



# CASTLE PUMPS LTD

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## Marine & Offshore Pump Solutions



**azcue**pumps

Castle Pumps Ltd  
the UK agent of Azcue





# azcuepumps

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



ELECTRIC DRIVE  
PUMP



**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.

Your process delivered.

| Application        | LN | VM | CM | LD | VR | VB, VA | VRX | BTR | VSS | VST | CP | MN | AN | BOB | CA | MA | MO, BR, BR-RR | BT Range | MUD | RA | C | BS-S | RKZ | B Diaphragm | Submersible | KL-LB |
|--------------------|----|----|----|----|----|--------|-----|-----|-----|-----|----|----|----|-----|----|----|---------------|----------|-----|----|---|------|-----|-------------|-------------|-------|
| Ballast            | •  | •  | •  | •  |    | •      |     |     |     |     |    | •  | •  | •   | •  |    |               |          |     |    |   |      |     |             |             |       |
| Bilge              |    |    |    |    |    |        |     |     |     |     |    |    |    |     | •  |    |               |          |     | •  |   | •    | •   | •           | •           | •     |
| Black/Grey Water   | •  | •  | •  | •  | •  |        | •   |     | •   | •   | •  | •  | •  | •   | •  |    |               |          |     |    |   |      | •   |             | •           |       |
| Boiler Feed        |    |    |    |    |    |        |     |     |     |     |    | •  | •  |     |    |    | •             |          |     |    | • |      |     |             |             |       |
| Cooling            | •  | •  | •  | •  | •  | •      |     |     |     |     | •  | •  | •  | •   |    | •  | •             |          |     | •  | • |      |     |             |             |       |
| Condensate         |    |    |    |    |    |        |     |     |     |     |    |    |    |     |    | •  | •             |          |     |    |   |      |     |             |             |       |
| Fire Fighting      | •  | •  | •  |    | •  | •      |     |     |     |     |    |    | •  | •   | •  |    |               |          |     |    | • | •    | •   |             |             |       |
| Fish Transfer      |    |    |    |    |    |        | •   | •   |     |     |    |    |    |     |    |    |               |          |     |    |   |      |     |             |             |       |
| Fuel Transfer      |    |    |    |    |    |        |     |     |     |     |    |    |    |     |    |    | •             | •        |     |    |   |      |     |             |             |       |
| Fume Scrubber      | •  |    | •  | •  |    | •      |     |     |     |     |    |    | •  | •   |    |    |               |          |     |    | • |      |     |             |             |       |
| Lubricant Transfer |    |    |    |    |    |        |     |     | •   | •   |    |    |    |     |    | •  | •             | •        |     | •  |   |      | •   |             |             |       |
| Reverse Osmosis    |    |    |    |    |    |        |     |     |     |     |    |    |    |     |    | •  | •             |          |     |    |   |      |     |             |             |       |
| Sea Water          | •  | •  | •  | •  | •  | •      | •   |     | •   | •   | •  | •  | •  | •   | •  | •  | •             |          |     | •  | • | •    | •   |             |             |       |
| Sewage             |    |    |    |    |    |        | •   | •   |     |     |    |    |    |     | •  |    |               |          |     |    |   |      |     |             |             |       |
| Thermal Oil        |    |    |    |    |    |        |     |     |     |     |    |    | •  |     |    |    |               |          |     |    |   |      |     |             |             |       |
| Mud Drilling       |    |    |    |    |    |        |     |     |     |     |    |    |    |     |    |    |               |          | •   |    |   |      |     |             |             |       |

## Impeller types

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.

## Material choices

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.

## Drive options

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.



CAST IRON PUMPS

## Technical considerations

### 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

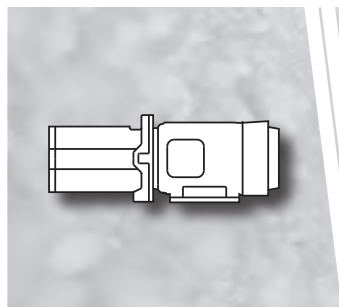
Azcue offer both air ejectors and electric priming pumps for applications where a short priming time is required, or where it is not possible to keep the suction flooded.

### 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.



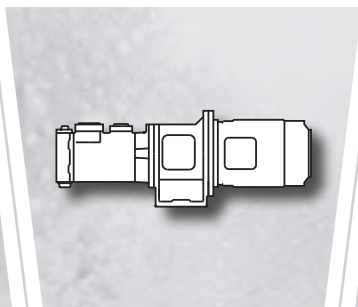
## Screw Pumps



### BT-MB

#### Close Coupled

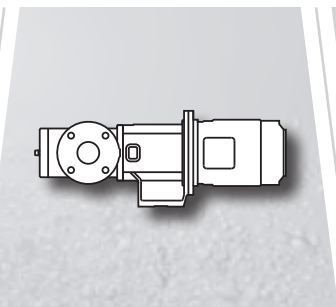
|           |                          |
|-----------|--------------------------|
| Max Head: | <b>500m</b>              |
| Q Max:    | <b>10m<sup>3</sup>/h</b> |
| Max Temp: | <b>100°C</b>             |
| Ports:    | <b>DN 1" - 1½"</b>       |



### BT-HM

#### Spacer Coupling

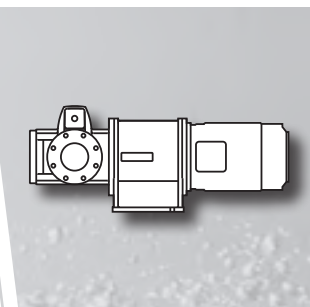
|           |                          |
|-----------|--------------------------|
| Max Head: | <b>160m</b>              |
| Q Max:    | <b>10m<sup>3</sup>/h</b> |
| Max Temp: | <b>160°C</b>             |
| Ports:    | <b>DN 1" - 1½"</b>       |



### BT-IL

#### Spacer Coupled, Flanged

|           |                          |
|-----------|--------------------------|
| Max Head: | <b>160m</b>              |
| Q Max:    | <b>35m<sup>3</sup>/h</b> |
| Max Temp: | <b>160°C</b>             |
| Ports:    | <b>DN 50-100</b>         |

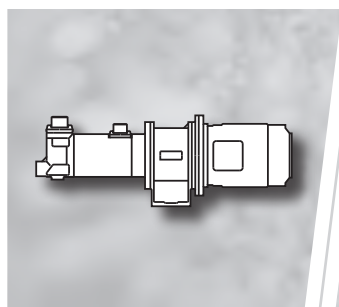


### BT-LH

#### High Flow, Horizontal

|           |                           |
|-----------|---------------------------|
| Max Head: | <b>120m</b>               |
| Q Max:    | <b>190m<sup>3</sup>/h</b> |
| Max Temp: | <b>160°C</b>              |
| Ports:    | <b>DN 125-150</b>         |

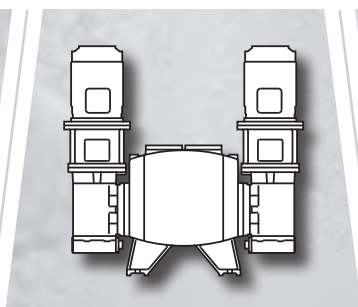
## Screw Pumps



### BT-HH

#### High Pressure, Horizontal

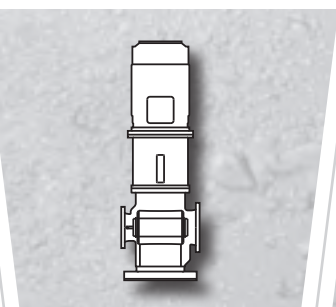
|           |                          |
|-----------|--------------------------|
| Max Head: | <b>500m</b>              |
| Q Max:    | <b>30m<sup>3</sup>/h</b> |
| Max Temp: | <b>100°C</b>             |
| Ports:    | <b>DN 25-65</b>          |



### BLOC

#### Pumping Module

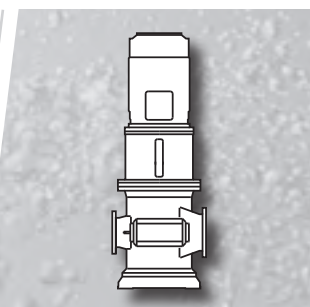
|           |                          |
|-----------|--------------------------|
| Max Head: | <b>160m</b>              |
| Q Max:    | <b>10m<sup>3</sup>/h</b> |
| Max Temp: | <b>160°C</b>             |
| Ports:    | <b>DN 1" - 1½"</b>       |



### BT-LV

#### High Flow, Vertical

|           |                           |
|-----------|---------------------------|
| Max Head: | <b>120m</b>               |
| Q Max:    | <b>190m<sup>3</sup>/h</b> |
| Max Temp: | <b>160°C</b>              |
| Ports:    | <b>DN 125-150</b>         |

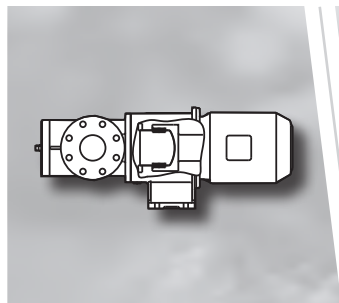


### BT-DF/DG

#### High Flow, Vertical

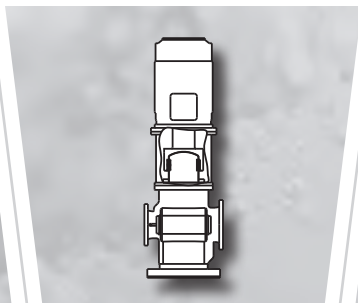
|           |                           |
|-----------|---------------------------|
| Max Head: | <b>120m</b>               |
| Q Max:    | <b>450m<sup>3</sup>/h</b> |
| Max Temp: | <b>100°C</b>              |
| Ports:    | <b>DN 200-250</b>         |

## Screw Pumps



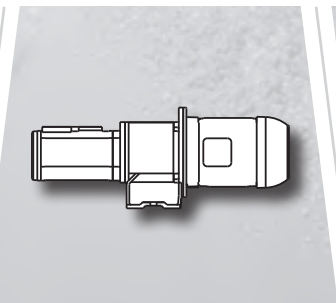
### BT-MG Magnetic Coupling, Horizontal

|           |                           |
|-----------|---------------------------|
| Max Head: | <b>160m</b>               |
| Q Max:    | <b>190m<sup>3</sup>/h</b> |
| Max Temp: | <b>160°C</b>              |
| Ports:    | <b>DN 25-150</b>          |



### BT-MG Magnetic Coupling, Vertical

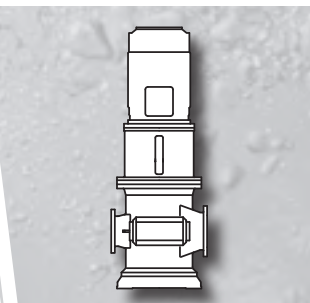
|           |                           |
|-----------|---------------------------|
| Max Head: | <b>120m</b>               |
| Q Max:    | <b>480m<sup>3</sup>/h</b> |
| Max Temp: | <b>160°C</b>              |
| Ports:    | <b>DN 125-150</b>         |



### BT-LS

#### Low Sulphur, Horizontal

|           |                           |
|-----------|---------------------------|
| Max Head: | <b>160m</b>               |
| Q Max:    | <b>190m<sup>3</sup>/h</b> |
| Max Temp: | <b>160°C</b>              |
| Ports:    | <b>DN 25-150</b>          |



### BT-LS

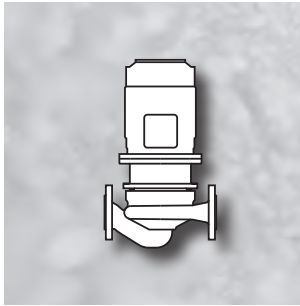
#### Low Sulphur, Vertical

|           |                           |
|-----------|---------------------------|
| Max Head: | <b>120m</b>               |
| Q Max:    | <b>450m<sup>3</sup>/h</b> |
| Max Temp: | <b>100°C</b>              |
| Ports:    | <b>DN 200-250</b>         |



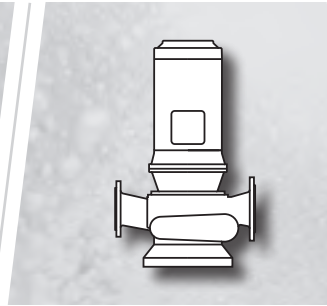


## Vertical Inline Centrifugal



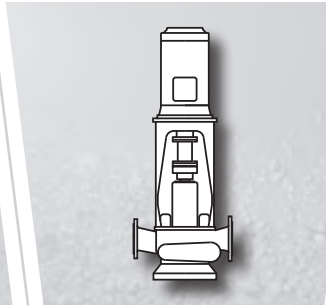
### LN Close Coupled, based on DIN 24255

|           |                  |
|-----------|------------------|
| Max Head: | <b>100m</b>      |
| Q Max:    | <b>700m³/h</b>   |
| Max Temp: | <b>120°C</b>     |
| Ports:    | <b>DN 50-250</b> |



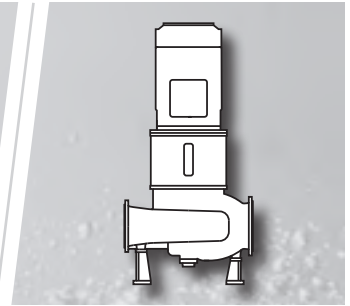
### VM Close Coupled

|           |                  |
|-----------|------------------|
| Max Head: | <b>130m</b>      |
| Q Max:    | <b>1000m³/h</b>  |
| Max Temp: | <b>120°C</b>     |
| Ports:    | <b>DN 50-150</b> |



### CM Close Coupled, Spacer

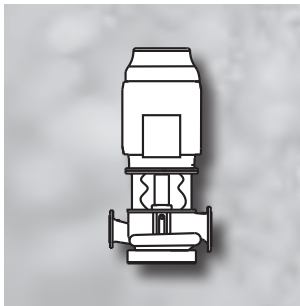
|           |                  |
|-----------|------------------|
| Max Head: | <b>130m</b>      |
| Q Max:    | <b>1500m³/h</b>  |
| Max Temp: | <b>120°C</b>     |
| Ports:    | <b>DN 50-250</b> |



### LD Double Suction Impeller

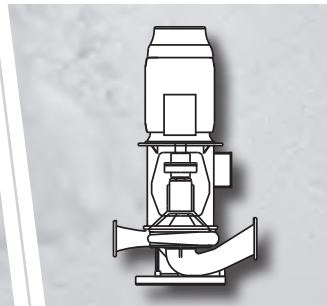
|           |                   |
|-----------|-------------------|
| Max Head: | <b>60m</b>        |
| Q Max:    | <b>5000m³/h</b>   |
| Max Temp: | <b>120°C</b>      |
| Ports:    | <b>DN 300-400</b> |

## Vertical Inline Centrifugal



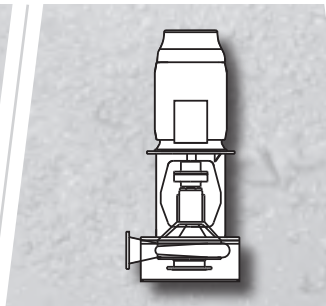
### VR Close Coupled, Ball Bearing

|           |                  |
|-----------|------------------|
| Max Head: | <b>130m</b>      |
| Q Max:    | <b>1500m³/h</b>  |
| Max Temp: | <b>120°C</b>     |
| Ports:    | <b>DN 80-250</b> |



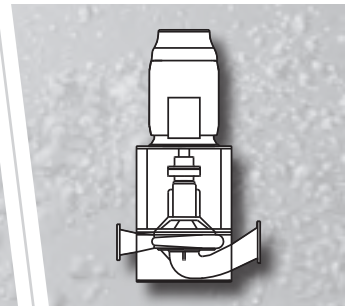
### VB Long coupled

|           |                   |
|-----------|-------------------|
| Max Head: | <b>190m</b>       |
| Q Max:    | <b>2000m³/h</b>   |
| Max Temp: | <b>120°C</b>      |
| Ports:    | <b>DN 150-250</b> |



### VA Long Coupled, Axial Suction

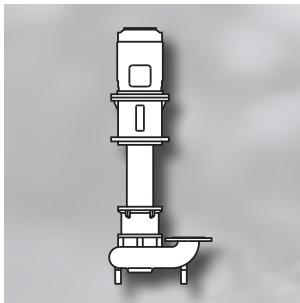
|           |                   |
|-----------|-------------------|
| Max Head: | <b>190m</b>       |
| Q Max:    | <b>2000m³/h</b>   |
| Max Temp: | <b>120°C</b>      |
| Ports:    | <b>DN 150-250</b> |



### SPECIAL EXECUTIONS

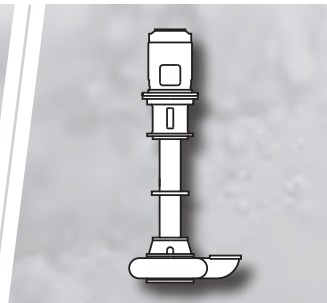
|           |                   |
|-----------|-------------------|
| Max Head: | <b>190m</b>       |
| Q Max:    | <b>2000m³/h</b>   |
| Max Temp: | <b>120°C</b>      |
| Ports:    | <b>DN 150-250</b> |

## Immersed



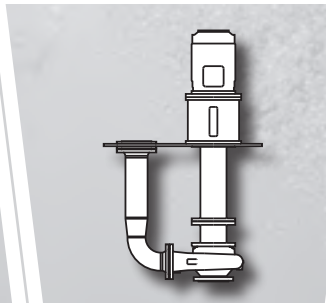
### VRX Vortex Impeller

|           |                  |
|-----------|------------------|
| Max Head: | <b>30m</b>       |
| Q Max:    | <b>500m³/h</b>   |
| Max Temp: | <b>100°C</b>     |
| Ports:    | <b>DN 50-200</b> |



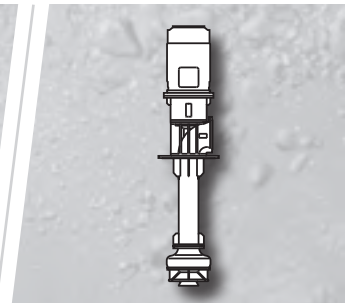
### BTR Cutting Impeller

|           |               |
|-----------|---------------|
| Max Head: | <b>10m</b>    |
| Q Max:    | <b>80m³/h</b> |
| Max Temp: | <b>80°C</b>   |
| Ports:    | <b>DN 125</b> |



### VSS Based on DIN 24255

|           |                  |
|-----------|------------------|
| Max Head: | <b>100m</b>      |
| Q Max:    | <b>700m³/h</b>   |
| Max Temp: | <b>100°C</b>     |
| Ports:    | <b>DN 32-150</b> |

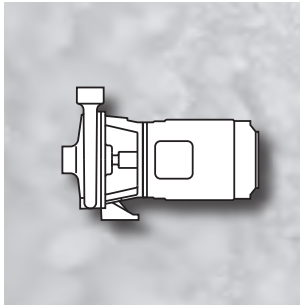


### VST Based on DIN 24255, for Lube Oil

|           |                   |
|-----------|-------------------|
| Max Head: | <b>80m</b>        |
| Q Max:    | <b>2000m³/h</b>   |
| Max Temp: | <b>100°C</b>      |
| Ports:    | <b>DN 250-350</b> |

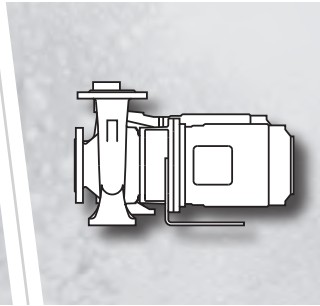


## Horizontal Centrifugal



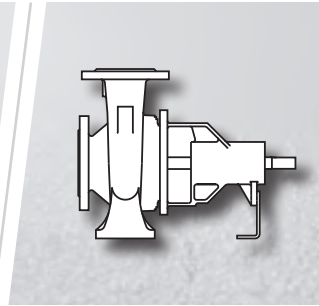
### CP Close Coupled

|           |                          |
|-----------|--------------------------|
| Max Head: | <b>50m</b>               |
| Q Max:    | <b>75m<sup>3</sup>/h</b> |
| Max Temp: | <b>80°C</b>              |
| Ports:    | <b>DN 1" - 3"</b>        |



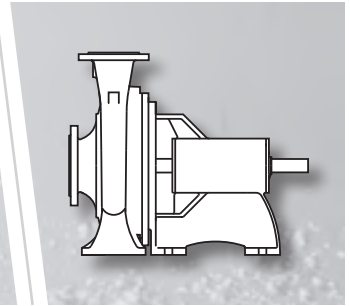
### MN Close Coupled, DIN 24255

|           |                           |
|-----------|---------------------------|
| Max Head: | <b>100m</b>               |
| Q Max:    | <b>500m<sup>3</sup>/h</b> |
| Max Temp: | <b>120°C</b>              |
| Ports:    | <b>DN 32-150</b>          |



### AN Long Coupled, DIN 24255

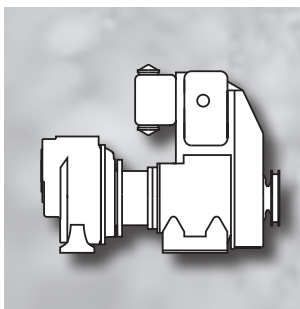
|           |                           |
|-----------|---------------------------|
| Max Head: | <b>100m</b>               |
| Q Max:    | <b>700m<sup>3</sup>/h</b> |
| Max Temp: | <b>120(190)°C</b>         |
| Ports:    | <b>DN 32-150</b>          |



### BOB Long Coupled, Flexible Coupling

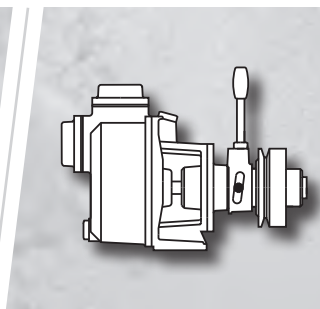
|           |                            |
|-----------|----------------------------|
| Max Head: | <b>30-150m</b>             |
| Q Max:    | <b>2000m<sup>3</sup>/h</b> |
| Max Temp: | <b>120°C</b>               |
| Ports:    | <b>DN 100-250</b>          |

## Self Priming Centrifugal



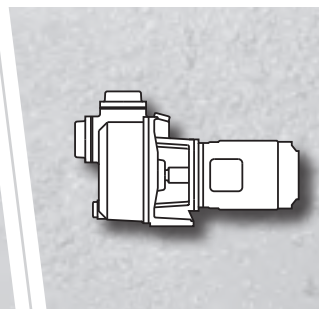
### CA Close Coupled, Engine Driven

|           |                           |
|-----------|---------------------------|
| Max Head: | <b>100m</b>               |
| Q Max:    | <b>100m<sup>3</sup>/h</b> |
| Max Temp: | <b>90°C</b>               |
| Ports:    | <b>DN 1¼" - 80</b>        |



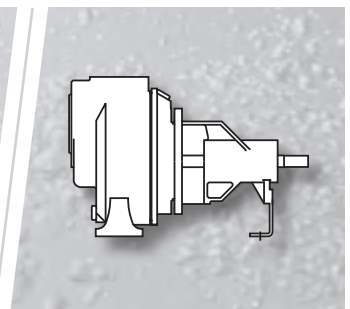
### CA Close Coupled, Clutch Driven

|           |                           |
|-----------|---------------------------|
| Max Head: | <b>60m</b>                |
| Q Max:    | <b>100m<sup>3</sup>/h</b> |
| Max Temp: | <b>90°C</b>               |
| Ports:    | <b>DN 1¼" - 80</b>        |



### CA Monobloc, Close Coupled

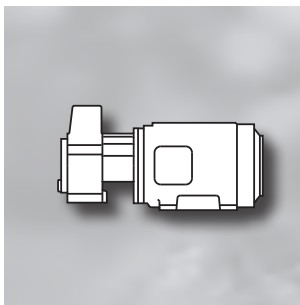
|           |                           |
|-----------|---------------------------|
| Max Head: | <b>105m</b>               |
| Q Max:    | <b>200m<sup>3</sup>/h</b> |
| Max Temp: | <b>90°C</b>               |
| Ports:    | <b>DN 1¼" - 125</b>       |



### CA Bareshaft

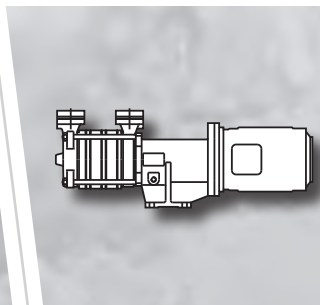
|           |                           |
|-----------|---------------------------|
| Max Head: | <b>105m</b>               |
| Q Max:    | <b>300m<sup>3</sup>/h</b> |
| Max Temp: | <b>90°C</b>               |
| Ports:    | <b>DN 1¼" - 150</b>       |

## Side Channel



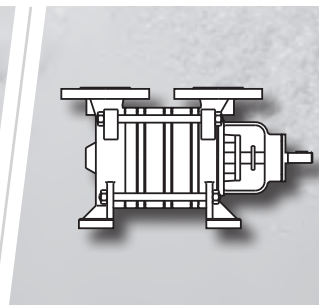
### MA Close Coupled

|           |                         |
|-----------|-------------------------|
| Max Head: | <b>60m</b>              |
| Q Max:    | <b>3m<sup>3</sup>/h</b> |
| Max Temp: | <b>90°C</b>             |
| Ports:    | <b>DN 1"</b>            |



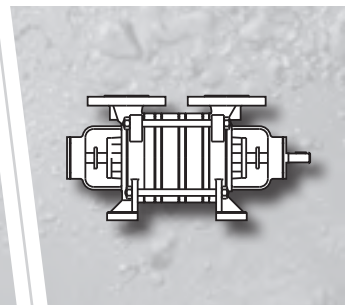
### MO Monobloc, Multistage

|           |                         |
|-----------|-------------------------|
| Max Head: | <b>225m</b>             |
| Q Max:    | <b>9m<sup>3</sup>/h</b> |
| Max Temp: | <b>90°C</b>             |
| Ports:    | <b>DN 1" - 1½"</b>      |



### BR Long Coupled, Multistage

|           |                          |
|-----------|--------------------------|
| Max Head: | <b>225m</b>              |
| Q Max:    | <b>45m<sup>3</sup>/h</b> |
| Max Temp: | <b>90°C</b>              |
| Ports:    | <b>DN 25-65</b>          |

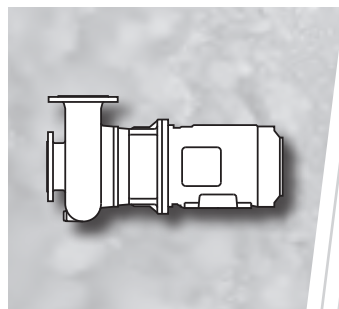


### BR-RR Reinforced Long Coupled, Multistage

|           |                          |
|-----------|--------------------------|
| Max Head: | <b>225m</b>              |
| Q Max:    | <b>45m<sup>3</sup>/h</b> |
| Max Temp: | <b>90°C</b>              |
| Ports:    | <b>DN 25-65</b>          |

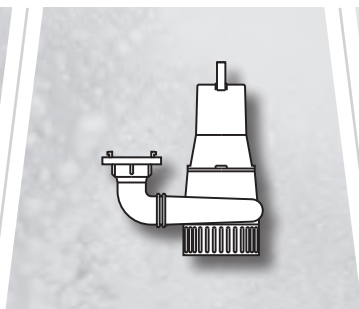


## Other Rotodynamic Pumps



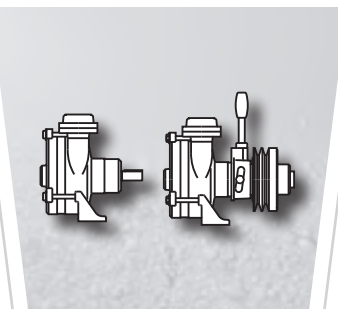
### VRX Monobloc, Vortex Impeller

|           |                  |
|-----------|------------------|
| Max Head: | <b>30m</b>       |
| Q Max:    | <b>500m³/h</b>   |
| Max Temp: | <b>100°C</b>     |
| Ports:    | <b>DN 50-200</b> |



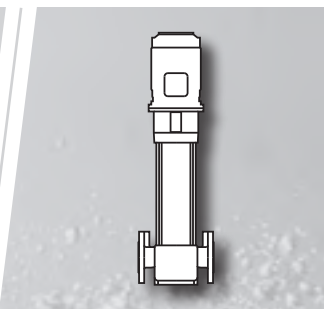
### SUBMERSIBLE

|           |                    |
|-----------|--------------------|
| Max Head: | <b>30m</b>         |
| Q Max:    | <b>400m³/h</b>     |
| Max Temp: | <b>50°C</b>        |
| Ports:    | <b>DN 1" - 200</b> |



### RA Reversible, Side Channel

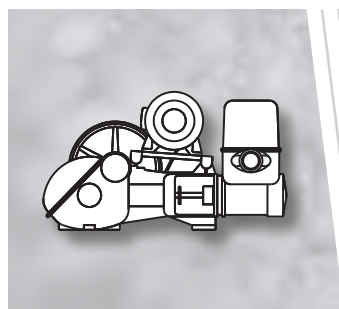
|           |                    |
|-----------|--------------------|
| Max Head: | <b>60m</b>         |
| Q Max:    | <b>18m³/h</b>      |
| Max Temp: | <b>90°C</b>        |
| Ports:    | <b>DN 1" - 1½"</b> |



### C Multistage, Vortex Impeller

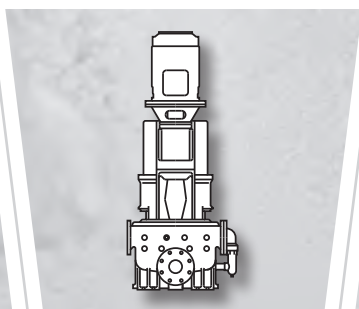
|           |                   |
|-----------|-------------------|
| Max Head: | <b>200m</b>       |
| Q Max:    | <b>40m³/h</b>     |
| Max Temp: | <b>120°C</b>      |
| Ports:    | <b>DN 1" - 3"</b> |

## Other Positive Displacement Pumps



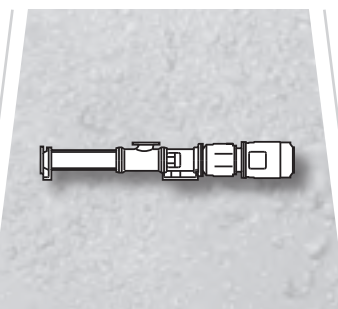
### BS-S Horizontal, Piston

|           |                   |
|-----------|-------------------|
| Max Head: | <b>100m</b>       |
| Q Max:    | <b>45m³/h</b>     |
| Max Temp: | <b>80°C</b>       |
| Ports:    | <b>DN 1" - 3"</b> |



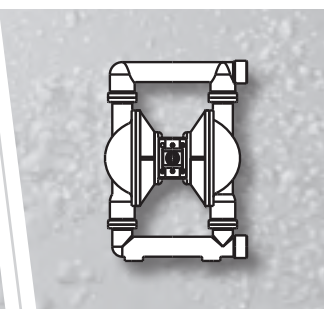
### RKZ Vertical, Piston

|           |                  |
|-----------|------------------|
| Max Head: | <b>100m</b>      |
| Q Max:    | <b>300m³/h</b>   |
| Max Temp: | <b>80°C</b>      |
| Ports:    | <b>DN 80-200</b> |



### KL-KB Eccentric Screw

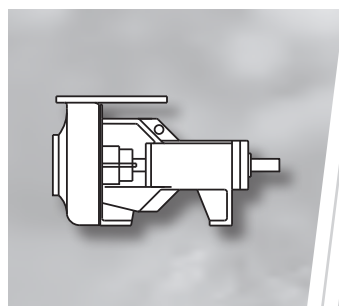
|           |                  |
|-----------|------------------|
| Max Head: | <b>40m (80m)</b> |
| Q Max:    | <b>120m³/h</b>   |
| Max Temp: | <b>80°C</b>      |
| Ports:    | <b>DN 80-200</b> |



### B Diaphragm

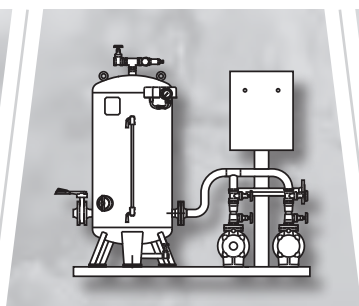
|           |                   |
|-----------|-------------------|
| Max Head: | <b>70m</b>        |
| Q Max:    | <b>70m³/h</b>     |
| Max Temp: | <b>90°C</b>       |
| Ports:    | <b>DN 1" - 3"</b> |

## Special Applications



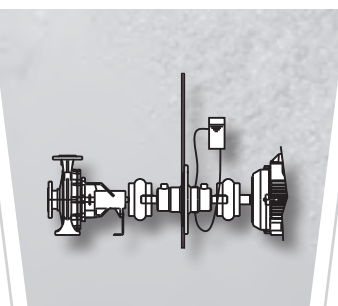
### MUD PUMP Mud Driller, Centrifugal

|           |                   |
|-----------|-------------------|
| Max Head: | <b>165m</b>       |
| Q Max:    | <b>1100m³/h</b>   |
| Max Temp: | <b>100°C</b>      |
| Ports:    | <b>DN 2" - 8"</b> |



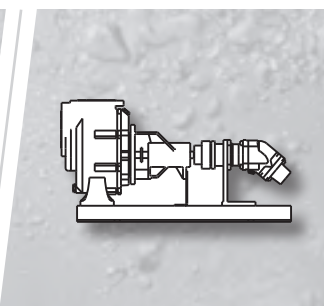
### HYDROPHORE PRESSURE SETS

|           |                       |
|-----------|-----------------------|
| Max Head: | <b>100m</b>           |
| Q Max:    | <b>25/150m³/h</b>     |
| Max Temp: | <b>90°C</b>           |
| Ports:    | <b>DN 1" - 50(80)</b> |



### BULKHEAD PENETRATIONS

|           |                 |
|-----------|-----------------|
| RPM:      | <b>Variable</b> |
| Max Temp: | <b>120°C</b>    |



### HYDRAULIC DRIVEN PUMPS

|           |                  |
|-----------|------------------|
| RPM:      | <b>Variable</b>  |
| Q Max:    | <b>1900m³/h</b>  |
| Max Temp: | <b>120°C</b>     |
| Ports:    | <b>DN 25-250</b> |



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