ACCESSORIES:
Adapter / Check Valve

IC series’ strainer and base can be removed and equipped with Adapter or Check Valve instead. And thus IC Series can be installed on land.

**PRODUCT FEATURES**

- **Epoxy Cable Base**
  An epoxy resin seal cable base prevents moisture from entering the motor through the core wires.

- **Auto-cut**
  Automatic On/Off motor protector to prevent motor burn out due to high temperature and excess amperage draw. (There’s no autocut for Pump above L-200A.)

- **High Efficiency Dry Motors**
  All stator coils need to be treated with insulating varnish procedure to achieve the best insulation, efficiency and durability.

- **Food Grade Lubricant**
  High level of medical & food grade white mineral oil, it’s harmless to creatures and environment. It’s harmless to plant for agriculture and fish/shrimp for aquaculture. Meanwhile, it can meet the demand of high quality safety purpose.

- **Double Mechanical Seals**
  Double mechanical seal with two waterproof sliding surface and provide best seal effect. Silicon carbide / Silicon carbide which is abrasion resistance and could be operation for long-term (It’s optional from L-200A to L-1220).

- **Adapter / Check Valve**
  Adapter / Check Valve

- **Adapter ADT**
  Check Valve CHV

- **An epoxy resin seal cable base prevents moisture from entering the motor through the core wires.**

- **Automatic On/Off motor protector to prevent motor burn out due to high temperature and excess amperage draw. (There’s no autocut for Pump above L-200A.)**

- **All stator coils need to be treated with insulating varnish procedure to achieve the best insulation, efficiency and durability.**

- **Double mechanical seal with two waterproof sliding surface and provide best seal effect. Silicon carbide / Silicon carbide which is abrasion resistance and could be zero operation for long-term (It’s optional from L-200A to L-1220).**

- **High level of medical & food grade white mineral oil, it’s harmless to creatures and environment. It’s harmless to plant for agriculture and fish/shrimp for aquaculture. Meanwhile, it can meet the demand of high quality safety purpose.**

- **All stator coils need to be treated with insulating varnish procedure to achieve the best insulation, efficiency and durability.**

- **Double mechanical seal with two waterproof sliding surface and provide best seal effect. Silicon carbide / Silicon carbide which is abrasion resistance and could be operation for long-term (It’s optional from L-200A to L-1220).**

- **An epoxy resin seal cable base prevents moisture from entering the motor through the core wires.**

- **Automatic On/Off motor protector to prevent motor burn out due to high temperature and excess amperage draw. (There’s no autocut for Pump above L-200A.)**

- **All stator coils need to be treated with insulating varnish procedure to achieve the best insulation, efficiency and durability.**

- **Double mechanical seal with two waterproof sliding surface and provide best seal effect. Silicon carbide / Silicon carbide which is abrasion resistance and could be operation for long-term (It’s optional from L-200A to L-1220).**

- **High level of medical & food grade white mineral oil, it’s harmless to creatures and environment. It’s harmless to plant for agriculture and fish/shrimp for aquaculture. Meanwhile, it can meet the demand of high quality safety purpose.**

- **All stator coils need to be treated with insulating varnish procedure to achieve the best insulation, efficiency and durability.**

- **Double mechanical seal with two waterproof sliding surface and provide best seal effect. Silicon carbide / Silicon carbide which is abrasion resistance and could be operation for long-term (It’s optional from L-200A to L-1220).**
FEATURE
- The internal casting is treated with High solids Epoxy coating, which can improve the anti-corrosion and extend the product lifetime.
- Standard design, incorporating a dry motor with thermal auto-cut that prevents the motor from over heating.
- Equipped with a cast iron motor frame for a faster heat dissipation. As well as an abrasion resistant double mechanical seal and an additional oil seal.
- Water cooled motor to ensure a long life in continuous and intermittent operation, with high efficiency and energy savings.
- An exceptional High-lift and suction impeller design, which allows for dewatering of underground reservoirs.
- Water cooled motor to ensure a long life in continuous and intermittent operation, with high efficiency and energy savings.
- New casing cover, with metric thread bolt hole that is easier for valve and adapter connection.
- The chrome steel impeller has been adopted for IC-32B~610, with hardness of HRC 25~30; better anti-corrosion, and extended product lifetime.
- IC-48~610: High solids Epoxy coating prolong metals from corrosion and oxidization.

APPLICATIONS
- Aquiculture water supply and drainage.
- Water supply for agricultural irrigation systems and underground water pumping.
- Landscape, water feature and horticulture irrigation.
- Extraction of water from rivers, lakes and reservoirs.
- Tropical and irrigation systems and underground water pumping.
- High solids Epoxy coating prolong metals from corrosion and oxidization.

PRODUCT NOMENCLATURE
- IC-215
- IC-32B~45B
- IC(W–Well Type)
- IC-48~610

APPLICATIONS
- Agriculture irrigation Circulating water Dewatering
- Water supply for agricultural irrigation
- Circulating water of swimming pool
- Dewatering of underground reservoirs.

PERFORMANCE CURVES
- PERFORMANCE SPEC.

SPECIFICATIONS
- Level of Use
  - Applications
    - Agriculture irrigation
    - Circulating water
    - Dewatering
  - Type
    - Frequency 50Hz
    - Motor 2P (3000rpm)  4P Dry Motor
    - Insulation Class B (1.5~3HP)  Class F (5~10HP)
    - Protection IP68
    - Bearing Bell type
    - M.seal Double M.seals
    - Impeller Enclosed-channel
  - Material
    - Outer Cover SUS304
    - Upper Cover FC200
    - Motor Frame SUS304/L(3HP)  FC-200(2~10HP)
    - Shaft End SUS403 (1.5~3HP)  SUS304 (5~10HP)
    - M.seal CA/CE & SC/CSC
    - Casing IC(W–IC-32B~3-IC-610)
    - Impeller BC (IC-215)  Chrome Steel (IC-32B~610)
    - Cable VCT or H07RN-F or SJOW/SOW
  - Optional Pumps can be customized to fit specifications

PERFORMANCE SPEC.
- Model Output HP(W) Discharge (inch/mm) Head Start m Head m Capacity m³/h 100% full stroke 0% full stroke Weight kg Dimension mm
- IC-215 1.5 (1.1) 3" (75) 13.5 0.2 12 3 5 28 24 210 442 423 413 572
- IC-32B 2 (1.5) 3" (75) 14 0.5 30 10 40 36 385 546 527 483
- IC-33B 2.5 (2.0) 3" (75) 14 0.5 30 10 45 39 235 516 503 466
- IC-45B 3 (2.5) 3" (75) 25 0.8 48 10 45 39 235 516 503 466
- IC-43B 3 (2.5) 3" (75) 28 0.8 48 10 45 39 235 516 503 466
- IC-45B 3 (2.5) 3" (75) 25 0.8 48 10 45 39 235 516 503 466
- IC-48 5 (5.5) 4" (100) 17 1.0 60 10 - 75 286 550 610
- IC-68 7.5 (5.5) 4" (100) 17 1.0 60 10 - 78 286 550 610
- IC-48 5 (5.5) 4" (100) 17 1.0 60 10 - 75 286 550 610
- IC-68 7.5 (5.5) 4" (100) 17 1.0 60 10 - 78 286 550 610
- IC-110 10 (7.5) 4" (100) 17 1.5 90 10 - 80 286 550 610
- IC-610 10 (7.5) 4" (100) 17 1.5 90 10 - 81 286 550 610

Note: Weight Without Cable & Outlet [3/4” (20mm) optional by request]
NOMENCLATURE

**APPLICATIONS**
- Aquiculturist water pumping and drainage, for large volume water applications.
- Water supply for landscape, water features, cooling in the power plant or drainage for industry.
- Water extraction from rivers, lakes and reservoirs.
- Flood control or used for large volume dewatering.
- Otheters: Extraction of water from dock and river.

FEATURE
- Large flow capacities achieved with almost no vibration, or noise, by use of the axial and mix flow design.
- HIGH-QUALITY BRONZE: Widely acclaimed for its ability to withstand corrosion, even to the erosion of sea water and brine and is proved to be able to substantially extend time to service, used on the Upper Cover, Bearing Bracket, & M. Seal Bracket of our pumps. (L-200A/250A/300A only)
- POWER-SAVING & HIGH-EFFICIENCY ALBC3 (Aluminum Bronze) IMPELLER: Utilizes wear-resistant and anti-corrosion ALBC3 (Aluminum Bronze) Impeller, the same material as the propellers of boats and vessels.
- Robust construction and compact design with a dry motor, double mechanical seals and impeller flow guide vane for high efficiency.
- Pump manufactured with heavy duty housing, cable leads are isolated by hardened epoxy for waterproofing, and double mechanical seals.
- High solids, epoxy coating prolongs metals from corrosion and oxidization.
- SACRIFICIAL ANODE: Sacrificial Anode are create from a metal alloy with a more negative electrochemical potential. Sacrificial Anode are highly active metals, that are used to prevent pump material surface from corroding.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Liquid Temp. Applications</td>
</tr>
<tr>
<td></td>
<td>Agriculture irrigation</td>
</tr>
<tr>
<td></td>
<td>Agriculture water/River water</td>
</tr>
<tr>
<td>Frequency</td>
<td>50Hz</td>
</tr>
<tr>
<td>Motor</td>
<td>3-phase (1500rpm:2~15HP) Dry Motor</td>
</tr>
<tr>
<td>Insulation (Class B)</td>
<td>2-phase (1000rpm:0.5~1HP) Dry Motor</td>
</tr>
<tr>
<td>Protection</td>
<td>IP68</td>
</tr>
<tr>
<td>Ball type</td>
<td>Double M.seals</td>
</tr>
<tr>
<td>Material</td>
<td>Axial-flow (0.5<del>15HP) Mix-flow (15</del>18HP)</td>
</tr>
<tr>
<td>Casing</td>
<td>CAICE &amp; SiC/CiC (0.5~3HP)</td>
</tr>
<tr>
<td>Shaft End</td>
<td>FC200 (0.5<del>3HP) • SUS304 (7.5</del>15HP)</td>
</tr>
<tr>
<td>Motor Frame</td>
<td>FC200 (0.5<del>3HP) • SUS304 (7.5</del>15HP)</td>
</tr>
<tr>
<td>Oil seal</td>
<td>BC6 (7.5~15HP)</td>
</tr>
<tr>
<td>Shaft End</td>
<td>SUS304</td>
</tr>
<tr>
<td>Casing</td>
<td>VCT or H07RNF or SOW/STOW</td>
</tr>
</tbody>
</table>

| Optional                      | Pumps can be customized to fit specifications     |

PERFORMANCE CURVES

![Performance Curves](image)

PERFORMANCE SPEC.

![Performance Spec.](image)

Note: Weight Without Cable, “3½” (90mm) optional by request.
OPTIONAL OUTLET SET

PRODUCT NOMENCLATURE

<table>
<thead>
<tr>
<th>Model</th>
<th>Standard Specifications</th>
<th>Threaded Outlet Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>L2F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Discharge (upper flange)</td>
<td>Discharge (lower flange)</td>
</tr>
<tr>
<td>LKF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Discharge (upper flange)</td>
<td>Discharge (lower flange)</td>
</tr>
<tr>
<td>LOF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCD</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Optional Outlet for IC-32B~45B

3” & 3½” 4”

Optional Outlet for IC-48~610

Thread Connection LOT Flange connection LKF Double Flange set LOF

PVC adapter (IP6) OF4(6): PCD.175*4 openings 6” connection outlet with 4” Flange

SACRIFICIAL ANODE PROTECTION SYSTEM

- Corrosion, the arch enemy for metals, especially when the metal is sunk in brine or sea water, could cause electrolysis and accelerate the corrosion.
- For better protection against brine-inflicted corrosion, we suggest application of Sacrificial Anode Plate to the pump. Sacrificial Anode Plate will release positive particles and turn the pump into negative. The positive Sacrificial Anode will dissolve slowly in sea water and release electrons which can prevent the oxidation of the pump until it is exhausted. During the process, Sacrificial Anode Plate will protect the pump and its components from corrosion for an extended period of time and prolong the pump's life expectancy. If the pump is intended to be operated in sea water for more than 4 hours a day, the use of Sacrificial Anode is strongly recommended as it can offer extra protection against the corrosion of sea water and effectively extend the life expectancy of the pump.
- Without Sacrificial Anode Plate, frame and cover were seriously eroded by sea water in just five months of use.
- HCP HIGH SOLIDS EPOXY COATING is a unique type of resin, harder, chemical-resistant paint, with superior water/vapor transmission rate. It features high density and high anti-corrosion capability and is particularly effective for iron and can be firmly attached to metals like iron and steel to form an anti-corrosion layer on their surface. Furthermore, it can penetrate and attach to the already-rusty surface of a metal. It has proven to be able to effectively prevent and protect metals from corrosion and oxidation.
- HCP HIGH SOLIDS EPOXY COATING is an ecological paint of very high solid content and very low content of solvent. Its dry film thickness can reach 10µm and above, compared to a regular paint whose dry film thickness is merely 30µm. The extraordinary toughness, anti-abrasion properties, plus excellent resistance to chemicals and sea water make it widely acclaimed and adopted as the best solution in the industry.
- HCP has been a pioneer in the pump industry as well as the first one to apply HIGH SOLIDS EPOXY COATING to our IC & L Type and pumps above 7.5HP. Such innovative improvement will offer extended protection for our pumps and prolong their life expectancy substantially.

HIGH SOLIDS EPOXY COATING

HCP HIGH SOLIDS EPOXY COATING is a unique type of resin, harder, chemical-resistant paint, with superior water/vapor transmission rate. It features high density and high anti-corrosion capability and is particularly effective for iron and can be firmly attached to metals like iron and steel to form an anti-corrosion layer on their surface. Furthermore, it can penetrate and attach to the already-rusty surface of a metal. It has proven to be able to effectively prevent and protect metals from corrosion and oxidation.

- The pump in sea water normally suffers from rapid corrosion which causes the damage to its components.
- For better protection against brine-inflicted corrosion, we suggest application of Sacrificial Anode Plate to the pump. Sacrificial Anode Plate will release positive particles and turn the pump into negative. The positive Sacrificial Anode will dissolve slowly in sea water and release electrons which can prevent the oxidation of the pump until it is exhausted. During the process, Sacrificial Anode Plate will protect the pump and its components from corrosion for an extended period of time and prolong the pump's life expectancy. If the pump is intended to be operated in sea water for more than 4 hours a day, the use of Sacrificial Anode is strongly recommended as it can offer extra protection against the corrosion of sea water and effectively extend the life expectancy of the pump.
- Without Sacrificial Anode Plate, frame and cover were seriously eroded by sea water in just five months of use.
- HCP HIGH SOLIDS EPOXY COATING is a unique type of resin, harder, chemical-resistant paint, with superior water/vapor transmission rate. It features high density and high anti-corrosion capability and is particularly effective for iron and can be firmly attached to metals like iron and steel to form an anti-corrosion layer on their surface. Furthermore, it can penetrate and attach to the already-rusty surface of a metal. It has proven to be able to effectively prevent and protect metals from corrosion and oxidation.
- HCP HIGH SOLIDS EPOXY COATING is an ecological paint of very high solid content and very low content of solvent. Its dry film thickness can reach 10µm and above, compared to a regular paint whose dry film thickness is merely 30µm. The extraordinary toughness, anti-abrasion properties, plus excellent resistance to chemicals and sea water make it widely acclaimed and adopted as the best solution in the industry.
- HCP has been a pioneer in the pump industry as well as the first one to apply HIGH SOLIDS EPOXY COATING to our IC & L Type and pumps above 7.5HP. Such innovative improvement will offer extended protection for our pumps and prolong their life expectancy substantially.

SAFETY INFORMATION

- Corrosion, the arch enemy for metals, especially when the metal is sunk in brine or sea water, could cause electrolysis and accelerate the corrosion.
- For better protection against brine-inflicted corrosion, we suggest application of Sacrificial Anode Plate to the pump. Sacrificial Anode Plate will release positive particles and turn the pump into negative. The positive Sacrificial Anode will dissolve slowly in sea water and release electrons which can prevent the oxidation of the pump until it is exhausted. During the process, Sacrificial Anode Plate will protect the pump and its components from corrosion for an extended period of time and prolong the pump's life expectancy. If the pump is intended to be operated in sea water for more than 4 hours a day, the use of Sacrificial Anode is strongly recommended as it can offer extra protection against the corrosion of sea water and effectively extend the life expectancy of the pump.
- Without Sacrificial Anode Plate, frame and cover were seriously eroded by sea water in just five months of use.
- HCP HIGH SOLIDS EPOXY COATING is a unique type of resin, harder, chemical-resistant paint, with superior water/vapor transmission rate. It features high density and high anti-corrosion capability and is particularly effective for iron and can be firmly attached to metals like iron and steel to form an anti-corrosion layer on their surface. Furthermore, it can penetrate and attach to the already-rusty surface of a metal. It has proven to be able to effectively prevent and protect metals from corrosion and oxidation.
- HCP HIGH SOLIDS EPOXY COATING is an ecological paint of very high solid content and very low content of solvent. Its dry film thickness can reach 10µm and above, compared to a regular paint whose dry film thickness is merely 30µm. The extraordinary toughness, anti-abrasion properties, plus excellent resistance to chemicals and sea water make it widely acclaimed and adopted as the best solution in the industry.
- HCP has been a pioneer in the pump industry as well as the first one to apply HIGH SOLIDS EPOXY COATING to our IC & L Type and pumps above 7.5HP. Such innovative improvement will offer extended protection for our pumps and prolong their life expectancy substantially.

SACRIFICIAL ANODE PROTECTION SYSTEM

- Corrosion, the arch enemy for metals, especially when the metal is sunk in brine or sea water, could cause electrolysis and accelerate the corrosion.
- For better protection against brine-inflicted corrosion, we suggest application of Sacrificial Anode Plate to the pump. Sacrificial Anode Plate will release positive particles and turn the pump into negative. The positive Sacrificial Anode will dissolve slowly in sea water and release electrons which can prevent the oxidation of the pump until it is exhausted. During the process, Sacrificial Anode Plate will protect the pump and its components from corrosion for an extended period of time and prolong the pump's life expectancy. If the pump is intended to be operated in sea water for more than 4 hours a day, the use of Sacrificial Anode is strongly recommended as it can offer extra protection against the corrosion of sea water and effectively extend the life expectancy of the pump.
- Without Sacrificial Anode Plate, frame and cover were seriously eroded by sea water in just five months of use.
- HCP HIGH SOLIDS EPOXY COATING is a unique type of resin, harder, chemical-resistant paint, with superior water/vapor transmission rate. It features high density and high anti-corrosion capability and is particularly effective for iron and can be firmly attached to metals like iron and steel to form an anti-corrosion layer on their surface. Furthermore, it can penetrate and attach to the already-rusty surface of a metal. It has proven to be able to effectively prevent and protect metals from corrosion and oxidation.
- HCP HIGH SOLIDS EPOXY COATING is an ecological paint of very high solid content and very low content of solvent. Its dry film thickness can reach 10µm and above, compared to a regular paint whose dry film thickness is merely 30µm. The extraordinary toughness, anti-abrasion properties, plus excellent resistance to chemicals and sea water make it widely acclaimed and adopted as the best solution in the industry.
- HCP has been a pioneer in the pump industry as well as the first one to apply HIGH SOLIDS EPOXY COATING to our IC & L Type and pumps above 7.5HP. Such innovative improvement will offer extended protection for our pumps and prolong their life expectancy substantially.

SACRIFICIAL ANODE PROTECTION SYSTEM

- Corrosion, the arch enemy for metals, especially when the metal is sunk in brine or sea water, could cause electrolysis and accelerate the corrosion.
- For better protection against brine-inflicted corrosion, we suggest application of Sacrificial Anode Plate to the pump. Sacrificial Anode Plate will release positive particles and turn the pump into negative. The positive Sacrificial Anode will dissolve slowly in sea water and release electrons which can prevent the oxidation of the pump until it is exhausted. During the process, Sacrificial Anode Plate will protect the pump and its components from corrosion for an extended period of time and prolong the pump's life expectancy. If the pump is intended to be operated in sea water for more than 4 hours a day, the use of Sacrificial Anode is strongly recommended as it can offer extra protection against the corrosion of sea water and effectively extend the life expectancy of the pump.
- Without Sacrificial Anode Plate, frame and cover were seriously eroded by sea water in just five months of use.
- HCP HIGH SOLIDS EPOXY COATING is a unique type of resin, harder, chemical-resistant paint, with superior water/vapor transmission rate. It features high density and high anti-corrosion capability and is particularly effective for iron and can be firmly attached to metals like iron and steel to form an anti-corrosion layer on their surface. Furthermore, it can penetrate and attach to the already-rusty surface of a metal. It has proven to be able to effectively prevent and protect metals from corrosion and oxidation.
- HCP HIGH SOLIDS EPOXY COATING is an ecological paint of very high solid content and very low content of solvent. Its dry film thickness can reach 10µm and above, compared to a regular paint whose dry film thickness is merely 30µm. The extraordinary toughness, anti-abrasion properties, plus excellent resistance to chemicals and sea water make it widely acclaimed and adopted as the best solution in the industry.
- HCP has been a pioneer in the pump industry as well as the first one to apply HIGH SOLIDS EPOXY COATING to our IC & L Type and pumps above 7.5HP. Such innovative improvement will offer extended protection for our pumps and prolong their life expectancy substantially.