

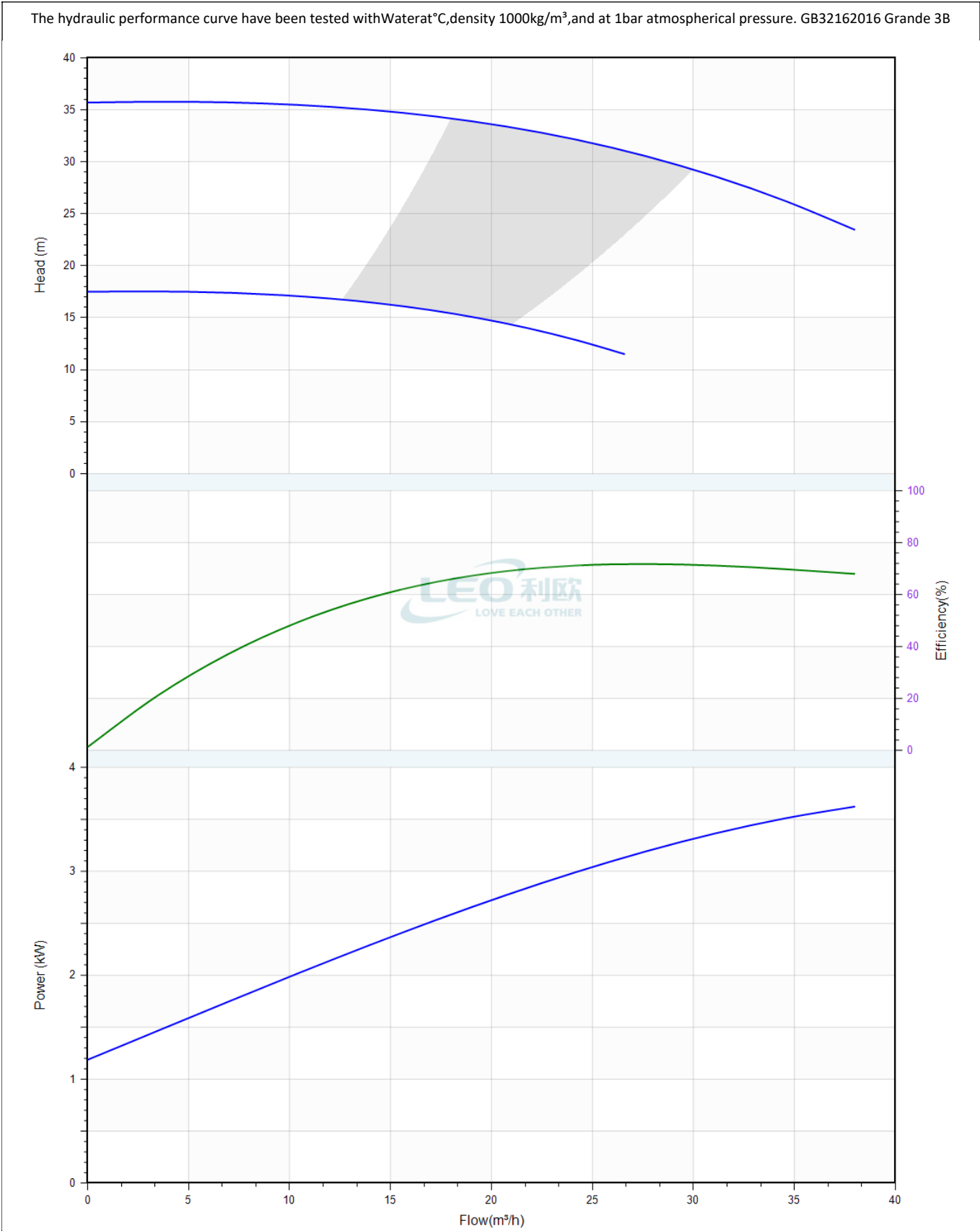
	Product Information LPP40-31-4/2	Manufacturer	LEO
		Address	China,Zhejiang,Wenling
		Contact	0576-89988888
		Date	2023/10/23
Project Name		Client Name	Spaceport
		Client Addr.	Куйбышева 95 Б
Item NO		Contacts	
		Contact	

Part NO.	LPP40-31-4/2		
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	26 m³/h		
head	31 m		
speed	2900 rpm		
number of stages	1		
Technical			
Curve tolerance	ISO9906 AnnexA		
Maximum lift (m)	35		
Minimum usage flow (m³/ h)	3		
Maximum use flow (m³/ h)	38		
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	DN40		
Connection standard	DIN		
Motor			
Motor phase	Three phase		
Protection class	IP55		
Motor poles	2		
Insulation class	F		
Motor power (KW)	4KW		
Frequency	50		
Rated voltage (V)	380		
Rated current (A)	7.83893722669865		
Efficiency class	IE3		
Power factor	0.88		

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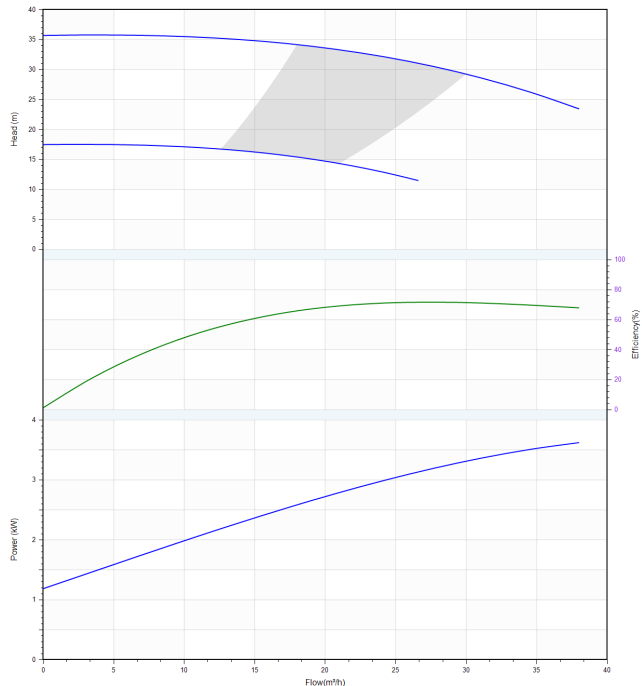
Drive end bearing	6206
Non-drive end bearing	6206
Efficiency (%)	88.1
Weight/Packaging	
Gross weight (kg)	69.5
Package size	735*405*350
	

	Performance Curve LPP40-31-4/2	Manufacturer	LEO
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	Pump Technical Parameters LPP40-31-4/2	Manufacturer	LEO
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Rated parameters	
Pump model	LPP40-31-4/2
Part NO.	LPP40-31-4/2
Rated flow	26 m³/h
Rated head	31 m
Rated efficiency (%)	71.5
Power (kW)	3.07
Speed (rpm)	2900
Max impeller diameter (mm)	164
Medium	
Pumped medium	Water
Working temperature (°C)	20
Medium density (kg/m³)	1000
Viscosity (mm²/s)	1

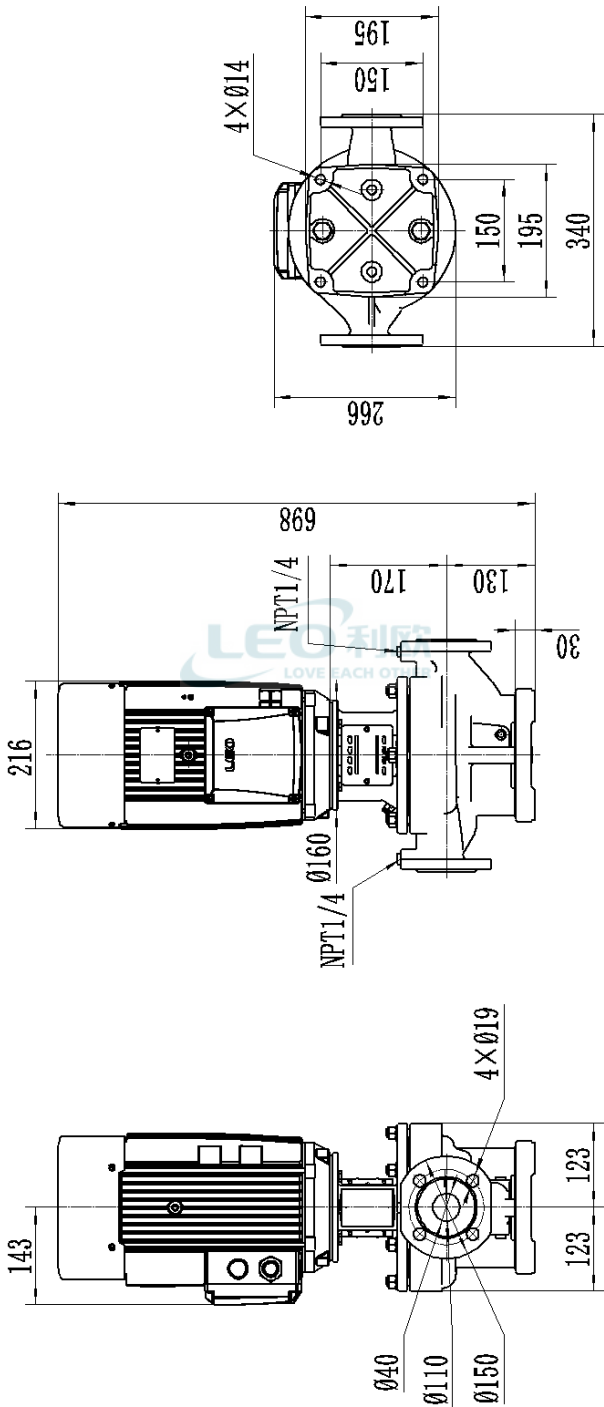


The graph displays the performance characteristics of the LPP40-31-4/2 pump. The x-axis represents Flow in m³/h, ranging from 0 to 40. The left y-axis represents Head in meters (m), ranging from 0 to 40. The right y-axis represents Efficiency in percent (%), ranging from 0 to 100. The bottom y-axis represents Power in kilowatts (kW), ranging from 0 to 4. The head curve (blue) starts at approximately 35 m at 0 m³/h and decreases to about 23 m at 38 m³/h. The efficiency curve (green) starts at approximately 40% at 0 m³/h, peaks at about 71.5% at 26 m³/h, and then slightly decreases. The power curve (purple) starts at approximately 1.2 kW at 0 m³/h and increases to about 3.5 kW at 38 m³/h. A shaded gray region indicates the operating range, bounded by the head curve and the efficiency curve, starting from approximately 15 m³/h and ending at 30 m³/h.

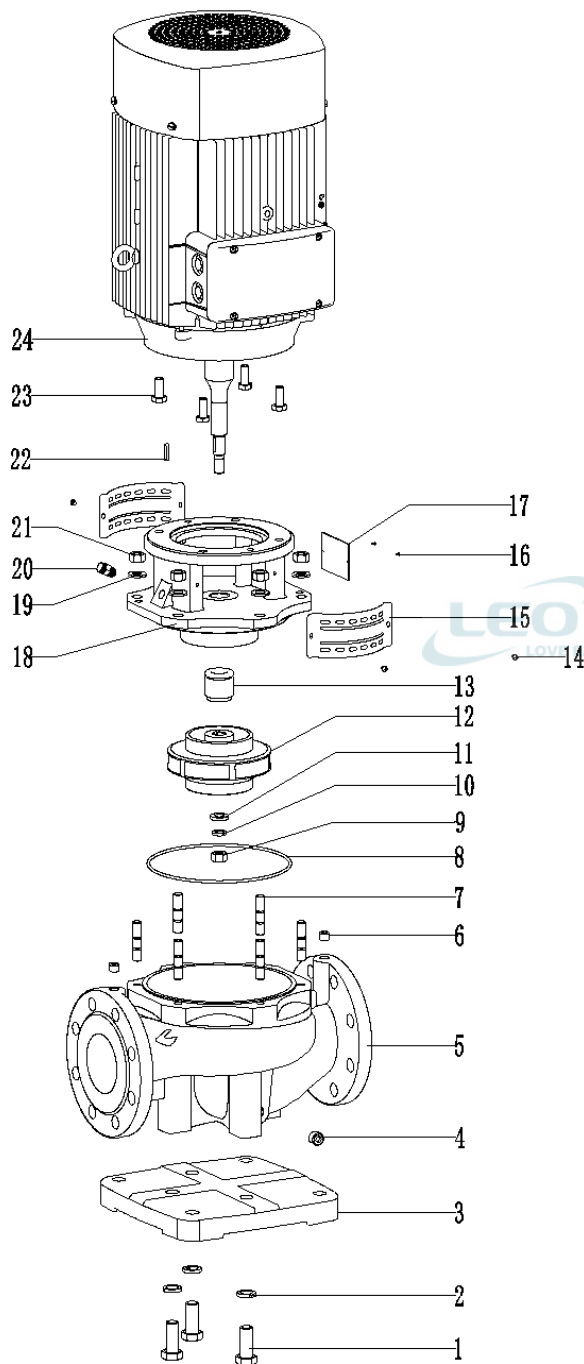
Flow (m³/h)	Head (m)	Efficiency (%)	Power (kW)
0	35	40	1.2
5	34	55	1.5
10	33	65	1.8
15	32	70	2.1
20	31	71	2.4
25	30	71.5	2.7
30	29	71	3.0
35	27	70	3.3
38	23	69	3.5



	Installation picture LPP40-31-4/2	Manufacturer	LEO
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	Structure picture LPP40-31-4/2	Manufacturer	LEO
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24	Motor	
23	Hex head bolt	
22	Key	304
21	Hex nut	
20	Release valve	HPb59-1
19	Washer	
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 LPP40-31-4/2	Manufacturer	LEO
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