

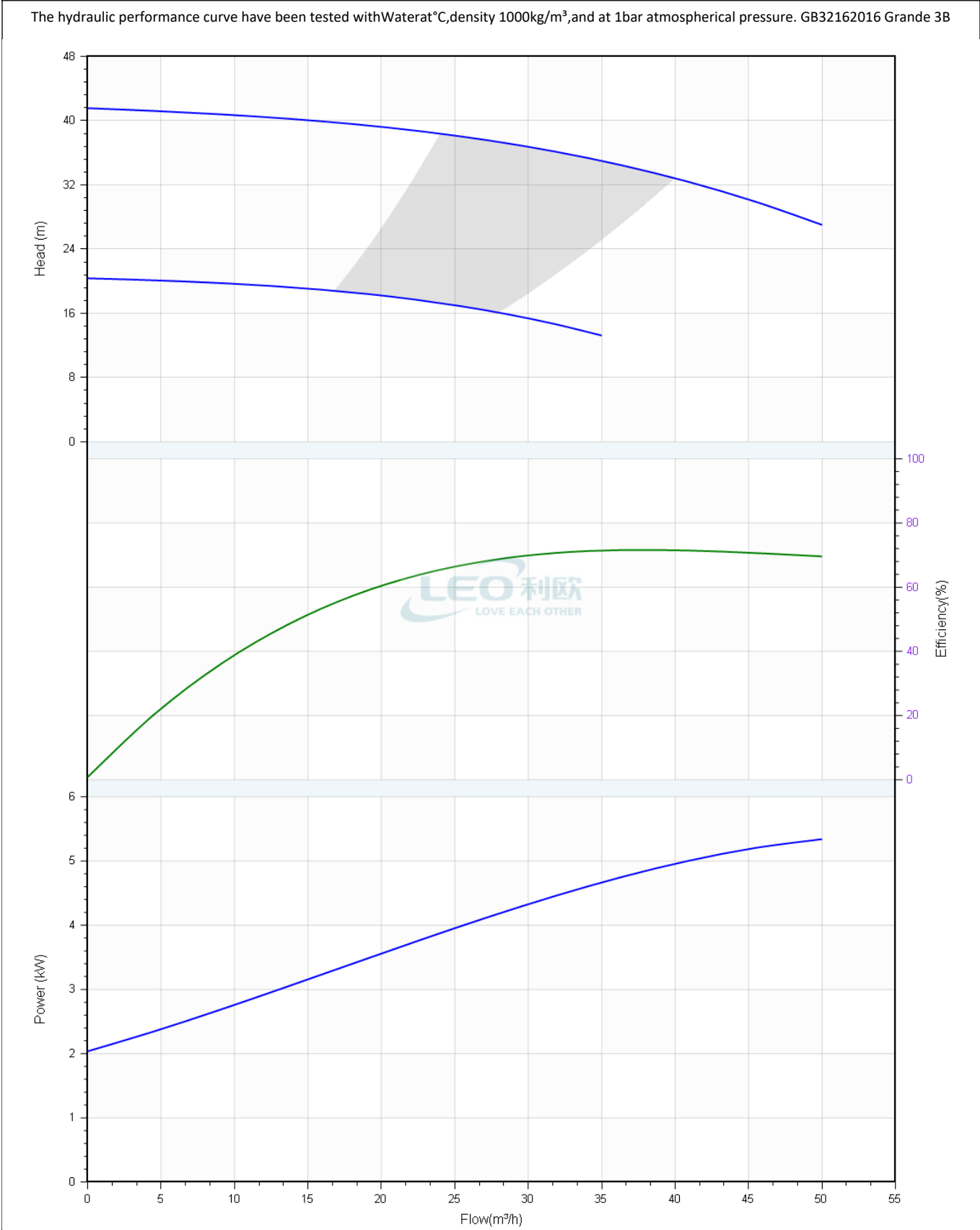
	Product Information LPP50-34-5.5/2	Manufacturer	LEO
		Address	China,Zhejiang,Wenling
		Contact	0576-89988888
		Date	2023/11/09
Project Name		Client Name	Spaceport
		Client Addr.	Куйбышева 95
Item NO		Contacts	
		Contact	79965752218

Part NO.	LPP50-34-5.5/2		
Product Picture		Note	
		<p>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.</p>	
Nameplate parameters			
flow	35 m³/h		
head	34 m		
speed	2900 rpm		
number of stages	1		
Technical			
Curve tolerance	IS09906 AnnexA		
Maximum lift (m)	42		
Minimum usage flow (m³/ h)	4		
Maximum use flow (m³/ h)	50		
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)	5.5KW		
Frequency	50		
Rated voltage (V)	380		
Rated current (A)	10.6456194876593		
Efficiency class	IE3		
Power factor	0.88		

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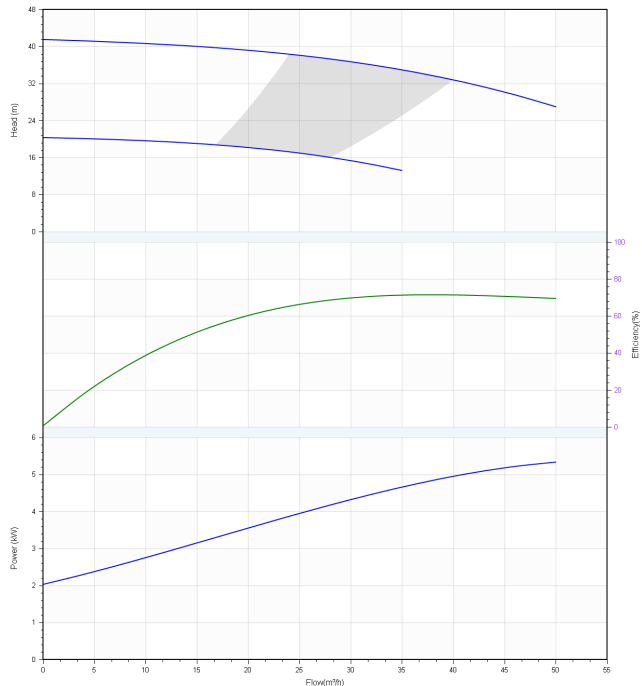
Drive end bearing	7308
Non-drive end bearing	6306
Efficiency (%)	89.2
Weight/Packaging	
Gross weight (kg)	89.8
Package size	795*490*430
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	Performance Curve LPP50-34-5.5/2	Manufacturer	LEO
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	Pump Technical Parameters LPP50-34-5.5/2	Manufacturer	LEO
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Rated parameters	
Pump model	LPP50-34-5.5/2
Part NO.	LPP50-34-5.5/2
Rated flow	35 m³/h
Rated head	34 m
Rated efficiency (%)	71.5
Power (kW)	4.54
Speed (rpm)	2900
Max impeller diameter (mm)	175
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 LPP50-34-5.5/2 pump. The x-axis represents Flow in m³/h, ranging from 0 to 55. The left y-axis represents Head in meters (m), ranging from 0 to 40. The right y-axis represents Efficiency in percent (%), ranging from 0 to 100. The bottom y-axis represents Power in kilowatts (kW), ranging from 0 to 5. The blue curve shows the head decreasing from approximately 42 m at 0 m³/h to 28 m at 50 m³/h. The green curve shows efficiency increasing from 0% at 0 m³/h to a peak of about 71.5% at 35 m³/h, then slightly decreasing. The purple curve shows power increasing from 0 kW at 0 m³/h to 4.54 kW at 35 m³/h, then slightly decreasing. A shaded gray region highlights the operating range, bounded by the head curve, the efficiency curve, and the power curve, starting from approximately 15 m³/h and ending at 35 m³/h.

Flow (m³/h)	Head (m)	Efficiency (%)	Power (kW)
0	42	0	0
5	41	10	0.5
10	40	25	1.0
15	39	40	1.5
20	38	55	2.0
25	37	65	2.5
30	36	70	3.0
35	35	71.5	4.54
40	34	70	4.5
45	33	68	4.5
50	32	65	4.5



	Physical picture LPP50-34-5.5/2	Manufacturer	LEO
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