CASTLE PUMPS LTD

Marine & Offshore Pump Solutions
Azcue Pumps have over 100 years’ experience in the manufacturing and design of marine type approved pumping solutions. With pumps installed in over 10,000 vessel builds, you have the confidence that your requirements are likely to have been solved before. Azcue Pumps offer a complete range of marine pump solutions; with pumps not just for sea water, but for fuel, lubricating oils, black/grey water and fish waste. Complete pump packages are available from one manufacturer fulfilling applications from engine cooling to bilge pumping to fuel transfer.

Why choose Azcue?

- Marine type approval – all pumps are verified for use on board vessels
- 100% pump testing regime and class certification available
- Own foundry in Spain for complete production control
- Guaranteed supply of spares for 15 years
- Complete pump packages from one manufacturer
- Interchangeable spares to reduce on board stock holding
- Built to match existing pump and pipework for easy replacement
- Fast track production on selected models
- Packed to ISPM15 as standard

Castle Pumps Ltd
Azcue UK agents

Azcue Pumps are distributed in the UK by agents Castle Pumps, who receive weekly shipments direct from the Azcue factory in Spain. As a single source supplier of all Azcue marine pumps and genuine spare parts, Castle Pumps have built over many years the technical expertise in specifying the best pump for the application at hand.

Whatever the process, we have the pump
Options include; open impellers for handling soft particles; closed impellers for high efficiency and volatile fluids; vortex impellers for stringy solids and debris; cutter impellers for cutting up large amounts of solids; and mixed flow impellers.

Azcue offer pumps in a full range of materials. Typically, cast iron is used for fresh water and fuel oils and bronze/aluminium for seawater; however pumps are also available in stainless and duplex stainless steel.

As well as common electric motors, which we supply in various voltages and frequencies, Azcue also offer pumps with hydraulic and diesel engine driven motors.

**Spacer coupling**
Can be fitted to vertical pumps to ensure that wearing parts can be replaced without having to remove the motor.

**Back pull out design**
Enables the motor to be removed without disconnecting the pump from the pipework.

**Magnetic coupling**
Removes the need for a mechanical seal eliminating the chance of leakage and reducing service intervals.

**Priming options**
Azcue offer both air ejectors and electric priming pumps for applications where a short priming time is required, or where it is not possible to keep the suction flooded.

**Frequency drive**
Used to regulate a pump’s motor when full power is not required, thus saving money in wasted energy consumption. Azcue offer a sea water cooling pump that adjusts the speed of the motor based on the water temperature. This system can provide savings of up to 80%, with a typical payback period of one year.

### Impeller types

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<th>LN</th>
<th>VM</th>
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Screw Pumps

**BT-MB**
- **Close Coupled**
- Max Head: 500m
- Q Max: 10m³/h
- Max Temp: 100°C
- Ports: DN 1"- 1½"

**BT-HM**
- **Spacer Coupling**
- Max Head: 160m
- Q Max: 10m³/h
- Max Temp: 160°C
- Ports: DN 1"- 1½"

**BT-IL**
- **Spacer Coupled, Flanged**
- Max Head: 160m
- Q Max: 35m³/h
- Max Temp: 160°C
- Ports: DN 50-100

**BT-LH**
- **High Flow, Horizontal**
- Max Head: 120m
- Q Max: 190m³/h
- Max Temp: 160°C
- Ports: DN 125-150

**BT-HH**
- **High Pressure, Horizontal**
- Max Head: 500m
- Q Max: 30m³/h
- Max Temp: 100°C
- Ports: DN 25-65

**BLOC**
- **Pumping Module**
- Max Head: 160m
- Q Max: 10m³/h
- Max Temp: 160°C
- Ports: DN 1"- 1½"

**BT-LV**
- **High Flow, Vertical**
- Max Head: 120m
- Q Max: 190m³/h
- Max Temp: 160°C
- Ports: DN 125-150

**BT-DF/DG**
- **High Flow, Vertical**
- Max Head: 120m
- Q Max: 450m³/h
- Max Temp: 100°C
- Ports: DN 200-250

**BT-MG**
- **Magnetic Coupling, Horizontal**
- Max Head: 160m
- Q Max: 190m³/h
- Max Temp: 160°C
- Ports: DN 25-150

**BT-MG**
- **Magnetic Coupling, Vertical**
- Max Head: 160m
- Q Max: 480m³/h
- Max Temp: 160°C
- Ports: DN 125-150

**BT-LS**
- **Low Sulphur, Horizontal**
- Max Head: 160m
- Q Max: 190m³/h
- Max Temp: 160°C
- Ports: DN 25-150

**BT-LS**
- **Low Sulphur, Vertical**
- Max Head: 120m
- Q Max: 450m³/h
- Max Temp: 100°C
- Ports: DN 200-250

Whatever the process, we have the pump
**Vertical Inline Centrifugal**

**LN** Close Coupled, based on DIN 24255
- Max Head: 100m
- Q Max: 700m³/h
- Max Temp: 120°C
- Ports: DN 50-250

**VM** Close Coupled
- Max Head: 130m
- Q Max: 1000m³/h
- Max Temp: 120°C
- Ports: DN 50-150

**CM** Close Coupled, Spacer
- Max Head: 130m
- Q Max: 1500m³/h
- Max Temp: 120°C
- Ports: DN 50-250

**LD** Double Suction Impeller
- Max Head: 60m
- Q Max: 5000m³/h
- Max Temp: 120°C
- Ports: DN 300-400

**VR** Close Coupled, Ball Bearing
- Max Head: 130m
- Q Max: 1500m³/h
- Max Temp: 120°C
- Ports: DN 80-250

**VB** Long coupled
- Max Head: 190m
- Q Max: 2000m³/h
- Max Temp: 120°C
- Ports: DN 150-250

**VA** Long Coupled, Axial Suction
- Max Head: 190m
- Q Max: 2000m³/h
- Max Temp: 120°C
- Ports: DN 150-250

**SPECIAL EXECUTIONS**

**VHX** Vortex Impeller
- Max Head: 30m
- Q Max: 500m³/h
- Max Temp: 100°C
- Ports: DN 50-200

**BTR** Cutting Impeller
- Max Head: 10m
- Q Max: 80m³/h
- Max Temp: 80°C
- Ports: DN 125

**VSS** Based on DIN 24255
- Max Head: 100m
- Q Max: 700m³/h
- Max Temp: 100°C
- Ports: DN 32-150

**VST** Based on DIN 24255, for Lube Oil
- Max Head: 80m
- Q Max: 2000m³/h
- Max Temp: 100°C
- Ports: DN 250-350

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**Immersed**

**VRX** Vortex Impeller

**BTR** Cutting Impeller

**VSS** Based on DIN 24255

**VST** Based on DIN 24255, for Lube Oil
**Horizontal Centrifugal**

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Max Head</th>
<th>Q Max</th>
<th>Max Temp</th>
<th>Ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP</td>
<td>Close Coupled</td>
<td>50m</td>
<td>75m³/h</td>
<td>80°c</td>
<td>DN 1&quot; - 3&quot;</td>
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<tr>
<td>MN</td>
<td>Close Coupled, DIN 24255</td>
<td>100m</td>
<td>500m³/h</td>
<td>120°c</td>
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<td>AN</td>
<td>Long Coupled, DIN 24255</td>
<td>100m</td>
<td>700m³/h</td>
<td>120(190)°c</td>
<td>DN 32-150</td>
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<tr>
<td>BOB</td>
<td>Long Coupled, Flexible Coupling</td>
<td>30-150m</td>
<td>2000m³/h</td>
<td>120°c</td>
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**Self Priming Centrifugal**

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<th>Q Max</th>
<th>Max Temp</th>
<th>Ports</th>
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<td>CA</td>
<td>Close Coupled, Engine Driven</td>
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<td>100m³/h</td>
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<td>CA</td>
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<td>200m³/h</td>
<td>90°c</td>
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<td>105m</td>
<td>300m³/h</td>
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**Side Channel**

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<th>Max Temp</th>
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<td>9m³/h</td>
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<td>45m³/h</td>
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<td>45m³/h</td>
<td>90°c</td>
<td>DN 25-65</td>
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Other Rotodynamic Pumps

**VRX Monobloc, Vortex Impeller**
- Max Head: 30m
- Q Max: 500m³/h
- Max Temp: 100°c
- Ports: DN 50-200

**SUBMERSIBLE**
- Max Head: 30m
- Q Max: 400m³/h
- Max Temp: 50°c
- Ports: DN 1"- 200

**RA Reversible, Side Channel**
- Max Head: 60m
- Q Max: 18m³/h
- Max Temp: 90°c
- Ports: DN 1"- 1½"

**C Multistage, Vortex Impeller**
- Max Head: 200m
- Q Max: 40m³/h
- Max Temp: 120°c
- Ports: DN 1"- 3"

Other Positive Displacement Pumps

**BS-S Horizontal, Piston**
- Max Head: 100m
- Q Max: 45m³/h
- Max Temp: 80°c
- Ports: DN 1"- 3"

**RKZ Vertical, Piston**
- Max Head: 100m
- Q Max: 300m³/h
- Max Temp: 80°c
- Ports: DN 80-200

**KL-KB Eccentric Screw**
- Max Head: 40m (80m)
- Q Max: 120m³/h
- Max Temp: 80°c
- Ports: DN 80-200

**B Diaphragm**
- Max Head: 70m
- Q Max: 70m³/h
- Max Temp: 90°c
- Ports: DN 1"- 3"

Special Applications

**MUD PUMP Mud Driller, Centrifugal**
- Max Head: 165m
- Q Max: 1100m³/h
- Max Temp: 100°c
- Ports: DN 2"- 8"

**HYDROPHORE PRESSURE SETS**
- Max Head: 100m
- Q Max: 25/150m³/h
- Max Temp: 90°c
- Ports: DN 1"- 50(80)

**BULKHEAD PENETRATIONS**
- RPM: Variable
- Max Temp: 120°c
- Ports: DN 25-250
Accredited to enable you to buy with confidence.

Why choose Castle Pumps?

✔ Long standing technical expertise in the marine and offshore pump market.
✔ Single source supplier for all pumping solutions and genuine replacement parts.
✔ Customised packaged pump sets – more than just off the shelf products.
✔ Multi-lingual technical sales engineers, fluent in French and Spanish.
✔ Worldwide shipping via air, sea or road using IATA, BIFA and RHA members.