



DSL Pumps – High-Capacity, High-Efficiency Solutions for Demanding Applications

The DSL pumps are single-stage, double-suction, vertical, centrifugal pumps designed for high-capacity and high-efficiency operation in heavy-duty applications. With flow rates of up to 7400 m³/h and pressures reaching 140 mLC at 60 Hz, they offer a powerful and reliable solution for continuous-duty systems.

Pump Concept

- Single-stage, double-suction, vertical, centrifugal design
- Suction side designed for optimal flow dynamics
- Inlet aligned with the outlet for smooth flow and compact installation
- Advanced double-suction impeller for high efficiency and low NPSH values
- Radially split casing for easy maintenance
- Optional spacer design allows servicing of bearings and mechanical seals without removing motor or piping
- High efficiency with low NPSH requirements

Construction Benefits

- Double volute pump casing reduces radial load on the shaft
- No bottom radial bearing or shaft seal required, enhancing durability
- Robust construction ensures long-lasting, trouble-free operation
- Optionally equipped with separate priming pumps or ejectors for added operational flexibility

Applications:

District heating/cooling, seawater, water circulations, cooling tower distribution, chiller distribution & scrubber (Hue gas cleaning).

Material specification

Materials	A	D	S
Pump casing	Cast Iron (GG20)	Bronze (RG5)	Stainless Steel (1.4460)
Impeller	NiAl-Bronze (CC333)	NiAl-Bronze (CC333)	Stainless Steel (1.4460)
Wear ring	NiAl-Bronze (CC333)	NiAl-Bronze (CC333)	Stainless Steel (1.4460)
Shaft seal cover	Cast Iron (GG20)	Bronze (RG5)	Stainless Steel (1.4460)
Shaft	Stainless Steel (1.4460)	Stainless Steel (1.4460)	Stainless Steel (1.4460)
Shaft seal	Mechanical	Mechanical	Mechanical

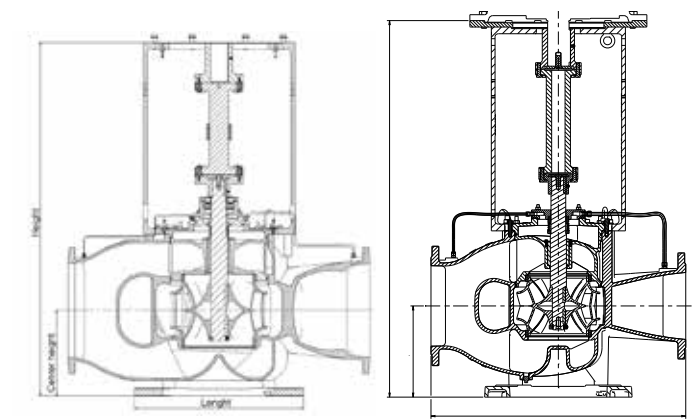
Alternative material combinations are available:

Normal Diameter (DN)	150 to 600
Flow rate - 50 Hz	Up to 6200 m ³ /h (27,300 US gpm) at 50 Hz
Flow rate - 60 Hz	Up to 7400 m ³ /h (32,600 US gpm) at 60 Hz
Head	Up to 140 m (460ft)
Pressure	Up to 25 bar (360 psi)
Temperature	Up to 140°C (284°F)
Motor	Standard and Ex motor
VFD	Bulhead/Wall-mounted
ATEX approved	

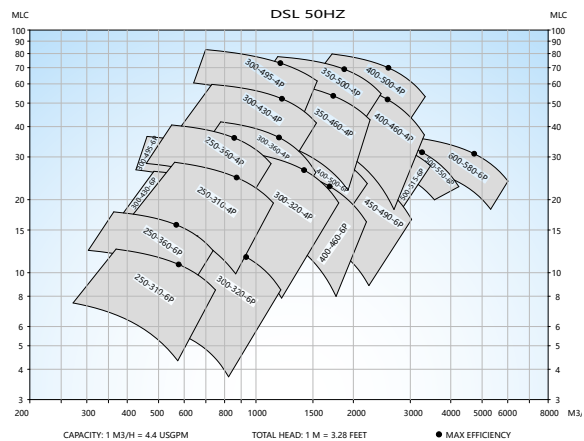
The DSL pump is designed using advanced CAD/CAM systems and CNC manufacturing, ensuring precise tolerances and consistent performance at a competitive price. Its robust construction includes bearings and mechanical shaft seals at both the top and bottom, supporting trouble-free continuous operation.

The radially split, spacer-type design allows for easy maintenance—bearings and seals can be replaced without removing the motor or piping. Additionally, the double volute casing reduces radial forces on the shaft, minimizing the need for bottom radial support. This results in a durable, service-friendly pump ideal for demanding applications.

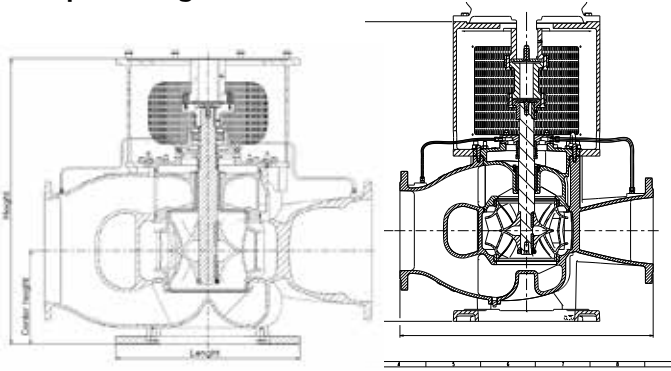
Spacer design



Spacer	Length	Center Height	Height
DSL150-265	680mm	265mm	1165mm
DSL250-310	950mm	340mm	1380mm
DSL250-360	900mm	340mm	1428mm
DSL300-320	1100mm	400mm	1500mm
DSL300-495	1200mm	425mm	1830mm
DSL350-460	1260mm	400mm	1752mm
DSL400-495	1400mm	500	2100mm
DSL500-515	1600mm	455mm	1882mm



Compact design



Compact	Length	Center Height	Height
DSL150-265	680mm	265mm	915mm
DSL250-310	950mm	340mm	1124mm
DSL250-360	900mm	340mm	1135mm
DSL300-320	1100mm	400mm	1100mm
DSL300-430	1040mm	375mm	1365mm
DSL300-495	1200mm	375mm	1365mm
DSL350-460	1260mm	400mm	1420mm
DSL400-495	1400mm	500mm	1400mm
DSL400-498	1550mm	440mm	1510mm
DSL450-490	1550mm	470mm	1540mm
DSL500-515	1600mm	455mm	1390mm

