

# NSLV & NSLH

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

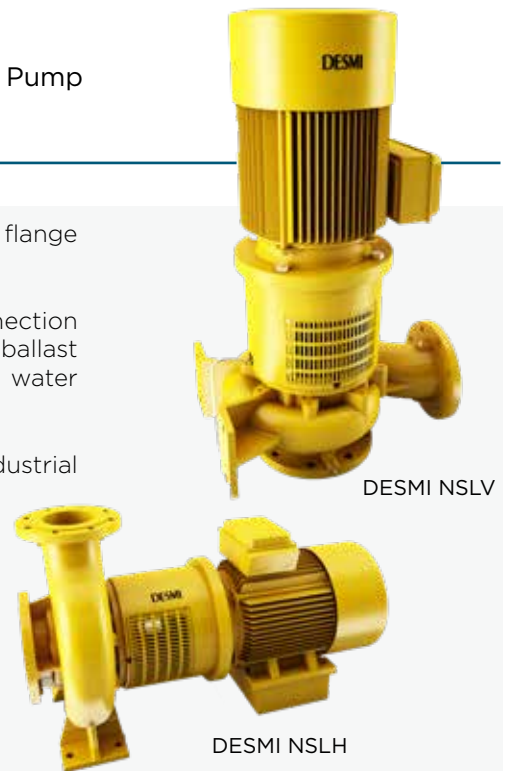
The DESMI NSLV pump is designed for vertical mount (with suction flange downwards) and the NSLH pump for horizontal mount.

The pumps are particularly suitable for the pumping of water in connection with cooling systems, cooling of diesel engines, as bilge pumps, ballast pumps, fire pumps, brine pumps, pumps for irrigation, fish farms, water works, army and navy etc.

The DESMI NSLV and NSLH pumps meet the special marine and industrial market requirements for:

- High efficiency
- Low NPSH values
- Easy installation/service
- Specific materials

and further, an attractive price.



NSLV/V - End suction centrifugal pump	
Nominal diameter (DN)	80 to 400
Flow rate	Up to 1800 m <sup>3</sup> /h (7900 US gpm)
Head	Up to 220 m (720 ft)
Temperature	Up to 140°C (284°F)

### 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.

The pump casing is equipped with a replaceable sealing ring. Furthermore the pump can be delivered as a free shaft end unit.

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.

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

*Alternative material combinations are available*

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

### Alternative materials include:

Bronze, NiAl-bronze, stainless steel, super duplex stainless steel

# Applications

Within marine industry the pumps are suitable as fresh and seawater cooling pumps, bilge and ballast pumps, fire-fighting and general service pumps, and further for transport of slightly aggressive liquids with low viscosity such as diesel and lubricating oils. Further, the pumps can be supplied in a special version for pumping brine and similar media.

All pump sizes are available as self-priming pumps with a separate built-on priming pump of the water ring type, complete with suction strainer and water feed tank.

The priming pump is equipped with its own electric motor and is suitable for manual or automatic start/stop.

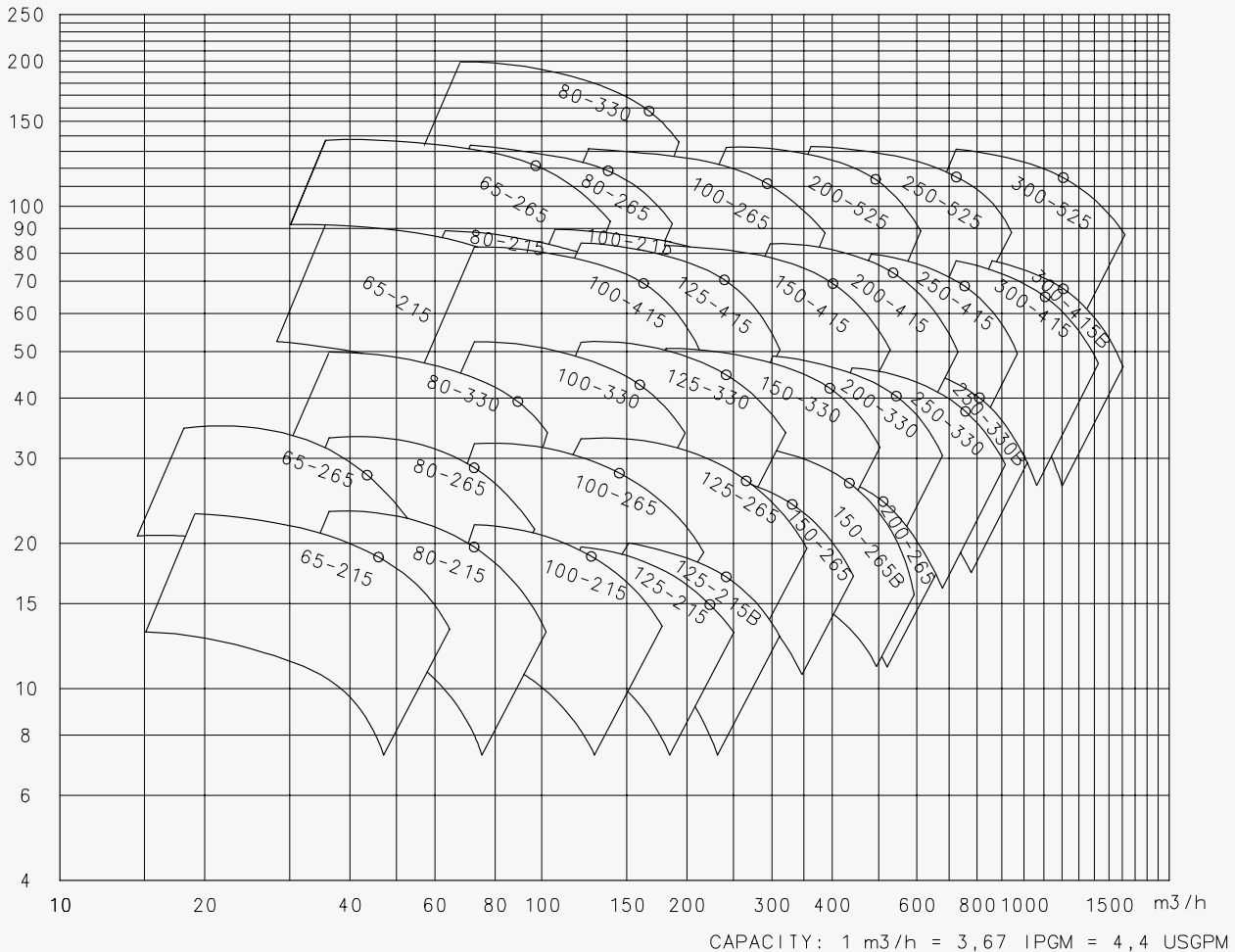
The pump can also be equipped with an air-operated ejector priming unit.

Ask for brochures on B114 priming unit or ½"-1" ejector, if you need further information on this - or find it on our website.



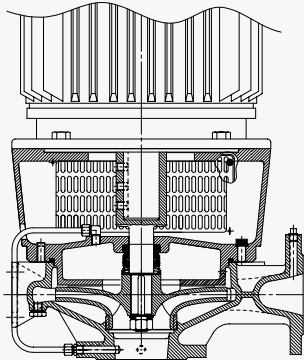
DESMI NSLV

mLC TOTAL HEAD: 1 m = 3,28 feet NSLV / NSLH o Max. efficiency 60 Hz



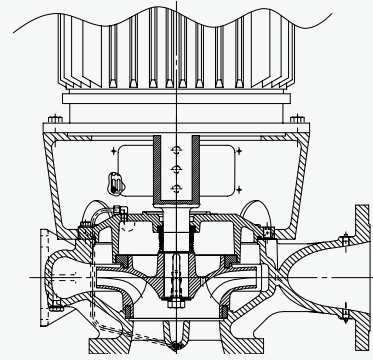
## Pumps with Ø 215 and Ø 265 Impeller

Dimension of the suction flange is one size larger than that of the discharge flange. The line through inlet and outlet is flush with the centre line of the shaft. The pumps are mounted with one impeller wear ring.



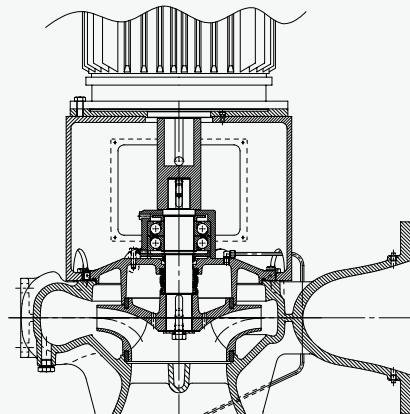
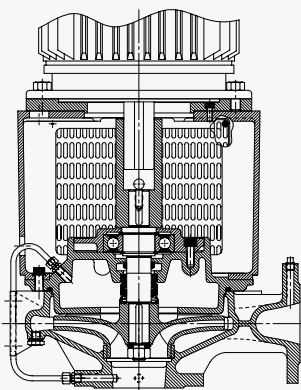
## Pumps with Ø 330, Ø 415 and Ø 525 Impeller

Dimension of the suction flange is one size larger than that of the discharge flange. The line through inlet and outlet is flush with the centre line of the shaft. The pumps are mounted with two impeller wear rings.



## Monobloc Without Bearing

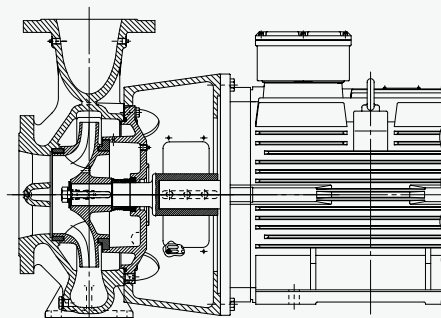
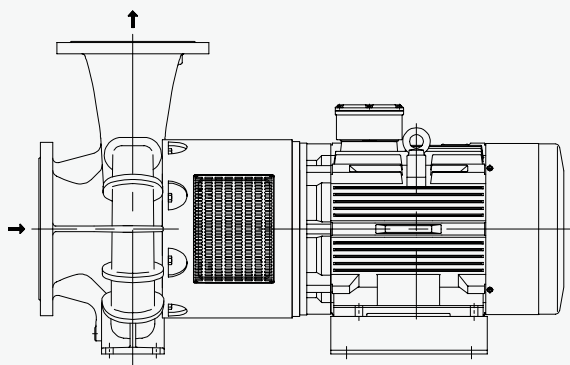
The pump is for small capacities and limited space. This version has no pump bearings, only the ball bearings in the standard electric motor. The power transmission is by rigid coupling. Dismantling of the pump parts is possible without removing the pump casing from the piping.



## Monobloc With Bearing

The pump is for major capacities and heavy loads, especially recommended where the advantage of the spacer coupling is of no importance and where a small overall height is required.

The pump is equipped with a separate rear cover with a ball bearing and a separate motor bracket. Dismantling of the rotating pump parts is possible without removing the pump casing from the piping.



# Design Details

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## Free Shaft End

The pump is available in a free shaft end version mounted on a baseplate with diesel engine, hydraulic or electric motor

