

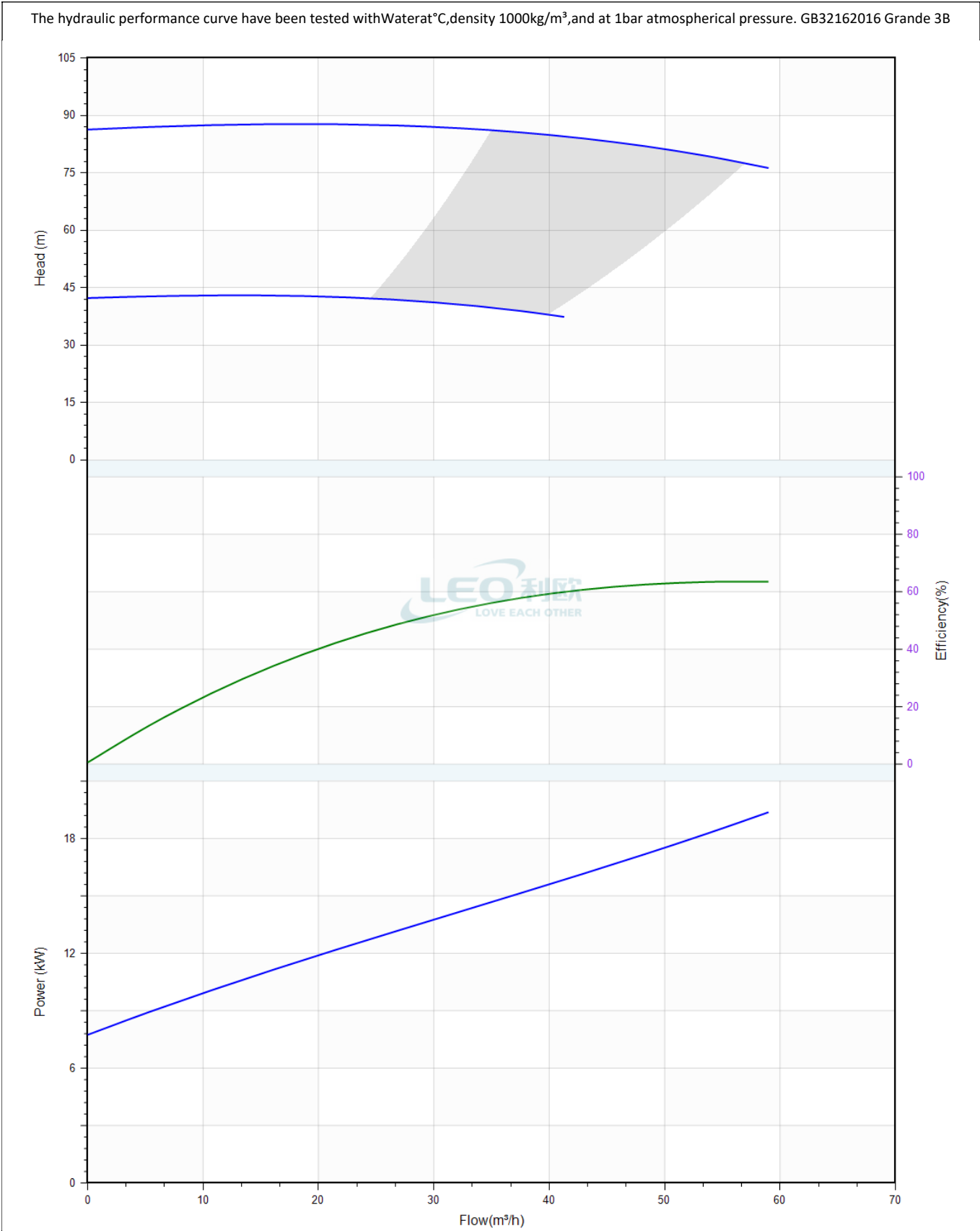
	Product Information LPP50-81-22/2	Manufacturer	LEO
		Address	China,Zhejiang,Wenling
		Contact	0576-89988888
		Date	2023/10/23
Project Name		Client Name	Spaceport
		Client Addr.	Куйбышева 95 Б
Item NO		Contacts	
		Contact	

Part NO.	LPP50-81-22/2		
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	50 m³/h		
head	81 m		
speed	2950 rpm		
number of stages	1		
Technical			
Curve tolerance	ISO9906 AnnexA		
Maximum lift (m)	88		
Minimum usage flow (m³/ h)	5		
Maximum use flow (m³/ h)	59		
			
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)	22KW		
Frequency	50		
Rated voltage (V)	380		
Rated current (A)	40.5143351055502		
Efficiency class	IE3		
Power factor	0.89		

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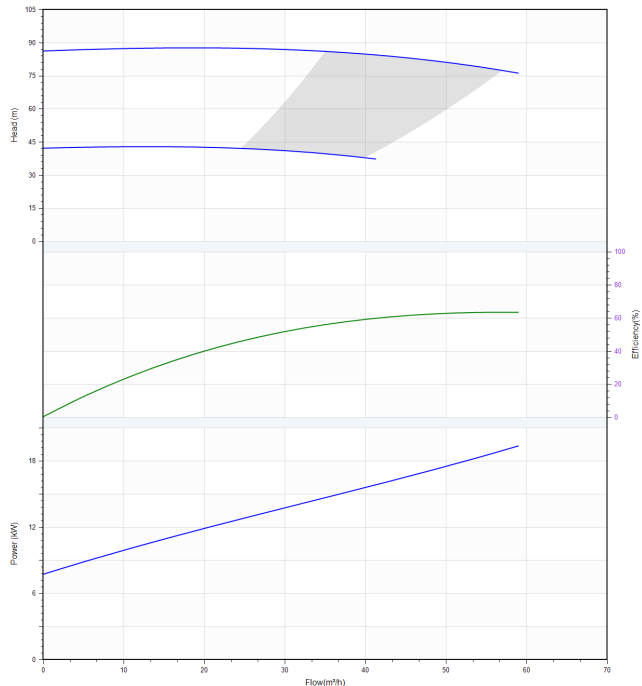
Drive end bearing	7311
Non-drive end bearing	7311
Efficiency (%)	92.7
Weight/Packaging	
Gross weight (kg)	274
Package size	1060*510*640
	

	Performance Curve LPP50-81-22/2	Manufacturer	LEO
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	Pump Technical Parameters LPP50-81-22/2	Manufacturer	LEO
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Rated parameters	
Pump model	LPP50-81-22/2
Part NO.	LPP50-81-22/2
Rated flow	50 m³/h
Rated head	81 m
Rated efficiency (%)	63
Power (kW)	17.5
Speed (rpm)	2950
Max impeller diameter (mm)	255
Medium	
Pumped medium	Water
Working temperature (°C)	20
Medium density (kg/m³)	1000
Viscosity (mm²/s)	1

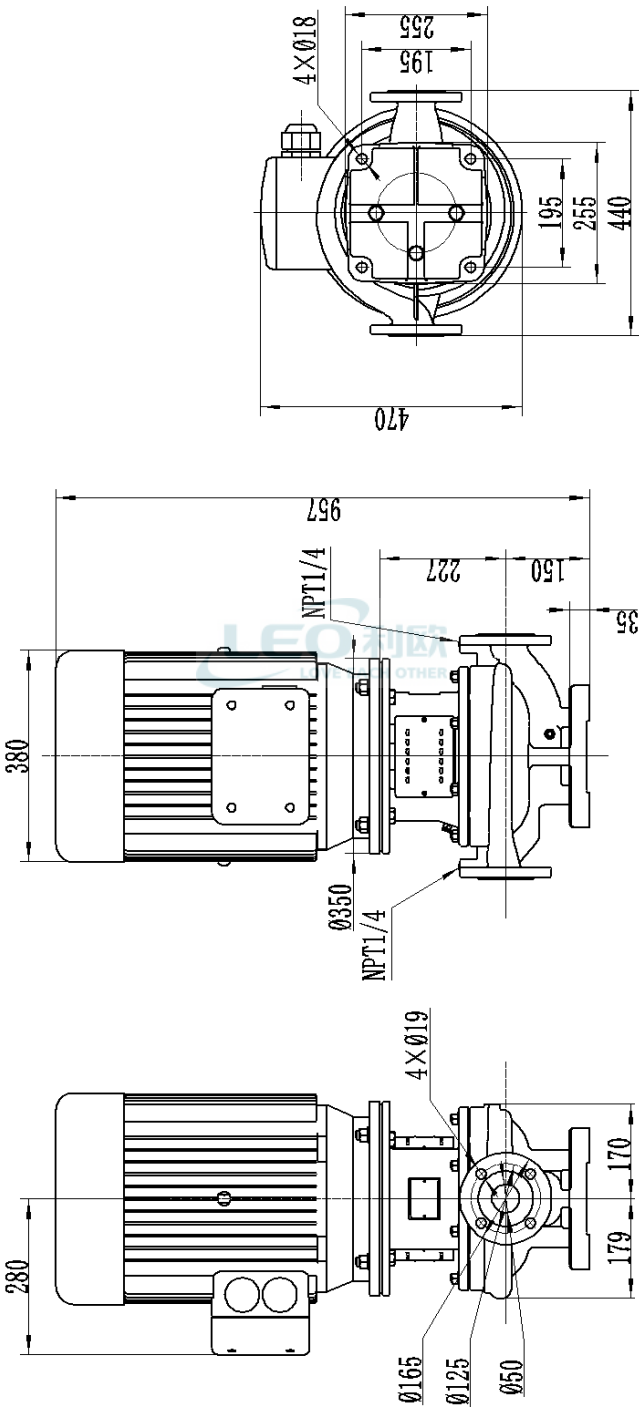


The graph displays three performance metrics against flow rate (m³/h) for the LPP50-81-22/2 pump. The top panel shows Head (m) on the left y-axis (0 to 100) and Efficiency (%) on the right y-axis (0 to 100). The middle panel shows Power (kW) on the left y-axis (0 to 18). The bottom panel shows Flow (m³/h) on the x-axis (0 to 70). The head curve (blue) starts at approximately 85 m at 0 m³/h and decreases to about 75 m at 60 m³/h. The efficiency curve (green) starts at approximately 55% at 0 m³/h and increases to about 63% at 60 m³/h. The power curve (blue) starts at approximately 5 kW at 0 m³/h and increases to about 17.5 kW at 60 m³/h. A shaded gray region indicates the operating range, bounded by the head curve, the efficiency curve, and a vertical line at 40 m³/h.

Flow (m³/h)	Head (m)	Efficiency (%)	Power (kW)
0	85	55	5
10	84	58	6.5
20	83	60	8
30	82	62	10
40	81	63	12
50	80	63	14
60	75	63	17.5



	Installation picture LPP50-81-22/2	Manufacturer	LEO
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	Structure picture LPP50-81-22/2	Manufacturer	LEO
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LPP



29	Hex nut	
28	Washer	
27	Motor	
26	Hex head bolt	
25	Clamp ring	45
24	Pump shaft	304/45
23	Key	304
22	Release valve	304
21	Hex nut	HPb59-1
20	Washer	
19	Hex head bolt	
18	Motor frame	HT200
17	Rivet	
16	Nameplate	
15	Guard plate	304
14	Screw	
13	Mechanical seal	SiC/C
12	Impeller	HT200
11	Washer	304
10	Spring washer	304
9	Hex nut	304
8	O-ring	NBR
7	Double-head stud A type	
6	Hexagonal socket head plug	
5	Pump body	HT200
4	Hexagonal socket head plug	
3	Baseplate	HT200
2	Spring washer	
1	Hex head bolt	
No.	Part	Material

	Physical picture LPP50-81-22/2	Manufacturer	LEO
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