

	Product Information LPP50-70-7.5/2	Manufacturer	LEO
		Address	China,Zhejiang,Wenling
		Contact	0576-89988888
		Date	2023/10/23
Project Name		Client Name	Spaceport
		Client Addr.	Куйбышева 95 Б
Item NO		Contacts	
		Contact	

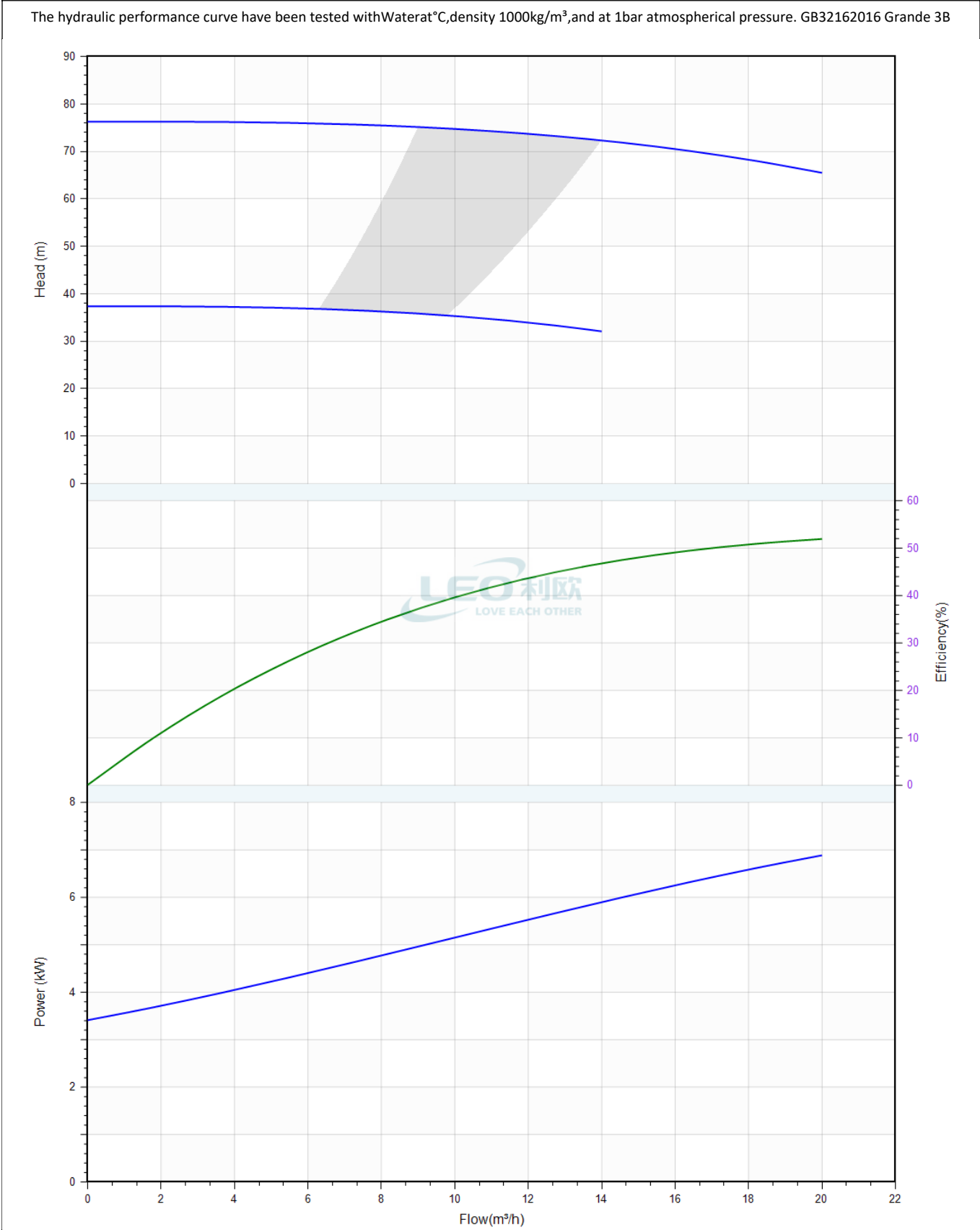
Part NO.	LPP50-70-7.5/2		
Product Picture		Note	
		This series products are vertical in-line centrifugal pump. Standard configuration Mechanical seal standard motor. In daily maintenance the motor and impeller can be removed from the pump body for the maintenance and repair no need to remove pump body from the pipeline. Optimization design of impeller by CFD fluid simulation and analysis technology less axial force longer bearing life. Appearance designed by Italy professional shape design team the most advanced modular design concept. The surface of the whole machine adopts electrophoretic coating process, have better anti-corrosion effect.	
Nameplate parameters			
flow	12.5 m³/h		
head	70 m		
speed	2950 rpm		
number of stages	1		
Technical			
Curve tolerance	ISO9906 AnnexA		
Maximum lift (m)	73		
Minimum usage flow (m³/ h)	2		
Maximum use flow (m³/ h)	20		
Material			
Impeller	HT200		
Pump inlet	HT200		
Pump shaft	AISI304		
Mechanical seal	SiC/C		
O-ring	NBR		
Working conditions			
Max. ambient temperature (°C)	40		
Max. liquid temperature (°C)	90		
Pumped medium	Thin, clean, non corrosive, non flammable and explosive liquid without solid particles and fibers.		
Working pressure	16bar		
Installation			
Inlet & Outlet Diameter	DN50		
Connection standard	DIN		
Motor			
Motor phase	Three phase		
Protection class	IP55		
Motor poles	2		
Insulation class	F		
Motor power (KW)	7.5KW		
Frequency	50		
Rated voltage (V)	380		
Rated current (A)	14.3717474265847		
Efficiency class	IE3		
Power factor	0.88		

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Drive end bearing	7308
Non-drive end bearing	6306
Efficiency (%)	90.1
Weight/Packaging	
Gross weight (kg)	112.8
Package size	795*490*430

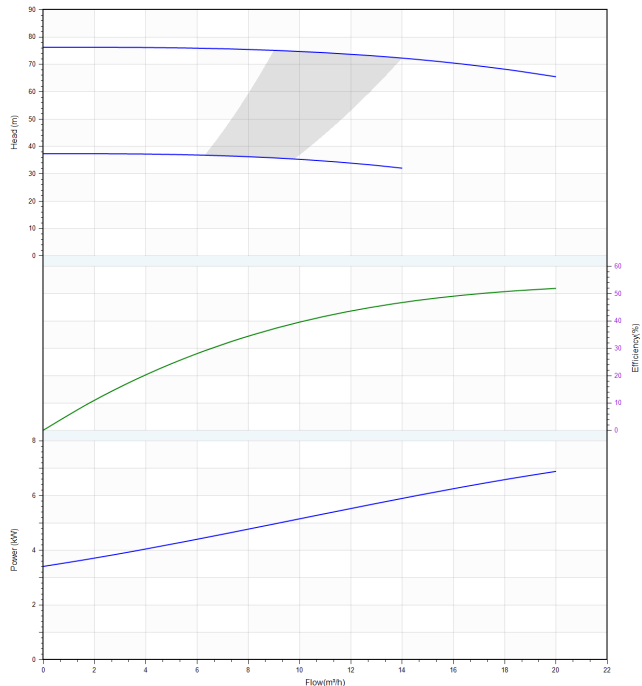


	Performance Curve LPP50-70-7.5/2	Manufacturer	LEO
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	Pump Technical Parameters LPP50-70-7.5/2	Manufacturer	LEO
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Rated parameters	
Pump model	LPP50-70-7.5/2
Part NO.	LPP50-70-7.5/2
Rated flow	12.5 m³/h
Rated head	70 m
Rated efficiency (%)	44
Power (kW)	5.42
Speed (rpm)	2950
Max impeller diameter (mm)	234
Medium	
Pumped medium	Water
Working temperature (°C)	20
Medium density (kg/m³)	1000
Viscosity (mm²/s)	1

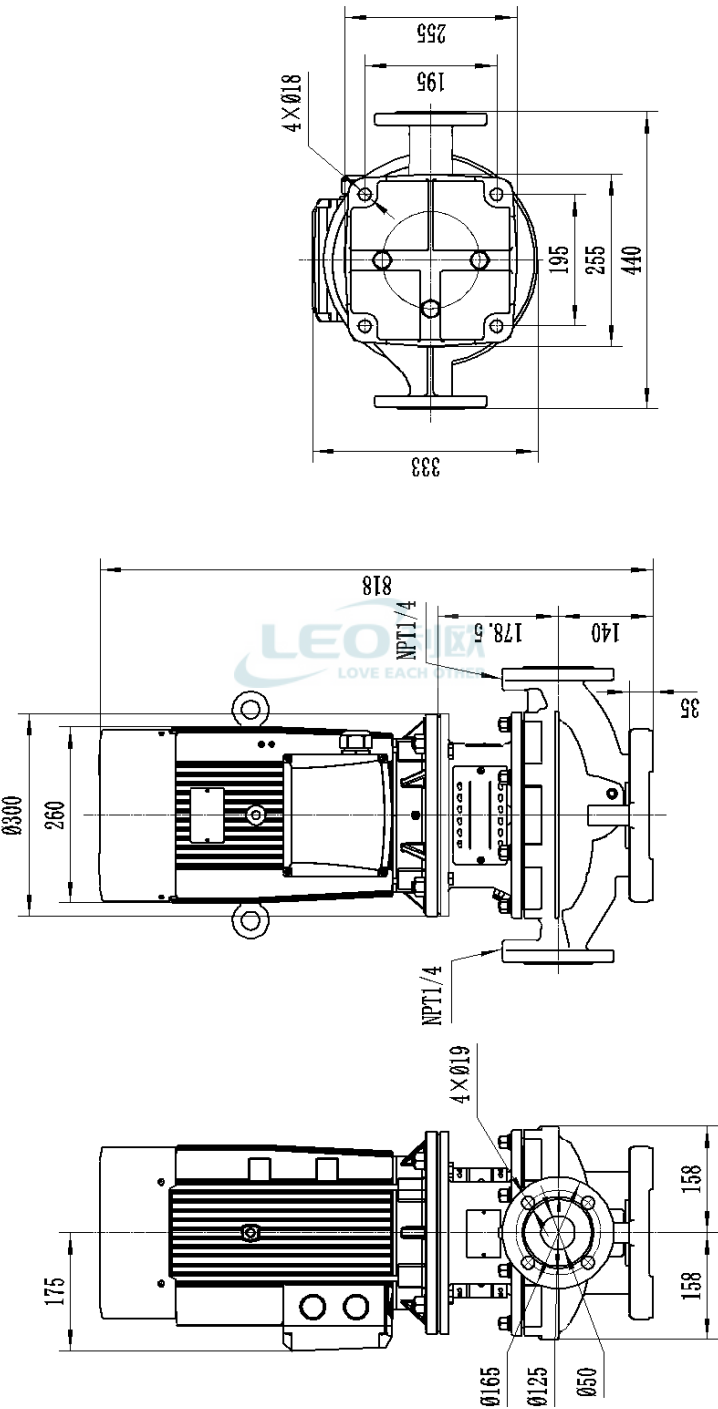


The graph displays the performance characteristics of the LPP50-70-7.5/2 pump. The x-axis represents Flow in m³/h, ranging from 0 to 22. The left y-axis represents Head in meters (m), ranging from 0 to 90. The right y-axis represents Efficiency in percent (%), ranging from 0 to 60. The bottom y-axis represents Power in kilowatts (kW), ranging from 0 to 8. The head curve (blue) starts at approximately 75 m at 0 m³/h and decreases to about 65 m at 20 m³/h. The efficiency curve (green) starts at approximately 10% at 0 m³/h and increases to about 44% at 20 m³/h. The power curve (purple) starts at approximately 3.5 kW at 0 m³/h and increases to about 7.5 kW at 20 m³/h. A shaded gray region indicates the operating range, bounded by the head curve and the efficiency curve, starting from approximately 6 m³/h and ending at 14 m³/h.

Flow (m³/h)	Head (m)	Efficiency (%)	Power (kW)
0	75	10	3.5
2	74	15	3.8
4	73	20	4.1
6	72	25	4.4
8	71	30	4.7
10	70	35	5.0
12	69	40	5.3
14	68	44	5.6
16	67	45	5.9
18	66	46	6.2
20	65	47	6.5



	Installation picture LPP50-70-7.5/2	Manufacturer	LEO
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	Physical picture LPP50-70-7.5/2	Manufacturer	LEO
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