

**Submerged centrifugal pumpset
50 Hz**



PUMPS • MOTORS

ISO 9001 Company



Pumping Solution

Product data

Submerged centrifugal pumpset

LHM & LVM

Introduction

LHM are horizontal, single-stage, submerged centrifugal pumps, whereas LVM are vertical, single-stage, submerged centrifugal pumps.

LHM have axial suction and radial discharge port whereas LVM have vertical discharge port.

These pumps have the discharge range up to 160 m³/hr and head range up to 60 metres. Motor ratings are 2.2 to 7.5 kW for three phase power supply.

These pumps are fitted with stainless steel jacket rewindable water filled submersible motor.

These pumps are offered with a mechanical shaft seal to prevent ingress of pumped liquid inside the motor.

The motors are prefilled at factory with water mixture which is non toxic.

Standard flanges for suction & discharge ports will be PN 16 as per DIN standard EN 1092-2.

Applications

- Industrial cooling water application.
- Industrial washing & cleaning systems.
- Fire fighting application.
- Domestic water supply systems.
- Water supply in commercial buildings, apartments, complexes, hotels, hospitals, schools, bungalows, etc.
- Sprinkler systems
- Gardens, farms & fountains.
- Dewatering applications.

Features & benefits

Following are the main features and benefits offered by the monoset pumps.

- Compact design
- Designed for submerged condition water applications.
- No suction and priming problem.
- Non overloading power characteristics which ensures no possibility of burning of motor due to overloading.
- Easy and simple installation.
- Foundation is not required.
- Sturdy construction.
- Stainless steel motor body & stainless steel shaft.
- Fitted with mechanical shaft seal.
- Dynamically balanced impellers to grade 6.3 of ISO 1940.
- LVM pumps are also available with guide rail system, which allows automatic remote connection & disconnection without entering the pit.

Operating conditions

Flow range : Up to 160 m³/h

Head range : Up to 60 metres

Ambient temperature : Max. +50°C

Liquid temperature range: 0°C to +50°C

Motor

Type : Submersible rewindable motor

Ratings : 3 phase - 2.2 to 7.5 kW

Rated speed : 2900 rpm

Enclosure class : IP 68

Standard voltages : 3 phase, 380-415 V
(Tolerance +5% / -15%)

Supply frequency : 50 Hz

Duty / Rating : S1 / Continuous

Direction of rotation : Clockwise as seen from the motor rear end.

Pumped liquids

These pumps are generally suitable for clear water or slightly dirty water without solids or fibers. They can also be used with aggressive liquids when the material of construction selected is compatible to the liquid being pumped.

Typical installation - LVM

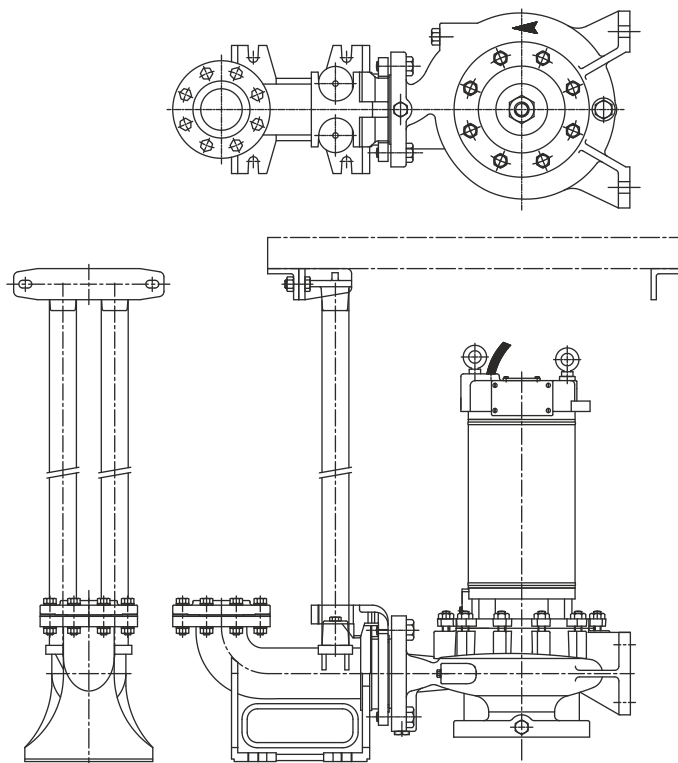
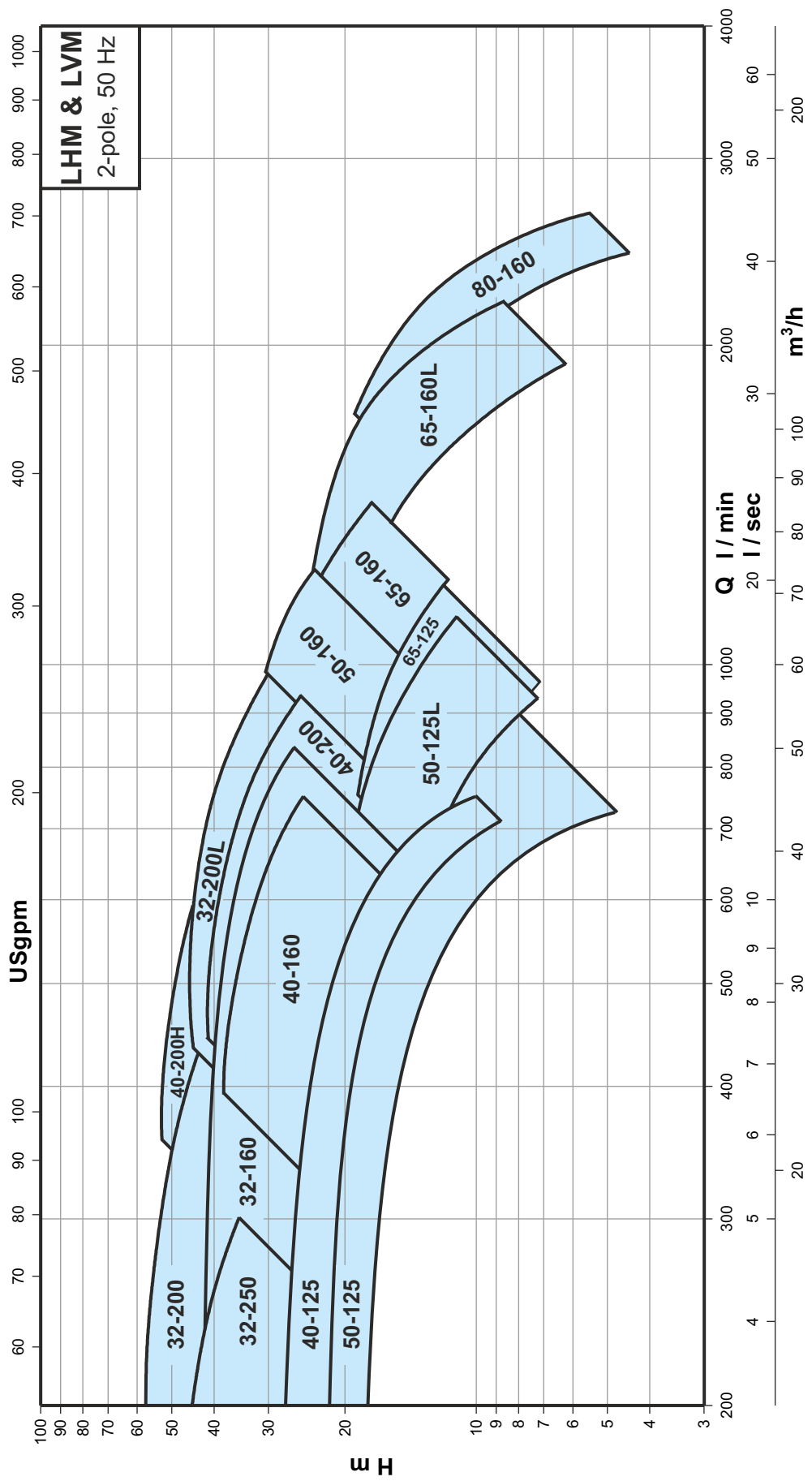


Fig. 1 LVM - pump on auto-coupling guide rail system

Performance range

Submerged centrifugal pumpset

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Construction

Submerged centrifugal pumpset

LHM

Sectional drawing

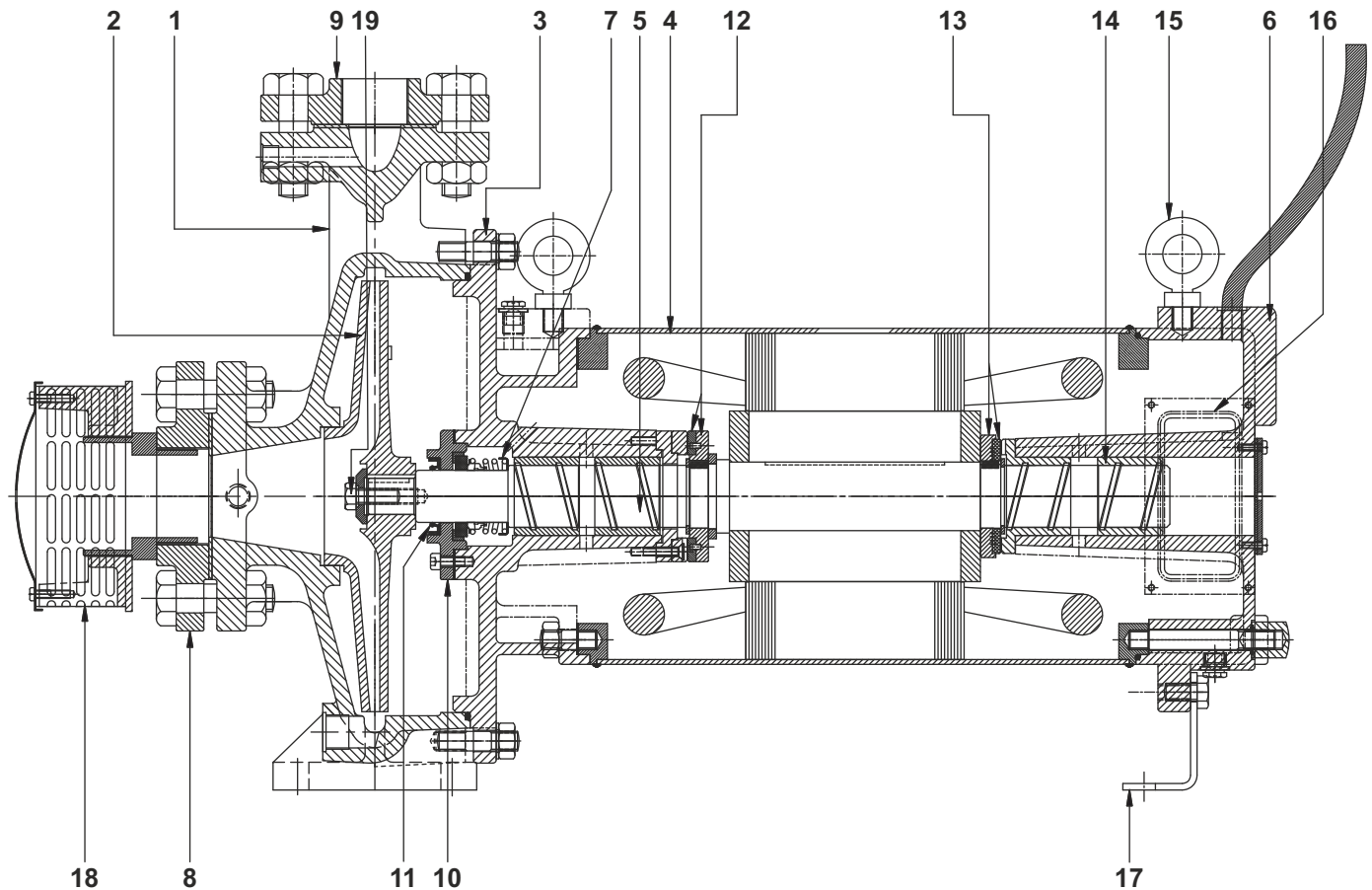


Fig. 2 LHM - Horizontal pump

Materials

Pos.	Component	A-version	B-version	C-version	E-version	F-version	G-version
1	Volute casing	Cast iron	Cast iron	Cast iron	Bronze	CF-8	CF-8M
2	Impeller	Cast iron	Bronze	CF-8	Bronze	CF-8	CF-8M
3	Adaptor	Cast iron	Cast iron	Cast iron	Bronze	CF-8	CF-8M
4	Stator body	S.S.202	S.S.202	S.S.202	S.S.304	S.S.304	S.S.316
5	Pump shaft	S.S.410	S.S.410	S.S.410	S.S.304	S.S.304	S.S.316
6	Lower bearing housing	Cast iron	Cast iron	Cast iron	Bronze	CF-8	CF-8M
7	Mechanical shaft seal	Carbon/ceramic	Carbon/ceramic	Carbon/ceramic	Carbon/ceramic	Carbon/ceramic	Carbon/ceramic
8	Suction flange	Cast iron	Cast iron	Cast iron	Bronze	CF-8	CF-8M
9	Delivery flange	Cast iron	Cast iron	Cast iron	Bronze	CF-8	CF-8M
10	Seal cover	Cast iron	Cast iron	Cast iron	Bronze	CF-8	CF-8M
11	Oil seal	NBR	NBR	NBR	NBR	NBR	NBR
12	Front bearing	Carbon/S.S	Carbon/S.S	Carbon/S.S	Carbon/S.S	Carbon/S.S	Carbon/S.S
13	Rear bearing	Fibre/Bronze	Fibre/Bronze	Fibre/Bronze	Fibre/Bronze	Fibre/Bronze	Fibre/Bronze
14	Bush	Bronze	Bronze	Bronze	Bronze	Bronze	Bronze
15	Lifting bolt	Carbon steel	Carbon steel	Carbon steel	S.S.304	S.S.304	S.S.316
16	Diaphragm	NBR	NBR	NBR	NBR	NBR	NBR
17	Foot	Carbon steel	Carbon steel	Carbon steel	Bronze	S.S.304	S.S.316
18	Strainer	Stainless steel	Stainless steel	Stainless steel	S.S.304	S.S.304	S.S.316
19	Impeller nut	S.S.410	S.S.410	S.S.410	S.S.304	S.S.304	S.S.316

Construction

Submerged centrifugal pumpset

LVM

Sectional drawing

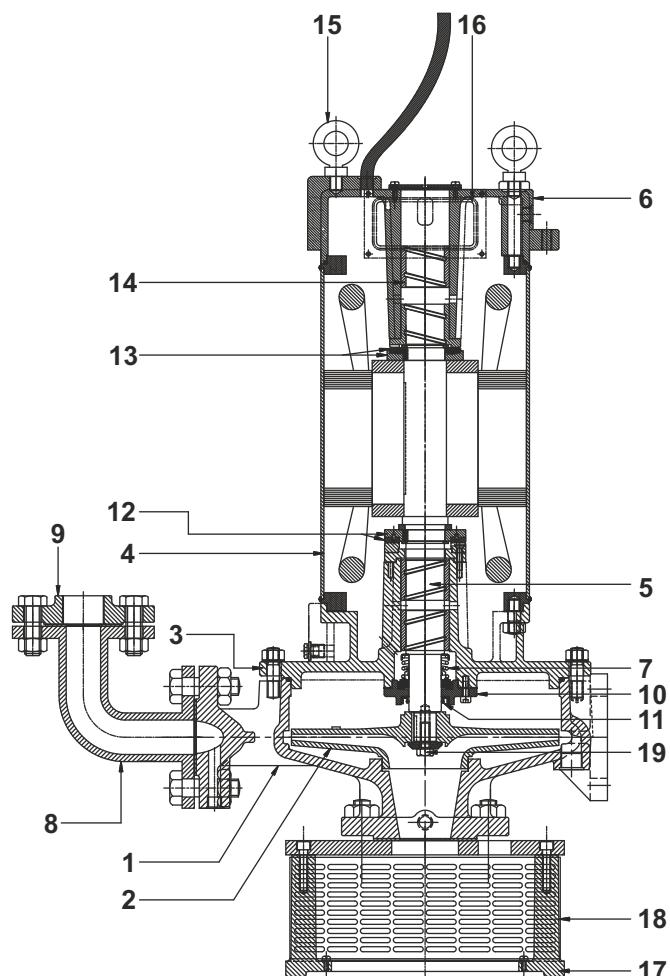


Fig. 3 LVM - Vertical pump

Materials

Pos.	Component	A-version	B-version	C-version	E-version	F-version	G-version
1	Volute casing	Cast iron	Cast iron	Cast iron	Bronze	CF-8	CF-8M
2	Impeller	Cast iron	Bronze	CF-8	Bronze	CF-8	CF-8M
3	Adaptor	Cast iron	Cast iron	Cast iron	Bronze	CF-8	CF-8M
4	Stator body	S.S.202	S.S.202	S.S.202	S.S.304	S.S.304	S.S.316
5	Pump shaft	S.S.410	S.S.410	S.S.410	S.S.304	S.S.304	S.S.316
6	Lower bearing housing	Cast iron	Cast iron	Cast iron	Bronze	CF-8	CF-8M
7	Mechanical shaft seal	Carbon/ceramic	Carbon/ceramic	Carbon/ceramic	Carbon/ceramic	Carbon/ceramic	Carbon/ceramic
8	Delivery flange elbow	Cast iron	Cast iron	Cast iron	Bronze	CF-8	CF-8M
9	Delivery flange	Cast iron	Cast iron	Cast iron	Bronze	CF-8	CF-8M
10	Seal cover	Cast iron	Cast iron	Cast iron	Bronze	CF-8	CF-8M
11	Oil seal	NBR	NBR	NBR	NBR	NBR	NBR
12	Front bearing	Carbon/S.S	Carbon/S.S	Carbon/S.S	Carbon/S.S	Carbon/S.S	Carbon/S.S
13	Rear bearing	Fibre/Bronze	Fibre/Bronze	Fibre/Bronze	Fibre/Bronze	Fibre/Bronze	Fibre/Bronze
14	Bush	Bronze	Bronze	Bronze	Bronze	Bronze	Bronze
15	Lifting bolt	Carbon steel	Carbon steel	Carbon steel	S.S.304	S.S.304	S.S.316
16	Diaphragm	NBR	NBR	NBR	NBR	NBR	NBR
17	Base	Cast iron	Cast iron	Cast iron	Bronze	S.S.304	S.S.316
18	Strainer	Stainless steel	Stainless steel	Stainless steel	S.S.304	S.S.304	S.S.316
19	Impeller nut	S.S.410	S.S.410	S.S.410	S.S.304	S.S.304	S.S.316

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