

	Product Information LVR4-8	Manufacturer	LEO
		Address	China,Zhejiang,Wenling
		Contact	0576-89988888
		Date	2023/10/16
Project Name		Client Name	Spaceport
		Client Addr.	Куйбышева 95
Item NO		Contacts	
		Contact	

Part NO.	50008876		
Product Picture		Note	
		LVR series verrtical multistage centrifugal pump is applicable to transfer liquids without solid particles<0.2mm and fiberslow viscositynon-inflammable non-explosive and not easy vaporization. Widely used in high-rise building water supply and drainageWater filtration and transportation, pipeline pressurization. High pressure flushing and cleaning system. Boiler feed water, cooling water circulation, water treatment system and other equipment supporting system. Ultrafiltration system, reverse osmosis system, distillation system, separator, swimming pool and other water treatment systems. Irrigation and drip irrigation systems in agriculture. food and beverage and fire fighting systems.	
Nameplate parameters			
flow	4 m³/h		
head	64 m		
speed	2900 rpm		
number of stages	8		
Technical			
Flow range (m³/h)	1.5-8m3/h		
Curve tolerance	ISO 9906 Annex A		
Head range (m)			
Material			
Impeller	AISI 304		
Diffuser	AISI 304		
Pump shaft	AISI 304		
Pump flange	HT200		
Motor base	HT200		
Coupling	ferrous powder metallurgy		
Pump barrel	AISI 304		
Working conditions			
Medium temperature (°C)	-20°C ~ +120°C		
Max. ambient temperature (°C)	+40°C		
Pumped medium	Clean water		
Working pressure	16bar		
Maximum inlet pressure	10bar		
Installation			
Connection method	Oval flange		
Inlet / outlet dia.	G1 1/4		
Motor			
Motor phase	Three phase		
Protection class	IP55		
Motor poles	2		
Insulation class	F		
Motor power (KW)	1.5kW		
Motor model	YX3-90S-2		
Frequency	50Hz		
Rated voltage (V)	380V		

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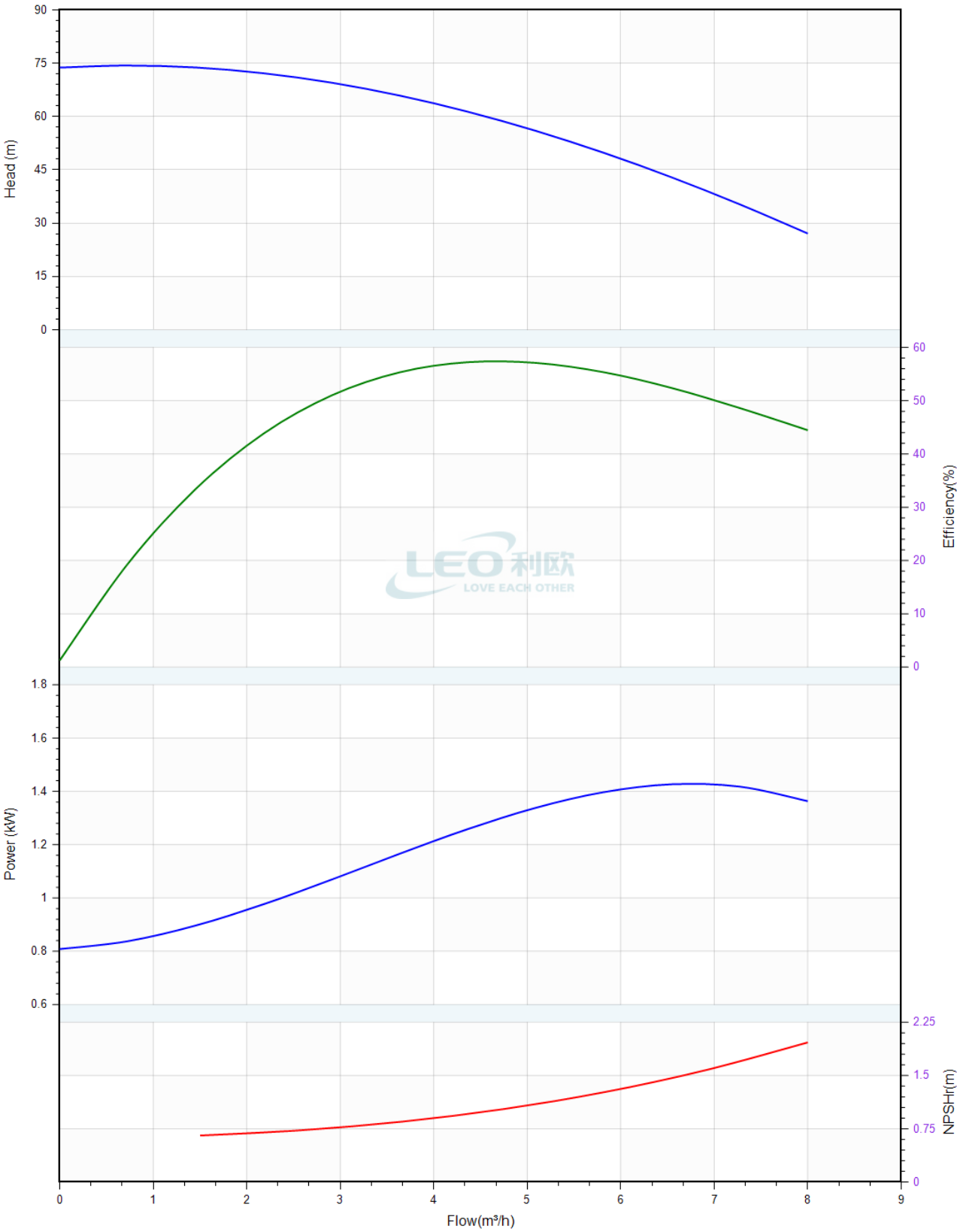
Rated current (A) 3.3A\\4A
Efficiency class IE2\\IE3
Power factor 0.84
Efficiency (%)

Weight/Packaging
Net weight (kg) 35.53
Gross weight (kg) 41.59
Package size 820*280*305mm



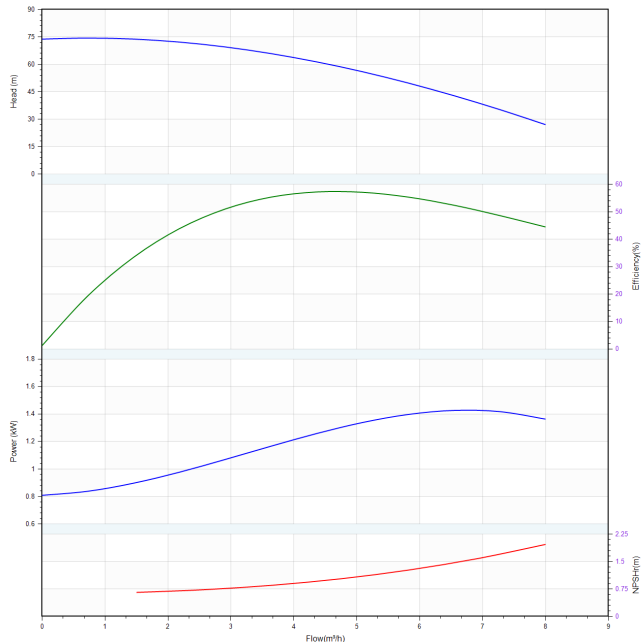
	Performance Curve LVR4-8	Manufacturer	LEO
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The hydraulic performance curve have been tested with Water at $^{\circ}\text{C}$, density 1000kg/m^3 , and at 1 bar atmospheric pressure. GB32162016 Grande 3B



	Pump Technical Parameters LVR4-8	Manufacturer	LEO
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Rated parameters	
Pump model	LVR4-8
Part NO.	50008876
Rated flow	4 m³/h
Rated head	64 m
Rated efficiency (%)	57
Power (kW)	1.22
Speed (rpm)	2900
Medium	
Pumped medium	Water
Working temperature (°C)	20
Medium density (kg/m³)	1000
Viscosity (mm²/s)	1

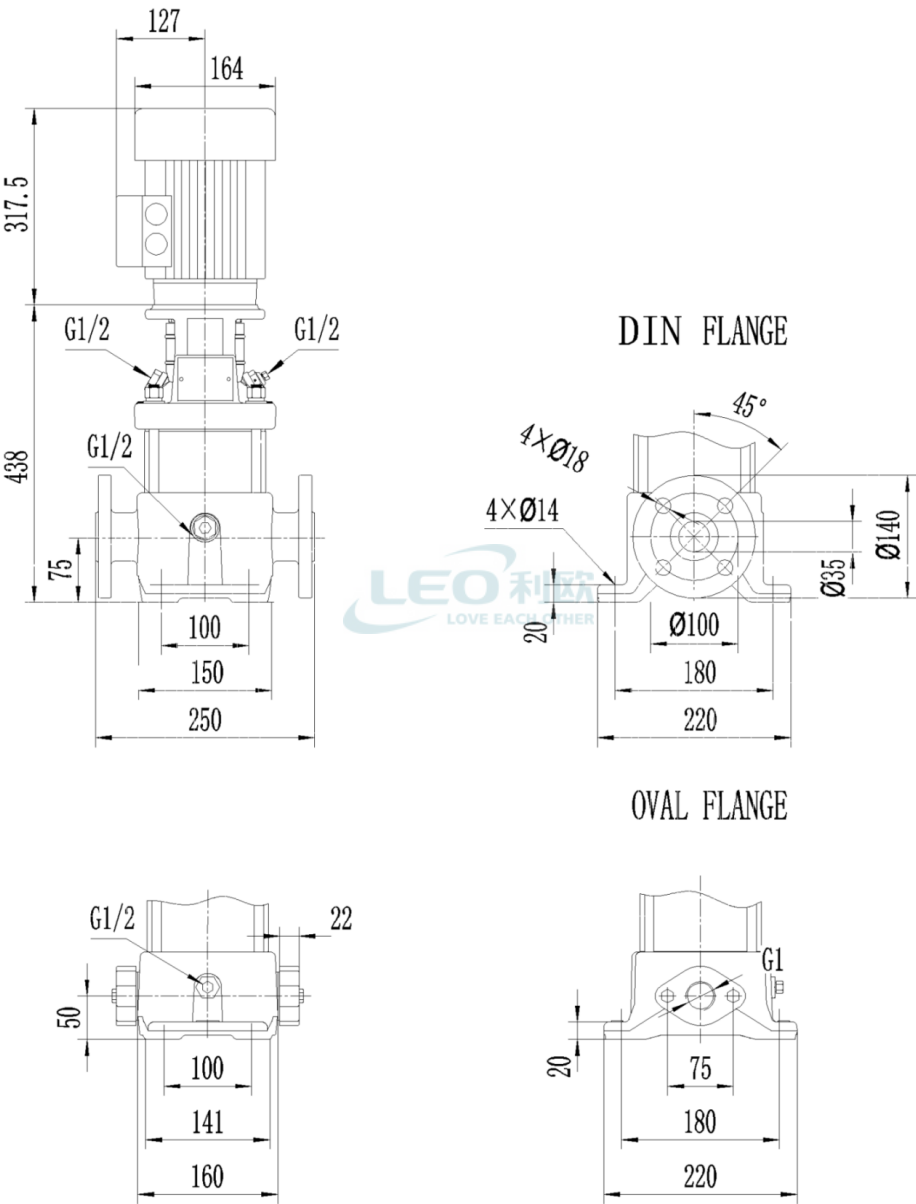


The graph displays four performance metrics for the LVR4-8 pump against flow rate (m³/h) from 0 to 9. The left y-axis for Head (m) ranges from 0 to 90. The right y-axis for Efficiency (%) ranges from 0 to 60. The bottom right y-axis for Power (kW) ranges from 0.0 to 1.8. The bottom right y-axis for NPSH(m) ranges from 0 to 2.25. The Head curve (blue) starts at 75m and decreases to 30m. The Efficiency curve (green) starts at 0% and peaks at 57% at 4 m³/h. The Power curve (blue) starts at 0.0 kW and increases to 1.22 kW at 4 m³/h. The NPSH curve (red) starts at 0.25m and increases to 1.5m at 8 m³/h.

Flow (m³/h)	Head (m)	Efficiency (%)	Power (kW)	NPSH (m)
0	75	0	0.0	0.25
1	74	25	0.1	0.25
2	72	45	0.2	0.25
3	68	55	0.4	0.3
4	64	57	1.22	0.4
5	58	55	1.4	0.5
6	50	50	1.5	0.7
7	40	45	1.5	1.0
8	30	40	1.4	1.5



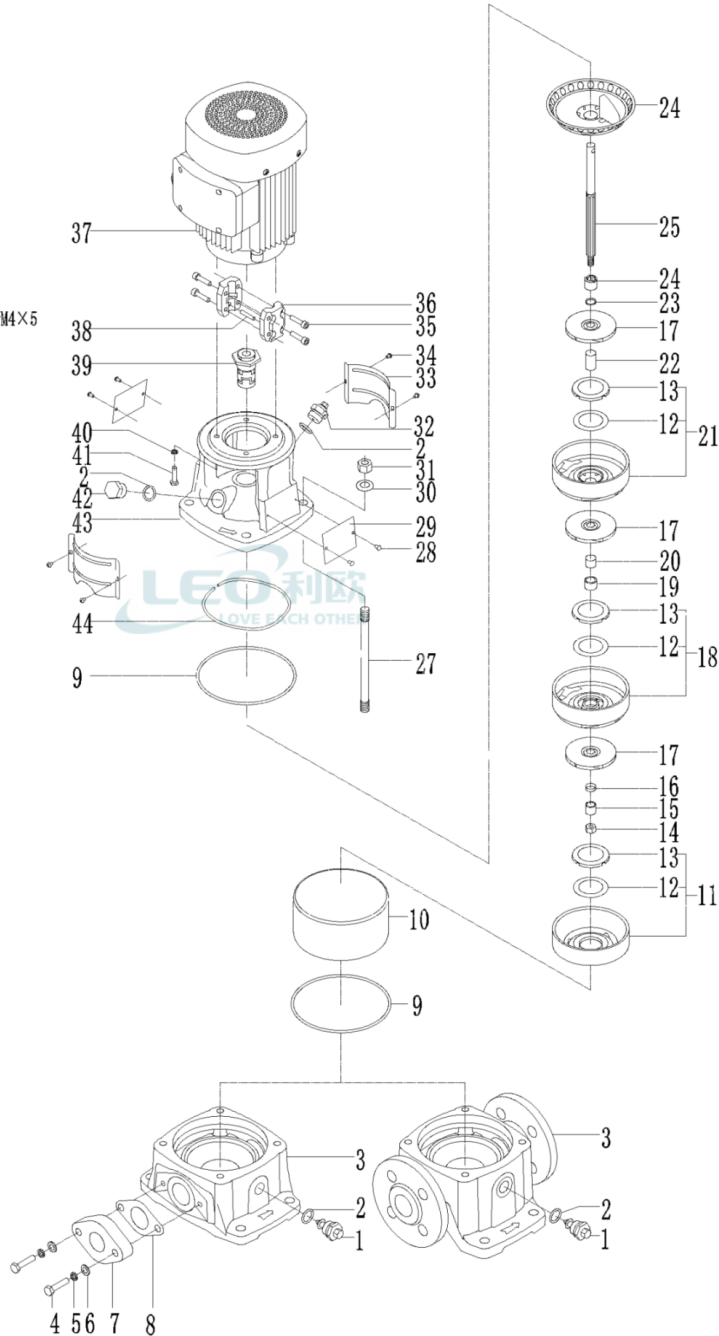
	Dimension Drawing LVR4-8	Manufacturer	LEO
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	Structure picture LVR4-8	Manufacturer	LEO
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LVR 4,5

- 44, Wave spring
- 43, Motor base
- 42, Filling plug
- 41, Hexagon screw
- 40, Spring washer
- 39, Cartridge seal (type 12)
- 38, Straight pin $\varnothing 5 \times 26$
- 37, Motor (B14)
- 36, Half-coupling
- 35, Socket head cap crew
- 34, Cross recessed pan head screw $M4 \times 5$
- 33, Guarding plate
- 32, Vent plug assembly
- 31, Locknut M12
- 30, Gasket12
- 29, Nameplate
- 28, Rivet 2×4
- 27, Staybolt M12
- 26, Final diffuser
- 25, Shaft
- 24, Orientation cover
- 23, Sleeve 2
- 22, Sleeve 26
- 21, Medium diffuser
- 20, Sleeve 13
- 19, Bearing ring
- 18, Diffuser with bearing
- 17, Impeller
- 16, Sleeve 4.5
- 15, Splined bearing
- 14, Locknut M8
- 13, Wearing ring cover
- 12, Wearing ring
- 11, Primary diffuser
- 10, Pump barrel
- 9, O-ring $\varnothing 135 \times 3.55$
- 8, Gasket ($1\frac{1}{4}$ ")
- 7, Oval flange ($1\frac{1}{4}$ ")
- 6, Gasket 8
- 5, Spring washer 8
- 4, Hexagon screw $M8 \times 35$
- 3, Base
- 2, O ring $\varnothing 17 \times 2.65$
- 1, Drainage plug assembly



	Physical picture LVR4-8	Manufacturer	LEO
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