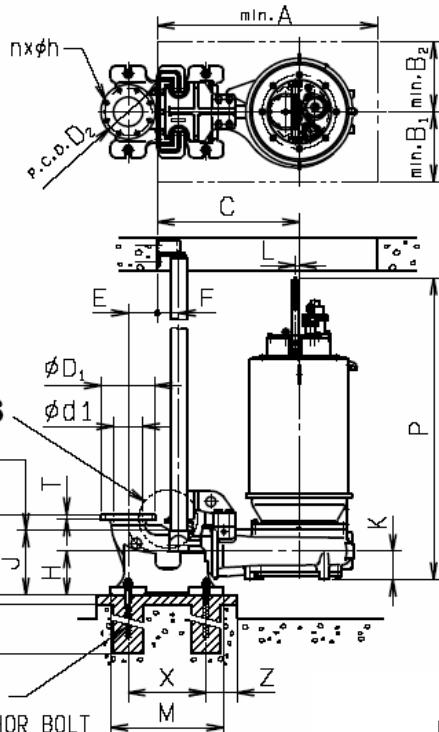
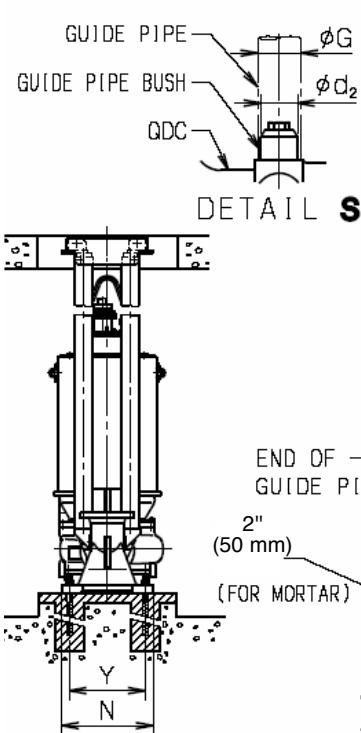
**Dimensions**

Project:

Model:

Chk'd:

Date:

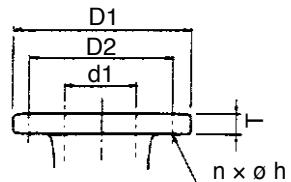
**Model 300DSC4/DSC4C Model Code FO(C)\* with Quick Discharge Connector****Weights<sup>†</sup>**

Unit: lbs.

| Model       | HP | Pump | QDC |
|-------------|----|------|-----|
| FO(C)-66050 | 50 | 2279 | 507 |
| FO(C)-66060 | 60 | 2560 |     |

Unit: kg

| Model       | kW | Pump | QDC |
|-------------|----|------|-----|
| FO(C)-66050 | 37 | 1034 | 230 |
| FO(C)-66060 | 45 | 1161 |     |

**Flange Detail**

Unit: inches

| D1 | D2 | T     | n  | h |
|----|----|-------|----|---|
| 19 | 17 | 1 1/4 | 12 | 1 |

Unit: mm

| D1    | D2    | T    | n  | h  |
|-------|-------|------|----|----|
| 482.6 | 431.8 | 31.8 | 12 | 26 |

**Unit: inches**

| Model       | HP | d1 | A      | B1       | B2     | C       | E      | F      | G     | H  | I  | J        |
|-------------|----|----|--------|----------|--------|---------|--------|--------|-------|----|----|----------|
| FO(C)-66050 | 50 | 12 | 53 1/4 | 17 11/16 | 13 3/4 | 34 7/16 | 10 1/4 | 4 5/16 | 3 1/2 | 13 | 26 | 19 13/16 |
| FO(C)-66060 | 60 |    |        |          |        |         |        |        |       |    |    |          |

| Model       | HP | K       | L     | M      | N       | P        | V        | X        | Y       | Z      | q | d2 |
|-------------|----|---------|-------|--------|---------|----------|----------|----------|---------|--------|---|----|
| FO(C)-66050 | 50 | 9 13/16 | 13/16 | 26 3/4 | 22 7/16 | 64 13/16 | 17 11/16 | 19 11/16 | 19 5/16 | 6 5/16 | 1 | 3  |
| FO(C)-66060 | 60 |         |       |        |         | 66 3/8   |          |          |         |        |   |    |

**Unit: mm**

| Model       | kW | d1  | A    | B1  | B2  | C   | E   | F   | G    | H   | I   | J   |
|-------------|----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|
| FO(C)-66050 | 37 | 300 | 1350 | 450 | 350 | 875 | 260 | 110 | 89.1 | 330 | 660 | 503 |
| FO(C)-66060 | 45 |     |      |     |     |     |     |     |      |     |     |     |

| Model       | kW | K   | L  | M   | N   | P    | V   | X   | Y   | Z   | q  | d2 |
|-------------|----|-----|----|-----|-----|------|-----|-----|-----|-----|----|----|
| FO(C)-66050 | 37 | 250 | 20 | 680 | 570 | 1646 | 450 | 500 | 490 | 160 | 24 | 75 |
| FO(C)-66060 | 45 |     |    |     |     | 1686 |     |     |     |     |    |    |

**Notes:**

\*FO = Semi-open impeller model; FC = Enclosed impeller model

†The weight of pump includes the weight of 50 ft. (15.25 m) of cables, and does not include the weight of the guide pipes and the water in pump.

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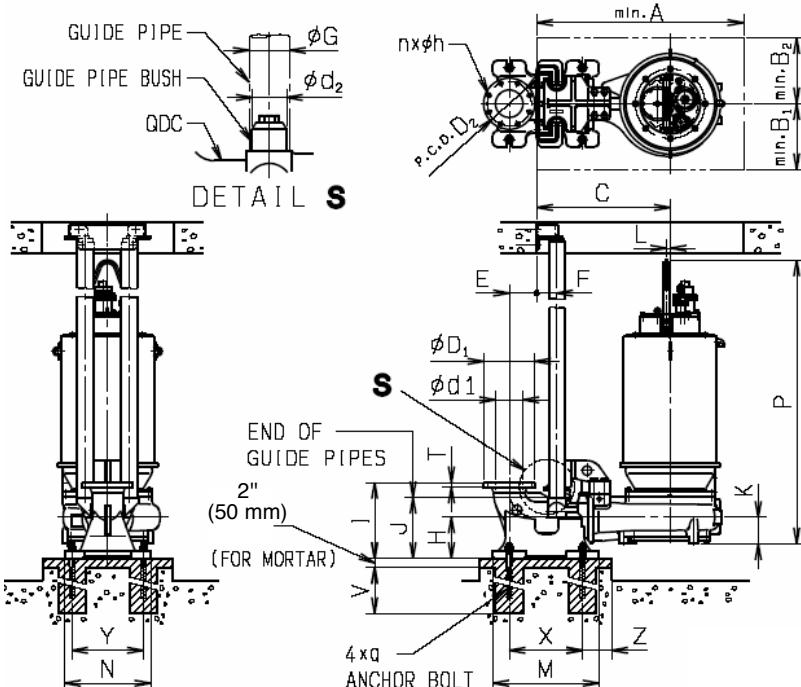
**Dimensions**

Project:

Model:

Chk'd:

Date:

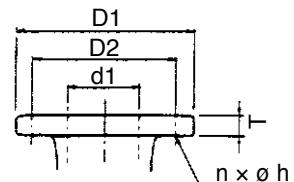
**Model 300DSC4/DSC4C Model Code GO(C)\* with Quick Discharge Connector****Weights<sup>†</sup>**

Unit: lbs.

| Model       | HP | Pump | QDC |
|-------------|----|------|-----|
| GO(C)-66075 | 75 | 3119 | 508 |

Unit: kg

| Model       | kW | Pump | QDC |
|-------------|----|------|-----|
| GO(C)-66075 | 55 | 1415 | 230 |

**Flange Detail**

Unit: inches

| D1 | D2 | T     | n  | h |
|----|----|-------|----|---|
| 19 | 17 | 1 1/4 | 12 | 1 |

Unit: mm

| D1    | D2    | T    | n  | h  |
|-------|-------|------|----|----|
| 482.6 | 431.8 | 31.8 | 12 | 26 |

**Unit: inches**

| Model       | HP | d1 | A      | B1     | B2       | C       | E      | F      | G     | H  | I  | J        |
|-------------|----|----|--------|--------|----------|---------|--------|--------|-------|----|----|----------|
| GO(C)-66075 | 75 | 12 | 54 3/4 | 18 1/2 | 14 15/16 | 35 1/16 | 10 1/4 | 4 5/16 | 3 1/2 | 13 | 26 | 19 13/16 |

| Model       | HP | K       | L      | M      | N       | P      | V        | X        | Y       | Z      | q | d2 |
|-------------|----|---------|--------|--------|---------|--------|----------|----------|---------|--------|---|----|
| GO(C)-66075 | 75 | 9 13/16 | 1 3/16 | 26 3/4 | 22 7/16 | 71 3/4 | 17 11/16 | 19 11/16 | 19 5/16 | 6 5/16 | 1 | 3  |

**Unit: mm**

| Model       | kW | d1  | A    | B1  | B2  | C   | E   | F   | G    | H   | I   | J   |
|-------------|----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|
| GO(C)-66075 | 55 | 300 | 1390 | 470 | 380 | 890 | 260 | 110 | 89.1 | 330 | 660 | 503 |

| Model       | kW | K   | L  | M   | N   | P    | V   | X   | Y   | Z   | q  | d2 |
|-------------|----|-----|----|-----|-----|------|-----|-----|-----|-----|----|----|
| GO(C)-66075 | 55 | 250 | 30 | 680 | 570 | 1822 | 450 | 500 | 490 | 160 | 24 | 75 |

**Notes:**

\*GO = Semi-open impeller model; GC = Enclosed impeller model

†The weight of pump includes the weight of 50 ft. (15.25 m) of cables, and does not include the weight of the guide pipes and the water in pump.



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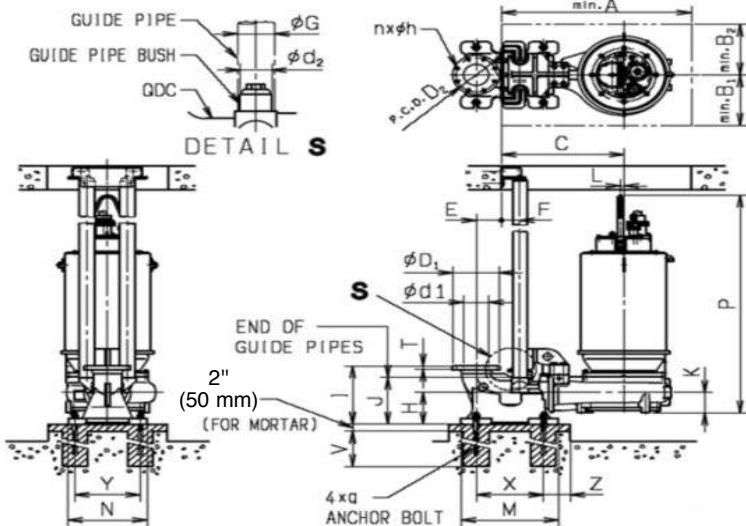
**Dimensions**

Project:

Model:

Chk'd:

Date:

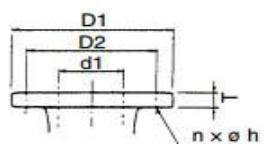
**Model 300DSC4 Model Code EEC with Quick Discharge Connector****Weights**

Unit: lbs.

| Model     | HP  | Pump | QDC |
|-----------|-----|------|-----|
| EEC-66175 | 175 | 4873 | 507 |
| EEC-66200 | 200 | 5248 |     |
| EEC-66215 | 215 | 5270 |     |
| EEC-66245 | 245 | 5645 |     |

Unit: kg

| Model     | kW  | Pump | QDC |
|-----------|-----|------|-----|
| EEC-66175 | 132 | 2210 | 230 |
| EEC-66200 | 150 | 2380 |     |
| EEC-66215 | 160 | 2390 |     |
| EEC-66245 | 185 | 2560 |     |

**Flange Detail**

Unit: inches

| D1 | D2 | T     | n  | h |
|----|----|-------|----|---|
| 19 | 17 | 1 1/4 | 12 | 1 |

Unit: mm

| D1    | D2    | T    | n  | h  |
|-------|-------|------|----|----|
| 482.6 | 431.8 | 31.8 | 12 | 26 |

Unit: inches

| Model     | HP  | d1 | A       | B1     | B2       | C        | E      | F      | G     | H  | I  | J        |
|-----------|-----|----|---------|--------|----------|----------|--------|--------|-------|----|----|----------|
| EEC-66175 | 175 | 12 | 59 7/16 | 21 1/4 | 16 15/16 | 37 13/16 | 10 1/4 | 4 5/16 | 3 1/2 | 13 | 26 | 19 13/16 |
| EEC-66200 | 200 |    |         |        |          |          |        |        |       |    |    |          |
| EEC-66215 | 215 |    |         |        |          |          |        |        |       |    |    |          |
| EEC-66245 | 245 |    |         |        |          |          |        |        |       |    |    |          |

Model

| Model     | HP  | K       | L      | M      | N       | P      | V        | X        | Y       | Z      | q   | d2      |
|-----------|-----|---------|--------|--------|---------|--------|----------|----------|---------|--------|-----|---------|
| EEC-66175 | 175 | 9 13/16 | 1 3/16 | 26 3/4 | 22 7/16 | 85     | 17 11/16 | 19 11/16 | 19 5/16 | 6 5/16 | M24 | 2 15/16 |
| EEC-66200 | 200 |         |        |        |         | 90 1/2 |          |          |         |        |     |         |
| EEC-66215 | 215 |         |        |        |         | 90 1/2 |          |          |         |        |     |         |
| EEC-66245 | 245 |         |        |        |         | 92 7/8 |          |          |         |        |     |         |

Unit: mm

| Model     | kW  | d1  | A    | B1  | B2  | C   | E   | F   | G    | H   | I   | J   |
|-----------|-----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|
| EEC-66175 | 132 | 300 | 1510 | 540 | 430 | 960 | 260 | 110 | 89.1 | 330 | 660 | 503 |
| EEC-66200 | 150 |     |      |     |     |     |     |     |      |     |     |     |
| EEC-66215 | 160 |     |      |     |     |     |     |     |      |     |     |     |
| EEC-66245 | 185 |     |      |     |     |     |     |     |      |     |     |     |

Model

| Model     | kW  | K   | L  | M   | N   | P    | V   | X   | Y   | Z   | q   | d2 |
|-----------|-----|-----|----|-----|-----|------|-----|-----|-----|-----|-----|----|
| EEC-66175 | 132 | 250 | 30 | 680 | 570 | 2159 | 450 | 500 | 490 | 160 | M24 | 75 |
| EEC-66200 | 150 |     |    |     |     | 2299 |     |     |     |     |     |    |
| EEC-66215 | 160 |     |    |     |     | 2299 |     |     |     |     |     |    |
| EEC-66245 | 185 |     |    |     |     | 2359 |     |     |     |     |     |    |

**Notes:**

<sup>†</sup>The weight of pump includes the weight of 50 ft. (15.25 m) of cables, and does not include the weight of the guide pipes and the water in pump.



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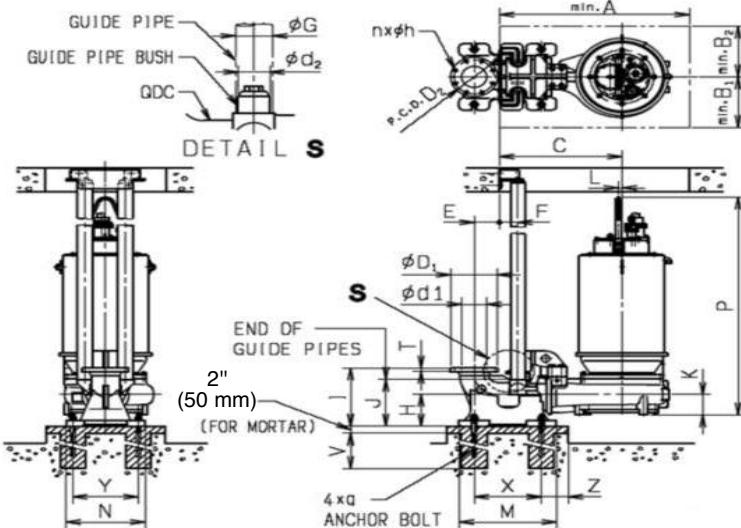
**Dimensions**

Project:

Model:

Chk'd:

Date:

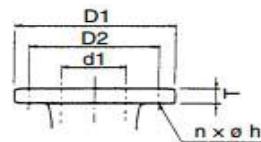
**Model 400DSC4 Model Code D1C with Quick Discharge Connector****Weights**

Unit: lbs.

| Model      | HP | Pump | QDC  |
|------------|----|------|------|
| D1C-106050 | 50 | 3947 |      |
| D1C-106060 | 60 | 4167 |      |
| D1C-106075 | 75 | 4388 | 1169 |

Unit: kg

| Model      | kW | Pump | QDC |
|------------|----|------|-----|
| D1C-106050 | 37 | 1790 |     |
| D1C-106060 | 45 | 1890 |     |
| D1C-106075 | 55 | 1990 | 530 |

**Flange Detail**

Unit: inches

| D1     | D2     | T      | n  | h |
|--------|--------|--------|----|---|
| 23 1/2 | 21 1/4 | 1 7/16 | 16 | 1 |

Unit: mm

| D1    | D2    | T    | n  | h  |
|-------|-------|------|----|----|
| 596.9 | 539.8 | 36.6 | 16 | 26 |

Unit: inches

| Model      | HP | d1     | A      | B1      | B2       | C        | E        | F       | G      | H     | I      | J        |
|------------|----|--------|--------|---------|----------|----------|----------|---------|--------|-------|--------|----------|
| D1C-106050 | 50 |        |        |         |          |          |          |         |        |       |        |          |
| D1C-106060 | 60 | 16     |        | 66 1/8  | 23 5/8   | 18 1/2   | 42 1/8   | 13      | 5 1/2  | 4 1/2 | 15 3/4 | 31 7/8   |
| D1C-106075 | 75 |        |        |         |          |          |          |         |        |       |        | 24 13/16 |
| Model      | HP | K      | L      | M       | N        | P        | V        | X       | Y      | Z     | q      | d2       |
| D1C-106050 | 50 |        |        |         |          | 75 11/16 |          |         |        |       |        |          |
| D1C-106060 | 60 | 12 5/8 | 1 3/16 | 32 5/16 | 24 13/16 | 80       | 17 11/16 | 25 3/16 | 21 5/8 | 7 7/8 | M24    | 3 7/8    |
| D1C-106075 | 75 |        |        |         |          | 83 1/8   |          |         |        |       |        |          |

Unit: mm

| Model      | kW | d1  | A  | B1   | B2  | C    | E    | F   | G   | H     | I   | J   |
|------------|----|-----|----|------|-----|------|------|-----|-----|-------|-----|-----|
| D1C-106050 | 37 |     |    |      |     |      |      |     |     |       |     |     |
| D1C-106060 | 45 | 400 |    | 1680 | 600 | 470  | 1070 | 330 | 140 | 114.3 | 400 | 810 |
| D1C-106075 | 55 |     |    |      |     |      |      |     |     |       |     | 630 |
| Model      | kW | K   | L  | M    | N   | P    | V    | X   | Y   | Z     | q   | d2  |
| D1C-106050 | 37 |     |    |      |     | 1922 |      |     |     |       |     |     |
| D1C-106060 | 45 | 320 | 30 | 820  | 630 | 2032 | 450  | 640 | 550 | 200   | M24 | 99  |
| D1C-106075 | 55 |     |    |      |     | 2112 |      |     |     |       |     |     |

**Notes:**

<sup>†</sup>The weight of pump includes the weight of 50 ft. (15.25 m) of cables, and does not include the weight of the guide pipes and the water in pump.



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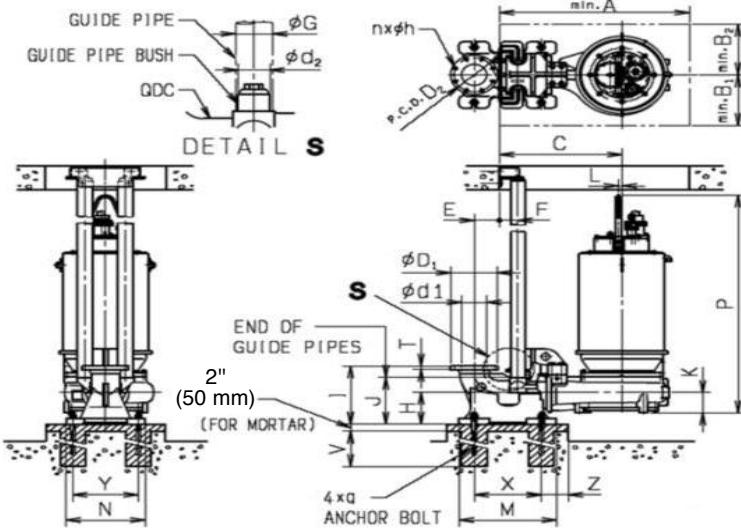
**Dimensions**

Project:

Model:

Chk'd:

Date:

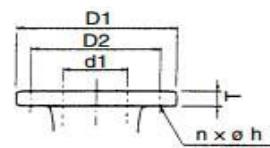
**Model 500DSC4 Model Code D2C with Quick Discharge Connector****Weights**

Unit: lbs.

| Model      | HP  | Pump | QDC  |
|------------|-----|------|------|
| D2C-106100 | 100 | 5424 | 1962 |

Unit: kg

| Model      | kW | Pump | QDC |
|------------|----|------|-----|
| D2C-106100 | 75 | 2460 | 890 |

**Flange Detail**

Unit: inches

| D1     | D2 | T       | n  | h     |
|--------|----|---------|----|-------|
| 27 1/2 | 25 | 1 11/16 | 20 | 1 1/4 |

Unit: mm

| D1  | D2  | T  | n  | h  |
|-----|-----|----|----|----|
| 699 | 635 | 43 | 20 | 32 |

Unit: inches

| Model      | HP  | d1 | A  | B1      | B2       | C       | E      | F     | G     | H        | I      | J      |
|------------|-----|----|----|---------|----------|---------|--------|-------|-------|----------|--------|--------|
| D2C-106100 | 100 | 20 | 74 | 25 3/16 | 19 11/16 | 48 7/16 | 15 3/8 | 5 1/2 | 4 1/2 | 19 11/16 | 39 3/8 | 31 1/8 |

| Model      | HP  | K       | L      | M  | N      | P       | V        | X      | Y       | Z     | q   | d2    |
|------------|-----|---------|--------|----|--------|---------|----------|--------|---------|-------|-----|-------|
| D2C-106100 | 100 | 14 3/16 | 1 3/16 | 39 | 28 3/4 | 86 9/16 | 17 11/16 | 29 1/2 | 25 9/16 | 7 7/8 | M24 | 3 7/8 |

Unit: mm

| Model      | kW | d1  | A    | B1  | B2  | C    | E   | F   | G     | H   | I    | J   |
|------------|----|-----|------|-----|-----|------|-----|-----|-------|-----|------|-----|
| D2C-106100 | 75 | 500 | 1880 | 640 | 500 | 1230 | 390 | 140 | 114.3 | 500 | 1000 | 790 |

| Model      | kW | K   | L  | M   | N   | P    | V   | X   | Y   | Z   | q   | d2 |
|------------|----|-----|----|-----|-----|------|-----|-----|-----|-----|-----|----|
| D2C-106100 | 75 | 360 | 30 | 990 | 730 | 2199 | 450 | 750 | 650 | 200 | M24 | 99 |

**Notes:**

<sup>†</sup>The weight of pump includes the weight of 50 ft. (15.25 m) of cables, and does not include the weight of the guide pipes and the water in pump.



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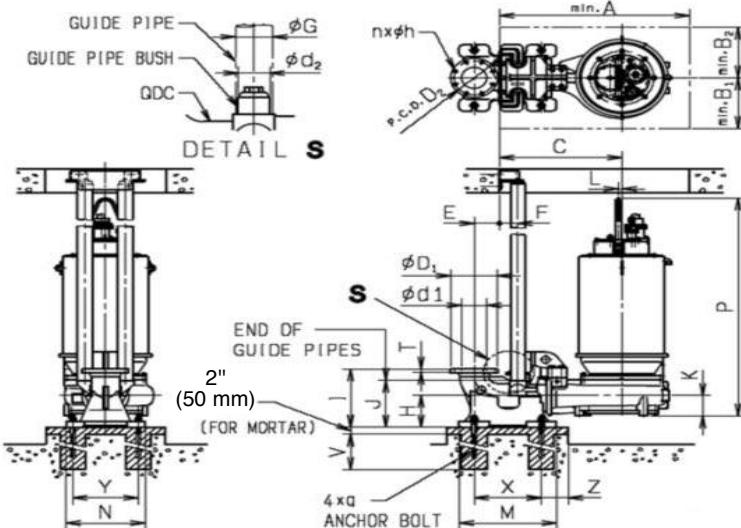
**Dimensions**

Project:

Model:

Chk'd:

Date:

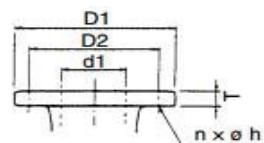
**Model 500DSC4 Model Code G1C with Quick Discharge Connector****Weights**

Unit: lbs.

| Model      | HP  | Pump | QDC  |
|------------|-----|------|------|
| G1C-106120 | 120 | 6273 | 1962 |
| G1C-106145 | 145 | 6626 |      |

Unit: kg

| Model      | kW  | Pump | QDC |
|------------|-----|------|-----|
| G1C-106120 | 90  | 2845 | 890 |
| G1C-106145 | 110 | 3005 |     |

**Flange Detail**

Unit: inches

| D1     | D2 | T       | n  | h     |
|--------|----|---------|----|-------|
| 27 1/2 | 25 | 1 11/16 | 20 | 1 1/4 |

Unit: mm

| D1  | D2  | T  | n  | h  |
|-----|-----|----|----|----|
| 699 | 635 | 43 | 20 | 32 |

Unit: inches

| Model      | HP  | d1 | A        | B1     | B2      | C      | E      | F     | G     | H        | I      | J      |
|------------|-----|----|----------|--------|---------|--------|--------|-------|-------|----------|--------|--------|
| G1C-106120 | 120 | 20 | 79 15/16 | 28 3/4 | 22 7/16 | 51 3/8 | 15 3/8 | 5 1/2 | 4 1/2 | 19 11/16 | 39 3/8 | 31 1/8 |
| G1C-106145 | 145 |    |          |        |         |        |        |       |       |          |        |        |

| Model      | HP  | K       | L      | M  | N      | P       | V        | X      | Y       | Z     | q   | d2    |
|------------|-----|---------|--------|----|--------|---------|----------|--------|---------|-------|-----|-------|
| G1C-106120 | 120 | 14 3/16 | 1 3/16 | 39 | 28 3/4 | 89 1/2  | 17 11/16 | 29 1/2 | 25 9/16 | 7 7/8 | M24 | 3 7/8 |
| G1C-106145 | 145 |         |        |    |        | 95 1/16 |          |        |         |       |     |       |

Unit: mm

| Model      | kW  | d1  | A    | B1  | B2  | C    | E   | F   | G     | H   | I    | J   |
|------------|-----|-----|------|-----|-----|------|-----|-----|-------|-----|------|-----|
| G1C-106120 | 90  | 500 | 2030 | 730 | 570 | 1305 | 390 | 140 | 114.3 | 500 | 1000 | 790 |
| G1C-106145 | 110 |     |      |     |     |      |     |     |       |     |      |     |

| Model      | kW  | K   | L  | M   | N   | P    | V   | X   | Y   | Z   | q   | d2 |
|------------|-----|-----|----|-----|-----|------|-----|-----|-----|-----|-----|----|
| G1C-106120 | 90  | 360 | 30 | 990 | 730 | 2274 | 450 | 750 | 650 | 200 | M24 | 99 |
| G1C-106145 | 110 |     |    |     |     | 2414 |     |     |     |     |     |    |

**Notes:**

<sup>†</sup>The weight of pump includes the weight of 50 ft. (15.25 m) of cables, and does not include the weight of the guide pipes and the water in pump.



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## Dimensions

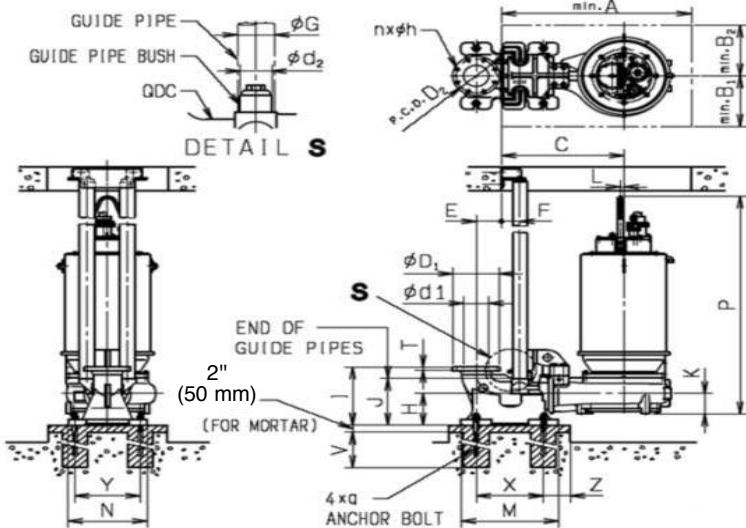
Project:

Model:

Chk'd:

Date:

## Model 500DSC4 Model Code G2C with Quick Discharge Connector



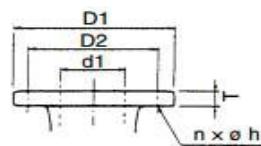
## Weights

Unit: lbs.

| Model     | HP  | Pump | QDC  |
|-----------|-----|------|------|
| G2C-86175 | 175 | 6615 | 1962 |
| G2C-86200 | 200 | 6880 |      |
| G2C-86215 | 215 | 6990 |      |
| G2C-86245 | 245 | 8445 |      |

Unit: kg

| Model     | kW  | Pump | QDC |
|-----------|-----|------|-----|
| G2C-86175 | 132 | 3000 | 890 |
| G2C-86200 | 150 | 3120 |     |
| G2C-86215 | 160 | 3170 |     |
| G2C-86245 | 185 | 3830 |     |



## Flange Detail

Unit: inches

| D1     | D2 | T       | n  | h     |
|--------|----|---------|----|-------|
| 27 1/2 | 25 | 1 11/16 | 20 | 1 1/4 |

Unit: mm

| D1  | D2  | T  | n  | h  |
|-----|-----|----|----|----|
| 699 | 635 | 43 | 20 | 32 |

Unit: inches

| Model     | HP  | d1 | A | B1 | B2 | C | E | F | G | H | I | J |
|-----------|-----|----|---|----|----|---|---|---|---|---|---|---|
| G2C-86175 | 175 |    |   |    |    |   |   |   |   |   |   |   |
| G2C-86200 | 200 |    |   |    |    |   |   |   |   |   |   |   |
| G2C-86215 | 215 |    |   |    |    |   |   |   |   |   |   |   |
| G2C-86245 | 245 |    |   |    |    |   |   |   |   |   |   |   |

| Model     | HP  | K | L | M | N | P        | V | X | Y | Z | q | d2 |
|-----------|-----|---|---|---|---|----------|---|---|---|---|---|----|
| G2C-86175 | 175 |   |   |   |   | 95 1/16  |   |   |   |   |   |    |
| G2C-86200 | 200 |   |   |   |   | 97 3/8   |   |   |   |   |   |    |
| G2C-86215 | 215 |   |   |   |   | 97 3/8   |   |   |   |   |   |    |
| G2C-86245 | 245 |   |   |   |   | 101 3/16 |   |   |   |   |   |    |

Unit: mm

| Model     | kW  | d1 | A | B1 | B2 | C | E | F | G | H | I | J |
|-----------|-----|----|---|----|----|---|---|---|---|---|---|---|
| G2C-86175 | 132 |    |   |    |    |   |   |   |   |   |   |   |
| G2C-86200 | 150 |    |   |    |    |   |   |   |   |   |   |   |
| G2C-86215 | 160 |    |   |    |    |   |   |   |   |   |   |   |
| G2C-86245 | 185 |    |   |    |    |   |   |   |   |   |   |   |

| Model     | kW  | K | L | M | N | P    | V | X | Y | Z | q | d2 |
|-----------|-----|---|---|---|---|------|---|---|---|---|---|----|
| G2C-86175 | 132 |   |   |   |   | 2414 |   |   |   |   |   |    |
| G2C-86200 | 150 |   |   |   |   | 2474 |   |   |   |   |   |    |
| G2C-86215 | 160 |   |   |   |   | 2474 |   |   |   |   |   |    |
| G2C-86245 | 185 |   |   |   |   | 2570 |   |   |   |   |   |    |

## Notes:

<sup>†</sup>The weight of pump includes the weight of 50 ft. (15.25 m) of cables, and does not include the weight of the guide pipes and the water in pump.



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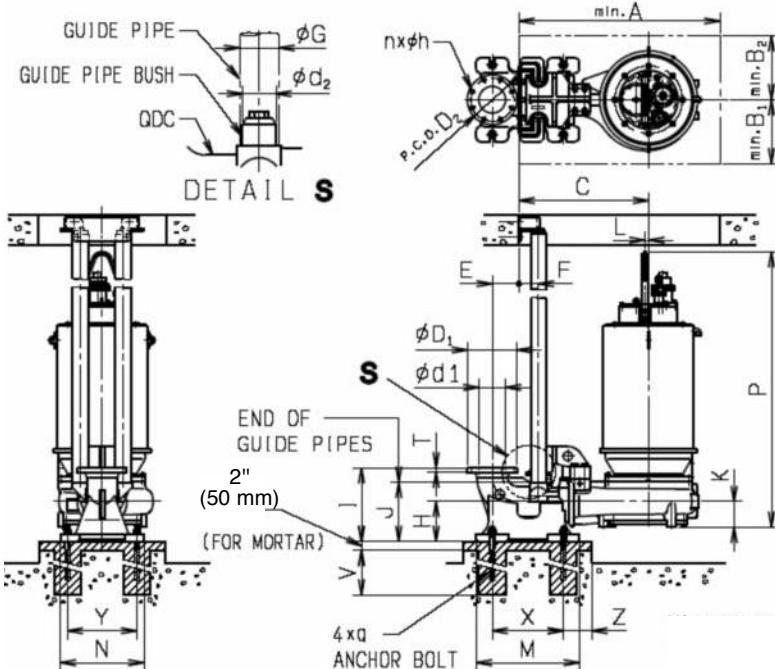
**Dimensions**

Project:

Model:

Chk'd:

Date:

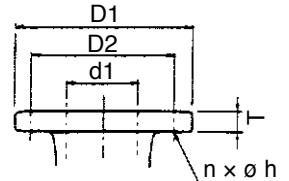
**Model 150DSC4/DSC4C Model Code HO(C)\* with Quick Discharge Connector****Weights<sup>†</sup>**

Unit: lbs.

| Model       | HP | Pump | QDC |
|-------------|----|------|-----|
| HO(C)-46050 | 50 | 1904 | 243 |
| HO(C)-46060 | 60 | 1970 |     |
| HO(C)-46075 | 75 | 2080 |     |

**Unit: kg**

| Model       | kW | Pump | QDC |
|-------------|----|------|-----|
| HO(C)-46050 | 37 | 864  | 110 |
| HO(C)-46060 | 45 | 894  |     |
| HO(C)-46075 | 55 | 944  |     |

**Flange Detail**

Unit: inches

| D1 | D2    | T | n | h   |
|----|-------|---|---|-----|
| 11 | 9 1/2 | 1 | 8 | 7/8 |

Unit: mm

| D1    | D2    | T    | n | h  |
|-------|-------|------|---|----|
| 279.4 | 241.3 | 25.4 | 8 | 23 |

**Unit: inches**

| Model       | HP | d1 | A      | B1      | B2      | C      | E     | F      | G     | H     | I       | J      |
|-------------|----|----|--------|---------|---------|--------|-------|--------|-------|-------|---------|--------|
| HO(C)-46050 | 50 |    |        |         |         |        |       |        |       |       |         |        |
| HO(C)-46060 | 60 | 6  | 44 1/2 | 14 3/16 | 14 3/16 | 28 3/4 | 5 7/8 | 4 5/16 | 3 1/2 | 8 7/8 | 16 5/16 | 13 1/8 |
| HO(C)-46075 | 75 |    |        |         |         |        |       |        |       |       |         |        |

| Model       | HP | K       | L     | M        | N      | P        | V        | X      | Y      | Z      | q | d2 |
|-------------|----|---------|-------|----------|--------|----------|----------|--------|--------|--------|---|----|
| HO(C)-46050 | 50 | 5 11/16 | 13/16 | 22 13/16 | 18 1/2 | 57 15/16 | 17 11/16 | 15 3/4 | 15 3/8 | 6 5/16 | 1 | 3  |
| HO(C)-46060 | 60 |         |       |          |        | 60 1/4   |          |        |        |        |   |    |
| HO(C)-46075 | 75 |         |       |          |        | 61 7/8   |          |        |        |        |   |    |

**Unit: mm**

| Model       | kW | d1  | A    | B1  | B2  | C   | E   | F   | G    | H   | I   | J   |
|-------------|----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|
| HO(C)-46050 | 37 |     |      |     |     |     |     |     |      |     |     |     |
| HO(C)-46060 | 45 | 150 | 1130 | 360 | 360 | 730 | 150 | 110 | 89.1 | 225 | 415 | 333 |
| HO(C)-46075 | 55 |     |      |     |     |     |     |     |      |     |     |     |

| Model       | kW | K   | L  | M   | N   | P    | V   | X   | Y   | Z   | q  | d2 |
|-------------|----|-----|----|-----|-----|------|-----|-----|-----|-----|----|----|
| HO(C)-46050 | 37 | 145 | 20 | 580 | 470 | 1471 | 450 | 400 | 390 | 160 | 24 | 75 |
| HO(C)-46060 | 45 |     |    |     |     | 1531 |     |     |     |     |    |    |
| HO(C)-46075 | 55 |     |    |     |     | 1571 |     |     |     |     |    |    |

**Notes:**

\*HO = Semi-open impeller model; HC = Enclosed impeller model

†The weight of pump includes the weight of 50 ft. (15.25 m) of cables, and does not include the weight of the guide pipes and the water in pump.



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**Dimensions**

Project:

Model:

Chk'd:

Date:

**Model 200x150DSCA4/DSCA4C Model Code AO(C)\*****Drypit Application****Weights****Unit: lbs.**

| Model       | HP | W1   | W2  | W3  | W4  |
|-------------|----|------|-----|-----|-----|
| AO(C)-46050 | 50 | 2031 |     |     | 265 |
| AO(C)-46060 | 60 | 2087 | 220 | 463 | 287 |
| AO(C)-46075 | 75 | 2208 |     |     | 287 |

**Unit: kg**

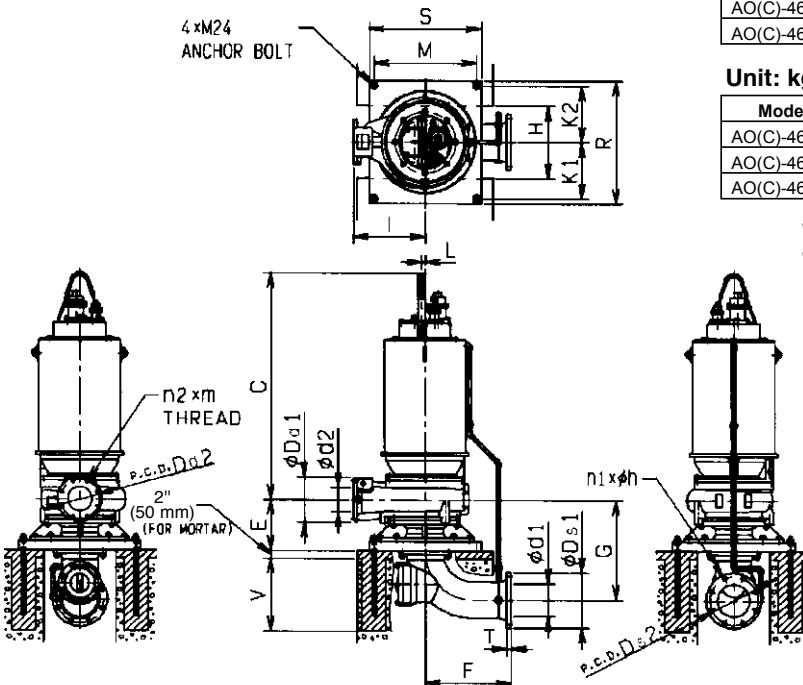
| Model       | kW | W1   | W2  | W3  | W4  |
|-------------|----|------|-----|-----|-----|
| AO(C)-46050 | 37 | 921  |     |     | 120 |
| AO(C)-46060 | 45 | 951  | 100 | 210 | 130 |
| AO(C)-46075 | 55 | 1002 |     |     | 130 |

W1: Pump weight<sup>†</sup>

W2: Suction elbow weight

W3: Base weight

W4: Water in pump weight

**Suction Flange****Unit: inches**

| Ds1    | Ds2    | T | n1 | h   |
|--------|--------|---|----|-----|
| 13 1/2 | 11 3/4 | 1 | 8  | 7/8 |

**Unit: mm**

| Ds1   | Ds2   | T    | n1 | h  |
|-------|-------|------|----|----|
| 342.9 | 298.4 | 28.5 | 8  | 23 |

**Discharge Flange****Unit: inches**

| Dd1 | Dd2   | n2 | m         |
|-----|-------|----|-----------|
| 11  | 9 1/2 | 8  | 3/4-10UNC |

**Unit: mm**

| Dd1 | Dd2   | n2 | m         |
|-----|-------|----|-----------|
| 280 | 241.3 | 8  | 3/4-10UNC |

**Unit: inches**

| Model       | HP | d1 | d2 | C      | E       | F      | G      | H        | I        |
|-------------|----|----|----|--------|---------|--------|--------|----------|----------|
| AO(C)-46050 | 50 | 8  | 6  | 51 1/2 | 12 7/16 | 21 1/4 | 24 1/2 | 17 11/16 | 17 11/16 |
| AO(C)-46060 | 60 |    |    | 53 3/4 |         |        |        |          |          |
| AO(C)-46075 | 75 |    |    | 55 1/4 |         |        |        |          |          |

| Model       | HP | K1     | K2     | L     | M       | R        | S       | V        |
|-------------|----|--------|--------|-------|---------|----------|---------|----------|
| AO(C)-46050 | 50 | 13 3/4 | 13 3/4 | 13/16 | 25 3/16 | 29 15/16 | 27 9/16 | 17 11/16 |
| AO(C)-46060 | 60 |        |        |       |         |          |         |          |
| AO(C)-46075 | 75 |        |        |       |         |          |         |          |

**Unit: mm**

| Model       | kW | d1  | d2  | C    | E   | F   | G   | H   | I   |
|-------------|----|-----|-----|------|-----|-----|-----|-----|-----|
| AO(C)-46050 | 37 | 200 | 150 | 1306 | 316 | 540 | 621 | 450 | 450 |
| AO(C)-46060 | 45 |     |     | 1366 |     |     |     |     |     |
| AO(C)-46075 | 55 |     |     | 1406 |     |     |     |     |     |

| Model       | kW | K1  | K2  | L  | M   | R   | S   | V   |
|-------------|----|-----|-----|----|-----|-----|-----|-----|
| AO(C)-46050 | 37 | 350 | 350 | 20 | 640 | 760 | 700 | 450 |
| AO(C)-46060 | 45 |     |     |    |     |     |     |     |
| AO(C)-46075 | 55 |     |     |    |     |     |     |     |

**Notes:**

\*AO = Semi-open impeller model; AC = Enclosed impeller model

†The weight of pump includes the weight of 50 ft. (15.25 m) of cables.

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**Dimensions**

Project:

Model:

Chk'd:

Date:

**Model 200x150DSCA4/DSCA4C Model Code BC****Drypit Application****Weights****Unit: lbs.**

| Model    | HP  | W1   | W2 | W3  | W4  |
|----------|-----|------|----|-----|-----|
| BC-46100 | 100 | 2450 |    | 220 | 463 |
| BC-46120 | 120 | 3040 |    |     | 287 |

**Unit: kg**

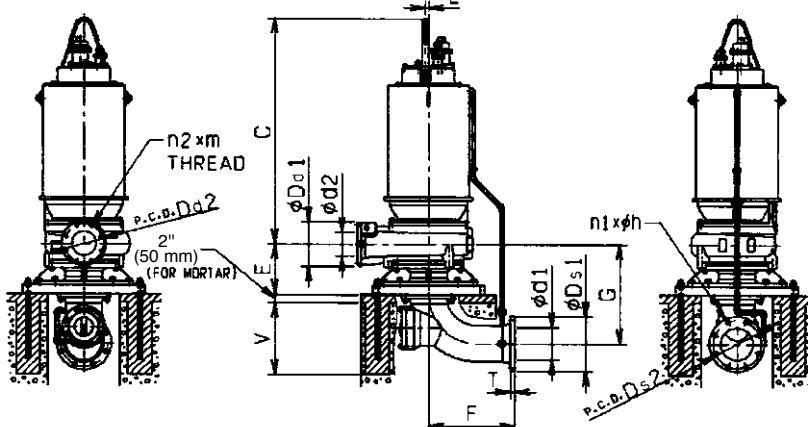
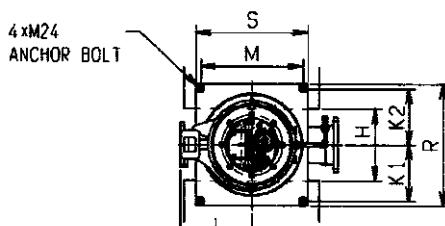
| Model    | kW | W1   | W2 | W3  | W4  |
|----------|----|------|----|-----|-----|
| BC-46100 | 75 | 1111 |    | 100 | 210 |
| BC-46120 | 90 | 1379 |    |     | 130 |

W1: Pump weight<sup>†</sup>

W2: Suction elbow weight

W3: Base weight

W4: Water in pump weight

**Suction Flange****Unit: inches**

| Ds1    | Ds2    | T | n1 | h   |
|--------|--------|---|----|-----|
| 13 1/2 | 11 3/4 | 1 | 8  | 7/8 |

**Unit: mm**

| Ds1   | Ds2   | T    | n1 | h  |
|-------|-------|------|----|----|
| 342.9 | 298.4 | 28.5 | 8  | 23 |

**Discharge Flange****Unit: inches**

| Dd1 | Dd2   | n2 | m         |
|-----|-------|----|-----------|
| 11  | 9 1/2 | 8  | 3/4-10UNC |

**Unit: mm**

| Dd1 | Dd2   | n2 | m         |
|-----|-------|----|-----------|
| 280 | 241.3 | 8  | 3/4-10UNC |

**Unit: inches**

| Model    | HP  | d1 | d2 | C        | E       | F      | G       | H        | I        |
|----------|-----|----|----|----------|---------|--------|---------|----------|----------|
| BC-46100 | 100 |    |    | 58 1/2   |         |        |         |          |          |
| BC-46120 | 120 | 8  | 6  | 61 11/16 | 12 7/16 | 21 1/4 | 24 7/16 | 17 11/16 | 17 11/16 |

| Model    | HP  | K1     | K2     | L      | M       | R        | S       | V        |
|----------|-----|--------|--------|--------|---------|----------|---------|----------|
| BC-46100 | 100 |        |        | 13/16  |         |          |         |          |
| BC-46120 | 120 | 13 3/4 | 13 3/4 | 1 3/16 | 25 3/16 | 29 15/16 | 27 9/16 | 17 11/16 |

**Unit: mm**

| Model    | kW | d1  | d2  | C    | E   | F   | G   | H   | I   |
|----------|----|-----|-----|------|-----|-----|-----|-----|-----|
| BC-46100 | 75 |     |     | 1486 |     |     |     |     |     |
| BC-46120 | 90 | 200 | 150 | 1567 | 316 | 540 | 621 | 450 | 450 |

| Model    | kW | K1  | K2  | L  | M   | R   | S   | V   |
|----------|----|-----|-----|----|-----|-----|-----|-----|
| BC-46100 | 75 |     |     | 20 |     |     |     |     |
| BC-46120 | 90 | 350 | 350 | 30 | 640 | 760 | 700 | 450 |

**Notes:**

†The weight of pump includes the weight of 50 ft. (15.25 m) of cables.



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**Dimensions**

Project:

Model:

Chk'd:

Date:

**Model 200x150DSCA4/DSCA4C Model Code CC  
Drypit Application****Weights**

Unit: lbs.

| Model    | HP  | W1   | W2  | W3  | W4  |
|----------|-----|------|-----|-----|-----|
| CC-46120 | 120 | 3192 | 221 | 463 | 309 |
| CC-46145 | 145 | 3354 |     |     |     |
| CC-46175 | 175 | 3682 |     |     |     |

**Unit: kg**

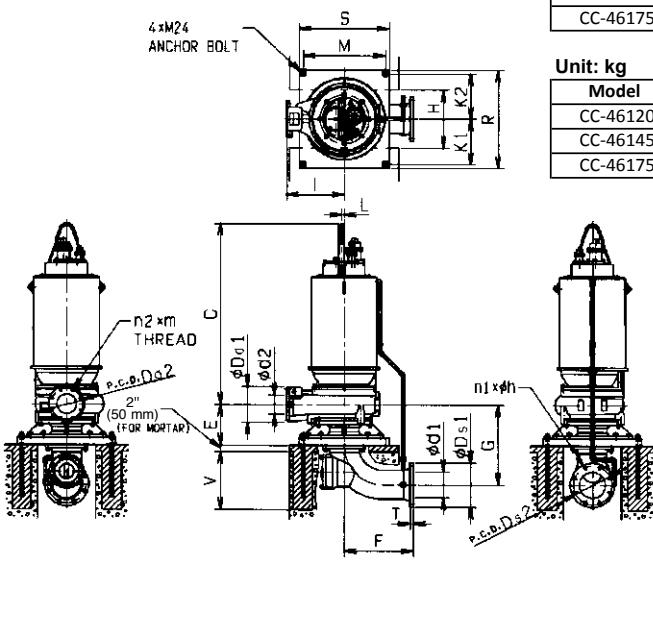
| Model    | kW  | W1   | W2  | W3  | W4  |
|----------|-----|------|-----|-----|-----|
| CC-46120 | 90  | 1448 | 100 | 210 | 140 |
| CC-46145 | 110 | 1521 |     |     |     |
| CC-46175 | 132 | 1670 |     |     |     |

W1 : Pump weight

W2 : Suction elbow weight

W3 : Base weight

W4 : Water in pump weight

**Suction Flange**

Unit: inches

| Ds1    | Ds2    | T     | n1 | h   |
|--------|--------|-------|----|-----|
| 13 1/2 | 11 3/4 | 1 1/8 | 8  | 7/8 |

Unit: mm

| Ds1   | Ds2   | T    | n1 | h  |
|-------|-------|------|----|----|
| 342.9 | 298.4 | 28.5 | 8  | 23 |

**Discharge Flange**

Unit: inches

| Dd1 | Dd2   | n2 | m         |
|-----|-------|----|-----------|
| 11  | 9 1/2 | 8  | 3/4-10UNC |

Unit: mm

| Dd1 | Dd2   | n2 | m         |
|-----|-------|----|-----------|
| 280 | 241.3 | 8  | 3/4-10UNC |

**Unit: inches**

| Model    | HP  | d1 | d2 | C        | E       | F      | G       | H        | I        |
|----------|-----|----|----|----------|---------|--------|---------|----------|----------|
| CC-46120 | 120 | 8  | 6  | 61 11/16 | 12 7/16 | 21 1/4 | 24 7/16 | 17 11/16 | 19 11/16 |
| CC-46145 | 145 |    |    | 65 1/4   |         |        |         |          |          |
| CC-46175 | 175 |    |    | 69 9/16  |         |        |         |          |          |

| Model    | HP  | K1     | K2     | L      | M       | R        | S       | V        | q   |
|----------|-----|--------|--------|--------|---------|----------|---------|----------|-----|
| CC-46120 | 120 | 13 3/4 | 13 3/4 | 1 3/16 | 25 3/16 | 29 15/16 | 27 9/16 | 17 11/16 | M24 |
| CC-46145 | 145 |        |        | 1 3/16 |         |          |         |          |     |
| CC-46175 | 175 |        |        | 1 3/16 |         |          |         |          |     |

| Model    | HP  | U    | X     | Y    | Z |
|----------|-----|------|-------|------|---|
| CC-46120 | 120 | G3/8 | 3 1/8 | G3/8 | 1 |
| CC-46145 | 145 |      |       |      |   |
| CC-46175 | 175 |      |       |      |   |

**Unit: mm**

| Model    | kW  | d1  | d2  | C    | E   | F   | G   | H   | I   |
|----------|-----|-----|-----|------|-----|-----|-----|-----|-----|
| CC-46120 | 90  | 200 | 150 | 1567 | 316 | 540 | 621 | 450 | 500 |
| CC-46145 | 110 |     |     | 1657 |     |     |     |     |     |
| CC-46175 | 132 |     |     | 1767 |     |     |     |     |     |

| Model    | kW  | K1  | K2  | L  | M   | R   | S   | V   | q   |
|----------|-----|-----|-----|----|-----|-----|-----|-----|-----|
| CC-46120 | 90  | 350 | 350 | 30 | 640 | 760 | 700 | 450 | M24 |
| CC-46145 | 110 |     |     | 30 |     |     |     |     |     |
| CC-46175 | 132 |     |     | 30 |     |     |     |     |     |

| Model    | kW  | U    | X  | Y    | Z  |
|----------|-----|------|----|------|----|
| CC-46120 | 90  | G3/8 | 80 | G3/8 | 26 |
| CC-46145 | 110 |      |    |      |    |
| CC-46175 | 132 |      |    |      |    |

**Notes:**

†The weight of pump includes the weight of 50 ft. (15.25 m) of cables.

\*175HP Model is not available in ICS.

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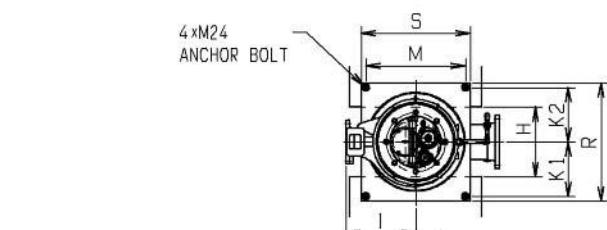
**Dimensions**

Project:

Model:

Chk'd:

Date:

**Model 400x250DSCA4/DSCA4C Model Code EO(C)\*****Drypit Application****Weights****Unit: lbs.**

| Model       | HP  | W1   | W2  | W3  | W4  |
|-------------|-----|------|-----|-----|-----|
| EO(C)-66100 | 100 | 3618 | 529 | 794 | 728 |
| EO(C)-66120 | 120 | 3658 |     |     | 705 |
| EO(C)-66145 | 145 | 3882 |     |     | 705 |

**Unit: kg**

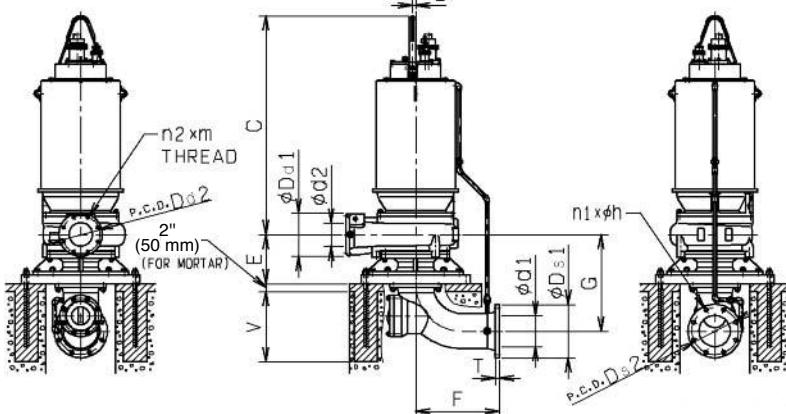
| Model       | kW  | W1   | W2  | W3  | W4  |
|-------------|-----|------|-----|-----|-----|
| EO(C)-66100 | 75  | 1641 | 240 | 360 | 330 |
| EO(C)-66120 | 90  | 1659 |     |     | 320 |
| EO(C)-66145 | 110 | 1761 |     |     | 320 |

W1: Pump weight<sup>†</sup>

W2: Suction elbow weight

W3: Base weight

W4: Water in pump weight

**Unit: inches**

| Model       | HP  | d1 | d2 | C       | E      | F      | G      | H      | I      |
|-------------|-----|----|----|---------|--------|--------|--------|--------|--------|
| EO(C)-66100 | 100 | 16 | 10 | 65 7/16 | 16 3/4 | 25 1/4 | 40 3/8 | 29 1/2 | 23 5/8 |
| EO(C)-66120 | 120 |    |    | 67 3/8  |        |        |        |        |        |
| EO(C)-66145 | 145 |    |    | 70 9/16 |        |        |        |        |        |

| Model       | HP  | K1       | K2       | L      | M      | R      | S       | V        |
|-------------|-----|----------|----------|--------|--------|--------|---------|----------|
| EO(C)-66100 | 100 | 19 11/16 | 19 11/16 | 1 3/16 | 31 1/8 | 41 3/4 | 33 7/16 | 17 11/16 |
| EO(C)-66120 | 120 |          |          |        |        |        |         |          |
| EO(C)-66145 | 145 |          |          |        |        |        |         |          |

**Unit: mm**

| Model       | kW  | d1  | d2  | C    | E   | F   | G    | H   | I   |
|-------------|-----|-----|-----|------|-----|-----|------|-----|-----|
| EO(C)-66100 | 75  | 400 | 250 | 1662 | 426 | 640 | 1026 | 750 | 600 |
| EO(C)-66120 | 90  |     |     | 1712 |     |     |      |     |     |
| EO(C)-66145 | 110 |     |     | 1792 |     |     |      |     |     |

| Model       | kW  | K1  | K2  | L  | M   | R    | S   | V   |
|-------------|-----|-----|-----|----|-----|------|-----|-----|
| EO(C)-66100 | 75  | 500 | 500 | 30 | 790 | 1060 | 850 | 450 |
| EO(C)-66120 | 90  |     |     |    |     |      |     |     |
| EO(C)-66145 | 110 |     |     |    |     |      |     |     |

**Notes:**

\*EO = Semi-open impeller model; EC = Enclosed impeller model

†The weight of pump includes the weight of 50 ft. (15.25 m) of cables.



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**Dimensions**

Project:

Model:

Chk'd:

Date:

**Model 400x300DSCA4/DSCA4C Model Code FO(C)\*****Drypit Application****Weights****Unit: lbs.**

| Model       | HP | W1   | W2 | W3  | W4  |
|-------------|----|------|----|-----|-----|
| FO(C)-66050 | 50 | 2500 |    | 529 | 794 |
| FO(C)-66060 | 60 | 2781 |    |     | 661 |

**Unit: kg**

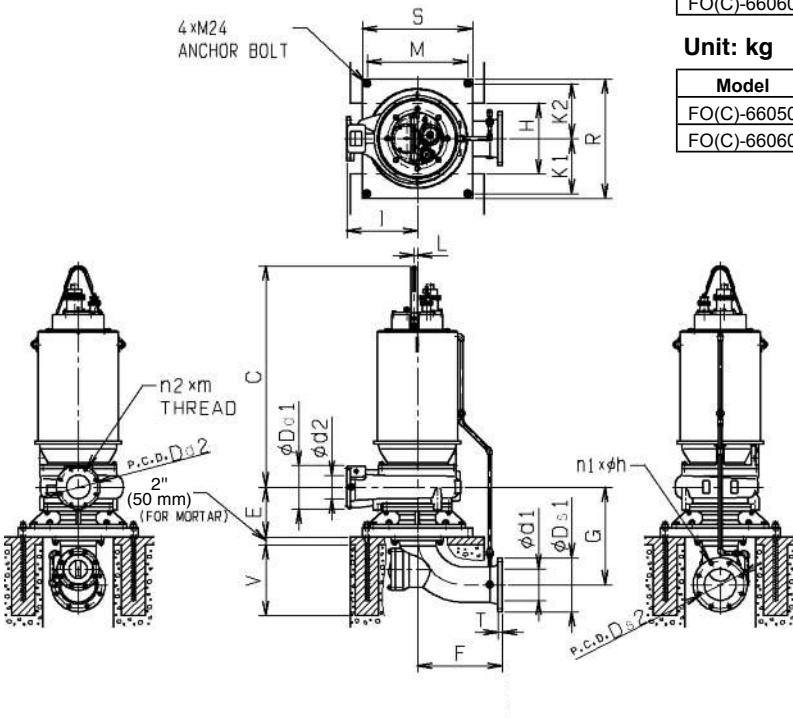
| Model       | kW | W1   | W2 | W3  | W4  |
|-------------|----|------|----|-----|-----|
| FO(C)-66050 | 37 | 1134 |    | 240 | 360 |
| FO(C)-66060 | 45 | 1261 |    |     | 300 |

W1: Pump weight<sup>†</sup>

W2: Suction elbow weight

W3: Base weight

W4: Water in pump weight

**Suction Flange****Unit: inches**

| Ds1    | Ds2    | T      | n1 | h |
|--------|--------|--------|----|---|
| 23 1/2 | 21 1/4 | 1 7/16 | 16 | 1 |

**Unit: mm**

| Ds1   | Ds2   | T    | n1 | h  |
|-------|-------|------|----|----|
| 596.9 | 539.8 | 36.6 | 16 | 29 |

**Discharge Flange****Unit: inches**

| Dd1 | Dd2 | n2 | m        |
|-----|-----|----|----------|
| 19  | 17  | 12 | 7/8-9UNC |

**Unit: mm**

| Dd1 | Dd2   | n2 | m        |
|-----|-------|----|----------|
| 483 | 431.8 | 12 | 7/8-9UNC |

**Unit: inches**

| Model       | HP | d1 | d2 | C        | E      | F       | G      | H      | I      |
|-------------|----|----|----|----------|--------|---------|--------|--------|--------|
| FO(C)-66050 | 50 | 16 | 12 | 54 15/16 | 16 3/4 | 25 3/16 | 40 3/8 | 29 1/2 | 22 1/4 |
| FO(C)-66060 | 60 |    |    | 56 9/16  |        |         |        |        |        |

| Model       | HP | K1       | K2       | L     | M      | R      | S       | V        |
|-------------|----|----------|----------|-------|--------|--------|---------|----------|
| FO(C)-66050 | 50 | 19 11/16 | 19 11/16 | 13/16 | 31 1/8 | 41 3/4 | 33 7/16 | 17 11/16 |
| FO(C)-66060 | 60 |          |          |       |        |        |         |          |

**Unit: mm**

| Model       | kW | d1  | d2  | C    | E   | F   | G    | H   | I   |
|-------------|----|-----|-----|------|-----|-----|------|-----|-----|
| FO(C)-66050 | 37 | 400 | 300 | 1396 | 426 | 640 | 1026 | 750 | 565 |
| FO(C)-66060 | 45 |     |     | 1436 |     |     |      |     |     |

| Model       | kW | K1  | K2  | L  | M   | R    | S   | V   |
|-------------|----|-----|-----|----|-----|------|-----|-----|
| FO(C)-66050 | 37 | 500 | 500 | 20 | 790 | 1060 | 850 | 450 |
| FO(C)-66060 | 45 |     |     |    |     |      |     |     |

**Notes:**

\*FO = Semi-open impeller model; FC = Enclosed impeller model

†The weight of pump includes the weight of 50 ft. (15.25 m) of cables.



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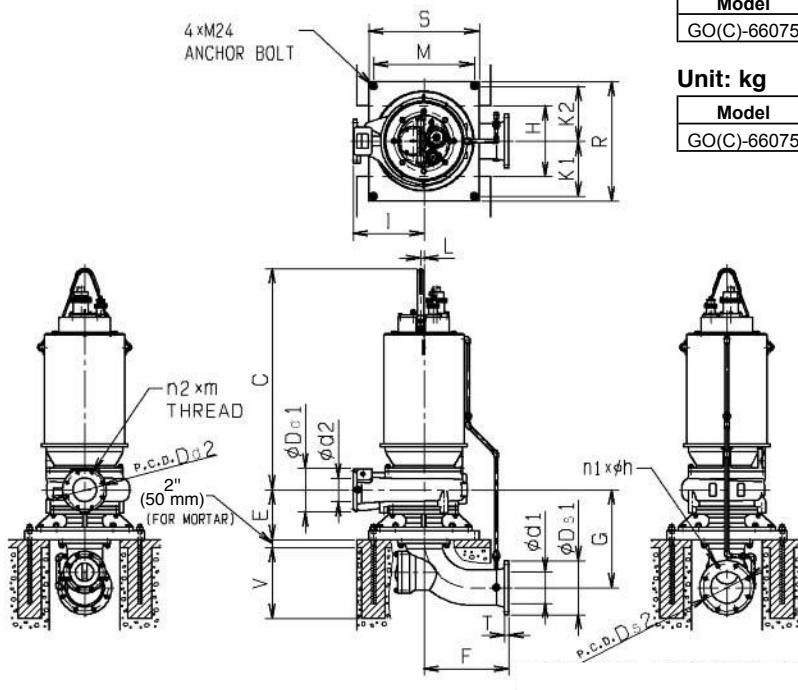
**Dimensions**

Project:

Model:

Chk'd:

Date:

**Model 400x300DSCA4/DSCA4C Model Code GO(C)\*****Drypit Application****Weights**

Unit: lbs.

| Model       | HP | W1   | W2  | W3  | W4  |
|-------------|----|------|-----|-----|-----|
| GO(C)-66075 | 75 | 3119 | 508 | 796 | 685 |

**Unit: kg**

| Model       | kW | W1   | W2  | W3  | W4  |
|-------------|----|------|-----|-----|-----|
| GO(C)-66075 | 55 | 1415 | 230 | 360 | 310 |

W1: Pump weight<sup>†</sup>

W2: Suction elbow weight

W3: Base weight

W4: Water in pump weight

**Suction Flange**

Unit: inches

| Ds1    | Ds2    | T      | n1 | h |
|--------|--------|--------|----|---|
| 23 1/2 | 21 1/4 | 1 7/16 | 16 | 1 |

Unit: mm

| Ds1   | Ds2   | T    | n1 | h  |
|-------|-------|------|----|----|
| 596.9 | 539.8 | 36.6 | 16 | 29 |

**Discharge Flange**

Unit: inches

| Dd1 | Dd2 | n2 | m        |
|-----|-----|----|----------|
| 19  | 17  | 12 | 7/8-9UNC |

Unit: mm

| Dd1 | Dd2   | n2 | m        |
|-----|-------|----|----------|
| 483 | 431.8 | 12 | 7/8-9UNC |

**Unit: inches**

| Model       | HP | d1 | d2 | C      | E      | F       | G      | H      | I        |
|-------------|----|----|----|--------|--------|---------|--------|--------|----------|
| GO(C)-66075 | 75 | 16 | 12 | 61 7/8 | 16 3/4 | 25 3/16 | 40 3/8 | 29 1/2 | 22 13/16 |

| Model       | HP | K1       | K2       | L     | M      | R      | S       | V        |
|-------------|----|----------|----------|-------|--------|--------|---------|----------|
| GO(C)-66075 | 75 | 19 11/16 | 19 11/16 | 1 1/4 | 31 1/8 | 41 3/4 | 33 7/16 | 17 11/16 |

**Unit: mm**

| Model       | kW | d1  | d2  | C    | E   | F   | G    | H   | I   |
|-------------|----|-----|-----|------|-----|-----|------|-----|-----|
| GO(C)-66075 | 55 | 400 | 300 | 1572 | 426 | 640 | 1026 | 750 | 580 |

| Model       | kW | K1  | K2  | L  | M   | R    | S   | V   |
|-------------|----|-----|-----|----|-----|------|-----|-----|
| GO(C)-66075 | 55 | 500 | 500 | 30 | 790 | 1060 | 850 | 450 |

**Notes:**

\*GO = Semi-open impeller model; GC = Enclosed impeller model

†The weight of pump includes the weight of 50 ft. (15.25 m) of cables.



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**Dimensions**

Project:

Model:

Chk'd:

Date:

**Model 400x300DSCA4 Model Code EEC****Drypit Application****Weights**

Unit: lbs.

| Model     | HP  | W1   | W2  | W3  | W4  |
|-----------|-----|------|-----|-----|-----|
| EEC-66175 | 175 | 5204 | 529 | 794 | 794 |
| EEC-66200 | 200 | 5579 |     |     |     |
| EEC-66215 | 215 | 5601 |     |     |     |
| EEC-66245 | 245 | 5976 |     |     |     |

**Unit: kg**

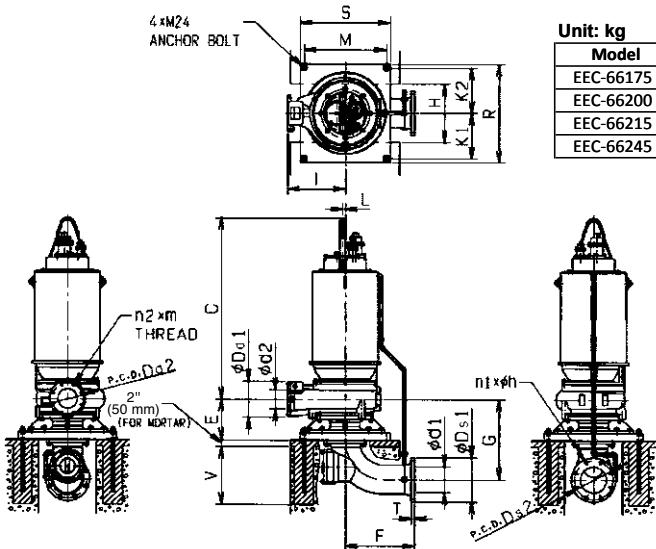
| Model     | kW  | W1   | W2  | W3  | W4  |
|-----------|-----|------|-----|-----|-----|
| EEC-66175 | 132 | 2360 | 240 | 360 | 360 |
| EEC-66200 | 150 | 2530 |     |     |     |
| EEC-66215 | 160 | 2540 |     |     |     |
| EEC-66245 | 185 | 2710 |     |     |     |

W1 : Pump weight

W2 : Suction elbow weight

W3 : Base weight

W4 : Water in pump weight

**Suction Flange**

Unit: inches

| Ds1    | Ds2    | T      | n1 | h     |
|--------|--------|--------|----|-------|
| 23 1/2 | 21 1/4 | 1 7/16 | 16 | 1 1/8 |

Unit: mm

| Ds1   | Ds2   | T    | n1 | h  |
|-------|-------|------|----|----|
| 596.9 | 539.8 | 36.6 | 16 | 29 |

**Discharge Flange**

Unit: inches

| Dd1 | Dd2 | n2 | m        |
|-----|-----|----|----------|
| 19  | 17  | 12 | 7/8-9UNC |

Unit: mm

| Dd1 | Dd2   | n2 | m        |
|-----|-------|----|----------|
| 483 | 431.8 | 12 | 7/8-9UNC |

Unit: inches

| Model     | HP  | d1 | d2 | C        | E       | F       | G       | H      | I       |
|-----------|-----|----|----|----------|---------|---------|---------|--------|---------|
| EEC-66175 | 175 | 16 | 12 | 75 3/16  | 17 9/16 | 25 3/16 | 41 3/16 | 29 1/2 | 25 9/16 |
| EEC-66200 | 200 |    |    | 80 11/16 |         |         |         |        |         |
| EEC-66215 | 215 |    |    | 80 11/16 |         |         |         |        |         |
| EEC-66245 | 245 |    |    | 83 1/16  |         |         |         |        |         |

| Model     | HP  | K1       | K2       | L      | M      | R      | S       | V        | q   |
|-----------|-----|----------|----------|--------|--------|--------|---------|----------|-----|
| EEC-66175 | 175 | 19 11/16 | 19 11/16 | 1 3/16 | 31 1/8 | 41 3/4 | 33 7/16 | 17 11/16 | M24 |
| EEC-66200 | 200 |          |          |        |        |        |         |          |     |
| EEC-66215 | 215 |          |          |        |        |        |         |          |     |
| EEC-66245 | 245 |          |          |        |        |        |         |          |     |

| Model     | HP  | U    | X       | Y    | Z     |
|-----------|-----|------|---------|------|-------|
| EEC-66175 | 175 | G3/8 | 3 15/16 | G3/8 | 1 1/4 |
| EEC-66200 | 200 |      |         |      |       |
| EEC-66215 | 215 |      |         |      |       |
| EEC-66245 | 245 |      |         |      |       |

| Model     | kW  | d1  | d2  | C    | E   | F   | G    | H   | I   |
|-----------|-----|-----|-----|------|-----|-----|------|-----|-----|
| EEC-66175 | 132 | 400 | 300 | 1909 | 446 | 640 | 1046 | 750 | 650 |
| EEC-66200 | 150 |     |     | 2049 |     |     |      |     |     |
| EEC-66215 | 160 |     |     | 2049 |     |     |      |     |     |
| EEC-66245 | 185 |     |     | 2109 |     |     |      |     |     |

| Model     | kW  | K1  | K2  | L  | M   | R    | S   | V   | q   |
|-----------|-----|-----|-----|----|-----|------|-----|-----|-----|
| EEC-66175 | 132 | 500 | 500 | 30 | 790 | 1060 | 850 | 450 | M24 |
| EEC-66200 | 150 |     |     |    |     |      |     |     |     |
| EEC-66215 | 160 |     |     |    |     |      |     |     |     |
| EEC-66245 | 185 |     |     |    |     |      |     |     |     |

| Model     | kW  | U    | X   | Y    | Z  |
|-----------|-----|------|-----|------|----|
| EEC-66175 | 132 | G3/8 | 100 | G3/8 | 32 |
| EEC-66200 | 150 |      |     |      |    |
| EEC-66215 | 160 |      |     |      |    |
| EEC-66245 | 185 |      |     |      |    |

**Notes:**

†The weight of pump includes the weight of 50 ft. (15.25 m) of cables.



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**Dimensions**

Project:

Model:

Chk'd:

Date:

**Model 500x400DSCA4 Model Code D1C  
Drypit Application****Weights**

Unit: lbs.

| Model      | HP | W1   | W2  | W3  | W4   |
|------------|----|------|-----|-----|------|
| D1C-106050 | 50 | 4300 |     |     |      |
| D1C-106060 | 60 | 4520 | 860 | 948 |      |
| D1C-106075 | 75 | 4741 |     |     | 1213 |

Unit: kg

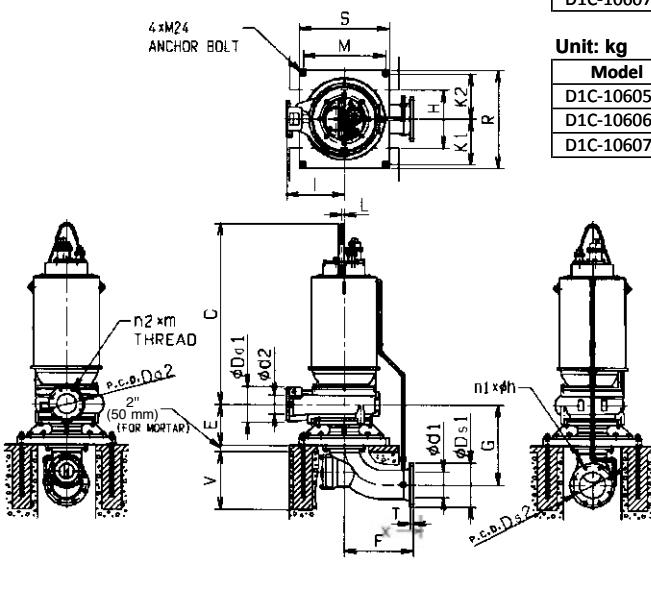
| Model      | kW | W1   | W2  | W3  | W4  |
|------------|----|------|-----|-----|-----|
| D1C-106050 | 37 | 1950 |     |     |     |
| D1C-106060 | 45 | 2050 | 390 | 430 |     |
| D1C-106075 | 55 | 2150 |     |     | 550 |

W1 : Pump weight

W3 : Base weight

W2 : Suction elbow weight

W4 : Water in pump weight

**Suction Flange**

Unit: inches

| Ds1    | Ds2 | T       | n1 | h     |
|--------|-----|---------|----|-------|
| 27 1/2 | 25  | 1 11/16 | 20 | 1 1/4 |

Unit: mm

| Ds1 | Ds2 | T  | n1 | h  |
|-----|-----|----|----|----|
| 699 | 635 | 43 | 20 | 32 |

**Discharge Flange**

Unit: inches

| Dd1    | Dd2    | n2 | m      |
|--------|--------|----|--------|
| 23 1/2 | 21 1/4 | 16 | 1-8UNC |

Unit: mm

| Dd1 | Dd2   | n2 | m      |
|-----|-------|----|--------|
| 597 | 539.8 | 16 | 1-8UNC |

Unit: inches

| Model      | HP | d1     | d2     | C       | E       | F       | G        | H        | I        |
|------------|----|--------|--------|---------|---------|---------|----------|----------|----------|
| D1C-106050 | 50 | 20     | 16     | 63 1/16 | 22 7/16 | 29 1/2  | 51 15/16 | 31 1/2   | 27 15/16 |
| D1C-106060 | 60 |        |        | 67 3/8  |         |         |          |          |          |
| D1C-106075 | 75 |        |        | 70 9/16 |         |         |          |          |          |
| Model      | HP | K1     | K2     | L       | M       | R       | S        | V        | q        |
| D1C-106050 | 50 | 21 5/8 | 21 5/8 | 1 3/16  | 34 5/8  | 46 1/16 | 37 3/8   | 22 13/16 | M30      |
| D1C-106060 | 60 |        |        |         |         |         |          |          |          |
| D1C-106075 | 75 |        |        |         |         |         |          |          |          |
| Model      | HP | U      | X      | Y       | Z       |         |          |          |          |
| D1C-106050 | 50 | G3/8   | 4 3/4  | G3/8    | 1 3/16  |         |          |          |          |
| D1C-106060 | 60 |        |        |         |         |         |          |          |          |
| D1C-106075 | 75 |        |        |         |         |         |          |          |          |

Unit: mm

| Model      | kW | d1   | d2  | C    | E   | F    | G    | H   | I   |
|------------|----|------|-----|------|-----|------|------|-----|-----|
| D1C-106050 | 37 | 500  | 400 | 1602 | 570 | 750  | 1320 | 800 | 710 |
| D1C-106060 | 45 |      |     | 1712 |     |      |      |     |     |
| D1C-106075 | 55 |      |     | 1792 |     |      |      |     |     |
| Model      | kW | K1   | K2  | L    | M   | R    | S    | V   | q   |
| D1C-106050 | 37 | 550  | 550 | 30   | 880 | 1170 | 950  | 580 | M30 |
| D1C-106060 | 45 |      |     |      |     |      |      |     |     |
| D1C-106075 | 55 |      |     |      |     |      |      |     |     |
| Model      | kW | U    | X   | Y    | Z   |      |      |     |     |
| D1C-106050 | 37 | G3/8 | 120 | G3/8 | 30  |      |      |     |     |
| D1C-106060 | 45 |      |     |      |     |      |      |     |     |
| D1C-106075 | 55 |      |     |      |     |      |      |     |     |

**Notes:**

†The weight of pump includes the weight of 50 ft. (15.25 m) of cables.



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**Dimensions**

Project:

Model:

Chk'd:

Date:

**Model 600x500DSCA4 Model Code D2C  
Drypit Application****Weights**

Unit: lbs.

| Model      | HP  | W1   | W2   | W3   | W4   |
|------------|-----|------|------|------|------|
| D2C-106100 | 100 | 5821 | 1191 | 1433 | 1499 |

Unit: kg

| Model      | kW | W1   | W2  | W3  | W4  |
|------------|----|------|-----|-----|-----|
| D2C-106100 | 75 | 2640 | 540 | 650 | 680 |

W1 : Pump weight  
W2 : Suction elbow weightW3 : Base weight  
W4 : Water in pump weight**Suction Flange**

Unit: inches

| Ds1 | Ds2    | T     | n1 | h     |
|-----|--------|-------|----|-------|
| 32  | 29 1/2 | 1 7/8 | 20 | 1 3/8 |

Unit: mm

| Ds1   | Ds2   | T    | n1 | h  |
|-------|-------|------|----|----|
| 812.8 | 749.3 | 47.8 | 20 | 35 |

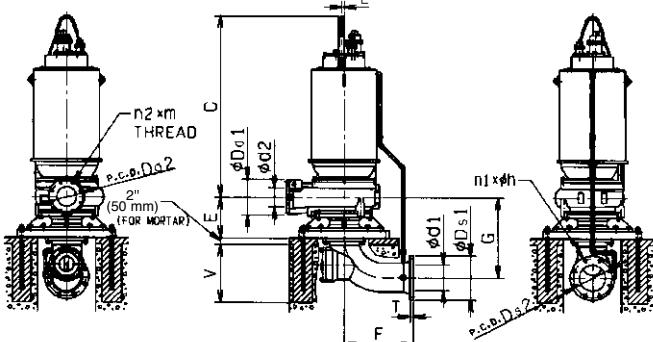
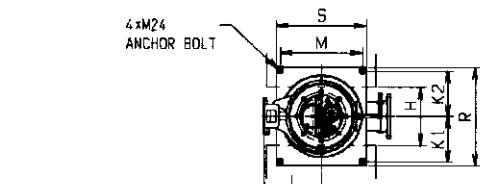
**Discharge Flange**

Unit: inches

| Dd1    | Dd2 | n2 | m          |
|--------|-----|----|------------|
| 27 1/2 | 25  | 20 | 1 1/8-7UNC |

Unit: mm

| Dd1 | Dd2 | n2 | m          |
|-----|-----|----|------------|
| 699 | 635 | 20 | 1 1/8-7UNC |



Unit: inches

| Model      | HP  | d1 | d2 | C      | E      | F       | G        | H      | I       |
|------------|-----|----|----|--------|--------|---------|----------|--------|---------|
| D2C-106100 | 100 | 24 | 20 | 72 3/8 | 24 5/8 | 35 7/16 | 59 13/16 | 36 1/4 | 32 5/16 |

Model

D2C-106100

HP

100

K1

24 13/16

K2

24 13/16

L

1 3/16

M

40 9/16

R

52 3/8

S

43 1/4

V

22 13/16

q

M30

| Model      | HP  | U    | X     | Y    | Z      |
|------------|-----|------|-------|------|--------|
| D2C-106100 | 100 | G3/8 | 4 3/4 | G3/8 | 1 3/16 |

Unit: mm

| Model      | kW | d1  | d2  | C    | E   | F   | G    | H   | I   |
|------------|----|-----|-----|------|-----|-----|------|-----|-----|
| D2C-106100 | 75 | 600 | 500 | 1839 | 625 | 900 | 1520 | 630 | 820 |

Model

D2C-106100

kW

75

K1

630

K2

630

L

30

M

1030

R

1330

S

1100

V

580

q

M30

| Model      | kW | U    | X   | Y    | Z  |
|------------|----|------|-----|------|----|
| D2C-106100 | 75 | G3/8 | 120 | G3/8 | 30 |

**Notes:**

†The weight of pump includes the weight of 50 ft. (15.25 m) of cables.



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**Dimensions**

Project:

Model:

Chk'd:

Date:

**Model 600x500DSCA4 Model Code G1C  
Drypit Application****Weights**

Unit: lbs.

| Model      | HP  | W1   | W2   | W3   | W4   |
|------------|-----|------|------|------|------|
| G1C-106120 | 120 | 6703 |      |      |      |
| G1C-106145 | 145 | 7056 | 1191 | 1433 | 1874 |

**Unit: kg**

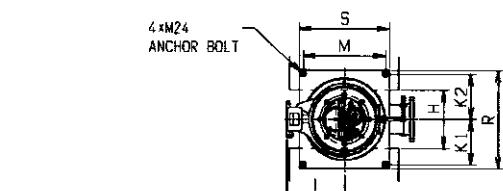
| Model      | kW  | W1   | W2  | W3  | W4  |
|------------|-----|------|-----|-----|-----|
| G1C-106120 | 90  | 3040 |     |     |     |
| G1C-106145 | 110 | 3200 | 540 | 650 | 850 |

W1 : Pump weight

W3 : Base weight

W2 : Suction elbow weight

W4 : Water in pump weight

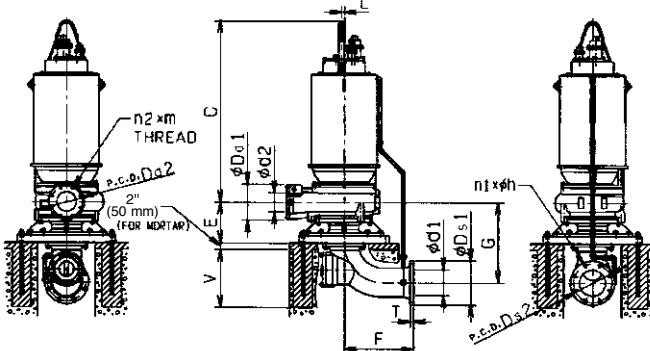
**Suction Flange**

Unit: inches

| Ds1 | Ds2    | T     | n1 | h     |
|-----|--------|-------|----|-------|
| 32  | 29 1/2 | 1 7/8 | 20 | 1 3/8 |

Unit: mm

| Ds1   | Ds2   | T    | n1 | h  |
|-------|-------|------|----|----|
| 812.8 | 749.3 | 47.8 | 20 | 35 |

**Discharge Flange**

Unit: inches

| Dd1    | Dd2 | n2 | m          |
|--------|-----|----|------------|
| 27 1/2 | 25  | 20 | 1 1/8-7UNC |

Unit: mm

| Dd1 | Dd2 | n2 | m          |
|-----|-----|----|------------|
| 699 | 635 | 20 | 1 1/8-7UNC |

Unit: inches

| Model      | HP  | d1 | d2 | C      | E | F | G | H | I |
|------------|-----|----|----|--------|---|---|---|---|---|
| G1C-106120 | 120 |    | 24 | 75 3/8 |   |   |   |   |   |
| G1C-106145 | 145 |    |    | 80 7/8 |   |   |   |   |   |

| Model      | HP  | K1 | K2       | L        | M      | R       | S      | V       | q        |
|------------|-----|----|----------|----------|--------|---------|--------|---------|----------|
| G1C-106120 | 120 |    | 24 13/16 | 24 13/16 | 1 3/16 | 40 9/16 | 52 3/8 | 43 5/16 | 22 13/16 |
| G1C-106145 | 145 |    |          |          |        |         |        |         | M30      |

| Model       | HP  | U | X    | Y     | Z      |
|-------------|-----|---|------|-------|--------|
| G1C-A106120 | 120 |   | G3/8 | 4 3/4 | G3/8   |
| G1C-A106145 | 145 |   |      |       | 1 3/16 |

Unit: mm

| Model      | kW  | d1 | d2  | C    | E | F | G | H | I |
|------------|-----|----|-----|------|---|---|---|---|---|
| G1C-106120 | 90  |    | 600 | 1914 |   |   |   |   |   |
| G1C-106145 | 110 |    |     | 2054 |   |   |   |   |   |

| Model      | kW  | K1 | K2  | L   | M  | R    | S    | V    | q   |
|------------|-----|----|-----|-----|----|------|------|------|-----|
| G1C-106120 | 90  |    | 630 | 630 | 30 | 1030 | 1330 | 1100 | 580 |
| G1C-106145 | 110 |    |     |     |    |      |      |      | M30 |

| Model      | kW  | U | X    | Y   | Z    |
|------------|-----|---|------|-----|------|
| G1C-106120 | 90  |   | G3/8 | 120 | G3/8 |
| G1C-106145 | 110 |   |      |     | 30   |

**Notes:**

†The weight of pump includes the weight of 50 ft. (15.25 m) of cables.

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**Dimensions**

Project:

Model:

Chk'd:

Date:

**Model 600x500DSCA4 Model Code G2C  
Drypit Application****Weights**

Unit: lbs.

| Model     | HP  | W1   | W2 | W3 | W4 |
|-----------|-----|------|----|----|----|
| G2C-86175 | 175 | 7034 |    |    |    |
| G2C-86200 | 200 | 7299 |    |    |    |
| G2C-86215 | 215 | 7409 |    |    |    |
| G2C-86245 | 245 | 8864 |    |    |    |

**Unit: kg**

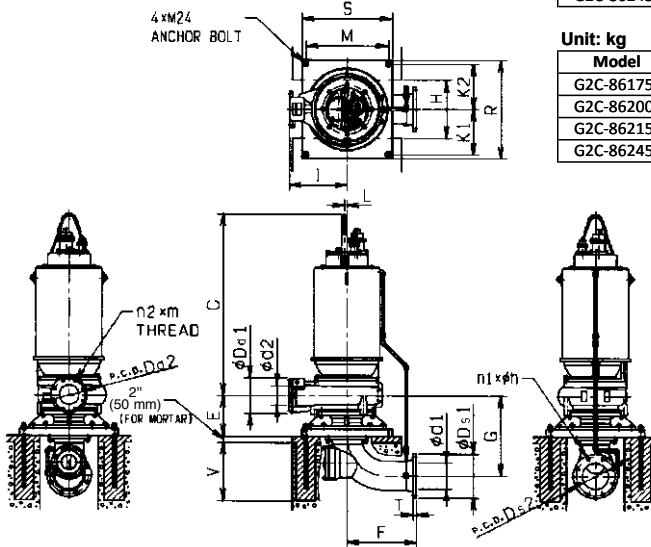
| Model     | kW  | W1   | W2 | W3 | W4 |
|-----------|-----|------|----|----|----|
| G2C-86175 | 132 | 3190 |    |    |    |
| G2C-86200 | 150 | 3310 |    |    |    |
| G2C-86215 | 160 | 3360 |    |    |    |
| G2C-86245 | 185 | 4020 |    |    |    |

W1 : Pump weight

W2 : Suction elbow weight

W3 : Base weight

W4 : Water in pump weight

**Suction Flange**

Unit: inches

| Ds1 | Ds2    | T     | n1 | h     |
|-----|--------|-------|----|-------|
| 32  | 29 1/2 | 1 7/8 | 20 | 1 3/8 |

Unit: mm

| Ds1   | Ds2   | T    | n1 | h  |
|-------|-------|------|----|----|
| 812.8 | 749.3 | 47.8 | 20 | 35 |

**Discharge Flange**

Unit: inches

| Dd1    | Dd2 | n2 | m          |
|--------|-----|----|------------|
| 27 1/2 | 25  | 20 | 1 1/8-7UNC |

Unit: mm

| Dd1 | Dd2 | n2 | m          |
|-----|-----|----|------------|
| 699 | 635 | 20 | 1 1/8-7UNC |

**Unit: inches**

| Model     | HP  | d1 | d2 | C      | E | F | G | H | I |
|-----------|-----|----|----|--------|---|---|---|---|---|
| G2C-86175 | 175 |    |    | 80 7/8 |   |   |   |   |   |
| G2C-86200 | 200 |    |    | 83 1/4 |   |   |   |   |   |
| G2C-86215 | 215 |    |    | 83 1/4 |   |   |   |   |   |
| G2C-86245 | 245 |    |    | 87     |   |   |   |   |   |

| Model     | HP  | K1 | K2 | L | M | R | S | V | q |
|-----------|-----|----|----|---|---|---|---|---|---|
| G2C-86175 | 175 |    |    |   |   |   |   |   |   |
| G2C-86200 | 200 |    |    |   |   |   |   |   |   |
| G2C-86215 | 215 |    |    |   |   |   |   |   |   |
| G2C-86245 | 245 |    |    |   |   |   |   |   |   |

| Model     | HP  | U | X | Y | Z |
|-----------|-----|---|---|---|---|
| G2C-86175 | 175 |   |   |   |   |
| G2C-86200 | 200 |   |   |   |   |
| G2C-86215 | 215 |   |   |   |   |
| G2C-86245 | 245 |   |   |   |   |

| Model     | kW  | d1 | d2 | C    | E | F | G | H | I |
|-----------|-----|----|----|------|---|---|---|---|---|
| G2C-86175 | 132 |    |    | 2054 |   |   |   |   |   |
| G2C-86200 | 150 |    |    | 2114 |   |   |   |   |   |
| G2C-86215 | 160 |    |    | 2114 |   |   |   |   |   |
| G2C-86245 | 185 |    |    | 2210 |   |   |   |   |   |

| Model     | kW  | K1 | K2 | L | M | R | S | V | q |
|-----------|-----|----|----|---|---|---|---|---|---|
| G2C-86175 | 132 |    |    |   |   |   |   |   |   |
| G2C-86200 | 150 |    |    |   |   |   |   |   |   |
| G2C-86215 | 160 |    |    |   |   |   |   |   |   |
| G2C-86245 | 185 |    |    |   |   |   |   |   |   |

| Model     | kW  | U | X | Y | Z |
|-----------|-----|---|---|---|---|
| G2C-86175 | 132 |   |   |   |   |
| G2C-86200 | 150 |   |   |   |   |
| G2C-86215 | 160 |   |   |   |   |
| G2C-86245 | 185 |   |   |   |   |

**Notes:**

†The weight of pump includes the weight of 50 ft. (15.25 m) of cables.



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**Dimensions**

Project:

Model:

Chk'd:

Date:

**Model 200x150DSCA4/DSCA4C Model Code HO(C)\*****Drypit Application****Weights****Unit: lbs.**

| Model       | HP | W1   | W2  | W3  | W4  |
|-------------|----|------|-----|-----|-----|
| HO(C)-46050 | 50 | 2169 | 221 | 464 | 309 |
| HO(C)-46060 | 60 | 2235 |     |     | 265 |
| HO(C)-46075 | 75 | 2345 |     |     | 265 |

**Unit: kg**

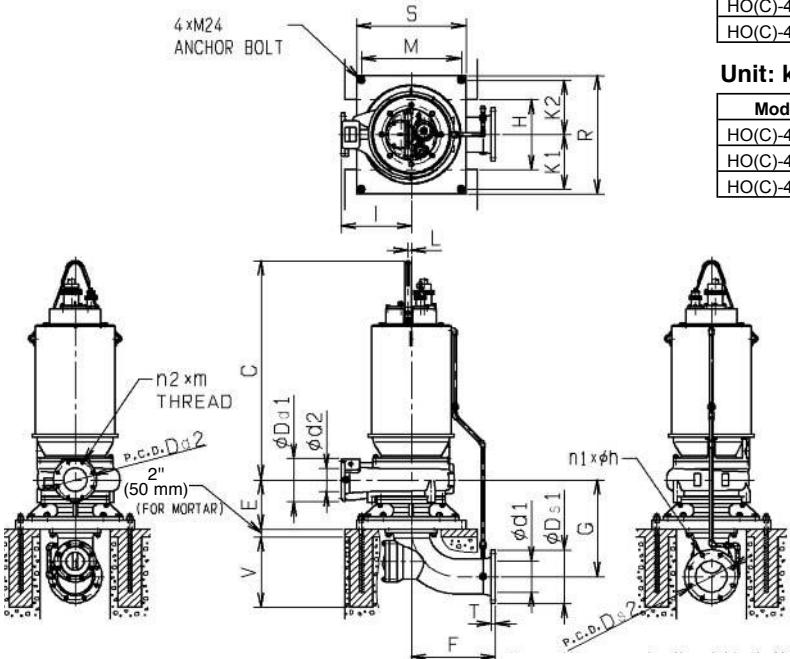
| Model       | kW | W1   | W2  | W3  | W4  |
|-------------|----|------|-----|-----|-----|
| HO(C)-46050 | 37 | 984  | 100 | 210 | 140 |
| HO(C)-46060 | 45 | 1014 |     |     | 120 |
| HO(C)-46075 | 55 | 1064 |     |     | 120 |

W1: Pump weight<sup>†</sup>

W2: Suction elbow weight

W3: Base weight

W4: Water in pump weight

**Unit: inches**

| Model       | HP | d1 | d2 | C       | E       | F      | G       | H        | I        |
|-------------|----|----|----|---------|---------|--------|---------|----------|----------|
| HO(C)-46050 | 50 | 8  | 6  | 52 3/16 | 12 7/16 | 21 1/4 | 24 7/16 | 17 11/16 | 17 11/16 |
| HO(C)-46060 | 60 |    |    | 54 9/16 |         |        |         |          |          |
| HO(C)-46075 | 75 |    |    | 56 1/8  |         |        |         |          |          |

| Model       | HP | K1     | K2     | L     | M       | R        | S       | V        |
|-------------|----|--------|--------|-------|---------|----------|---------|----------|
| HO(C)-46050 | 50 | 13 3/4 | 13 3/4 | 13/16 | 25 3/16 | 29 15/16 | 27 9/16 | 17 11/16 |
| HO(C)-46060 | 60 |        |        |       |         |          |         |          |
| HO(C)-46075 | 75 |        |        |       |         |          |         |          |

**Unit: mm**

| Model       | kW | d1  | d2  | C    | E   | F   | G   | H   | I   |
|-------------|----|-----|-----|------|-----|-----|-----|-----|-----|
| HO(C)-46050 | 37 | 200 | 150 | 1326 | 316 | 540 | 621 | 450 | 450 |
| HO(C)-46060 | 45 |     |     | 1386 |     |     |     |     |     |
| HO(C)-46075 | 55 |     |     | 1426 |     |     |     |     |     |

| Model       | kW | K1  | K2  | L  | M   | R   | S   | V   |
|-------------|----|-----|-----|----|-----|-----|-----|-----|
| HO(C)-46050 | 37 | 350 | 350 | 20 | 640 | 760 | 700 | 450 |
| HO(C)-46060 | 45 |     |     |    |     |     |     |     |
| HO(C)-46075 | 55 |     |     |    |     |     |     |     |

**Notes:**

\*HO = Open impeller model; HC = Enclosed impeller model

†The weight of pump includes the weight of 50 ft. (15.25 m) of cables.



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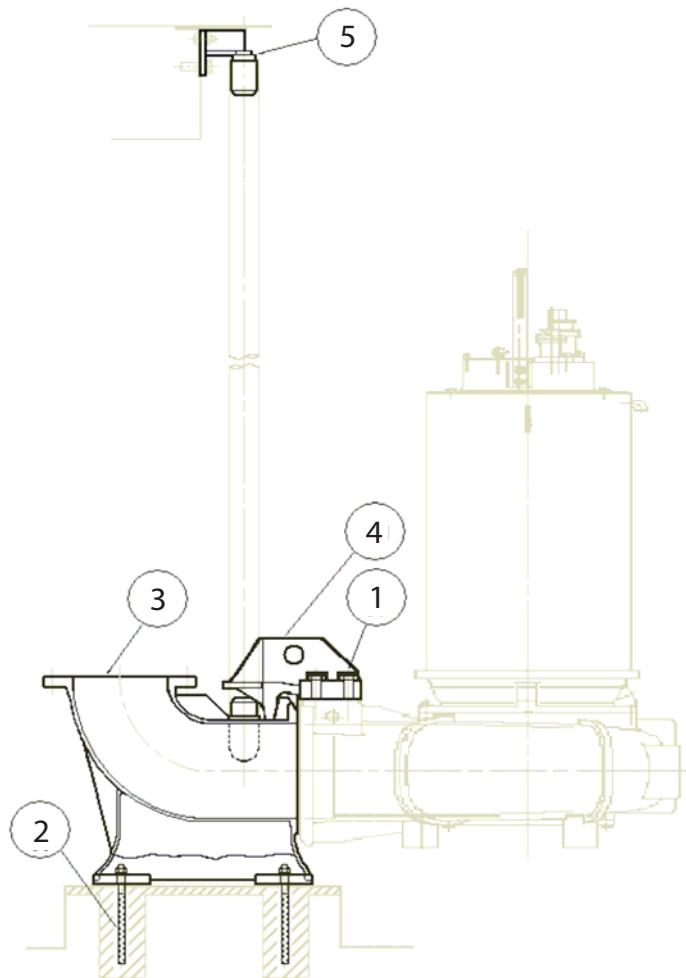
**Sectional View**

Project:

Model:

Chk'd:

Date:

**QDC (Quick Discharge Connector) for Model DSC4**

| Part # | Part name                 | Material        | Number for set |
|--------|---------------------------|-----------------|----------------|
| 1      | Bolt                      | Stainless steel | 4              |
| 2      | Anchor bolt, nut, washer  | Stainless steel | 4              |
| 3      | Quick discharge connector | Cast iron       | 1              |
| 4      | Sliding guide             | Ductile iron    | 1              |
| 5      | Guide pipe support        | Carbon steel    | 1              |

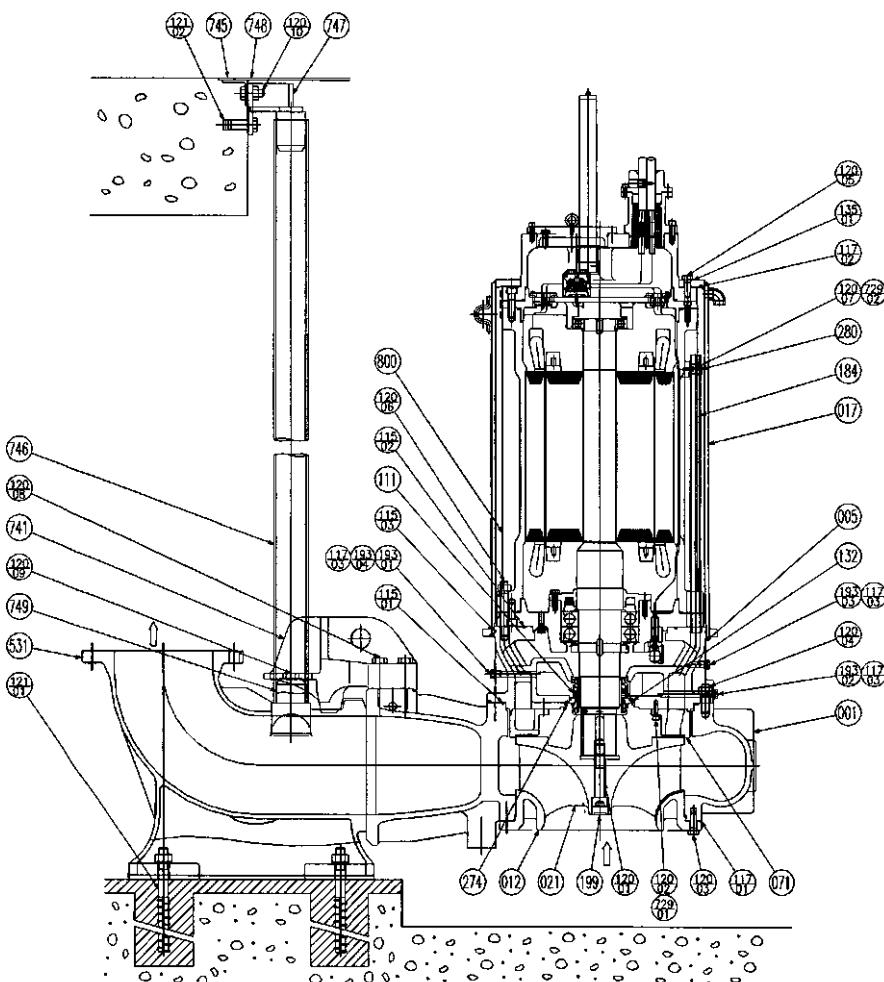
## Sectional View

Project:

Model:

Chk'd:

Date:

**Model DSC4 with Quick Discharge Connector  
Semi-Open Impeller**


| Part No. | Part Name                 | Material        | No. for 1 Unit |
|----------|---------------------------|-----------------|----------------|
| 800      | Motor                     | -               | 1 Set          |
| 749      | Guide Pipe Bush           | AISI 304        | 2              |
| 748      | Floor Plate               | ASTM A283       | 1              |
| 747      | Guide Pipe Holder         | ASTM A283       | 1              |
| 746      | Guide Pipe                | AISI 304        | 2              |
| 745      | Floor Frame               | ASTM A283       | 1              |
| 741      | Sliding Guide             | ASTM 536        | 1              |
| 729-02   | Spring Washer             | AISI 304        | 4              |
| 729-01   | Spring Washer             | AISI 304        | 6              |
| 531      | Quick Discharge Connector | ASTM A48 CL35   | 1              |
| 280      | Pipe Clamp                | AISI 304        | 2              |
| 274      | Snap Ring                 | AISI 304        | 1              |
| 199      | Impeller Bolt Cap         | ASTM A48 CL30   | 1              |
| 193-04   | Plug (Air Vent)           | AISI 304        | 1              |
| 193-03   | Plug (Leak Check)         | AISI 304        | 1              |
| 193-02   | Plug (Oil Drain)          | AISI 304        | 1              |
| 193-01   | Plug (Oil Port)           | AISI 304        | 1              |
| 184      | Cooling Water Pipe        | SGP             | 2              |
| 135-01   | Seal Washer               | AISI304/NBR     | 12             |
| 132      | Parallel Pin              | AISI 304        | 2              |
| 121-02   | Hole-in Anchor            | AISI 304        | 2              |
| 121-01   | Anchor Bolt               | AISI 304        | 4              |
| 120-10   | Holder Bolt               | AISI 304        | 2              |
| 120-09   | Hex. Head Bolt            | AISI 304        | 2              |
| 120-08   | Hex. Head Bolt            | AISI 304        | 4              |
| 120-07   | Hex. Head Bolt            | AISI 304        | 4              |
| 120-06   | Stud Bolt/Nut             | AISI 304        | 8              |
| 120-05   | Hex. Head Bolt            | AISI 304        | 12             |
| 120-04   | Stud Bolt/Nut             | AISI 304        | 12             |
| 120-03   | Hex. Head Bolt            | AISI 304        | 16             |
| 120-02   | Hex. Socket Cap Screw     | AISI 304        | 6              |
| 120-01   | Impeller Bolt             | AISI 403        | 1              |
| 117-03   | Sheet Gasket              | -               | 4              |
| 117-02   | Sheet Gasket              | NBR             | 1              |
| 117-01   | Sheet Gasket              | Non-Asbestos    | 1 Set          |
| 115-03   | O-Ring                    | NBR             | 1              |
| 115-02   | O-Ring                    | NBR             | 1              |
| 115-01   | O-Ring                    | NBR             | 1              |
| 111      | Mechanical Seal           | -               | 1 Set          |
| 071      | Side Plate                | ASTM A48 CL35   | 1              |
| 021      | Impeller                  | ASTM A48 CL35   | 1              |
| 017      | Cooling Jacket            | ASTM A283 Gr. D | 1              |
| 012      | Suction Cover             | ASTM A48 CL35   | 1              |
| 005      | Intermediate Casing       | ASTM A48 CL35   | 1              |
| 001      | Pump Casing               | ASTM A48 CL35   | 1              |

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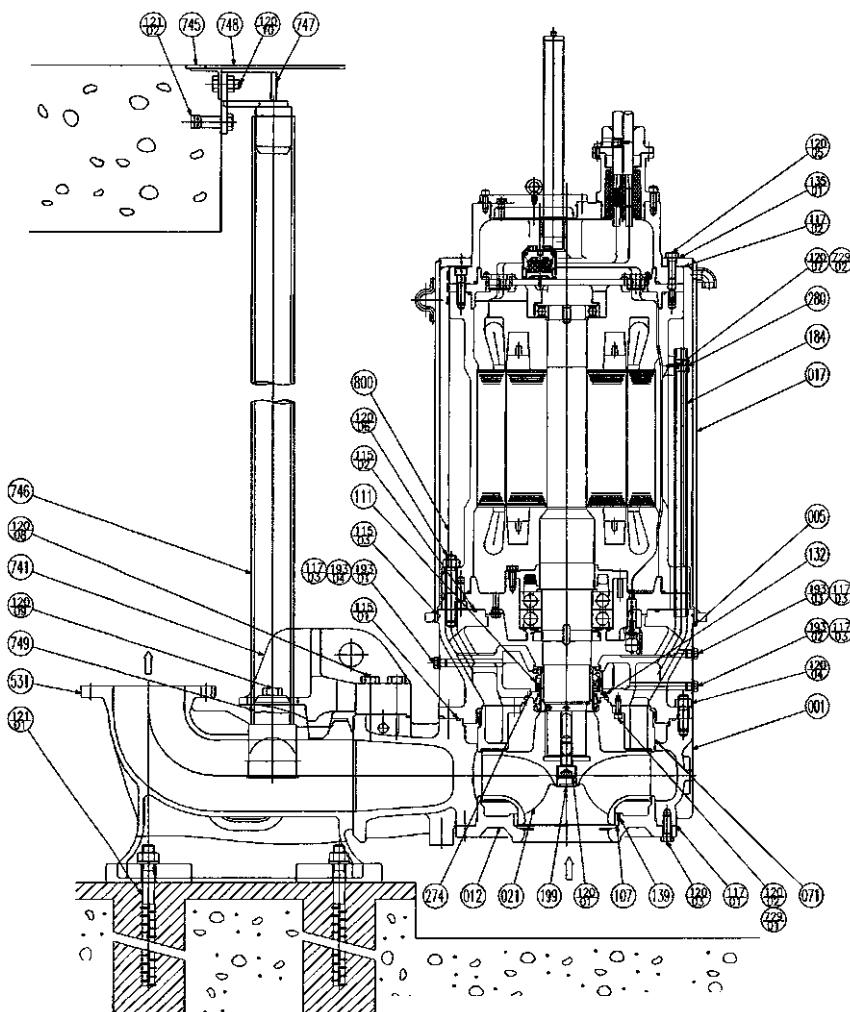
## Sectional View

Project:

Model:

Chk'd:

Date:

**Model DSC4 with Quick Discharge Connector  
Enclosed Impeller**


| Part No. | Part Name         | Material  | No. for 1 Unit |
|----------|-------------------|---|----------------|
| 199*     | Impeller Bolt Cap | ASTM A48 CL30 (4P/6P 50-145HP)<br>304 SS (4P/6P/8P 175-245HP, 10P 50-145HP) | 1              |
|          |                   |   | 1              |

**For reference only;****consult spare parts pricing for available spare parts**

| Part No. | Part Name                 | Material        | No. for 1 Unit |
|----------|---------------------------|-----------------|----------------|
| 800      | Motor                     | -               | 1 Set          |
| 749      | Guide Pipe Bush           | AISI 420        | 2              |
| 748      | Floor Plate               | ASTM A283       | 1              |
| 747      | Guide Pipe Holder         | ASTM A283       | 1              |
| 746      | Guide Pipe                | AISI 304        | 2              |
| 745      | Floor Frame               | ASTM A283       | 1              |
| 741      | Sliding Guide             | ASTM 536        | 1              |
| 729-02   | Spring Washer             | AISI 304        | 4              |
| 729-01   | Spring Washer             | AISI 304        | 6              |
| 531      | Quick Discharge Connector | ASTM A48 CL35   | 1              |
| 280      | Pipe Clamp                | AISI 304        | 2              |
| 274      | Snap Ring                 | AISI 304        | 1              |
| 199*     | Impeller Bolt Cap         | See below*      | 1              |
| 193-04   | Plug (Air Vent)           | AISI 304        | 1              |
| 193-03   | Plug (Leak Check)         | AISI 304        | 1              |
| 193-02   | Plug (Oil Drain)          | AISI 304        | 1              |
| 193-01   | Plug (Oil Port)           | AISI 304        | 1              |
| 184      | Cooling Water Pipe        | SGP             | 2              |
| 139      | Spring Pin                | AISI 304        | 2              |
| 135-01   | Seal Washer               | AISI304/NBR     | 12             |
| 132      | Parallel Pin              | AISI 420        | 2              |
| 121-02   | Hole-in Anchor            | AISI 304        | 2              |
| 121-01   | Anchor Bolt               | AISI 304        | 4              |
| 120-10   | Holder Bolt               | AISI 304        | 2              |
| 120-09   | Hex. Head Bolt            | AISI 304        | 2              |
| 120-08   | Hex. Head Bolt            | AISI 304        | 4              |
| 120-07   | Hex. Head Bolt            | AISI 304        | 4              |
| 120-06   | Stud Bolt/Nut             | AISI 304        | 8              |
| 120-05   | Hex. Head Bolt            | AISI 304        | 12             |
| 120-04   | Stud Bolt/Nut             | AISI 304        | 12             |
| 120-03   | Hex. Head Bolt            | AISI 304        | 16             |
| 120-02   | Hex. Socket Cap Screw     | AISI 304        | 6              |
| 120-01   | Impeller Bolt             | AISI 403        | 1              |
| 117-03   | Sheet Gasket              | -               | 4              |
| 117-02   | Sheet Gasket              | NBR             | 1              |
| 117-01   | Sheet Gasket              | Non-Asbestos    | 1              |
| 115-03   | O-Ring                    | NBR             | 1              |
| 115-02   | O-Ring                    | NBR             | 1              |
| 115-01   | O-Ring                    | NBR             | 1              |
| 111      | Mechanical Seal           | -               | 1 Set          |
| 107      | Casing Ring               | SUS420          |                |
| 071      | Side Plate                | ASTM A48 CL35   | 1              |
| 021      | Impeller                  | ASTM A48 CL35   | 1              |
| 017      | Cooling Jacket            | ASTM A283 Gr. D | 1              |
| 012      | Suction Cover             | ASTM A48 CL35   | 1              |
| 005      | Intermediate Casing       | ASTM A48 CL35   | 1              |
| 001      | Pump Casing               | ASTM A48 CL35   | 1              |



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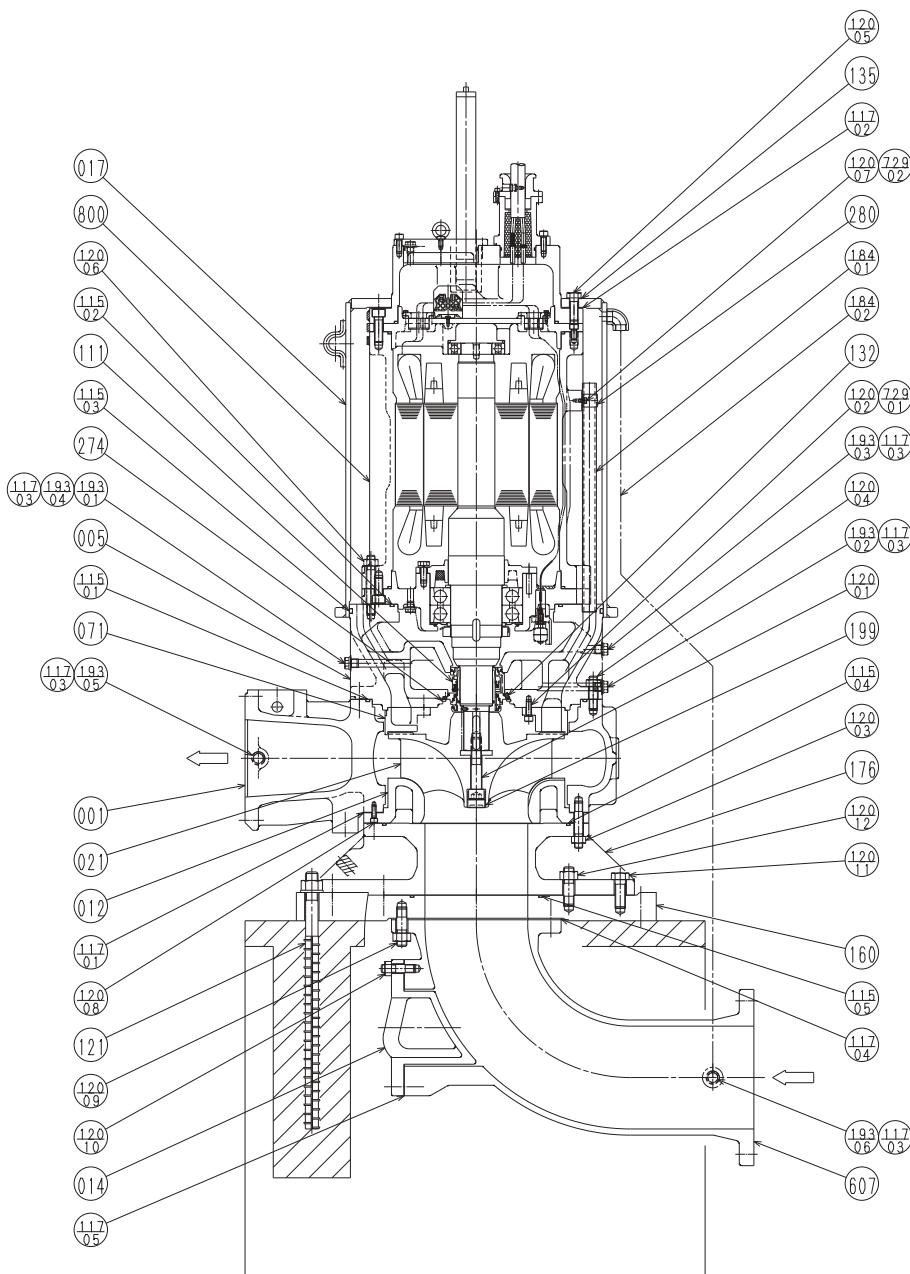
## Sectional View

Project:

Model:

Chk'd:

Date:

**Model DSCA4 Drypit Application  
Semi-Open Impeller**


**For reference only;  
consult spare parts pricing for available spare parts**

| Part No. | Part Name               | Material        | No. for 1 Unit |
|----------|-------------------------|-----------------|----------------|
| 800      | Motor                   | -               | 1 Set          |
| 729-02   | Spring Washer           | AISI 304        | 4              |
| 729-01   | Spring Washer           | AISI 304        | 6              |
| 607      | Suction Elbow           | ASTM A48 CL35   | 1              |
| 280      | Pipe Clamp              | AISI 304        | 2              |
| 274      | Snap Ring               | AISI 304        | 1              |
| 199      | Impeller Bolt Cap       | ASTM A48 CL30   | 1              |
| 193-06   | Plug (Gauge Connection) | AISI 304        | 1              |
| 193-05   | Plug (Gauge Connection) | AISI 304        | 1              |
| 193-04   | Plug (Air Vent)         | AISI 304        | 1              |
| 193-03   | Plug (Leak Check)       | AISI 304        | 1              |
| 193-02   | Plug (Oil Drain)        | AISI 304        | 1              |
| 193-01   | Plug (Oil Port)         | AISI 304        | 1              |
| 184-02   | Return Pipe             | SGP/FCMB        | 1 Set          |
| 184-01   | Cooling Water Pipe      | SGP             | 2              |
| 176      | Suction Stand           | ASTM A48 CL35   | 1              |
| 160      | Base                    | ASTM A283       | 1              |
| 135      | Seal Washer             | AISI304/NBR     | 8              |
| 132      | Parallel Pin            | SUS420          | 2              |
| 121      | Anchor Bolt             | SD295A          | 4              |
| 120-12   | Stud Bolt/Nut           | ASTM A283       | 8              |
| 120-11   | Hex. Head Bolt          | ASTM A283       | 8              |
| 120-10   | Stud Bolt/Nut           | ASTM A283       | 8              |
| 120-09   | Stud Bolt/Nut           | ASTM A283       | 12             |
| 120-08   | Hex. Socket Cap Screw   | AISI 304        | 4              |
| 120-07   | Hex. Head Bolt          | AISI 304        | 4              |
| 120-06   | Stud Bolt/Nut           | AISI 304        | 8              |
| 120-05   | Hex. Head Bolt          | AISI 304        | 8              |
| 120-04   | Stud Bolt/Nut           | AISI 304        | 12             |
| 120-03   | Stud Bolt/Nut           | ASTM A283       | 12             |
| 120-02   | Hex. Socket Cap Screw   | AISI 304        | 6              |
| 120-01   | Impeller Bolt           | AISI 403        | 1              |
| 117-05   | Sheet Gasket            | Non-Asbestos    | 1              |
| 117-04   | Sheet Gasket            | Non-Asbestos    | 1              |
| 117-03   | Sheet Gasket            | -               | 6              |
| 117-02   | Sheet Gasket            | NBR             | 1              |
| 117-01   | Sheet Gasket            | Non-Asbestos    | 1 Set          |
| 115-05   | O-Ring                  | NBR             | 1              |
| 115-04   | O-Ring                  | NBR             | 1              |
| 115-03   | O-Ring                  | NBR             | 1              |
| 115-02   | O-Ring                  | NBR             | 1              |
| 115-01   | O-Ring                  | NBR             | 1              |
| 111      | Mechanical Seal         | -               | 1 Set          |
| 071      | Side Plate              | ASTM A48 CL35   | 1              |
| 021      | Impeller                | ASTM A48 CL35   | 1              |
| 017      | Cooling Jacket          | ASTM A283 Gr. D | 1              |
| 014      | Handhole Cover          | ASTM A48 CL35   | 1              |
| 012      | Suction Cover           | ASTM A48 CL35   | 1              |
| 005      | Intermediate Casing     | ASTM A48 CL35   | 1              |
| 001      | Pump Casing             | ASTM A48 CL35   | 1              |



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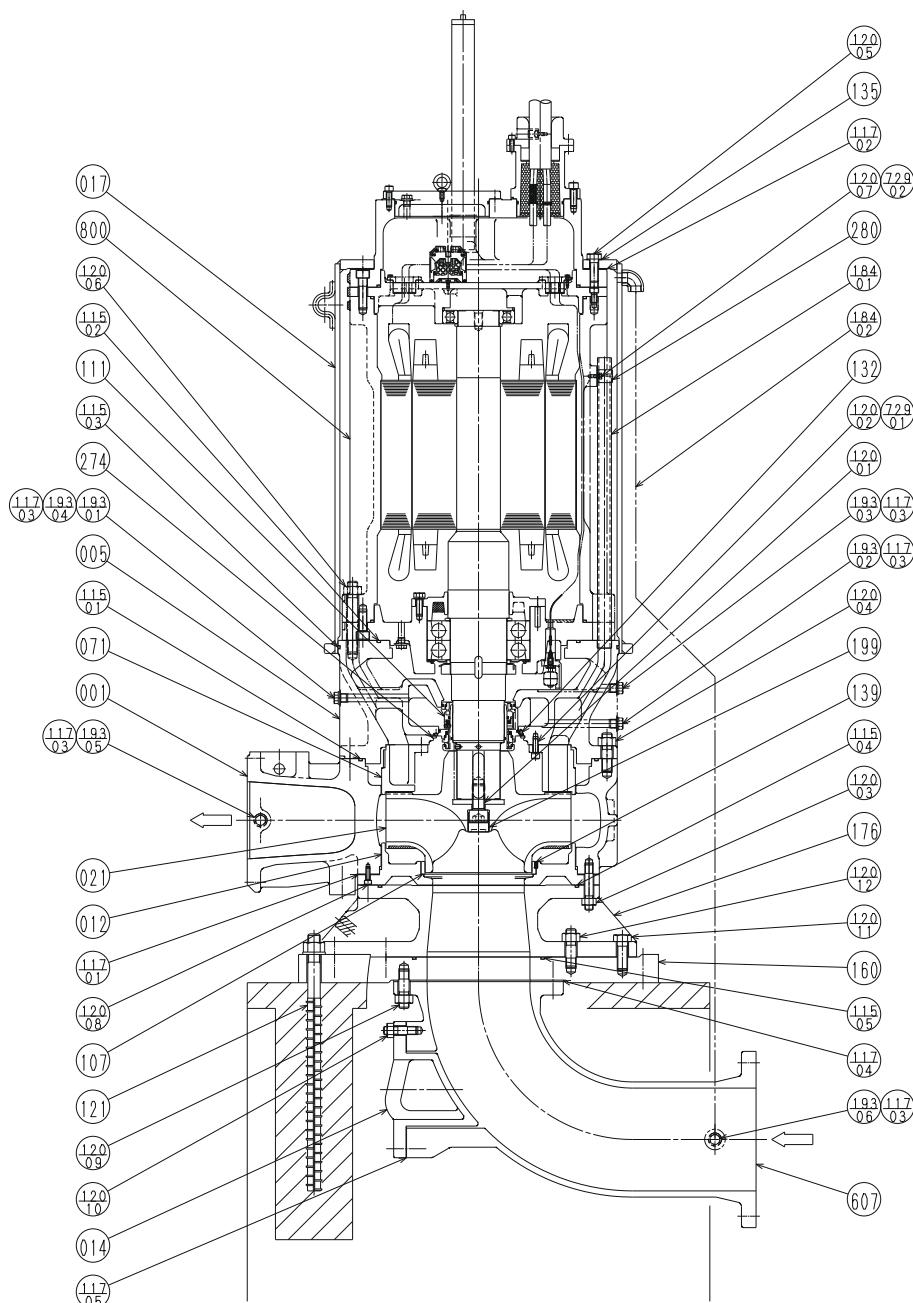
## Sectional View

Project:

Model:

Chk'd:

Date:

**Model DSCA4 Drypit Application  
Enclosed Impeller**


| Part No. | Part Name         | Material  | No. for 1 Unit |
|----------|-------------------|---|----------------|
| 199*     | Impeller Bolt Cap | ASTM A48 CL30 (4P/6P 50-145HP)<br>304 SS (4P/6P/8P 175-245HP, 10P 50-145HP) | 1<br>1         |
| 001      |                   |   |                |

**For reference only;  
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| Part No. | Part Name               | Material        | No. for 1 Unit |
|----------|-------------------------|-----------------|----------------|
| 800      | Motor                   | -               | 1 Set          |
| 729-02   | Spring Washer           | AISI 304        | 4              |
| 729-01   | Spring Washer           | AISI 304        | 6              |
| 607      | Suction Elbow           | ASTM A48 CL35   | 1              |
| 280      | Pipe Clamp              | AISI 304        | 2              |
| 274      | Snap Ring               | AISI 304        | 1              |
| 199*     | Impeller Bolt Cap*      | See below       | 1              |
| 193-06   | Plug (Gauge Connection) | AISI 304        | 1              |
| 193-05   | Plug (Gauge Connection) | AISI 304        | 1              |
| 193-04   | Plug (Air Vent)         | AISI 304        | 1              |
| 193-03   | Plug (Leak Check)       | AISI 304        | 1              |
| 193-02   | Plug (Oil Drain)        | AISI 304        | 1              |
| 193-01   | Plug (Oil Port)         | AISI 304        | 1              |
| 184-02   | Return Pipe             | SGP/FCMB        | 1 Set          |
| 184-01   | Cooling Water Pipe      | SGP             | 2              |
| 176      | Suction Stand           | ASTM A48 CL35   | 1              |
| 160      | Base                    | ASTM A283       | 1              |
| 139      | Spring Pin              | AISI 304        | 2              |
| 135      | Seal Washer             | AISI304/NBR     | 8              |
| 132      | Parallel Pin            | SUS420          | 2              |
| 121      | Anchor Bolt             | SD295A          | 4              |
| 120-12   | Stud Bolt/Nut           | ASTM A283       | 8              |
| 120-11   | Hex. Head Bolt          | ASTM A283       | 8              |
| 120-10   | Stud Bolt/Nut           | ASTM A283       | 8              |
| 120-09   | Stud Bolt/Nut           | ASTM A283       | 12             |
| 120-08   | Hex. Socket Cap Screw   | AISI 304        | 4              |
| 120-07   | Hex. Head Bolt          | AISI 304        | 4              |
| 120-06   | Stud Bolt/Nut           | AISI 304        | 8              |
| 120-05   | Hex. Head Bolt          | AISI 304        | 12             |
| 120-04   | Stud Bolt/Nut           | AISI 304        | 12             |
| 120-03   | Stud Bolt/Nut           | ASTM A283       | 16             |
| 120-02   | Hex. Socket Cap Screw   | AISI 304        | 6              |
| 120-01   | Impeller Bolt           | AISI 403        | 1              |
| 117-05   | Sheet Gasket            | Non-Asbestos    | 1              |
| 117-04   | Sheet Gasket            | Non-Asbestos    | 1              |
| 117-03   | Sheet Gasket            | -               | 6              |
| 117-02   | Sheet Gasket            | NBR             | 1              |
| 117-01   | Sheet Gasket            | Non-Asbestos    | 1 Set          |
| 115-05   | O-Ring                  | NBR             | 1              |
| 115-04   | O-Ring                  | NBR             | 1              |
| 115-03   | O-Ring                  | NBR             | 1              |
| 115-02   | O-Ring                  | NBR             | 1              |
| 115-01   | O-Ring                  | NBR             | 1              |
| 111      | Mechanical Seal         | -               | 1 Set          |
| 107      | Casing Ring             | SUS420          | 1              |
| 071      | Side Plate              | ASTM A48 CL35   | 1              |
| 021      | Impeller                | ASTM A48 CL35   | 1              |
| 017      | Cooling Jacket          | ASTM A283 Gr. D | 1              |
| 014      | Handhole Cover          | ASTM A48 CL35   | 1              |
| 012      | Suction Cover           | ASTM A48 CL35   | 1              |
| 005      | Intermediate Casing     | ASTM A48 CL35   | 1              |
| 001      | Pump Casing             | ASTM A48 CL35   | 1              |



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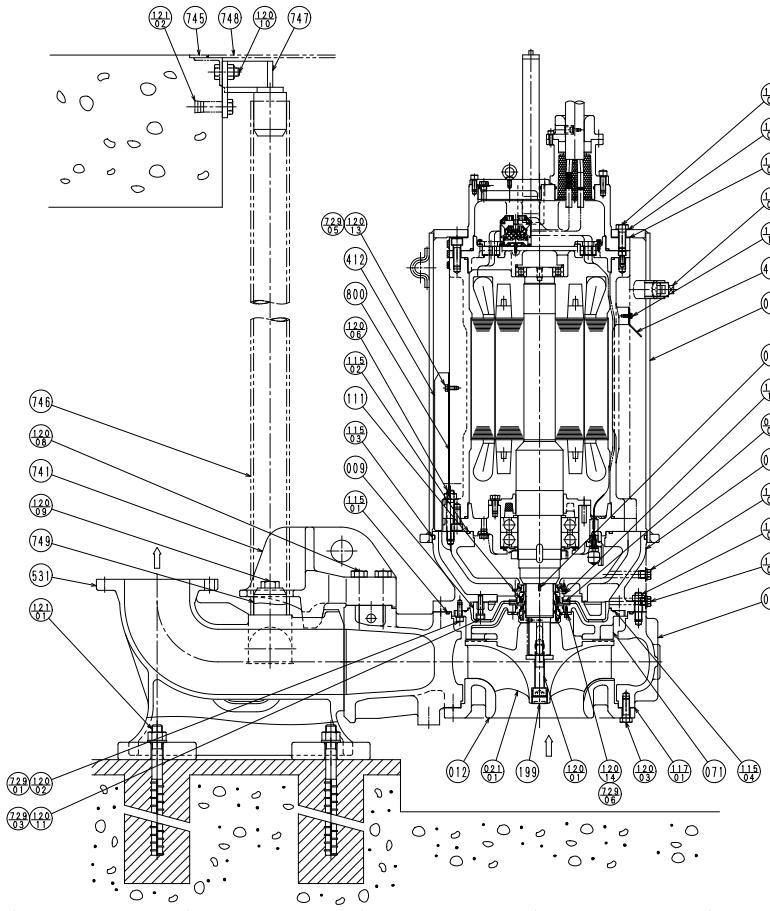
## Sectional View

Project:

Model:

Chk'd:

Date:

**Model DSC4C with Quick Discharge Connector  
Semi-open Impeller – ICS option**


| Part No. | Part Name  | Model PH/HP                 | Material                                 | No. for 1 Unit |
|----------|------------|-----------------------------|--|----------------|
| 071*     | Side Plate | 4P 50HP-100HP/6P 50HP-145HP | Cast iron ASTM A48 CL35                  | 1              |
|          |            | 4P 120HP-145HP              | Copper alloy casting<br>ASTM B584 C83600 | 1              |

| Part No. | Part Name                 | Material        | No. for 1 Unit |
|----------|---------------------------|-----------------|----------------|
| 800      | Motor                     | -               | 1 Set          |
| 749      | Guide Pipe Bush           | AISI 420        | 2              |
| 748      | Floor Plate               | ASTM A283       | 1              |
| 747      | Guide Pipe Holder         | ASTM A283       | 1              |
| 746      | Guide Pipe                | AISI 304        | 2              |
| 745      | Floor Frame               | ASTM A283       | 1              |
| 741      | Sliding Guide             | ASTM 536        | 1              |
| 729-06   | Spring Washer             | AISI 304        | 8              |
| 729-05   | Spring Washer             | AISI 304        | 8              |
| 729-04   | Spring Washer             | AISI 304        | 4              |
| 729-03   | Spring Washer             | AISI 304        | 4              |
| 729-01   | Spring Washer             | AISI 304        | 8              |
| 531      | Quick Discharge Connector | ASTM A48 CL35   | 1              |
| 412      | Guide Plate               | AISI 304        | 4              |
| 408      | Baffle Plate              | AISI 304        | 2              |
| 199      | Impeller Bolt Cap         | ASTM A48 CL30   | 1              |
| 193-06   | Plug (Coolant Supply)     | AISI 304        | 2              |
| 193-05   | Plug (Coolant Drain)      | AISI 304        | 1              |
| 193-03   | Plug (Leak Check)         | AISI 304        | 1              |
| 135-01   | Seal Washer               | AISI 304/NBR    | 8              |
| 121-02   | Hole-In Anchor            | AISI 304        | 2              |
| 121-01   | Anchor Bolt               | AISI 304        | 4              |
| 120-14   | Hex. Socket Cap Screw     | AISI 304        | 8              |
| 120-13   | Hex. Head Bolt            | AISI 304        | 8              |
| 120-12   | Hex. Head Bolt            | AISI 304        | 4              |
| 120-11   | Hex. Socket Cap Screw     | AISI 304        | 4              |
| 120-10   | Holder Bolt               | AISI 304        | 2              |
| 120-09   | Hex. Head Bolt            | AISI 304        | 2              |
| 120-08   | Hex. Head Bolt            | AISI 304        | 4              |
| 120-06   | Stud Bolt/Nut             | AISI 304        | 8              |
| 120-05   | Hex. Head Bolt            | AISI 304        | 8              |
| 120-04   | Stud Bolt/Nut             | AISI 304        | 12             |
| 120-03   | Hex. Head Bolt            | AISI 304        | 12             |
| 120-02   | Hex. Socket Cap Screw     | AISI 304        | 8              |
| 120-01   | Impeller Bolt             | AISI 304        | 1              |
| 117-03   | Sheet Gasket              | -               | 2              |
| 117-02   | Sheet Gasket              | NBR             | 1              |
| 117-01   | Sheet Gasket              | Non-Asbestos    | 1 Set          |
| 115-04   | O-Ring                    | NBR             | 1              |
| 115-03   | O-Ring                    | NBR             | 1              |
| 115-02   | O-Ring                    | NBR             | 1              |
| 115-01   | O-Ring                    | NBR             | 1              |
| 111      | Mechanical Seal           | -               | 1 Set          |
| 071*     | Side Plate                | See Left*       |                |
| 039      | Key                       | AISI 316        | 1              |
| 021-02   | Impeller                  | ASTM CF8        | 1              |
| 021-01   | Impeller                  | ASTM A48 CL35   | 1              |
| 017      | Cooling Jacket            | ASTM A283 Gr. D | 1              |
| 012      | Suction Cover             | ASTM A48 CL35   | 1              |
| 009      | Inner Casing              | ASTM A48 CL35   | 1              |
| 005      | Intermediate Casing       | ASTM A48 CL35   | 1              |
| 001      | Pump Casing               | ASTM A48 CL35   | 1              |

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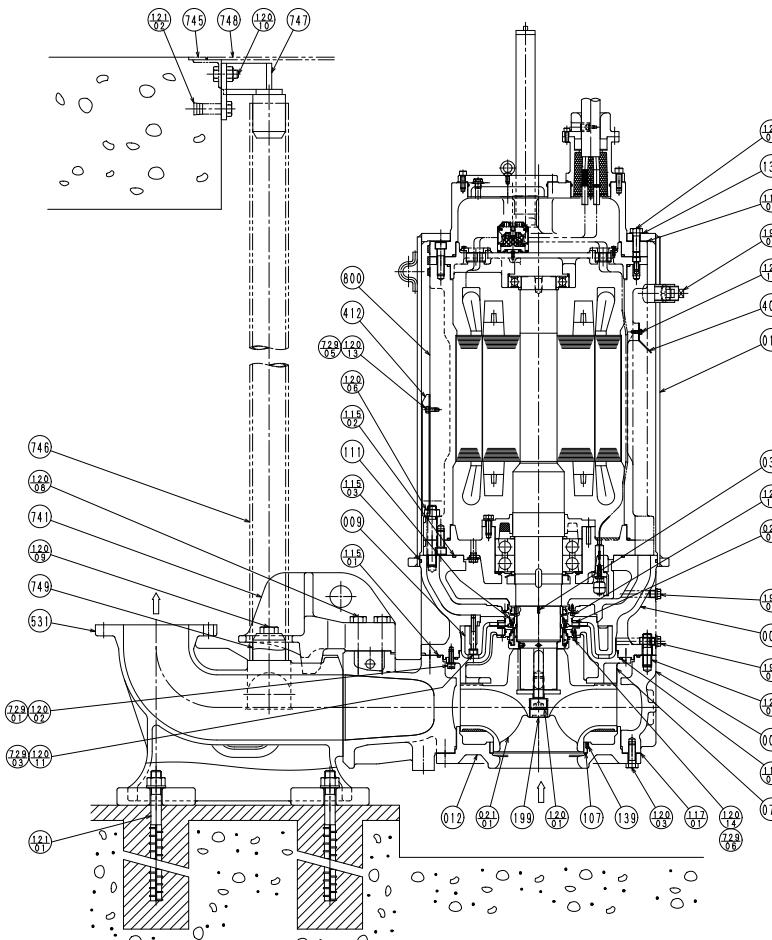
## Project:

## Model:

Chk'd:

Date:

## **Model DSC4C with Quick Discharge Connector Enclosed Impeller – ICS option**



| <b>Part No.</b> | <b>Part Name</b> | <b>Model PH/HP</b>                            | <b>Material</b>   |
|-----------------|------------------|---|---|
| 071*            | Side Plate       | 4P 50HP-100HP/6P 50HP-145HP<br>4P 120HP-145HP | Cast iron ASTM A48 CL35<br>Copper alloy casting<br>ASTM B584 C83600 |

| Part No. | Part Name                 | Material        | No. for 1 Unit |
|----------|---------------------------|-----------------|----------------|
| 800      | Motor                     | -               | 1 Set          |
| 749      | Guide Pipe Bush           | AISI 420        | 2              |
| 748      | Floor Plate               | ASTM A283       | 1              |
| 747      | Guide Pipe Holder         | ASTM A283       | 1              |
| 746      | Guide Pipe                | AISI 304        | 2              |
| 745      | Floor Frame               | ASTM A283       | 1              |
| 741      | Sliding Guide             | ASTM 536        | 1              |
| 729-06   | Spring Washer             | AISI 304        | 8              |
| 729-05   | Spring Washer             | AISI 304        | 8              |
| 729-04   | Spring Washer             | AISI 304        | 4              |
| 729-03   | Spring Washer             | AISI 304        | 4              |
| 729-01   | Spring Washer             | AISI 304        | 8              |
| 531      | Quick Discharge Connector | ASTM A48 CL35   | 1              |
| 412      | Guide Plate               | AISI 304        | 4              |
| 408      | Baffle Plate              | AISI 304        | 2              |
| 199      | Impeller Bolt Cap         | ASTM A48 CL30   | 1              |
| 193-06   | Plug (Coolant Supply)     | AISI 304        | 2              |
| 193-05   | Plug (Coolant Drain)      | AISI 304        | 1              |
| 193-03   | Plug (Leak Check)         | AISI 304        | 1              |
| 139      | Spring Pin                | AISI 304        | 2              |
| 135      | Seal Washer               | AISI 304/NBR    | 12             |
| 121-02   | Hole-In Anchor            | AISI 304        | 2              |
| 121-01   | Anchor Bolt               | AISI 304        | 4              |
| 120-14   | Hex. Socket Cap Screw     | AISI 304        | 8              |
| 120-13   | Hex. Head Bolt            | AISI 304        | 8              |
| 120-12   | Hex. Head Bolt            | AISI 304        | 4              |
| 120-11   | Hex. Socket Cap Screw     | AISI 304        | 4              |
| 120-10   | Holder Bolt               | AISI 304        | 2              |
| 120-09   | Hex. Head Bolt            | AISI 304        | 2              |
| 120-08   | Hex. Head Bolt            | AISI 304        | 4              |
| 120-06   | Stud Bolt/Nut             | AISI 304        | 8              |
| 120-05   | Hex. Head Bolt            | AISI 304        | 12             |
| 120-04   | Stud Bolt/Nut             | AISI 304        | 12             |
| 120-03   | Hex. Head Bolt            | AISI 304        | 16             |
| 120-02   | Hex. Socket Cap Screw     | AISI 304        | 8              |
| 120-01   | Impeller Bolt             | AISI 304        | 1              |
| 117-03   | Sheet Gasket              | -               | 2              |
| 117-02   | Sheet Gasket              | NBR             | 1              |
| 117-01   | Sheet Gasket              | Non-Asbestos    | 1 Set          |
| 115-04   | O-Ring                    | NBR             | 1              |
| 115-03   | O-Ring                    | NBR             | 1              |
| 115-02   | O-Ring                    | NBR             | 1              |
| 115-01   | O-Ring                    | NBR             | 1              |
| 111      | Mechanical Seal           | -               | 1 Set          |
| 107      | Casing Ring               | AISI 420        | 1              |
| 071*     | Side Plate                | See Left*       | 1              |
| 039      | Key                       | AISI 316        | 1              |
| 021-02   | Impeller                  | ASTM CF8        | 1              |
| 021-01   | Impeller                  | ASTM A48 CL35   | 1              |
| 017      | Cooling Jacket            | ASTM A283 Gr. D | 1              |
| 012      | Suction Cover             | ASTM A48 CL35   | 1              |
| 009      | Inner Casing              | ASTM A48 CL35   | 1              |
| 005      | Intermediate Casing       | ASTM A48 CL35   | 1              |
| 001      | Pump Casing               | ASTM A48 CL35   | 1              |

### ***For reference only;***

**consult spare parts pricing for available spare parts**



## **Sectional View**

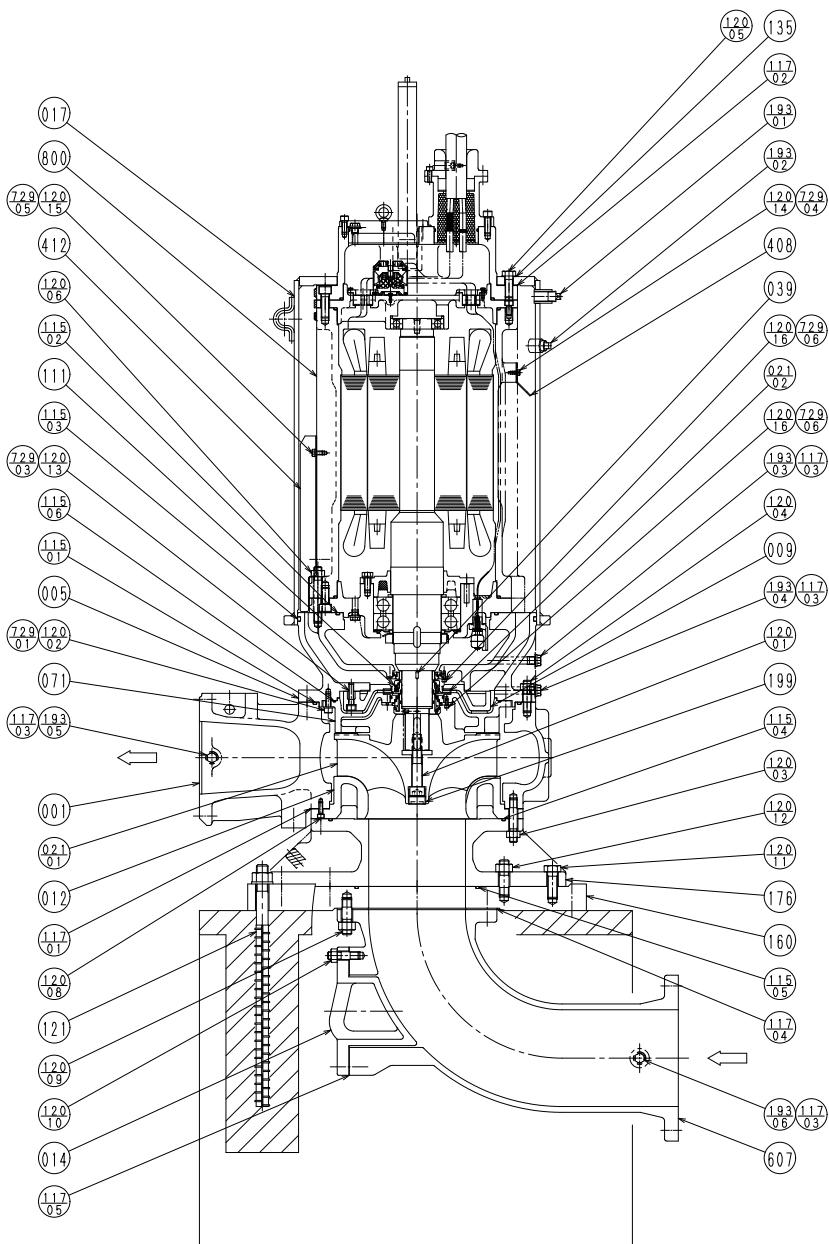
## Project:

## Model:

Chk'd:

Date:

## **Model DSCA4C Drypit Application Semi-Open Impeller – ICS option**



| Part No. | Part Name                 | Material        | No. for 1 Unit |
|----------|---------------------------|-----------------|----------------|
| 800      | Motor                     | -               | 1 Set          |
| 729-06   | Spring Washer             | AISI 304        | 8              |
| 729-05   | Spring Washer             | AISI 304        | 8              |
| 729-04   | Spring Washer             | AISI 304        | 4              |
| 729-03   | Spring Washer             | AISI 304        | 4              |
| 729-01   | Spring Washer             | AISI 304        | 8              |
| 607      | Suction Elbow             | ASTM A48 CL35   | 1              |
| 412      | Guide Plate               | AISI 304        | 4              |
| 408      | Baffle Plate              | AISI 304        | 2              |
| 199      | Impeller Bolt Cap         | AISI 304        | 1              |
| 193-06   | Plug (Gauge Connection)   | AISI 304        | 1              |
| 193-05   | Plug (Gauge Connection)   | AISI 304        | 1              |
| 193-04   | Plug (Coolant Drain)      | AISI 304        | 1              |
| 193-03   | Plug (Leak Check)         | AISI 304        | 1              |
| 193-02   | Plug (Coolant Full Level) | AISI 304        | 1              |
| 193-01   | Plug (Coolant Supply)     | AISI 304        | 1              |
| 176      | Suction Stand             | ASTM A48 CL35   | 1              |
| 160      | Base                      | ASTM A283       | 1              |
| 135-01   | Seal Washer               | AISI 304/NBR    | 8              |
| 121      | Anchor Bolt               | AISI 304        | 4              |
| 120-16   | Hex. Socket Cap Screw     | AISI 303        | 8              |
| 120-15   | Hex. Head Bolt            | AISI 304        | 8              |
| 120-14   | Hex. Head Bolt            | AISI 304        | 4              |
| 120-13   | Hex. Socket Cap Screw     | AISI 304        | 4              |
| 120-12   | Stud Bolt/Nut             | ASTM A283       | 8              |
| 120-11   | Hex. Head Bolt            | ASTM A283       | 8              |
| 120-10   | Stud Bolt/Nut             | ASTM A283       | 8              |
| 120-09   | Stud Bolt/Nut             | ASTM A283       | 12             |
| 120-08   | Hex. Socket Cap Screw     | AISI 304        | 4              |
| 120-06   | Stud Bolt/Nut             | AISI 304        | 8              |
| 120-05   | Hex. Head Bolt            | AISI 304        | 8              |
| 120-04   | Stud Bolt/Nut             | AISI 304        | 12             |
| 120-03   | Stud Bolt/Nut             | AISI 400        | 12             |
| 120-02   | Hex. Socket Cap Screw     | AISI 304        | 8              |
| 120-01   | Impeller Bolt             | AISI 403        | 1              |
| 117-05   | Sheet Gasket              | Non-Asbestos    | 1              |
| 117-04   | Sheet Gasket              | Non-Asbestos    | 1              |
| 117-03   | Sheet Gasket              | -               | 4              |
| 117-02   | Sheet Gasket              | NBR             | 1              |
| 117-01   | Sheet Gasket              | Non-Asbestos    | 1 Set          |
| 115-06   | O-Ring                    | NBR             | 1              |
| 115-05   | O-Ring                    | NBR             | 1              |
| 115-04   | O-Ring                    | NBR             | 1              |
| 115-03   | O-Ring                    | NBR             | 1              |
| 115-02   | O-Ring                    | NBR             | 1              |
| 115-01   | O-Ring                    | NBR             | 1              |
| 111      | Mechanical Seal           | -               | 1 Set          |
| 071      | Side Plate                | ASTM A48 CL35   | 1              |
| 039      | Key                       | AISI 316        | 1              |
| 021-02   | Impeller                  | ASTM CF8        | 1              |
| 021-01   | Impeller                  | ASTM A48 CL35   | 1              |
| 017      | Cooling Jacket            | ASTM A283 Gr. D | 1              |
| 014      | Handhole Cover            | ASTM A48 CL35   | 1              |
| 012      | Suction Cover             | ASTM A48 CL35   | 1              |
| 009      | Inner Casing              | ASTM A48 CL35   | 1              |
| 005      | Intermediate Casing       | ASTM A48 CL35   | 1              |
| 001      | Pump Casing               | ASTM A48 CL35   | 1              |

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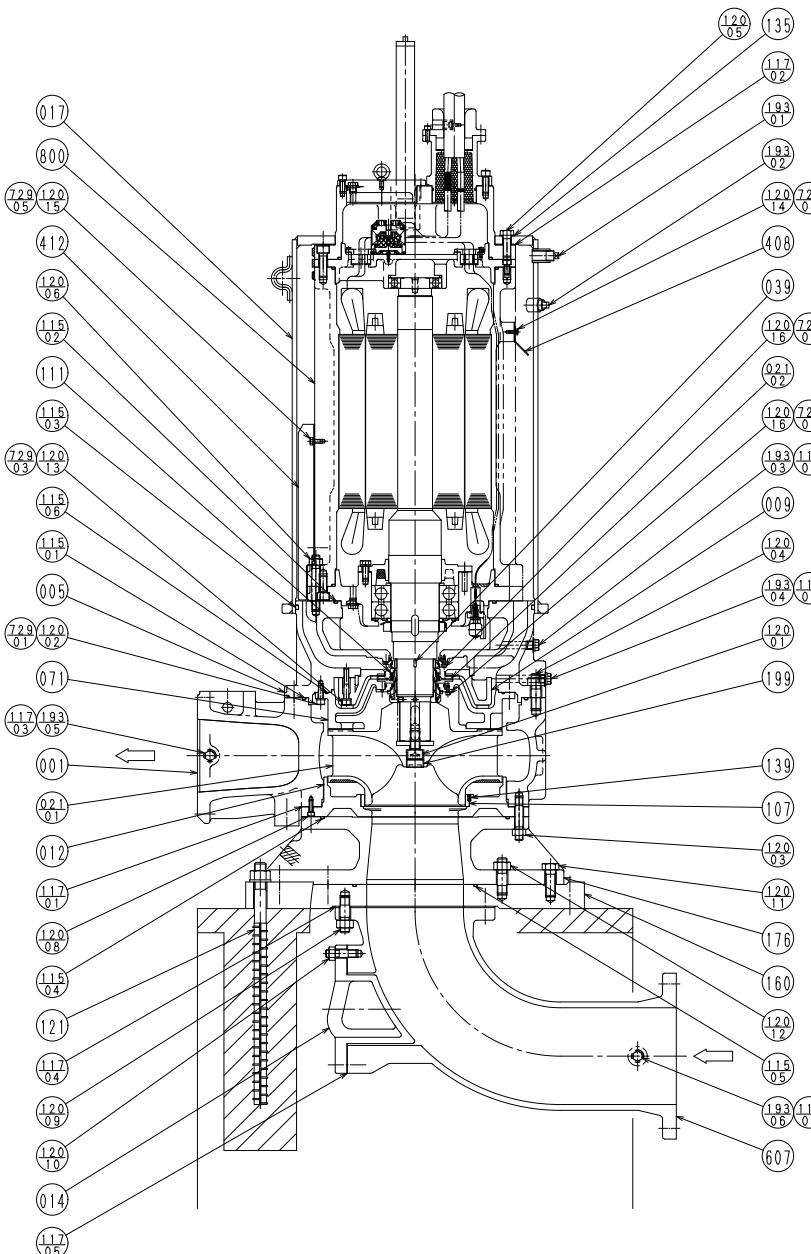
## Sectional View

Project:

Model:

Chk'd:

Date:

**Model DSCA4C Drypit Application  
Enclosed Impeller – ICS option**


| Part No. | Part Name                 | Material        | No. for 1 Unit |
|----------|---------------------------|-----------------|----------------|
| 800      | Motor                     | -               | 1 Set          |
| 729-06   | Spring Washer             | AISI 304        | 8              |
| 729-05   | Spring Washer             | AISI 304        | 8              |
| 729-04   | Spring Washer             | AISI 304        | 4              |
| 729-03   | Spring Washer             | AISI 304        | 4              |
| 729-01   | Spring Washer             | AISI 304        | 8              |
| 607      | Suction Elbow             | ASTM A48 CL35   | 1              |
| 412      | Guide Plate               | AISI 304        | 4              |
| 408      | Baffle Plate              | AISI 304        | 2              |
| 199      | Impeller Bolt Cap         | AISI 304        | 1              |
| 193-06   | Plug (Gauge Connection)   | AISI 304        | 1              |
| 193-05   | Plug (Gauge Connection)   | AISI 304        | 1              |
| 193-04   | Plug (Coolant Drain)      | AISI 304        | 1              |
| 193-03   | Plug (Leak Check)         | AISI 304        | 1              |
| 193-02   | Plug (Coolant Full Level) | AISI 304        | 1              |
| 193-01   | Plug (Coolant Supply)     | AISI 304        | 1              |
| 176      | Suction Stand             | ASTM A48 CL35   | 1              |
| 160      | Base                      | ASTM A283       | 1              |
| 139      | Spring Pin                | AISI 304        | 2              |
| 135-01   | Seal Washer               | AISI 304/NBR    | 8              |
| 121      | Anchor Bolt               | AISI 304        | 4              |
| 120-16   | Hex. Socket Cap Screw     | AISI 303        | 8              |
| 120-15   | Hex. Head Bolt            | AISI 304        | 8              |
| 120-14   | Hex. Head Bolt            | AISI 304        | 4              |
| 120-13   | Hex. Socket Cap Screw     | AISI 304        | 4              |
| 120-12   | Stud Bolt/Nut             | ASTM A283       | 8              |
| 120-11   | Hex. Head Bolt            | ASTM A283       | 8              |
| 120-10   | Stud Bolt/Nut             | ASTM A283       | 8              |
| 120-09   | Stud Bolt/Nut             | ASTM A283       | 12             |
| 120-08   | Hex. Socket Cap Screw     | AISI 304        | 4              |
| 120-06   | Stud Bolt/Nut             | AISI 304        | 8              |
| 120-05   | Hex. Head Bolt            | AISI 304        | 8              |
| 120-04   | Stud Bolt/Nut             | AISI 304        | 12             |
| 120-03   | Stud Bolt/Nut             | AISI 400        | 12             |
| 120-02   | Hex. Socket Cap Screw     | AISI 304        | 8              |
| 120-01   | Impeller Bolt             | AISI 403        | 1              |
| 117-05   | Sheet Gasket              | Non-Asbestos    | 1              |
| 117-04   | Sheet Gasket              | Non-Asbestos    | 1              |
| 117-03   | Sheet Gasket              | -               | 4              |
| 117-02   | Sheet Gasket              | NBR             | 1              |
| 117-01   | Sheet Gasket              | Non-Asbestos    | 1 Set          |
| 115-06   | O-Ring                    | NBR             | 1              |
| 115-05   | O-Ring                    | NBR             | 1              |
| 115-04   | O-Ring                    | NBR             | 1              |
| 115-03   | O-Ring                    | NBR             | 1              |
| 115-02   | O-Ring                    | NBR             | 1              |
| 115-01   | O-Ring                    | NBR             | 1              |
| 111      | Mechanical Seal           | -               | 1 Set          |
| 107      | Casing Ring               | AISI 420        | 1              |
| 071      | Side Plate                | ASTM A48 CL35   | 1              |
| 039      | Key                       | AISI 316        | 1              |
| 021-02   | Impeller                  | ASTM CF8        | 1              |
| 021-01   | Impeller                  | ASTM A48 CL35   | 1              |
| 017      | Cooling Jacket            | ASTM A283 Gr. D | 1              |
| 014      | Handhole Cover            | ASTM A48 CL35   | 1              |
| 012      | Suction Cover             | ASTM A48 CL35   | 1              |
| 009      | Inner Casing              | ASTM A48 CL35   | 1              |
| 005      | Intermediate Casing       | ASTM A48 CL35   | 1              |
| 001      | Pump Casing               | ASTM A48 CL35   | 1              |

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**Motor Specifications**

Project:

Model:

Chk'd:

Date:

**1. MOTOR SPECIFICATIONS**

|                       |  |
|-----------------------|--|
| Type                  | Air-filled watertight three phase induction motor  |
| Frequency and Voltage | 60Hz, 460V   |
| Insulation class      | H  |
| Service factor        | 1.15   |
| Max. allowable starts | 15 starts per hour (4P/6P 50-145HP)<br>10 starts per hour (4P/6P/8P 175-245HP, 10P 50-145HP)                     |
| Protection            | Thermal detector for each phase<br>Float type leakage detector<br>Thermal detector for thrust bearing (optional) |

**2. STARTING METHOD**

Direct on line (DOL) starting and variable frequency drive (VFD) starting apply to Ebara submersible motor pump, type DSC4.

If a VFD drive is selected, minimum frequency is 30Hz.

**3. CABLE**

Watertight rubber-insulated flexible cable conforming to UL & CSA is provided.

Detailed specifications are shown in **Table 5-2 CABLE DATA**.

Cables provided for the motor consist of the following:

Protection : AWG #14/5C (AWG#14/8C if thermal detector for thrust bearing is required)

Power supply : See **Table 5-1 MOTOR DATA**.

Standard length of cables : 50 ft. (15.25 m.)

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**Electrical Data**

Project:

Model:

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Date:

**Table 5-1 Motor Data 60Hz 460V****1800 RPM**

| Pole | kW  | HP  | Frame | Full Load<br>(A) | Efficiency (%) |          |          | Power Factor (%) |          |          |
|------|-----|-----|-------|------------------|----------------|----------|----------|------------------|----------|----------|
|      |     |     |       |                  | 1/2 Load       | 3/4 Load | 1/1 Load | 1/2 Load         | 3/4 Load | 1/1 Load |
| 4    | 37  | 50  | 315   | 65               | 80.4           | 84.2     | 85.9     | 71.5             | 79.5     | 82.9     |
|      | 45  | 60  | 315   | 77               | 82.3           | 85.9     | 87.2     | 72.4             | 80.3     | 83.7     |
|      | 55  | 75  | 315   | 93               | 83.7           | 87.0     | 88.2     | 72.9             | 80.6     | 83.8     |
|      | 75  | 100 | 315   | 124              | 85.1           | 88.0     | 89.0     | 76.0             | 82.8     | 85.1     |
|      | 90  | 120 | 380   | 144              | 85.0           | 88.3     | 89.6     | 77.2             | 84.5     | 87.4     |
|      | 110 | 145 | 380   | 176              | 85.7           | 88.9     | 90.2     | 75.4             | 83.4     | 86.9     |
|      | 132 | 175 | 380   | 204              | 86.7           | 89.6     | 90.7     | 82.9             | 88.0     | 89.6     |
|      | 150 | 200 | 480   | 233              | 86.7           | 89.8     | 91.2     | 78.1             | 85.4     | 88.4     |
|      | 160 | 215 | 480   | 253              | 86.7           | 89.8     | 91.2     | 74.9             | 83.2     | 86.9     |
|      | 185 | 245 | 480   | 288              | 86.8           | 89.9     | 91.3     | 77.5             | 84.9     | 88.1     |

| Pole | kW  | HP  | Start          |               | Cable          |        | Mech.<br>Seal<br>size | Bearing size |        |
|------|-----|-----|----------------|---------------|----------------|--------|-----------------------|--------------|--------|
|      |     |     | Current<br>(%) | Torque<br>(%) | Size<br>(AWG#) | Number |                       | Lower        | Upper  |
| 4    | 37  | 50  | 570            | 227           | 4              | 1      | 63                    | 7220BDB      | 6212ZZ |
|      | 45  | 60  | 566            | 217           | 4              | 1      | 63                    | 7220BDB      | 6212ZZ |
|      | 55  | 75  | 610            | 226           | 1              | 1      | 63                    | 7220BDB      | 6212ZZ |
|      | 75  | 100 | 581            | 219           | 1              | 1      | 75                    | 7220BDB      | 6212ZZ |
|      | 90  | 120 | 708            | 261           | 2/0            | 1      | 100                   | 7222BDB      | 6216ZZ |
|      | 110 | 145 | 752            | 288           | 4/0            | 1      | 100                   | 7222BDB      | 6216ZZ |
|      | 132 | 175 | 740            | 168           | 4/0            | 1      | 100                   | 7222BDB      | 6216ZZ |
|      | 150 | 200 | 777            | 182           | 1              | 2      | 100                   | 7322BDB      | 6218ZZ |
|      | 160 | 215 | 790            | 187           | 1              | 2      | 100                   | 7322BDB      | 6218ZZ |
|      | 185 | 245 | 791            | 186           | 2/0            | 2      | 100                   | 7326BDB      | 6218ZZ |



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**Electrical Data**

Project:

Model:

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**Motor Data 60Hz 460V****1200 RPM**

| Pole | kW  | HP  | Frame | Full Load<br>(A) | Efficiency (%) |          |          | Power Factor (%) |          |          |
|------|-----|-----|-------|------------------|----------------|----------|----------|------------------|----------|----------|
|      |     |     |       |                  | 1/2 Load       | 3/4 Load | 1/1 Load | 1/2 Load         | 3/4 Load | 1/1 Load |
| 6    | 37  | 50  | 315   | 64               | 83.2           | 86.2     | 87.0     | 72.6             | 80.2     | 83.1     |
|      | 45  | 60  | 315   | 82               | 79.6           | 83.7     | 85.3     | 67.1             | 76.1     | 80.4     |
|      | 55  | 75  | 380   | 94               | 83.1           | 86.7     | 88.1     | 70.8             | 79.3     | 83.2     |
|      | 75  | 100 | 380   | 129              | 82.9           | 86.6     | 88.2     | 68.3             | 77.9     | 82.3     |
|      | 90  | 120 | 380   | 152              | 83.8           | 87.2     | 88.7     | 72.1             | 80.0     | 83.4     |
|      | 110 | 145 | 380   | 184              | 85.5           | 88.5     | 89.7     | 71.6             | 79.7     | 83.3     |
|      | 132 | 175 | 480   | 202              | 86.9           | 89.7     | 90.8     | 83.3             | 88.5     | 90.4     |
|      | 150 | 200 | 480   | 226              | 87.7           | 90.3     | 91.3     | 84.9             | 89.5     | 91.1     |
|      | 160 | 215 | 480   | 244              | 86.9           | 89.7     | 90.9     | 83.5             | 88.6     | 90.5     |
|      | 185 | 245 | 480   | 283              | 86.6           | 89.6     | 90.8     | 82.4             | 88.0     | 90.0     |

| Pole | kW  | HP  | Start          |               | Cable          |        | Mech.<br>Seal<br>size | Bearing size |        |
|------|-----|-----|----------------|---------------|----------------|--------|-----------------------|--------------|--------|
|      |     |     | Current<br>(%) | Torque<br>(%) | Size<br>(AWG#) | Number |                       | Lower        | Upper  |
| 6    | 37  | 50  | 546            | 189           | 4              | 1      | 63                    | 7220BDB      | 6212ZZ |
|      | 45  | 60  | 544            | 208           | 4              | 1      | 63                    | 7220BDB      | 6212ZZ |
|      | 55  | 75  | 691            | 264           | 1              | 1      | 75                    | 7222BDB      | 6216ZZ |
|      | 75  | 100 | 744            | 274           | 1              | 1      | 100                   | 7222BDB      | 6216ZZ |
|      | 90  | 120 | 707            | 260           | 2/0            | 1      | 100                   | 7222BDB      | 6216ZZ |
|      | 110 | 145 | 713            | 271           | 4/0            | 1      | 100                   | 7222BDB      | 6216ZZ |
|      | 132 | 175 | 681            | 152           | 4/0            | 1      | 120                   | 7226BDB      | 6218ZZ |
|      | 150 | 200 | 681            | 150           | 1              | 2      | 120                   | 7226BDB      | 6218ZZ |
|      | 160 | 215 | 687            | 153           | 1              | 2      | 120                   | 7226BDB      | 6218ZZ |
|      | 185 | 245 | 701            | 156           | 2/0            | 2      | 120                   | 7228BDB      | 6218ZZ |



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**Electrical Data**

Project:

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**Motor Data 60Hz 460V****900 RPM**

| Pole | kW  | HP  | Frame | Full Load<br>(A) | Efficiency (%) |          |          | Power Factor (%) |          |          |
|------|-----|-----|-------|------------------|----------------|----------|----------|------------------|----------|----------|
|      |     |     |       |                  | 1/2 Load       | 3/4 Load | 1/1 Load | 1/2 Load         | 3/4 Load | 1/1 Load |
| 8    | 132 | 175 | 480   | 214              | 85.9           | 88.8     | 90.0     | 75.3             | 82.7     | 85.8     |
|      | 150 | 200 | 480   | 242              | 86.7           | 89.5     | 90.6     | 74.7             | 82.4     | 85.5     |
|      | 160 | 215 | 480   | 258              | 86.8           | 89.6     | 90.6     | 74.8             | 82.4     | 85.6     |
|      | 185 | 245 | 590   | 298              | 87.8           | 90.6     | 91.8     | 74.1             | 81.8     | 84.9     |

| Pole | kW  | HP  | Start          |               | Cable          |        | Mech.<br>Seal<br>size | Bearing size |        |
|------|-----|-----|----------------|---------------|----------------|--------|-----------------------|--------------|--------|
|      |     |     | Current<br>(%) | Torque<br>(%) | Size<br>(AWG#) | Number |                       | Lower        | Upper  |
| 8    | 132 | 175 | 589            | 142           | 4/0            | 1      | 120                   | 7226BDB      | 6218ZZ |
|      | 150 | 200 | 593            | 142           | 1              | 2      | 120                   | 7226BDB      | 6218ZZ |
|      | 160 | 215 | 592            | 142           | 2/0            | 2      | 120                   | 7226BDB      | 6218ZZ |
|      | 185 | 245 | 617            | 138           | 2/0            | 2      | 120                   | 7228BDB      | 6222ZZ |

**720 RPM**

| Pole | kW  | HP  | Frame | Full Load<br>(A) | Efficiency (%) |          |          | Power Factor (%) |          |          |
|------|-----|-----|-------|------------------|----------------|----------|----------|------------------|----------|----------|
|      |     |     |       |                  | 1/2 Load       | 3/4 Load | 1/1 Load | 1/2 Load         | 3/4 Load | 1/1 Load |
| 10   | 37  | 50  | 380   | 66.5             | 83.7           | 86.6     | 87.6     | 65.0             | 75.2     | 80.3     |
|      | 45  | 60  | 380   | 79               | 81.9           | 85.4     | 86.7     | 68.8             | 78.0     | 82.3     |
|      | 55  | 75  | 380   | 96               | 83.0           | 86.2     | 87.4     | 68.4             | 77.7     | 82.1     |
|      | 75  | 100 | 480   | 124              | 84.4           | 87.6     | 88.8     | 73.7             | 81.9     | 85.4     |
|      | 90  | 120 | 480   | 152              | 84.4           | 87.6     | 88.9     | 70.1             | 79.2     | 83.5     |
|      | 110 | 145 | 480   | 186              | 84.4           | 87.6     | 88.9     | 70.4             | 79.3     | 83.4     |

| Pole | kW  | HP  | Start          |               | Cable          |        | Mech.<br>Seal<br>size | Bearing size |        |
|------|-----|-----|----------------|---------------|----------------|--------|-----------------------|--------------|--------|
|      |     |     | Current<br>(%) | Torque<br>(%) | Size<br>(AWG#) | Number |                       | Lower        | Upper  |
| 10   | 37  | 50  | 574            | 155           | 4              | 1      | 75                    | 7222BDB      | 6216ZZ |
|      | 45  | 60  | 582            | 155           | 4              | 1      | 75                    | 7222BDB      | 6216ZZ |
|      | 55  | 75  | 578            | 153           | 1              | 1      | 100                   | 7222BDB      | 6216ZZ |
|      | 75  | 100 | 681            | 157           | 2/0            | 1      | 100                   | 7222BDB      | 6218ZZ |
|      | 90  | 120 | 697            | 163           | 2/0            | 1      | 100                   | 7222BDB      | 6218ZZ |
|      | 110 | 145 | 683            | 160           | 4/0            | 1      | 120                   | 7226BDB      | 6218ZZ |



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**Electrical Data**

Project:

Model:

Chk'd:

Date:

**Table 5-2 Cable Data**

| AWG | No. of Cond. | Type | Cond.<br>Strand | Nom. Ins. Thickness |      | Nominal O.D. |       |
|-----|--------------|------|-----------------|---------------------|------|--------------|-------|
|     |              |      |                 | inch                | mm   | inch         | mm    |
| 14  | 5            | SOOW | 41/30           | 0.045               | 1.14 | 0.645        | 16.26 |
| 14  | 8            | SOOW | 41/30           | 0.045               | 1.14 | 0.810        | 20.57 |
| 4   | 4            | W    | 259             | 0.060               | 1.52 | 1.210        | 30.73 |
| 1   | 4            | W    | 259             | 0.080               | 2.03 | 1.595        | 40.51 |
| 2/0 | 4            | W    | 259             | 0.080               | 2.03 | 1.845        | 46.86 |
| 4/0 | 4            | W    | 259             | 0.080               | 2.03 | 2.145        | 54.48 |

| AWG | No. of Cond. | Type | Resistance at 20°C |       | Approx. Weight |       |
|-----|--------------|------|--------------------|-------|----------------|-------|
|     |              |      | Ω/MFT              | Ω/km  | LBS/MFT        | kg/km |
| 14  | 5            | SOOW | 2.53               | 8.29  | 269            | 400   |
| 14  | 8            | SOOW | 2.53               | 8.29  | 430            | 640   |
| 4   | 4            | W    | 0.249              | 0.815 | 1040           | 1548  |
| 1   | 4            | W    | 0.124              | 0.407 | 2045           | 3044  |
| 2/0 | 4            | W    | 0.078              | 0.256 | 2950           | 4391  |
| 4/0 | 4            | W    | 0.049              | 0.161 | 3885           | 5783  |



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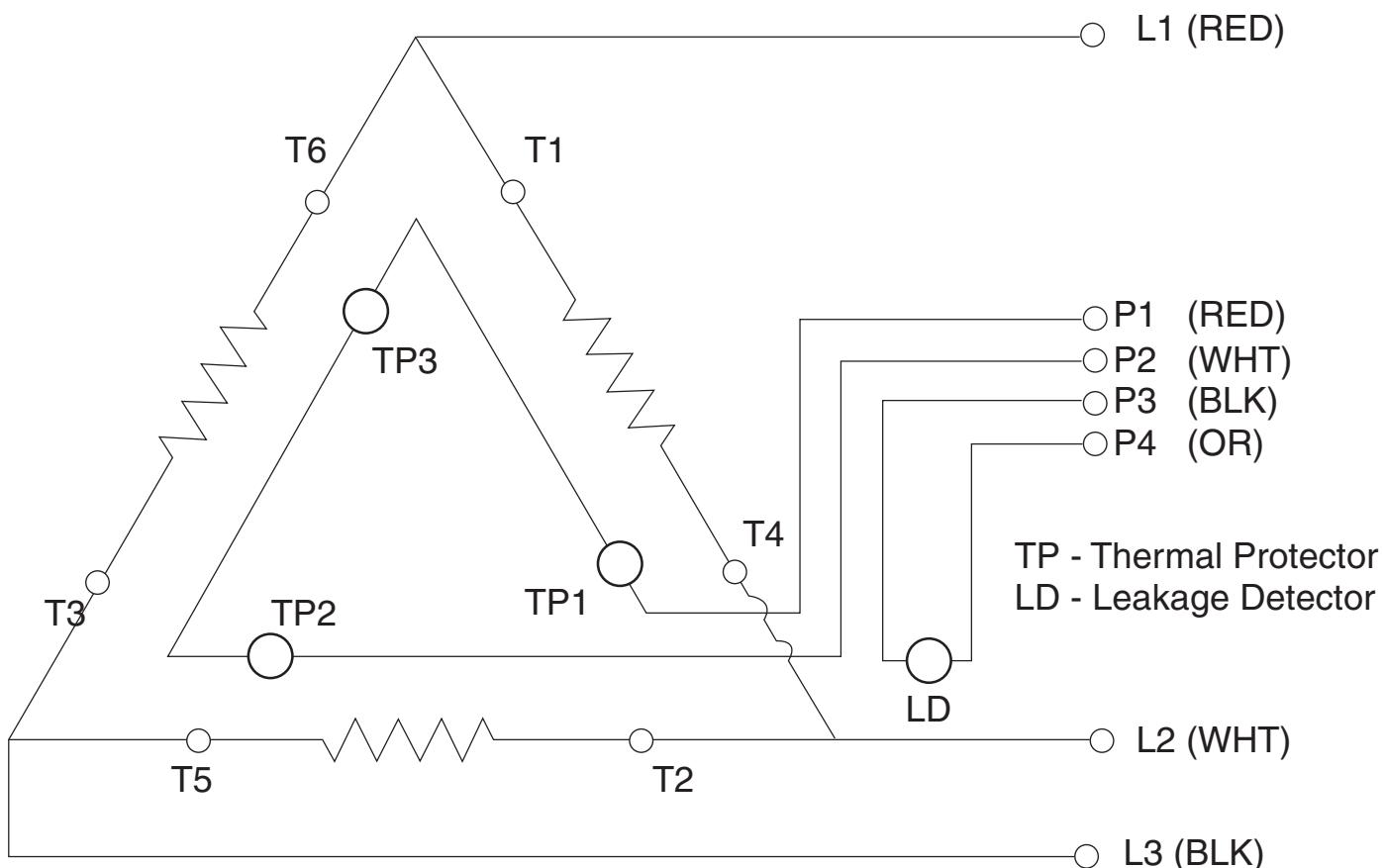
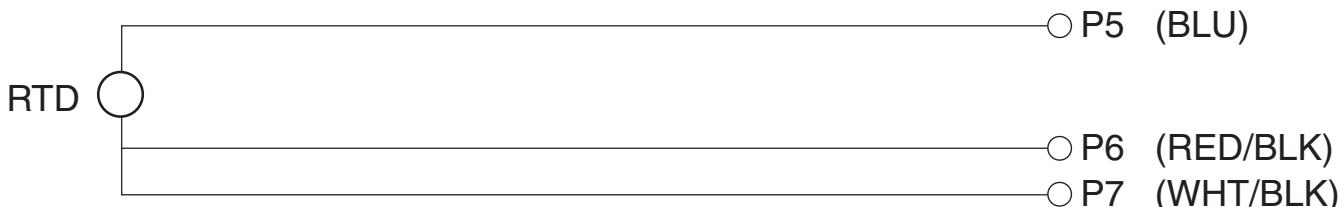
**Wiring Diagram**

Project:

Model:

Chk'd:

Date:

**Single Power Cable (50HP-175HP models)****OPTION:**

RTD - Resistance Temperature Detector

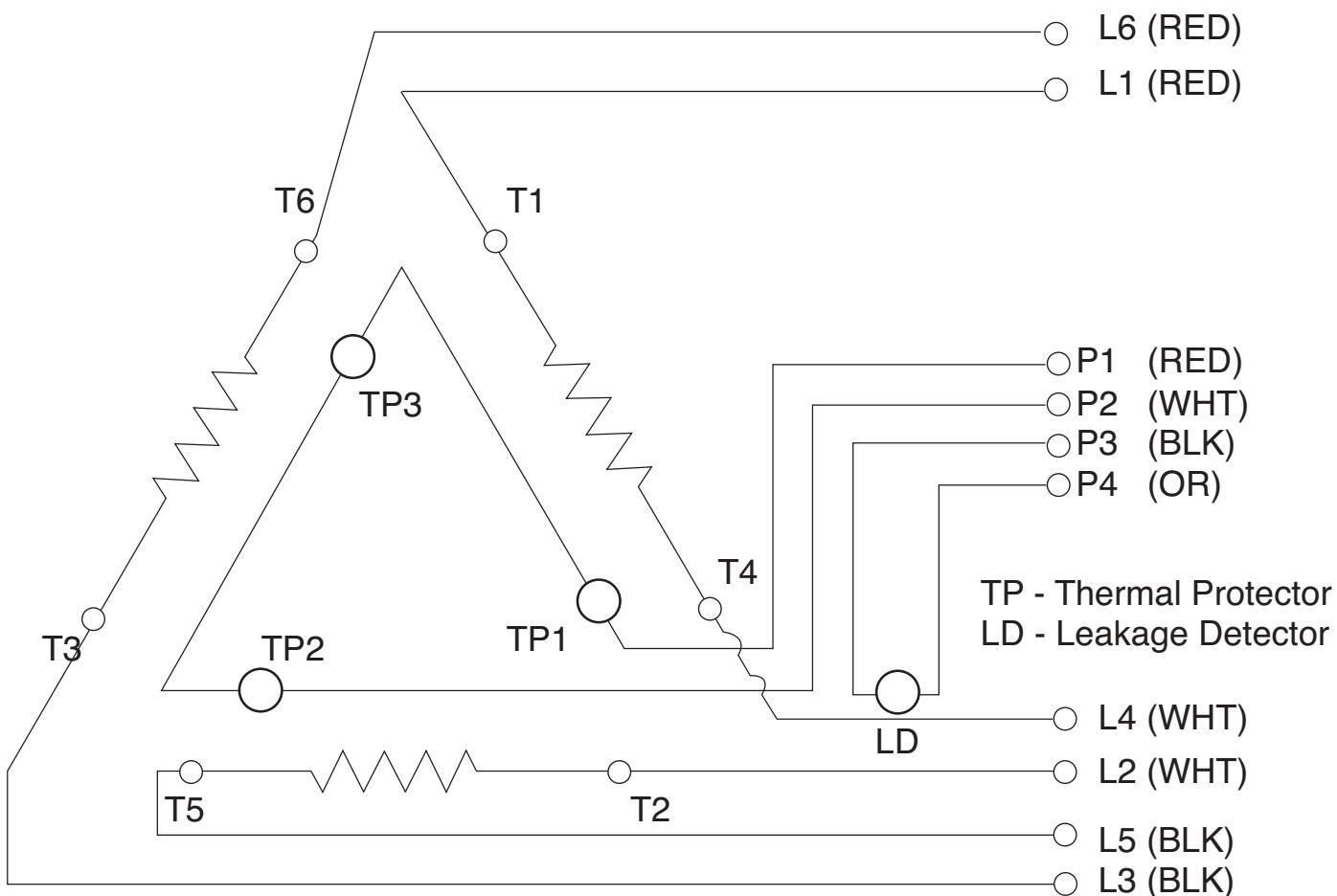
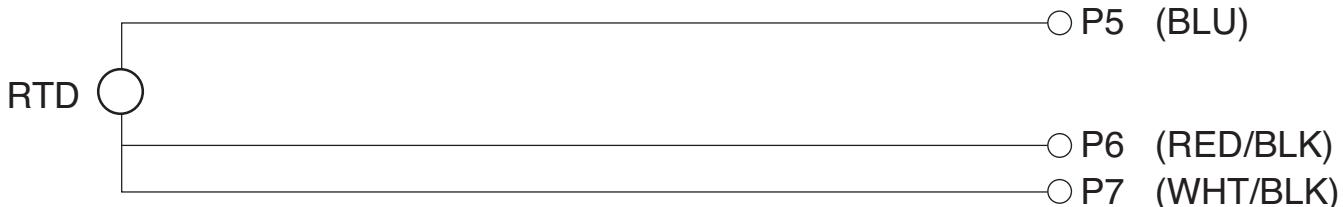
**Wiring Diagram**

Project:

Model:

Chk'd:

Date:

**Dual Power Cable (200HP-245HP models)****OPTION:**

RTD - Resistance Temperature Detector



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**Technical Data - DSC4**

Project:

Model:

Chk'd:

Date:

**Mechanical Seal**

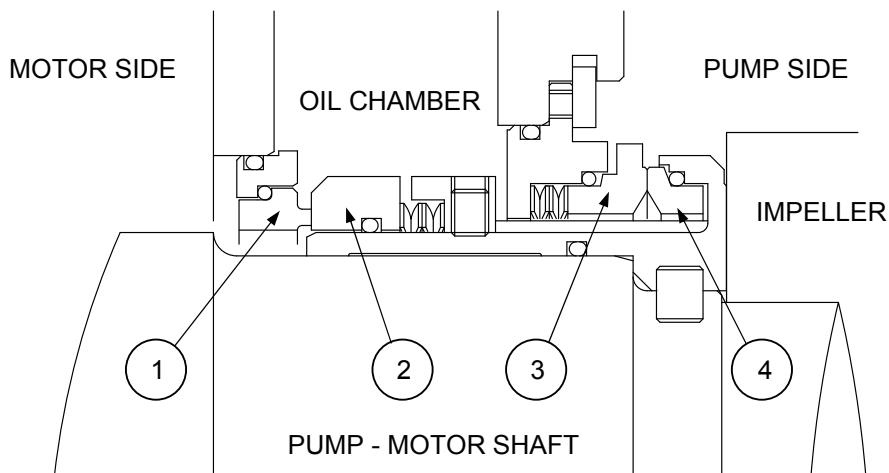
Ebara DSC4 pumps employ **cartridge type, duplex mechanical seals in tandem arrangement**.

Cartridge type mechanical seal provide:

- Easy maintenance because it is handled as one unit
- High reliability due to assembly and adjustment separate from the bowl unit

Duplex mechanical seals in tandem arrangement provide:

- High reliability because of dual seals construction
- Long life operation with oil lubrication



| Part No. | Part Name               | Material                |
|----------|-------------------------|-------------------------|
| 1        | STATIONARY RING (UPPER) | CARBON                  |
| 2        | SEAL RING (UPPER)       | CERAMIC+STAINLESS STEEL |
| 3        | STATIONARY RING(LOWER)  | SILICON CARBIDE         |
| 4        | SEAL RING (LOWER)       | SILICON CARBIDE         |

**Technical Data - DSC4C**

Project:

Model:

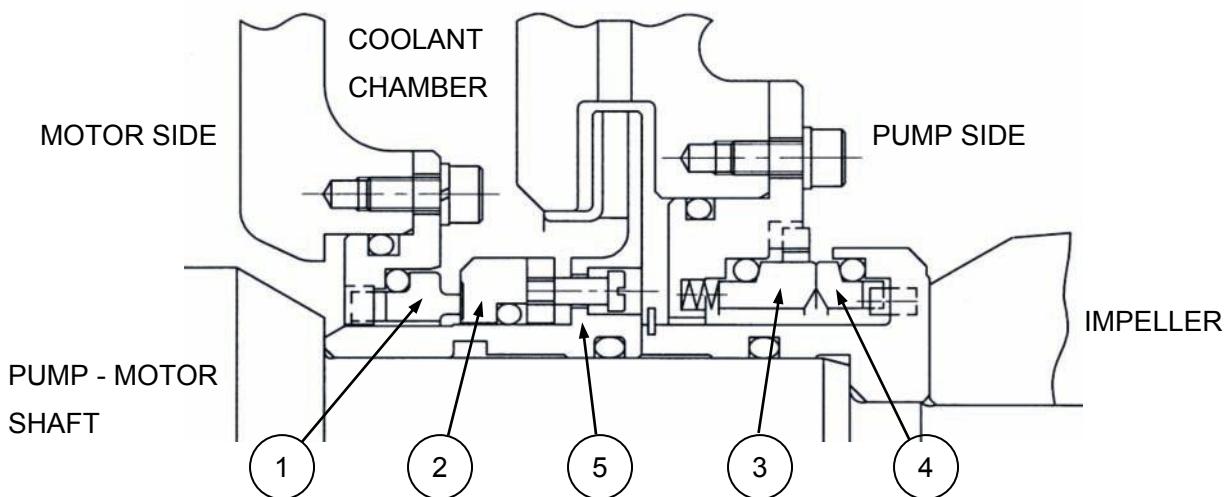
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Date:

**Mechanical Seal - ICS Option**

Ebara DSC4C pump employs the **duplex mechanical seals in tandem arrangement between which an impeller for circulating coolant is located.**

The seals prevent pumped liquid leakage to the coolant chamber and coolant leakage to the motor side, providing long-life operation with lubrication by propylene glycol in coolant.



| NO. | DESCRIPTION             | MATERIAL                |
|-----|-------------------------|-------------------------|
| 1   | STATIONARY RING (UPPER) | CARBON                  |
| 2   | SEAL RING (UPPER)       | CERAMIC+STAINLESS STEEL |
| 3   | STATIONARY RING (LOWER) | SILICON CARBIDE         |
| 4   | SEAL RING (LOWER)       | SILICON CARBIDE         |
| 5   | IMPELLER FOR COOLANT    | STAINLESS STEEL CASTING |

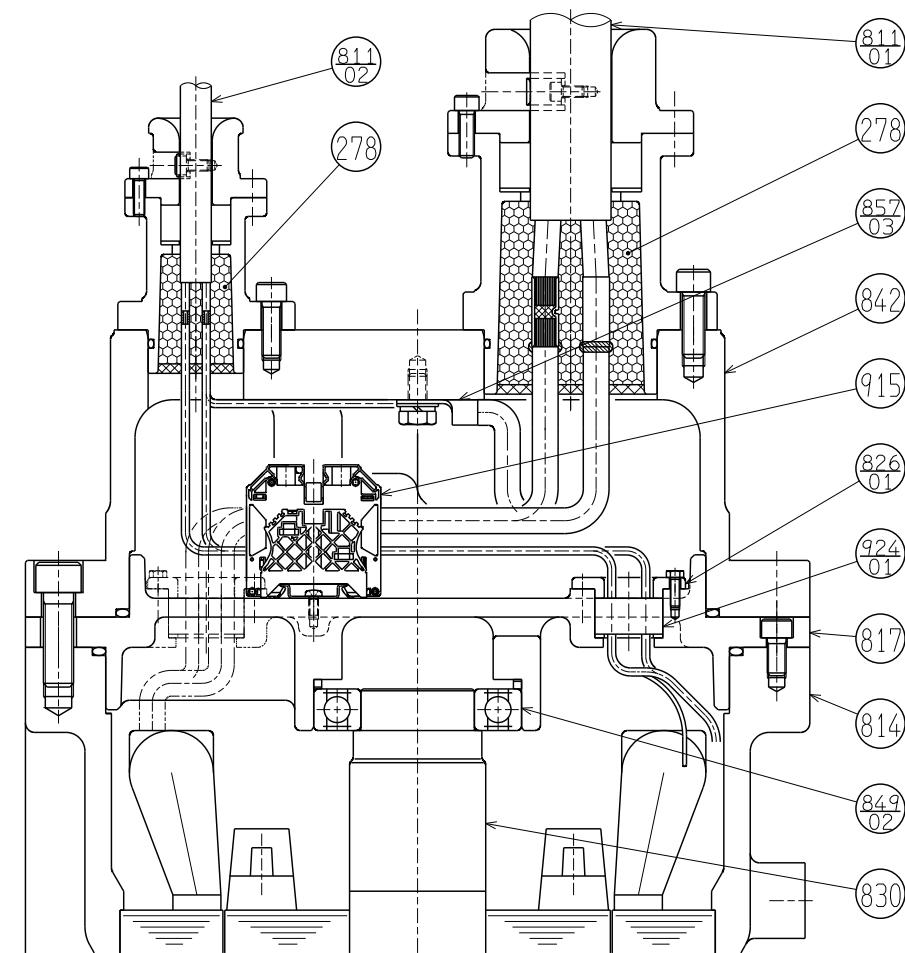
**Technical Data**

Project:

Model:

Chk'd:

Date:

**Cable Entry – Sectional View**

| Part No. | Part Name             | Material  | No. for 1 Unit |
|----------|-----------------------|---|----------------|
| 278      | Sealing Compound      | Epoxy Resin   | -              |
| 811-01   | Line Cord             | Type W 50 -175HP<br>200 - 245HP                                       | 1<br>2         |
| 811-02   | Control Cord          | Type SOOW   | 1              |
| 814      | Frame                 | Cast Iron   | 1              |
| 817      | Opposite Side Bracket | Cast Iron   | 1              |
| 826-01   | Gland                 | Cast Iron   | 1              |
| 830      | Shaft                 | 420 SS (4P/6P 50-145HP)<br>403Q SS (4P/6P/8P 175-245HP, 10P 50-145HP) | 1              |
| 842      | Motor Cover           | Cast Iron   | 1              |
| 849-02   | Ball Bearing          | -   | 1              |
| 857-03   | Ground Terminal       | Copper  | -              |
| 915      | Terminal Board Assy.  | -   | 1              |
| 924-01   | Packing               | NBR   | 1              |

**Technical Data**

Project:

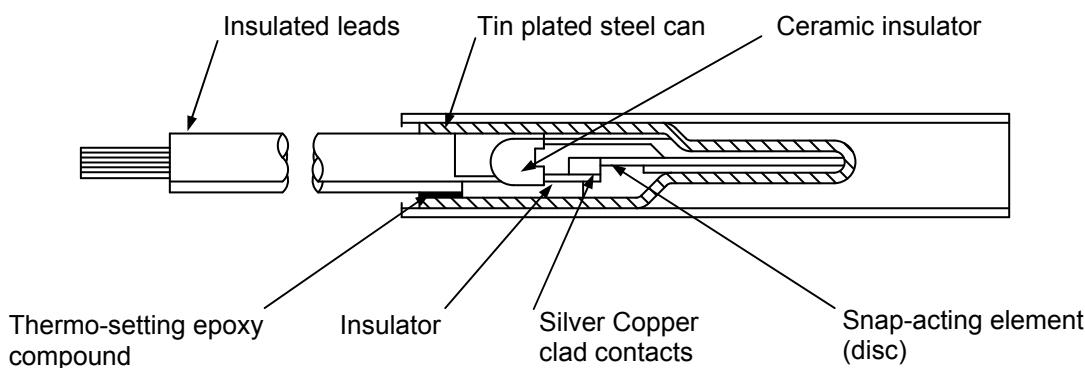
Model:

Chk'd:

Date:

**2. THERMAL DETECTOR FOR MOTOR WINDING**

The motor shall be equipped with a Miniature Thermal Protector (MTP). This MTP is embedded in the windings and will act to protect the motor from over-heating. If the motor winding temperature reaches the MTP acting point it will activate and open the circuit.

**Switch Rating**

CONTACT RATING : AC115V 18A / AC230C 13A

CONTACT TYPE : B – CONTACT (NORMALLY CLOSED)

OPEN TEMP. : 140±5° C ( 284 ± 9° F )

**Fig.6-2 THERMAL DETECTOR FOR MOTOR WINDING****CHARACTERISTICS**

The circuit is normally closed.

The disc is operated both by the current passing through it and by heat received from the windings.

When the temperature of the disc reaches a predetermined point corresponding to the maximum allowable temperature of winding, the disc snaps open to interrupt the circuit.

When the winding temperature returns to the safe operation range, the circuit is restored automatically.



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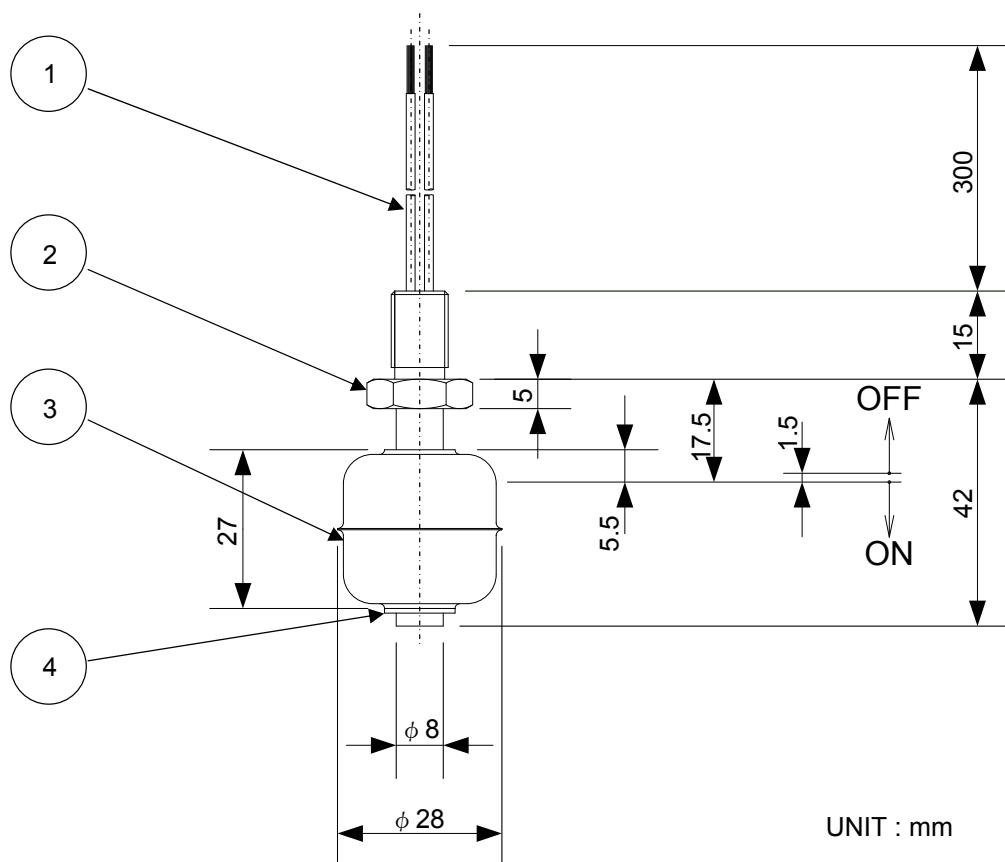
Model:

Chk'd:

Date:

**3. LEAKAGE DETECTOR**

A built-in float type leakage detector is fitted to sense leaking of pumping water and/or seal oil into the motor as a result of failure of the mechanical seal.

**Switch Rating**

**CONTACT RATING :** Breaking capacity : AC50VA/DC50W  
 Max. breaking current : AC0.5A/DC0.5A  
 Max. operating voltage : AC300V/DC300V  
**CONTACT TYPE :** B-CONTACT (NORMALLY CLOSED)

| Part No. | Part Name | Material                                  | Qty/Set |
|----------|-----------|---|---------|
| 1        | LEAD WIRE | Heatproof Polyvinyl Chloride Wire (0.3mm) | 2       |
| 2        | HOUSING   | 316 Stainless Steel                       | 1       |
| 3        | FLOAT     | 316 Stainless Steel                       | 1       |
| 4        | STOPPER   | 316 Stainless Steel                       | 1       |

**Technical Data**

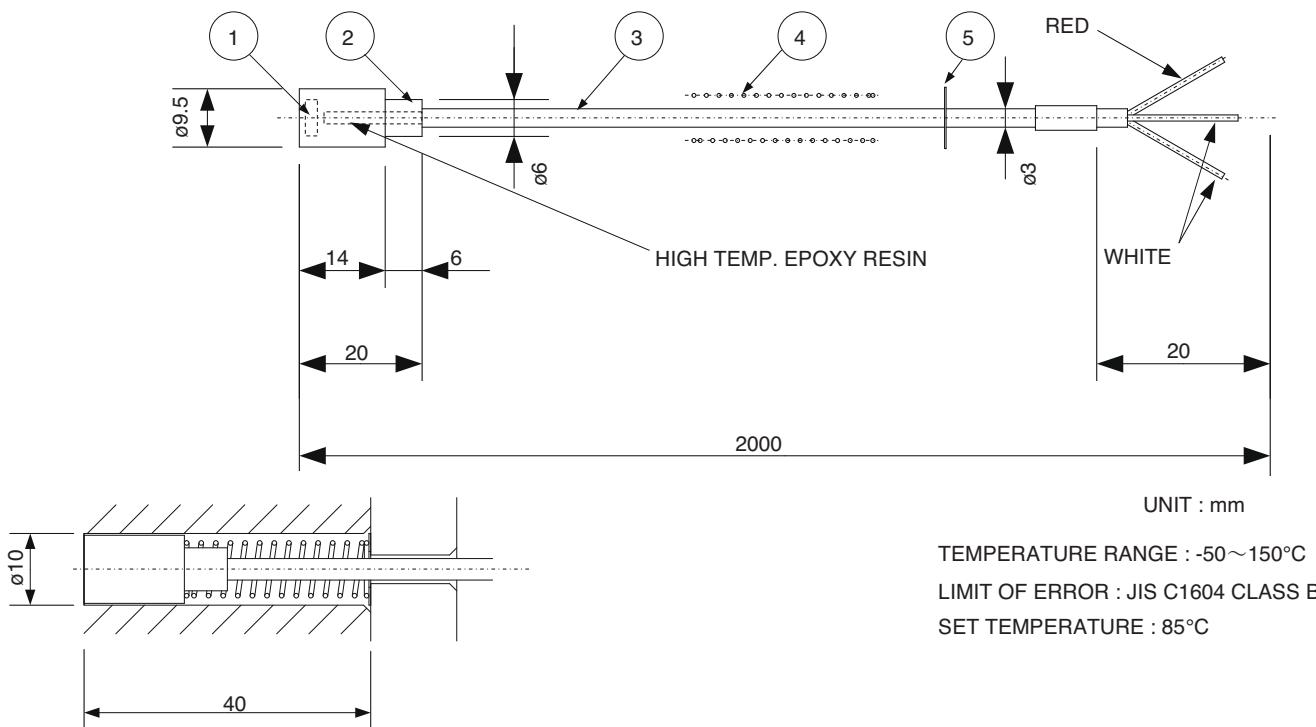
Project:

Model:

Chk'd:

Date:

## 4. THERMAL DETECTOR FOR THRUST BEARING (OPTION)



ASSEMBLY OF BEARING TEMP. DETECTOR

Fig. 6-4 THERMAL DETECTOR FOR THRUST BEARING

| Part No. | Part Name                | Material        | Qty | Remarks                |
|----------|--------------------------|-----------------|-----|------------------------|
| 1        | Resistance Bulb          | -               | 1   | Pt100Ω at 0°C 3W 5mA   |
| 2        | Cap                      | Stainless Steel | 1   |                        |
| 3        | Lead Wire                | -               | 1   | 7/Ø 0.16 Teflon-Teflon |
| 4        | Spring                   | Stainless Steel | 1   |                        |
| 5        | Self Lock Retaining Ring | Spring Steel    | 1   |                        |

**Technical Data**

Project:

Model:

Chk'd:

Date:

**7. LUBRICATION**

|           |       | <b>Lower Bearing</b> | <b>Upper Bearing</b> | <b>Shaft Seal</b>  |
|-----------|-------|----------------------|----------------------|--------------------|
| Lubricant |       | GREASE               |                      |                    |
| Standard  |       | NLGI grade 3         |                      |                    |
| MFG.      | EXXON | UNIREX N3            | -                    | TERESSO 32         |
|           | MOBIL | MOBILITH AW3         | POLYREX EM           | DTE OIL, OIL LIGHT |

Note : Other lubricants may be used where the oil is not allowed to use.

**8. SHOP PAINTING**

| Coating spec. No.              | I                                       | II                   |
|--------------------------------|---|----------------------|
| Preparation                    | SSPC – SP - 10                          | SSPC – SP - 3        |
| Materials & coating nos.       | Zinc rich primer x 1<br>Epoxy paint x 2 | Zinc rich primer x 1 |
| Color                          | Black                                   | Gray                 |
| Total dry film thickness (μ m) | 140                                     | 10                   |

Spec. No.I : Surfaces contacting pumping liquid

Spec. No.II : Internal surface of motor

Note : Non ferrous material and stainless steel are not painted.



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**Technical Data**

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**1. PUMP RATED CAPACITY AND TOTAL HEAD**

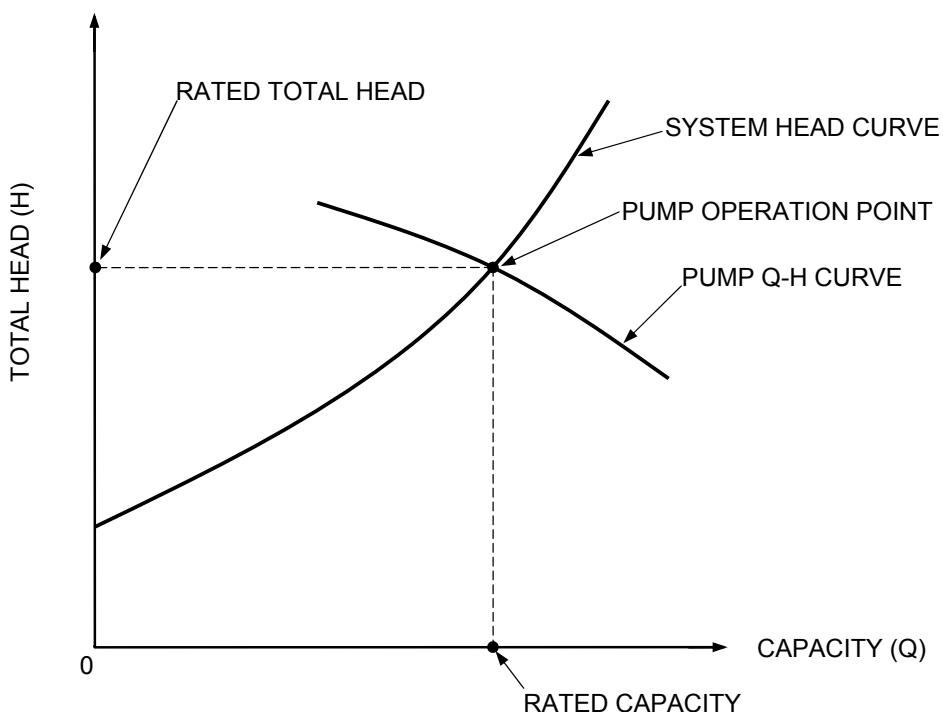
Pumping requirements in the system are stated as **Rated Capacity** and **Rated Total Head**.

Rated capacity is the flow rate determined by the total design capacity of the pumping station and the number of operating pumps.

$$\text{Rated Capacity} = \frac{\text{Total design capacity of pumping station}}{\text{Number of operating pumps}}$$

**Rated Total Head** = System head at the rated capacity.

The pump is operated at the cross point of the pump Q-H (capacity-head) curve and the **System Head Curve** as shown in Fig. 1-1. The head at the cross point is defined as the rated total head of pump.



**Fig. 1-1 PUMP OPERATION POINT**

**Technical Data**

Project:

Model:

Chk'd:

Date:

**2. SYSTEM HEAD**

System head of the system is the sum of the **Static Head** and the **Dynamic Head**, and its curve is a quadratic curve of the flow rate as shown in Fig. 1-2.

$$\text{System Head} = \text{Static head (Ha)} + \text{Dynamic Head (Hd)}$$

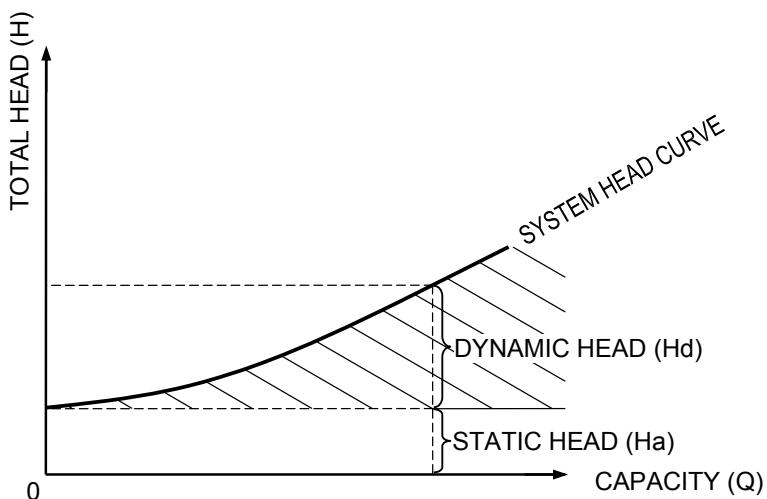


Fig. 1-2 SYSTEM HEAD CURVE

**Technical Data**

Project:

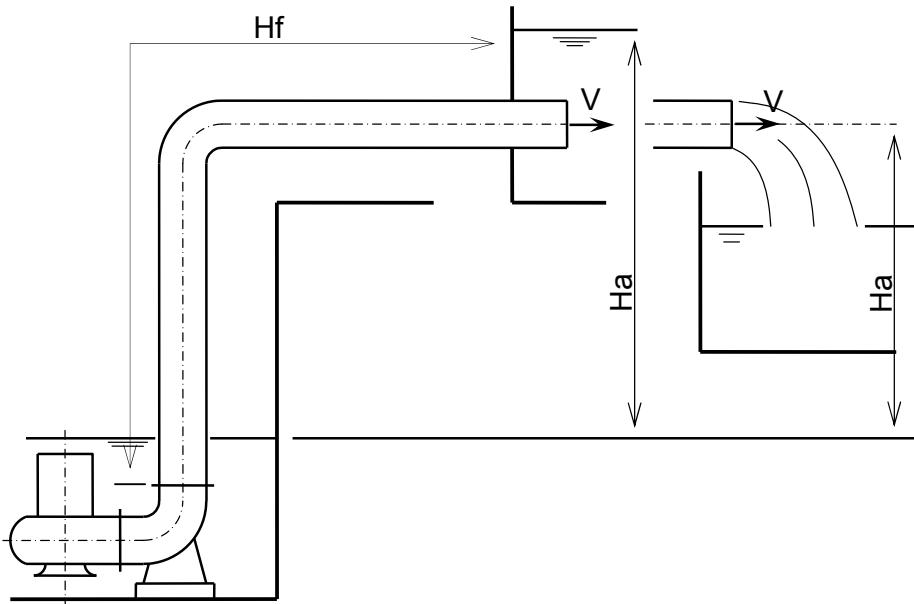
Model:

Chk'd:

Date:

**Static Head (Ha)**

Static head arises from the difference between the pump suction pit water level and the discharge water level.

**Fig. 1-3-1 STATIC HEAD****Dynamic Head (Hd) – Wet Pit**

Dynamic head for Fig. 1-3-1 is as follows:

$$Hd = Hf + \frac{V^2}{2g}$$

Where,  $Hf$  : Hydraulic loss from the discharge of the QDC to the system discharge end

$\frac{V^2}{2g}$  : Velocity head at the system discharge end



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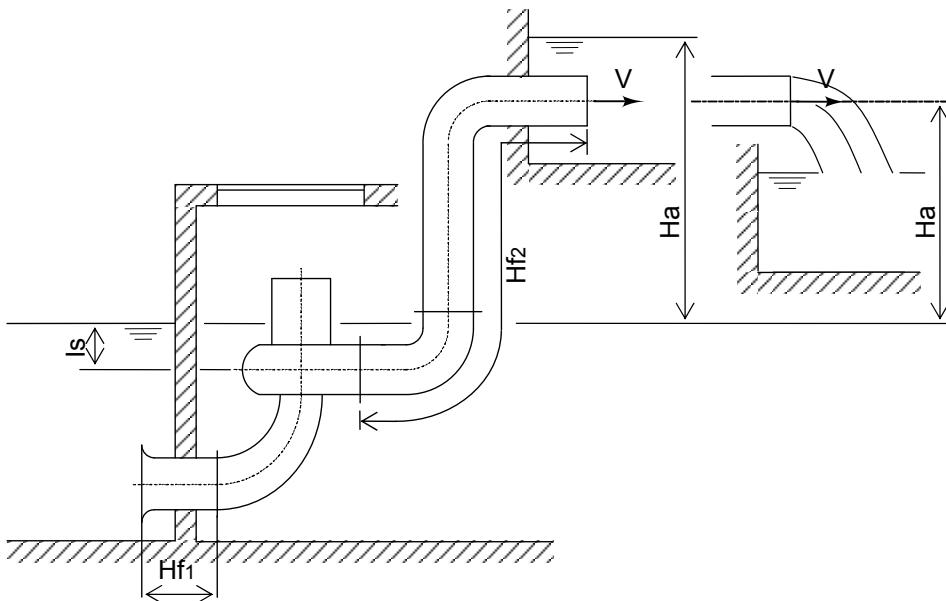
**Technical Data**

Project:

Model:

Chk'd:

Date:

**Fig. 1-3-2 STATIC HEAD****Dynamic Head (Hd) – Dry Pit**

Dynamic head for Fig. 1-3-2 is as follows:

$$Hd = Hf + \frac{V^2}{2g}$$

Where,  $Hf$  : Hydraulic losses of piping ( $Hf = Hf_1 + Hf_2$ ) $\frac{V^2}{2g}$  : Velocity head at the system discharge end

**Pump Total Head (Ht)** The pump total head is a sum of the static head and the dynamic head. The pump total head may be obtained from the following equation:

$$\text{Pump Total Head (Ht)} = \text{Static Head} + \text{Dynamic Head} = (Ha + Hd)$$

Where,  $Ha$  : Static Head  
 $Hd$  : Dynamic Head



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**Technical Data**

Project:

Model:

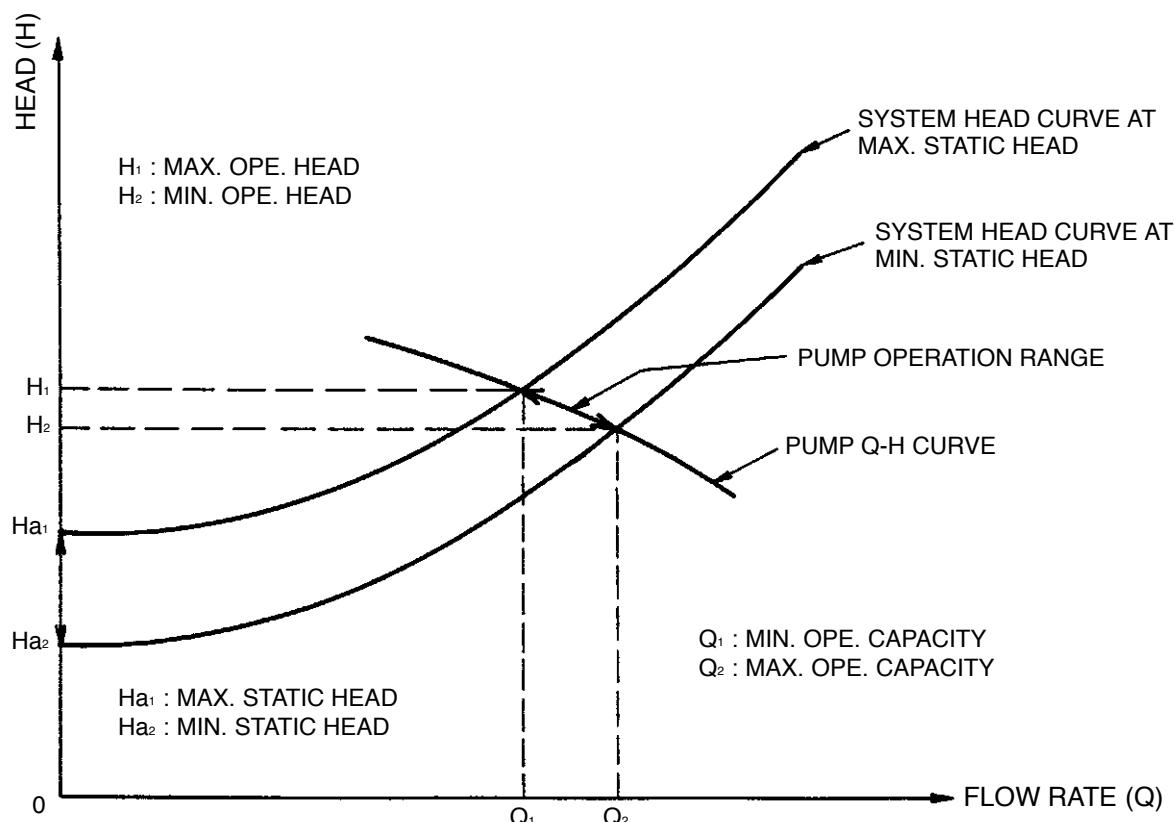
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**3. PUMP OPERATION RANGE**

As stated in paragraph 1, the pump is operated at the cross point of its Q-H curve and the system head curve. Therefore, so long as the system head curve is not changed, the pump is operated at a design point. In an actual pumping system, however, the static head varies depending on the suction and/or discharge water level. As a result, the system head curve shifts as shown in Fig. 1-4.

With this shift in the system head curve, the cross point with pump Q-H varies, and this variation is termed as the **Pump Operation Range**.

**Fig. 1-4 PUMP OPERATION RANGE**

**Technical Data**

Project:

Model:

Chk'd:

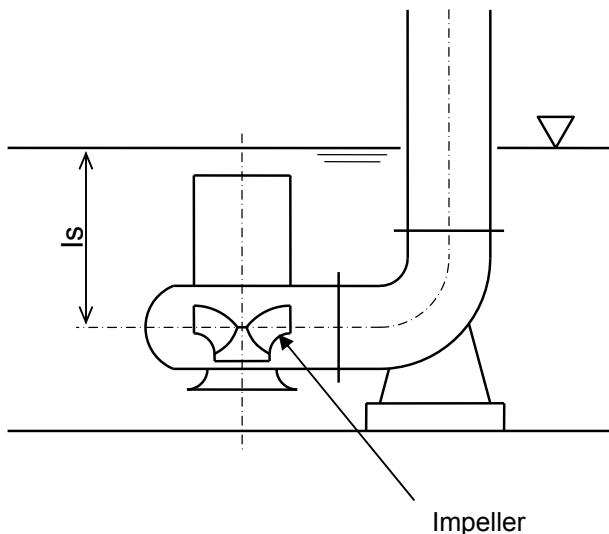
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**4. NPSH**

Adequate suction pressure at the impeller inlet is necessary for the pump to perform as designed. This suction pressure (absolute) converted into water head is called **NPSH req.** and is shown on the pump performance curve as one of the pump characteristics.

On the other hand, actual suction pressure (absolute) converted into water head is called **NPSH av.** and is defined as shown in Fig. 1-5.

**NPSH req. shall not exceed NPSH av. in the continuous operation range.**



NPSH available (m)

$$\text{NPSH av.} = Is + Pa - Pv$$

Where,

Is: Submergence of impeller (m)

Pa: Atmospheric pressure (m)  
under 1 atm,  $Pa = 10.3\text{m}$

Pv: Vapour pressure (m)  
water at 20c,  $Pv = 0.24\text{ (m)}$

Fig. 1-5 NPSH av.

**Technical Data**

Project:

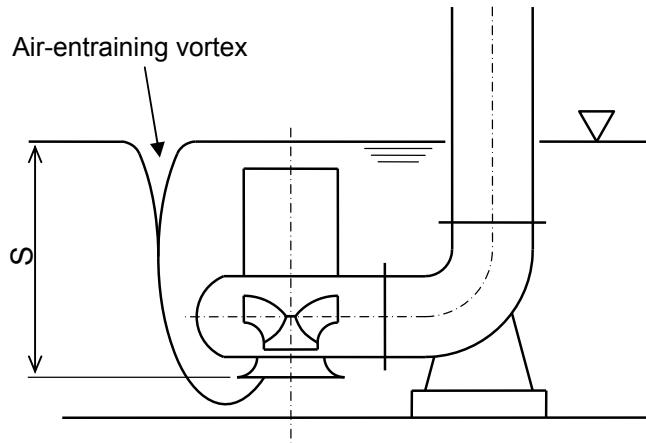
Model:

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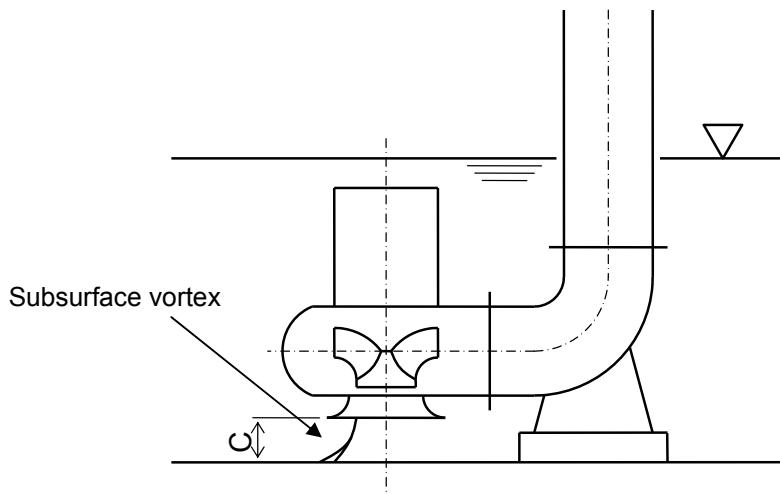
Date:

**5. AIR-ENTRAINING VORTEX**

Lack of enough submergence causes the generation of harmful air-entraining vortices as shown in Fig. 1-6. The submergence at which generation of vortices can be avoided is termed as the **Minimum Submergence (S)**.

**Fig. 1-6 AIR-ENTRAINING VORTEX****6. SUBSURFACE VORTEX**

In cases where the clearance between pump and bottom of the pit is not adequate, harmful subsurface vortices generates as shown in Fig.1-7.

**Fig. 1-7 SUBSURFACE VORTICES**

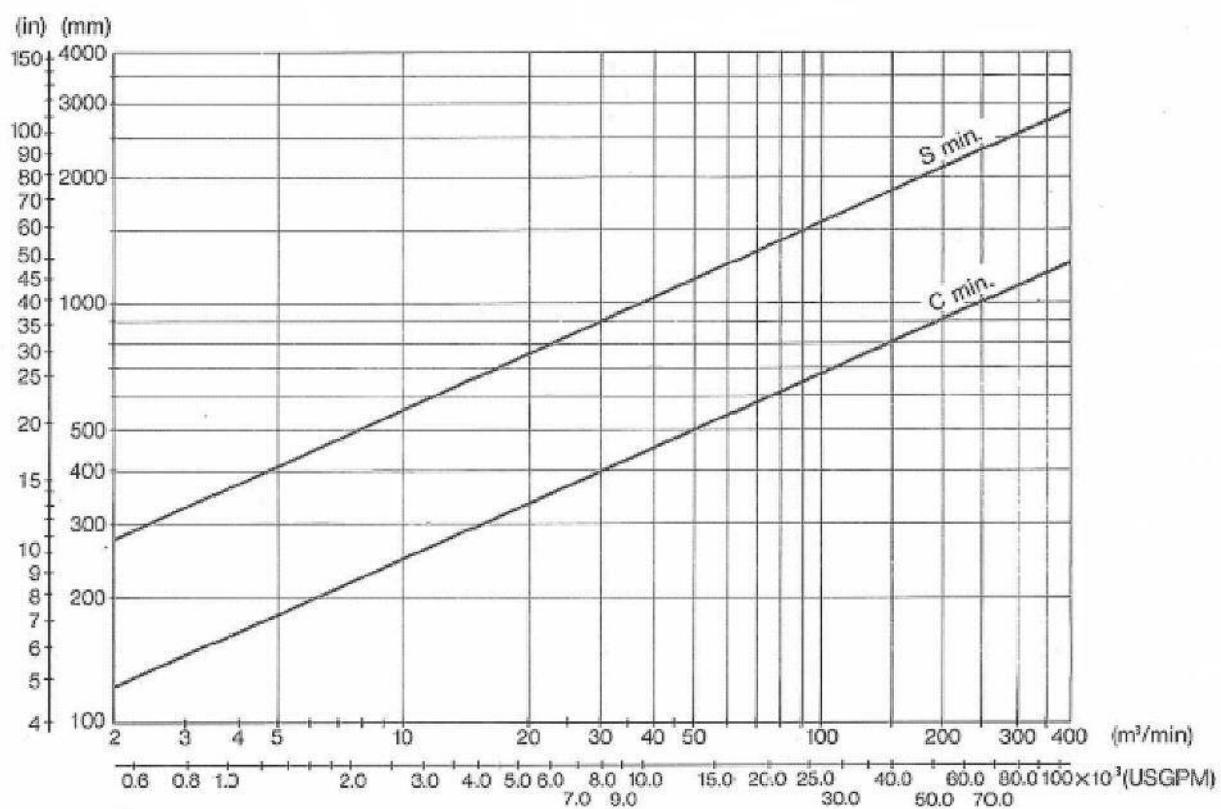
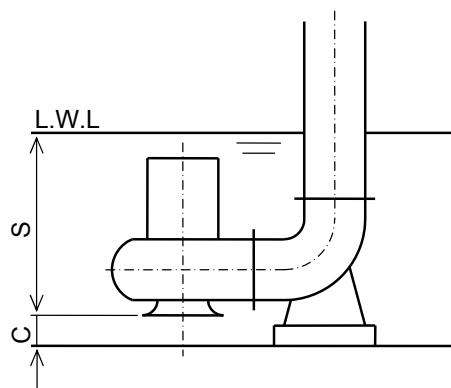
**Technical Data**

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**7. SUBMERGENCE AND CLEARANCE****Fig. 1-8 SUBMERGENCE AND CLEARANCE**

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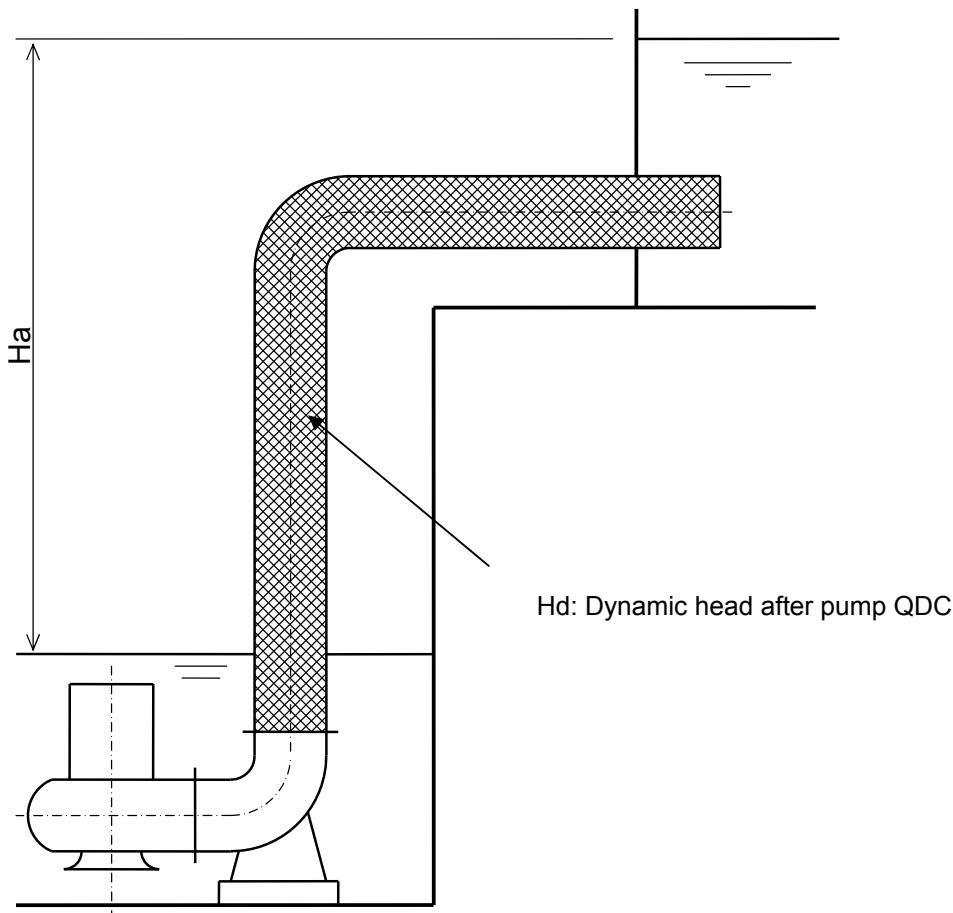
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**8. PUMP SELECTION**

In this paragraph, a sample selection of the DSC4 pump is demonstrated by using a simple wet pit case.

| Conditions | Rated capacity: 4500 GPM |
|------------|--------------------------|
| Ha:        | 70 ft                    |
| Hd:        | 15 ft                    |

**Fig.3-2 Dynamic Head****Step 1: Selection of pump model**

Assuming a sum of  $Ha$  and  $Hd$  as pump total head, select pump from **DSC4 FAMILY CURVES**. In this case, the assumed total head is 85 ft, and EO-66145 is selected from family curves.



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**Step 2: Check Items on the Selected Pump**

Check the selected pump for the following items:

**- Pump continuous operation range**

Confirm that the pump continuous operation range based on the system head variation is within the continuous operable range of the performance curve.

**- NPSH**

NPSH req. shall not exceed NPSH av. in the continuous pump operation range.

**- Motor rating**

Pump power input shall not exceed motor rating in the pump operation range.

**- Starting method and cable size**

Check starting method and cable size with Part 5. ELECTRICAL DATA.



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