

# NSLV & NSLH

## Vertical (NSLV) & Horizontal (NSLH) End-suction Centrifugal Pump

DESMI has high quality and well established industrial pumps on the market, with focus on high energy efficiency and long life cycle.

The DESMI NSLV & NSLH pumps are suitable for water applications (raw, treated, hot or cold) and meet the special industrial market requirements for:

- High efficiency
- Low NPSH values
- Easy installation/service
- Specific materials
- Compact design
- Standardized to modular design
- Outstanding hydraulic design performance
- Spacer-coupling options for easy maintenance
- Robust shaft design
- High efficiency impeller with low NPSH values
- Self-priming ability with a separate built-on priming pump



Normal Diameter (DN)	65 to 600
Flow rate - 50 Hz	Up to 6200m <sup>3</sup> /h (27300 US gpm)
Flow rate - 60 Hz	Up to 5900m <sup>3</sup> /h (26000 US gpm)
Head	Up to 200 m (660 ft)
Pressure	Up to 25 bar (360 psi)
Temperature	Up to 140°C (284 °F)
Motor	Standard and Ex motor
VFD	Direct or Bulkead/Wall-mounted
Some pump sizes are available with inducer for obtaining lower NPSHr. An inducer might give up to 50% NPSHr reduction near best efficiency flow.	
ATEX approved	

Standard Material Specifications	
Pump casing	Cast iron
Impeller	NiAl-bronze
Sealing ring	NiAl-bronze
Rear cover	Cast iron
Shaft	Stainless steel
Shaft seal	Mechanical

*Alternative material combinations are available*

### Design Features

The pump is an end-suction, radially split, single-stage centrifugal pump with connecting flanges according to international standards. The pump is designed for mounting with electric motors having different international flange dimensions.

The pump casing is equipped with a replaceable sealing ring.

The impeller is made with double-curved blades to ensure low NPSH values and high efficiency.

The bearing unit is equipped with sturdy ball bearings and the small types are fitted with lifetime-lubricated bearings. In the larger types the lower bearing is a double bearing for which a lubrication point is provided.

A shaft in stainless steel with mechanical shaft seal of an approved brand is standard.

### Alternative Materials

Cast iron, ductile iron, bronze, NiAl-bronze, stainless steel, super duplex stainless steel