

PRODUCT SELECTION REPORT

Model:LVR5-10
Name: Stainless Steel Vertical
Multistage Pump



LEO GROUP PUMP CO.,LTD.



Project Name: Koslan

Personal Name: Koslan Company Name:

Company Address:

Website: www.leopump.com Product Model: LVR5-10

Company Name: LEO GROUP PUMP CO., LTD.

Product Recommendations

Flow(m^3/h): 5 Head(m): 53 Power(kW): 1.5

Based on provided information and product parameters, LEO PUMP recommends model: LVR5-10

Introduction

Application

Suitable for transferring liquids of low viscosity, non-inflammable and non-explosive, not containing solid particles or fibers;

Water supply & drainage for high-rise buildings, filtration and transfer at waterworks, pressure boosting in main pipe;

Washing and cleaning systems, boiler feeding, cooling water circulation.water treatment systems, auxiliary system, support equipment; Ultra-filtration systems, reverse-osmosis systems, distillation systems.separators, swimming pools;

Agricultural irrigation: sprinkler irrigation, drip-feed irrigation;

Food & beverage industry;

Fire-fighting system.

Operating Conditions

Low viscosity, non-inflammable and non-explosive liquids not containingsolid particles or fibers. The liquids must not chemically attack the pumpmaterials. When pumping liquids with a density or viscosity is higher thanthat of water, a motor with a higher output power rating shall be used.

Liquid temperature: - 20°C~+ 120°C;

Flow ranges:0.7- 240 m3/h; Liquid pH value: 4 - 10;

Max.ambient temperature: +40C;

Max. operating pressure: 33 bar;

Altitude: up to 1000m.

Motor

IE 2 motor (IE 3 motor optional);

Totally enclosed & fan-cooled;

Protection class: IP55;

Standard voltage: 50Hz 1x220V/3x380V

Minimum Inlet Pressure-NPSH

Calculation of the inlet pressure"H"is recommended in these situations;



The liquid temperature is high;

The flow is significantly higher than the rated flow;

Water is drawn from depths;

Water is drawn through long pipes;

Inlet conditions are poor.

Minimum Inlet Pressure

The following table shows the maximum permissible inlet pressure. However, the current inet pressure + the pressure against a closed valvemust always be lower than the Max. permissible operating pressure. If the maximum permissible operating pressure is exceeded, the bearingin the motor may be damaged and the life of the shaft seal reduced..

Product Parameters

Nameplate

Pump flow rate(m³/h): 5 Total manometric head H(m): 53
Pump efficiency(%): 52900

Technical

Motor power(kW):1.5Shaft Power(kW):1.16Curve tolerance:ISO 9906 AnnexAMaximum lift(m):67Maximum use flow(m³/h):8.5Impeller diameter(mm):73

Material

Impeller: AISI304 Diffuser: AISI304 Pump shaft: AISI316 Motor base: HT200 Pump cover: AISI304 Coupling: Powder metallurgy Pump barrel: AISI304 Flange: ZG35 Guard plate: AISI304 Water injection plug: AISI304 Filling plug: AISI304 Base: HT200 Mechanical seal: Graphite/Carbide/FKM/AISI304

Working conditions

Max. ambient temperature(°C): 40 Max. liquid temperature(°C): 120

Max. Operating Pressure: 25bar

Pumped medium:

Clean, thin, non-corrosive, non-flammable, non-explosive, Not easy vaporization, Liquid without solid particles and fibers. The liquid can not react with the pump material.

Installation

Inlet&Outlet Diameter: DN25 Connection standard: Flange connection

Motor

Motor phase:	Three phase	Protection class:	IP55
Motor poles:	2	Insulation class:	F
Motor power(kW):	1.5	Frequency(Hz):	50
Rated voltage(V):	380	Rated current(A):	3.22
Efficiency class:	IE2	Power factor:	0.84
Drive end bearing:	6205	Non-drive end bearing:	6205
Efficiency(%):	84.2	Starting current(A):	31



Weight/Packaging

Gross weight(kg): 43.9 Package size(mm): 890*264*324

Area Range Parameters

Max Q(m³/h):8.5Allowable Minimum (m³/h):2.5Allowable Maximum (m³/h):8.5Min Value Optimal area (m³/h):3.5

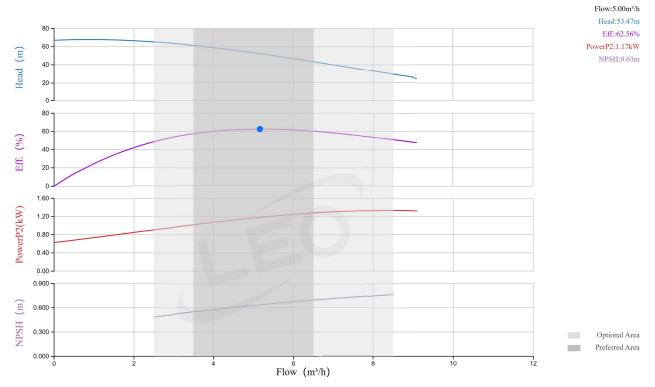
Max Value Optimal area (m³/h): 6.5







Performance Curve



Basic Parameters

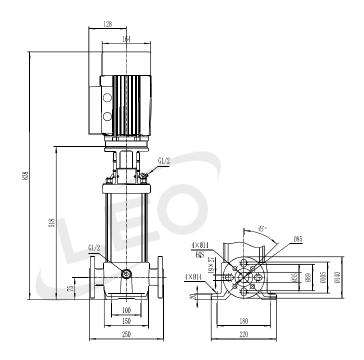
	Pump flow rate(m³/h)	Total manometric head H(m)	Pump efficiency(%)	Shaft power (kW)	NPSHr(m)
Rated Point	5.00	53.00	62.5	1.16	0.63
Work Point	5.00	53.47	62.56	1.17	0.63
Minimum Allowed Point	2.50	65.25	48.67	0.90	0.48
Maximum Allowed Point	8.50	29.20	50.90	1.33	0.77
Optimal Working Area (Small)	3.50	61.44	57.60	1.01	0.55
Optimal Working Area (Large)	6.50	43.46	60.17	1.27	0.69







Shape & Size

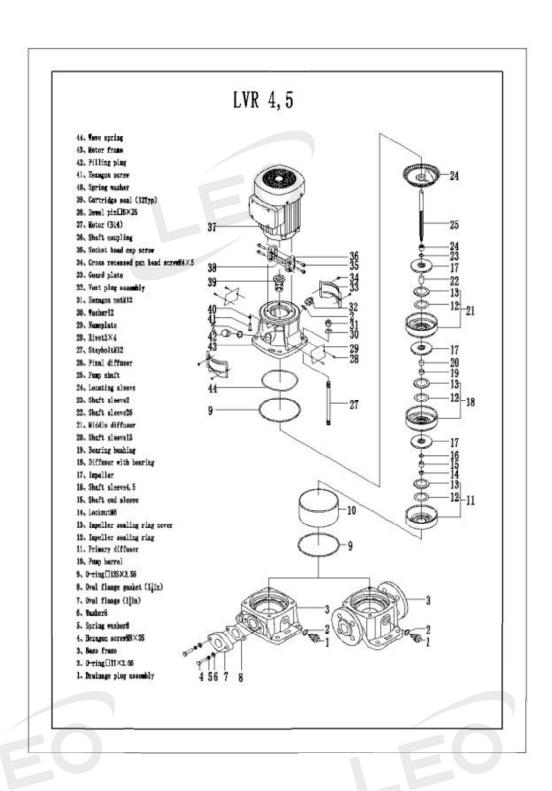








Exploded View





LEO PUMP GROUP CO.,LTD.

Meadquarter Address: No.505,23rd Street,Qiantang District,Hangzhou,Zhejiang,310020, P.R.China





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Base Address:

No.1,3rd Street,East Industry Center, Wenling,Zhejiang,317511,P.R.China No.9 Jiuhua Road,Jiuhua Eco-Tec Development Area,Yuhu District,Xiangtan,Hunan,411202,P.R.China No.19 Changshun Road,Changcheng Street,Lushunkou District,Dalian,Liaoning,116049,P.R.China

⊕ www.leopump.com
 ⋈ export@leopump.com
 ⋈ +86-576-8998 6556
 ⋈ +86-576-8998 9898

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