POTENTIAL ENGINEERING

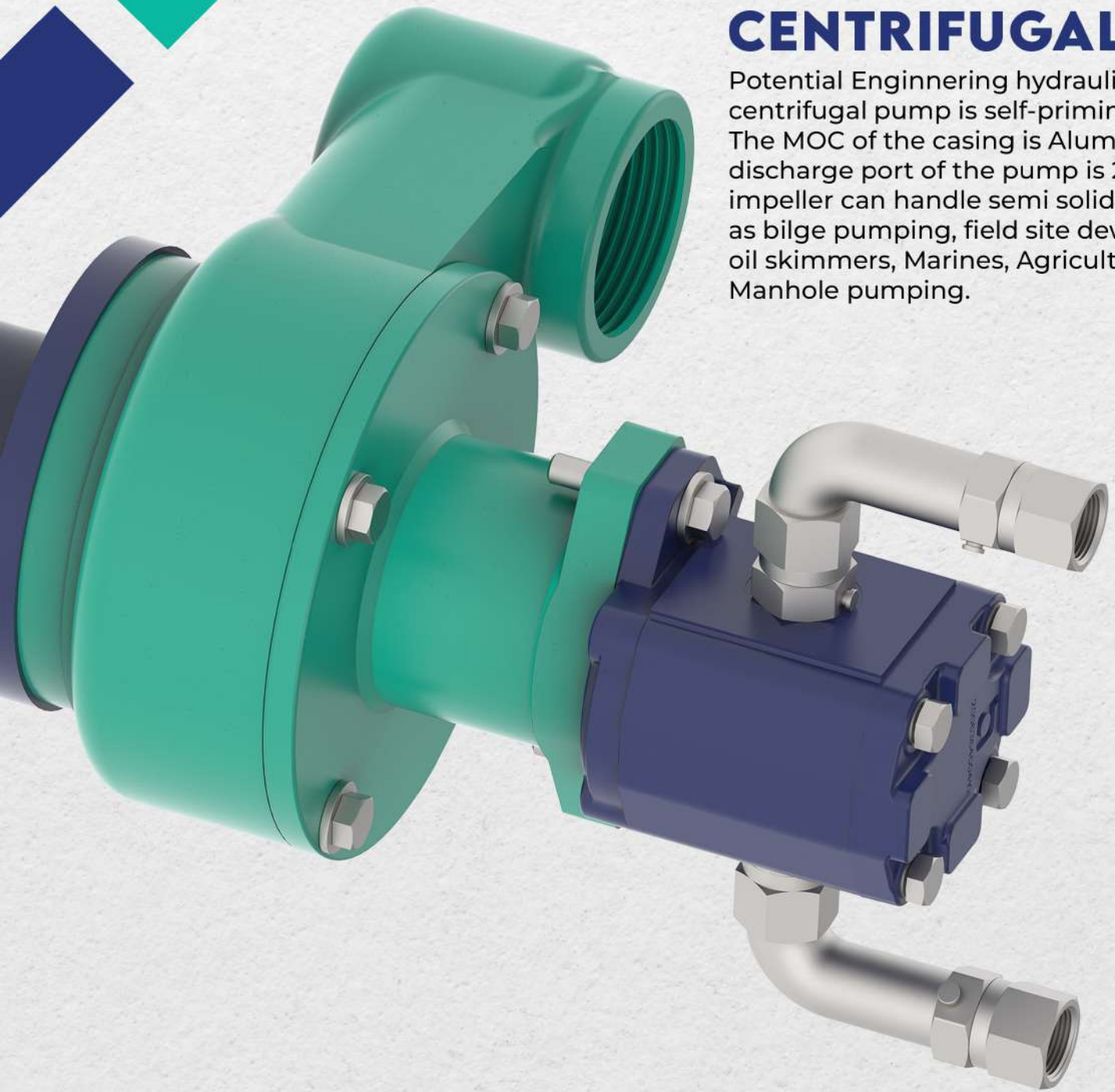
Global Leader and Your Partner in
Water Pollutant Removal Systems

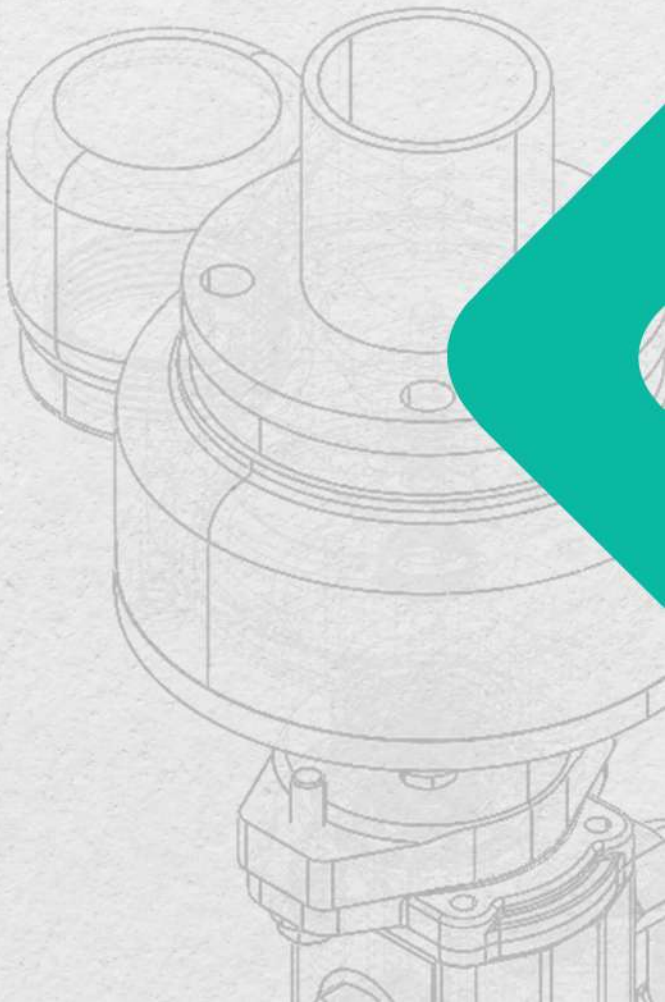
HYDRAULIC DRIVEN SUBMERSIBLE CENTRIFUGAL PUMP

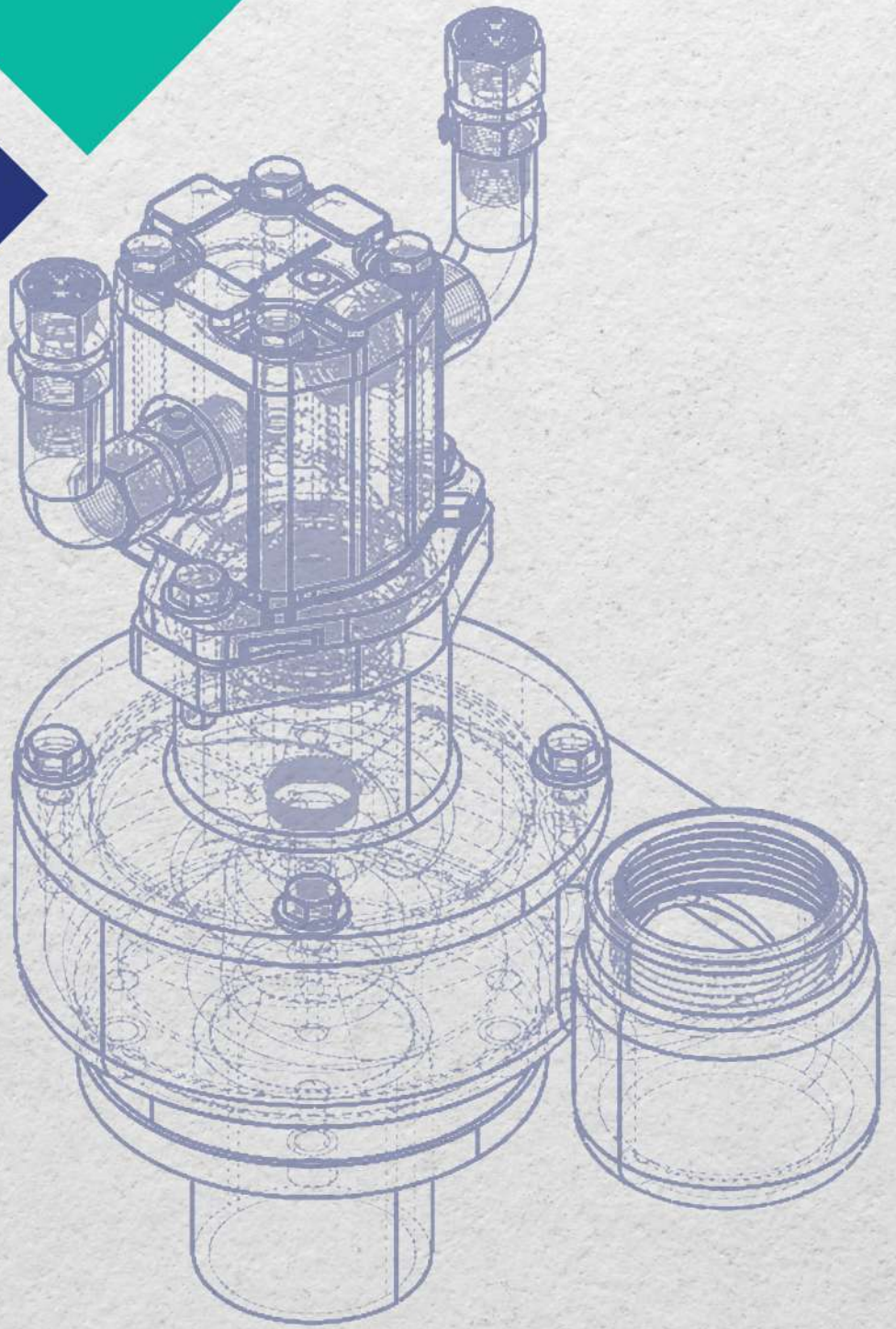
A Submersible Pump System

HYDRAULIC DRIVEN SUBMERSIBLE CENTRIFUGAL PUMP

Potential Enginnering hydraulic driven submersible centrifugal pump is self-priming driven by a hydraulic motor. The MOC of the casing is Aluminium and Impeller is SS316. The discharge port of the pump is 2"/3" BSP. The two channel impeller can handle semi solids and is designed for jobs such as bilge pumping, field site dewatering, wastewater transfer, oil skimmers, Marines, Agriculture, Construction sites and Manhole pumping.







ABOUT PROBLEM

Pumping Semi Solids

Fluids at the pumping site normally contains debris or semi solids which are difficult to isolate before pumping. Transporting such fluids is a challenge

Operation in Hazardous Zone

Submersible pumps in hazardous areas, handling fluids like crude oil and chemicals, carry a risk of sparking during operation, potentially leading to ignition hazards.

Single-person Operation is Impossible

Generally installing a pump requires a predefined mounting arrangement at the site which are hard to find where these pumps are in action.

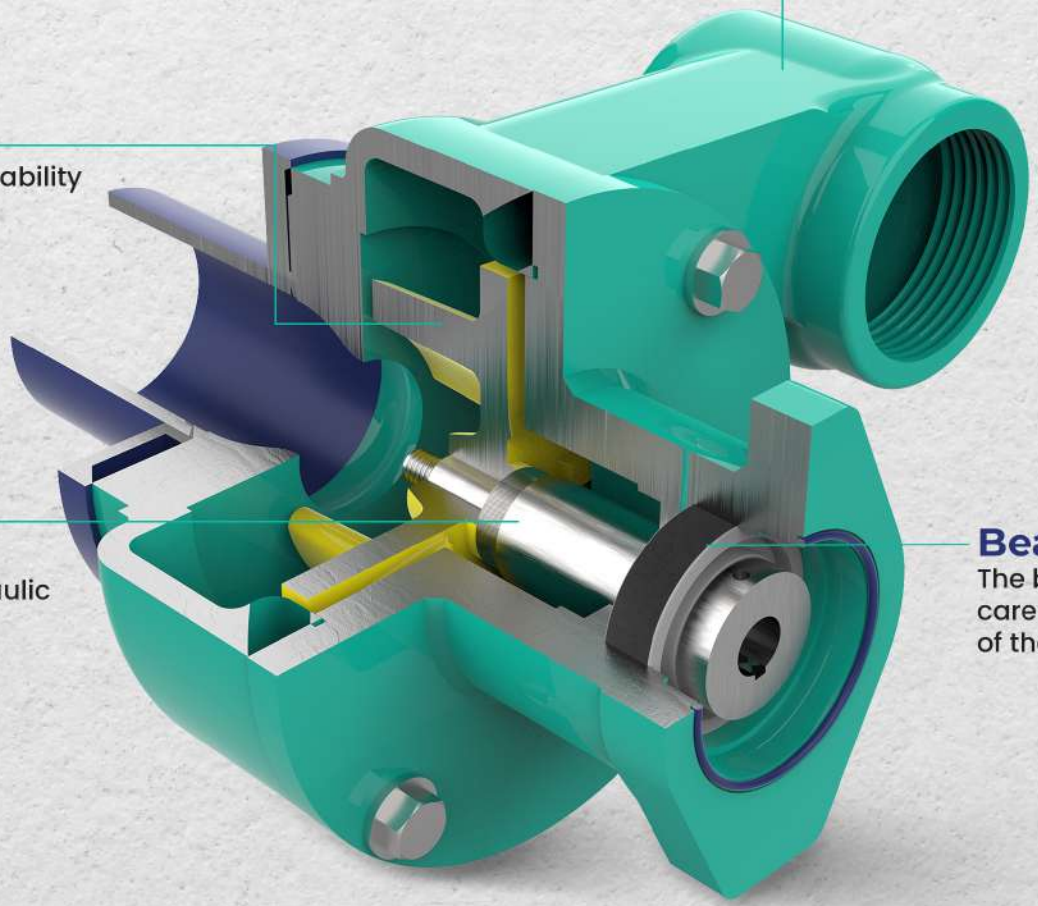
Difficulty in Installation

Submerging before pumping and taking out of fluids after action using human effort is a challenge at the site.

OUR SOLUTION

Pump Casing
The pump casing is made up of Cast Aluminium.

Impeller
Semi Closed Impeller with an ability to pass 35mm soft solids.

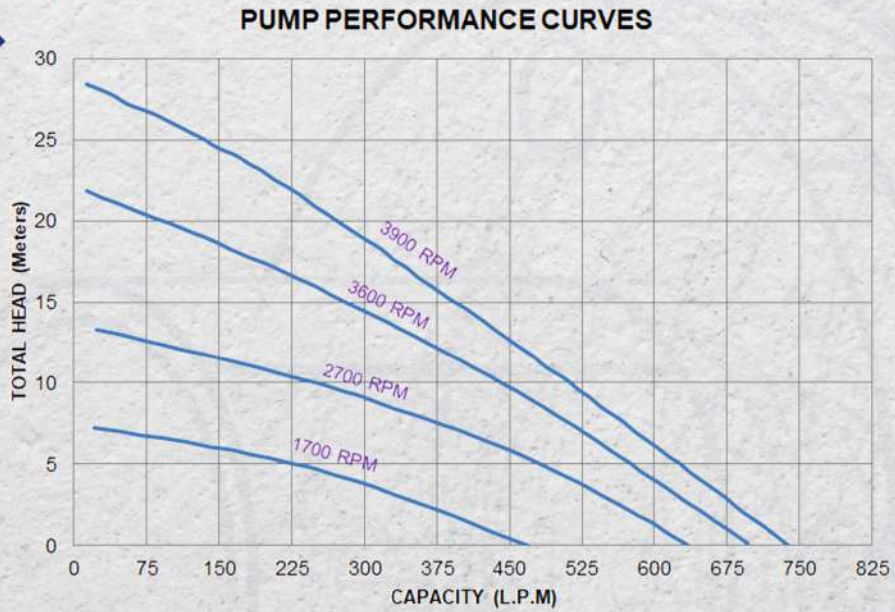


Shaft
The special design of the shaft makes it efficient to be coupled with the hydraulic motor & engagement of the impeller.

Bearing
The ball bearing used in the pump takes care of the dynamic Load during operation of the pump.

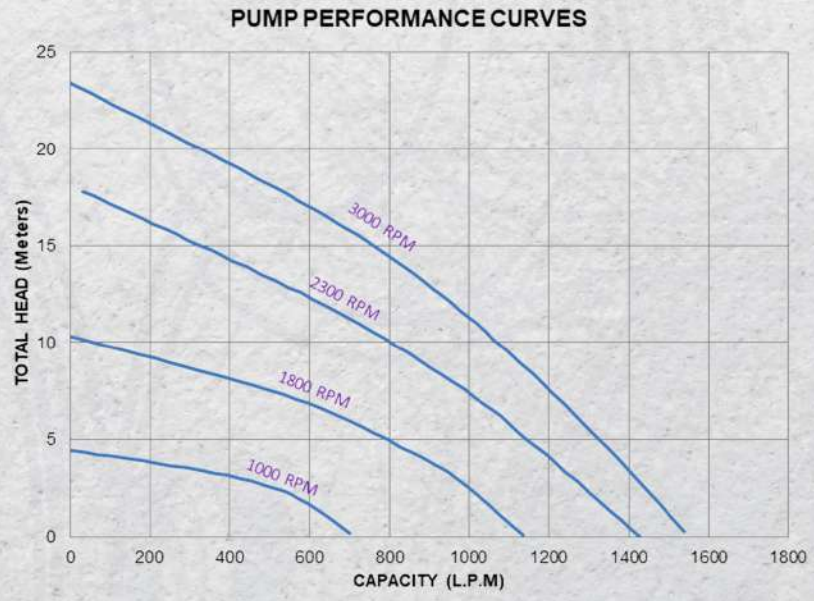
- Semi Closed Impeller with an ability to pass 35mm soft solids
- Reliable and Proven hydraulic motor's used
- Varying Velocity hydraulic drive
- Compactness of pump makes it versatile
- Can be fastened directly into a flow line.
- Can be used in hazardous area

PUMP PERFORMANCE CURVES



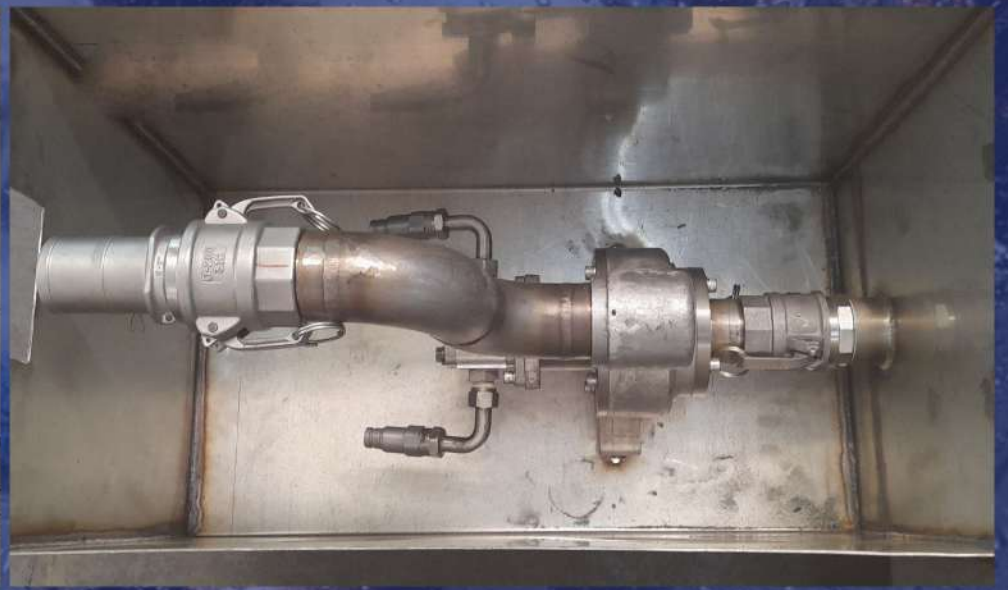
Technical Specification

2 inch Pump
Weight (without hydraulic motor) : 8Kg
Weight (with hydraulic motor) : 11Kg
Height : 337 mm
Width : 235 mm
Discharge: 2" NPT (F)
Solids Handling : 1 – ½" (38mm)
MOC (Pump Body) : Aluminium
MOC (Impeller) : Stainless Steel
MOC (Shaft) : Heat Treated Steel Alloy
MOC (Shaft Seal) : Carbon / Ceramic
Elastomers : Viton / Buna N



Technical Specification

3 inch Pump
Weight (without hydraulic motor) : 12Kg
Weight (with hydraulic motor) : 15Kg
Height : 375 mm
Width : 310 mm
Discharge: 3" NPT (F)
Solids Handling : 2 – ½" (63mm)
MOC (Pump Body) : Aluminium
MOC (Impeller) : Stainless Steel
MOC (Shaft) : Heat Treated Steel Alloy
MOC (Shaft Seal) : Carbon / Ceramic
Elastomers : Viton / Buna N



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