



AXIAL FLOW PUMPS

Hidrostal submersible axial flow pumps are a range of quality screw centrifugal pumps capable of not only pumping general effluent but also those liquors that are :-

- Containing solids
- Viscous
- Requiring gentle handling.

Features and benefits

The axial flow pump is commonly used when large volumes of liquid have to be transferred at relatively low lift conditions.

Installation footprint is generally smaller than a guiderail mounted submersible pump

Motors

A choice of motors is available for use in non-hazardous areas and also ATEX rated for use in hazardous areas.

The standard motors are provided with the following monitoring devices :-

- Klixon over-temperature protection
- Moisture sensing probe for the detection of water ingress in the cooling/seal chamber oil

The following options are also available:

- Float Switch detecting any water or oil passing through the motor side seal.
- Lower bearing temperature sensor
- Thermistor over-temperature protection



Axial flow pump



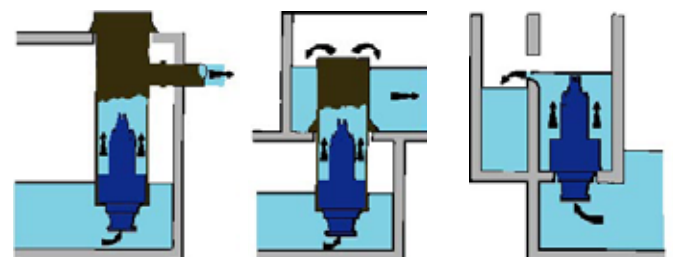
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Pump being lowered into tube



Pump operating



Some typical installation layouts

SECTION 4.2

SUBMERSIBLE / IMMERSIBLE / AXIAL FLOW PUMPS



Pump Materials of Construction

The pumps can be supplied in the following standard range of materials

Designation	Features	Volute	Liner	Impeller
Code 1	Standard for general applications	Cast iron	Cast iron	Nodular iron
Code 2	Hardened liner to improve wear resistance	Cast iron	Chrome iron	Nodular iron
Code 3	Hardened liner and impeller to further improve wear resistance for particularly gritty liquors	Cast iron	Chrome iron	Molybdenum steel
Code 5	Stainless steel volute, liner and impeller to corrosion resistance to certain chemicals	Stainless steel	Stainless steel	Stainless steel

Other materials are available on request such as duplex stainless steel.

Mechanical seals

The pumps have double mechanical seals running in an oil chamber. Hidrostat have three types of mechanical seal as standard

Designation	Features	Face Materials	Body	Elastomers
'G'	Standard for general applications	Silicon carbide / tungsten carbide	Stainless steel	Nitrile
'M'	Seal spring is rubber booted for protection against debris intrusion	Silicon carbide / tungsten carbide	Stainless steel	Nitrile
'X'	Seal has a complete stainless housing & body	Silicon carbide / tungsten carbide	Stainless steel	Nitrile / Viton

Other elastomer are available on request

Axial Flow pump range chart

