



Horizontal & Vertical End Suction Pumps



At a Glance

A range of versatile, energy efficient bearing frame pumps, suitable for horizontal or vertical mounting and incorporating the Hidrostal Screw Centrifugal Impeller.

Suitable for:

- Solids Handling
- Viscous Pumping
- Delicate Handling
- Low Shear Pumping

For more than 30 years, Hidrostal have been building an enviable reputation for original thinking and innovative pump technology. This experience is built into the company's range of high quality bearing frame pumps, making them extremely adaptable with numerous applications in a wide range of industries.

All Hidrostal bearing frame pumps incorporate the Screw Centrifugal impeller invented by the company, offering considerable benefits over conventional centrifugal pumps. The impeller has a single, spiral vane having a large open passage and an extended turn from the axial to the radial direction.

These features give a combination of characteristics not found in any other type of pump, namely:

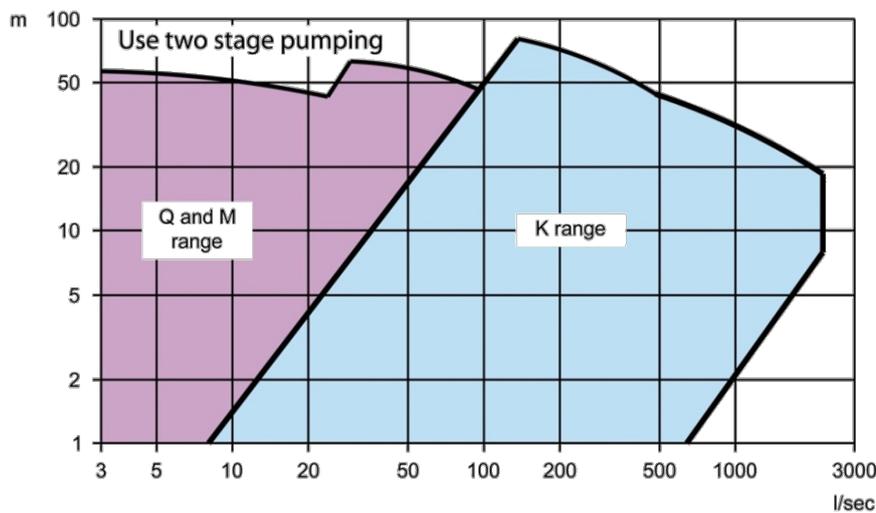
- Extremely steep and stable curve
- High efficiencies
- Non-overloading power curve
- Low NPSH
- Non-clog pumping



Performance & Materials

Code	Pump Casing	Impeller	Liner/Suction Cover
1	Cast Iron	Nodular Iron	Cast Iron
2	Cast Iron	Nodular Iron	Hidro Hard
3	Cast Iron	Cr Mo Steel	Hidro Hard
5	316 St Steel	316 St Steel	316 St Steel
6	Duplex St Steel	Duplex St Steel	Duplex St Steel

The above components are of standard build and can be interchanged. Other materials are available to suit specific applications.



THE RANGE

The range of flexible coupled Bearing Frame Pumps combines the benefits of extended periods between maintenance, improved reliability and a compact, cost-effective construction.

The direct flange mounted motor is spigoted onto the bearing frame and eliminates the possibility of shaft misalignment. The units are suitable for horizontal and vertical mounting and the back pull out design means the complete rotating unit, including the motor, can be simply withdrawn for inspection and maintenance of the hydraulic end.

The long coupled pumps are of a more traditional design, offering robust construction and long reliable service for both vertical and horizontal mounting. The standard construction has grease lubricated bearings, oil lubrication can be provided on horizontal units to meet the requirements of the process industries.

Lifetime Economy

Minimising the cost of lifetime ownership has always been at the heart of Hidrostal's design process. This is achieved by providing:

- High efficiency hydraulics
- Means of maintaining the efficiency
- Broad range of material options
- Extended periods between overhauls

The bearing housing is of modular construction, permitting various arrangements mechanical seal or soft packing to be used. The shaft end bearings have been selected to be used with belt drives and yet maintain long bearing lives.

