

# DSL

## Vertical In-line Double Suction Centrifugal Pump DSL

The DSL pumps are high capacity pumps. Up to 4000 m<sup>3</sup>/h, pressure up to 40 mLC

The DSL pumps are single-stage, double-suction, vertical, centrifugal pumps. The design of the suction side provides for a perfect flow, and the inlet is placed in line with the outlet. Add to this the advanced double-suction impeller and the result is high efficiency and low NPSH-values.

### Application

Ballast and cooling water pumping are among the many tasks that the DSL pumps solve to perfection. But also district heating and power plants together with many other industries will profit from using DSL pumps.



DSL pump mounted with a pressure gauge panel. Furthermore, it is possible to supply the pump with a separate priming pump or ejector.



|  |  |
|--|--|
| 50 Hz:   | 60 Hz:   |
| Pressure range:<br>2-30 mLC - 6-100 ft   | Pressure range:<br>4-45 mLC - 12-150 ft                            |
| Capacity range:<br>300-3500 m <sup>3</sup> /h<br>1300-15000 US gpm   | Capacity range:<br>350-4400 m <sup>3</sup> /h<br>1500-19000 US gpm |
| Temperature range:<br>With standard mech. shaft seal max. 80oC - 176°F.<br>With special mech. shaft seal max. 120oC - 248°F. |  |

### Materials

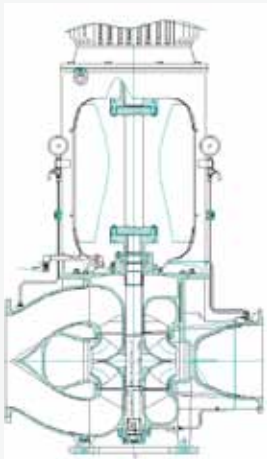
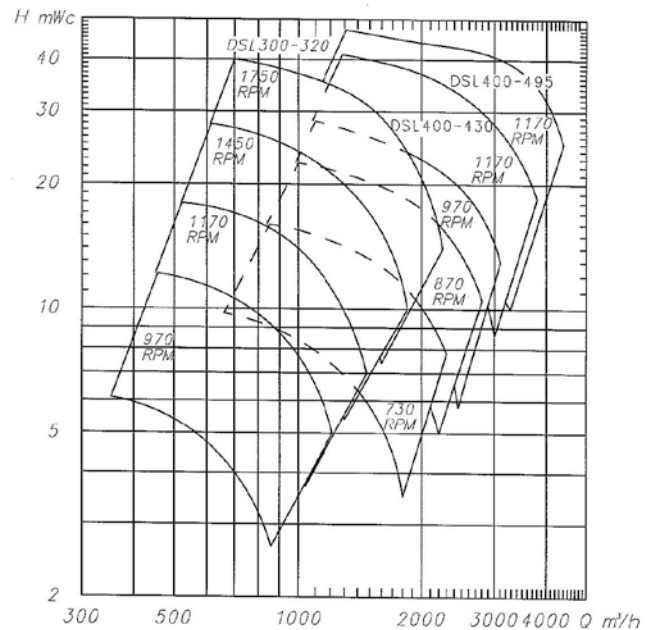
Alternative material combinations such as stainless steel impeller are available. Maximum working temperature is 120°C for the standard model. For higher temperatures, please contact DESMI. Detailed installation and operation instructions are supplied together with the pump.

| Material specification | A           | D           |
|------------------------|-------------|-------------|
| Pump casing            | Cast iron   | Bronze      |
| Impeller               | NiAl-bronze | NiAl-bronze |
| Wear ring              | NiAl-bronze | NiAl-bronze |
| Shaft seal cover       | Cast iron   | Bronze      |
| Shaft                  | Stainless   | Stainless   |
| Shaft seal             | Mechanical  | Mechanical  |

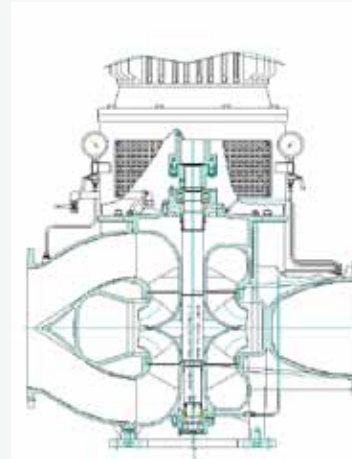
## Production Technology

The construction of the DSL is based on CAD and CAM, and it has been elaborated to make maximum use of the newest CNC processing technology. The outcome is pumps with specific and uniform tolerances, pumps with well-defined performances, at an absolutely attractive price.

The pumps are fitted with bearings and mechanical shaft seal at both top and bottom. This gives a robust construction, designed for trouble-free continuous duty. The pumps are radially split. In spacer design, service including replacement of bearings and mechanical shaft seal, can be carried out without removing motor and piping. Significant advantages to the benefit of the service personnel.



| Spacer        | Lenght: | Center Height: | Height: |
|---------------|---------|----------------|---------|
| DSL 400 - 430 | 1400 mm | 500 mm         | 2100 mm |
| DSL 300 - 320 | 1100 mm | 400 mm         | 1500 mm |
| DSL 400 - 495 | 1400 mm | 500 mm         | 2100 mm |



| Compact       | Lenght: | Center Height: | Height: |
|---------------|---------|----------------|---------|
| DSL 400 - 430 | 1400 mm | 500 mm         | 1400 mm |
| DSL 300 - 320 | 1100 mm | 400 mm         | 1100 mm |
| DSL 400 - 495 | 1400 mm | 500 mm         | 1400 mm |