LUBMANN
Centralized Lubrication System

Amtsgericht Duesseldorf HRB 76903 Steuernummer: DE316746274 Bankverbindung: Deutsche Bank IBAN: DE77 3007 0010 0058 6958 00 BIC/Swift: DEUTDEDDXXX

LUBMANN
Centralized Lubrication System

Our Brands

Lubmann

Lubmann belongs to AUTOL Group, which locates in Duisburg, Germany since 2015 and provides you the world's leading lubrication equipment made in Germany – from manual greasing devices and tools to Automatic Lubrication Systems.

AUTOL

AUTOL is an Automatic Lubrication System Solution supplier which established in 2005 in Zhengzhou, China and provides a lot of world class's equipment/machinery manufacturers the high-performance lubrication solutions.

AUTOL Group

Both AUTOL and Lubmann systems are available through our global network of lubrication experts, offering you world-class installation and ongoing support on a local level – today and into the future With the power of this network, and more than 200 years of combined friction management experience, we can help you improve machine reliability, reduce maintenance, increase productivity, enhance safety and optimize manpower resources

In this document, we present the contents only for Lubmann products, including specifications, order information and so on. Any information from AUTOL products please ask your local AUTOL/Lubmann dealer.

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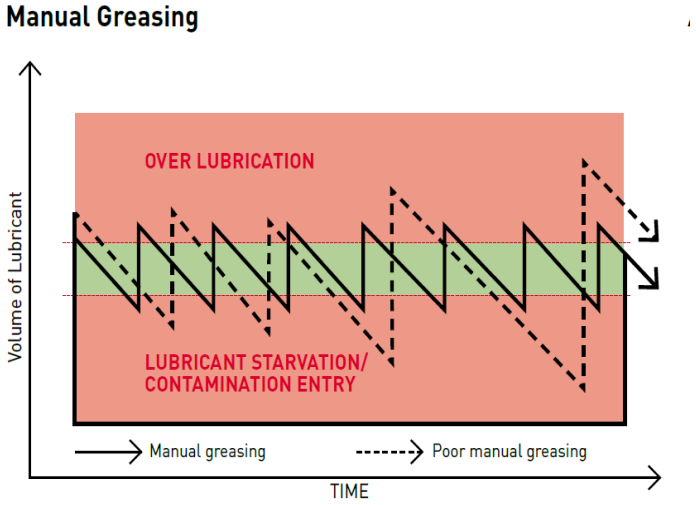
General Knowledge of Automatic Lubrication System

Manual Lubrication

- **Interval:** long and irregular.
- **Grease used:** too much per time and easy to degrade.
- **Friction pairs:** either grease excess or grease starvation.
- **Manual labor:** intensive and uncontrollable.
- **External dirt:** easy to enter lube points.
- **Operation time:** machines stop.
- **Point location:** some are not easy to access.

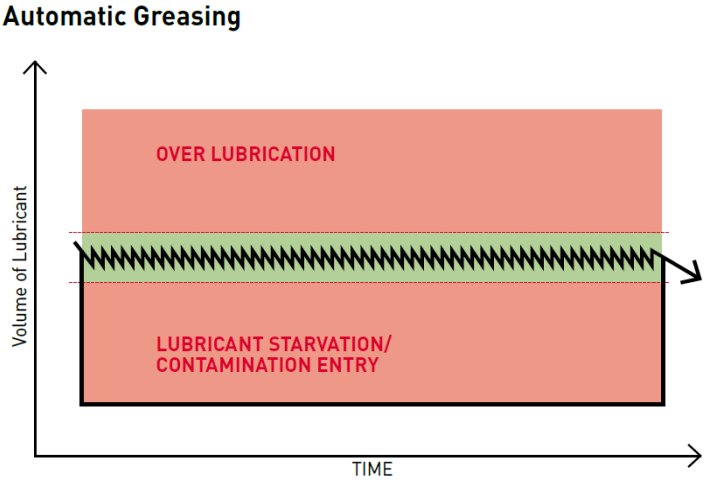


Results

- **Components' life:** greatly shortened.
- **Downtime:** unavoidable.
- **Environment:** polluted for excess grease.
- **Lubrication effect:** no guarantee.

Automatic Lubrication

- **Interval:** short and regular.
- **Grease used:** as required every time, fresh and clean.
- **Friction pairs :** under adequate grease condition.
- **Manual labor:** save 95%, and actual effect is guaranteed.
- **External dirt:** a closed system, no dirt entrance.
- **Operation time:** the machine is running.
- **Point location:** regardless of location or ease of access



Results

- **Components' life:** greatly extended.
- **Downtime:** greatly reduced
- **Environment:** protected.
- **Lubrication effect:** guarantee.
- **Investment:** returned quickly

Save time, save grease, save labor, reduce maintenance cost.

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Our Application Range

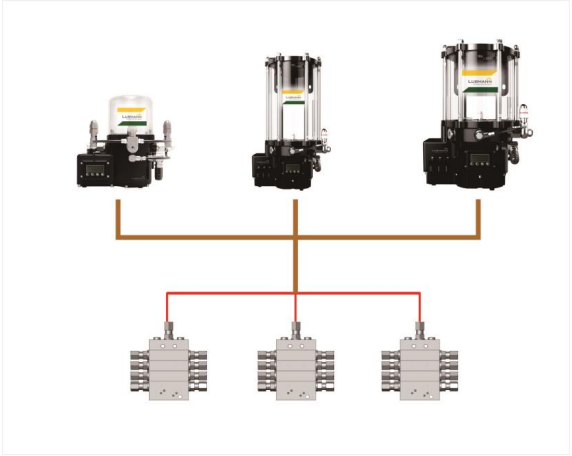
Lubmann Automatic Lubrication Systems are suitable for a variety of applications including: construction machines (concrete pumps, mortar pumps, loaders, excavators, trenchers); on-road trucks (snow removal, waste press); buses; agricultural machines (harvesters, balers, manure spreaders, sugar cane loaders); wood reclaimers; and material handling (reach stackers, crane carts) .

In addition, the single line systems are suitable for use in wind turbine generators and the single line pressurized systems for food and beverage facilities (fillers, washing machines), reciprocating compressors in the Oil and Gas industry, among many others.

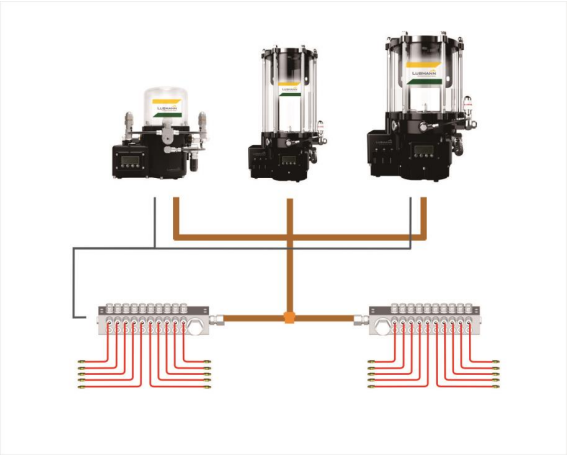
Lubmann progressive systems are reliable and operate effectively in harsh conditions with potentially high lubrication-point back pressure, dirty, wet or humid environments and low temperatures

Amtsgericht Duesseldorf HRB 76903 Steuernummer: DE316746274 Bankverbindung: Deutsche Bank IBAN: DE77 3007 0010 0058 6958 00 BIC/Swift: DEUTDEDDXXX

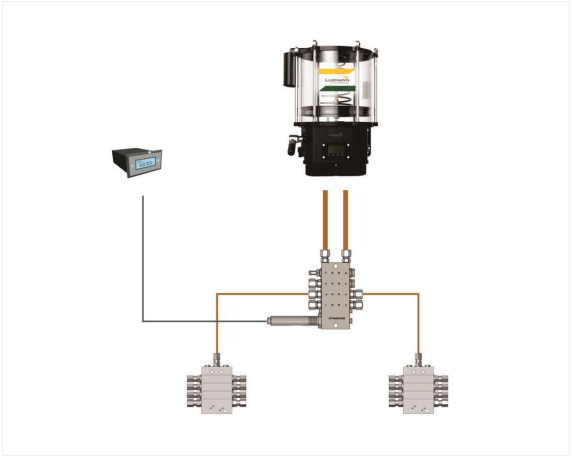
Automatic Lubrication System



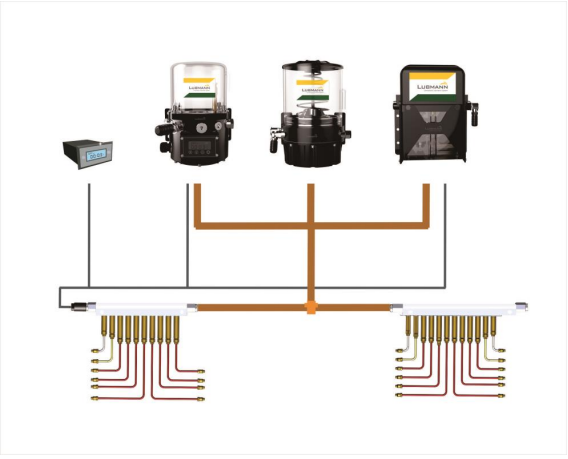
Progressive System



Single Line System



Dual Line System



Pressurized Single Line System

Advantage of Automatic Lubrication System:

Timing quantitative, balanced, forced lubrication;
Save labor and material costs;
Ensure effective lubrication of components;
Reduce friction losses;
Reduce operating costs;
Improve operating efficiency;
Prolong equipment life.

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Overview of Progressive System (Grease)

The progressive centralized lubrication system connects all levels of distributor (main block, secondary blocks) in turn by lubricating pump, conveys the grease to each lubricating point parallelly, and lubricates the friction pair.

Components

Standard:

Piston pump: 1 piece (Progressive, Plunger)

Primary distributor: 1 piece (Block Type/Progressive)

Secondary distributor: Optional (Block Type/Progressive)

Monitor: Integrated in Pump/External

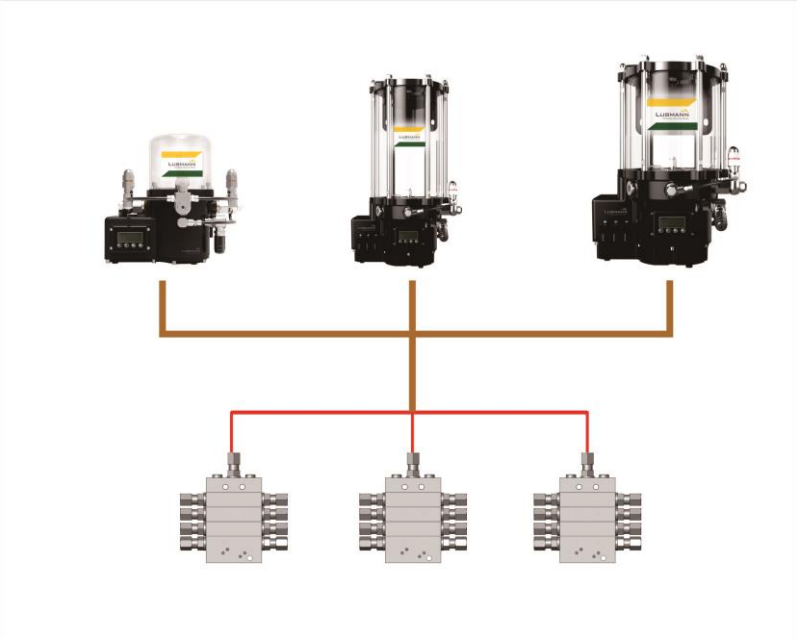
Optional:

Indicator Rod

Grease Level Sensor

Pressure Sensor

Flowrate Sensor



Accessories: Hoses and Fittings for connecting the whole system

Product	Function Principle	Grease Thickness till	Metering Quantity per Pump Element ml/Min	Reservoir Liter	Operating Max. Pressure in bar	Operating Max. Pressure in psi	Power Supply	Max. Pump Elements
LEP	Piston Pump/Paddle Mode	Up to 2	1.5-4.5	1-2	350 bar	5075	12/24 V DC 220V AC	3
LRMP	Piston Pump/Paddle Mode	Up to 2	1.5-4.5	2-8	350 bar	5075	12/24 V DC 220V AC	3
LRBP	Piston Pump/Paddle Mode	Up to 2	1.5-4.5	4-20	350 bar	5075	12/24 V DC 220V AC	4
LIGP	Piston Pump	Up to 2	400	60/100	400 bar	5800	220/380 AC	1
LIMP	Piston Pump/Spring Mode	Up to 2	1.5-4.5	2-8	350 bar	5075	12/24 V DC 220V AC	3
LIBP	Piston Pump/Spring Mode	Up to 2	1.5-4.5	4-20	350 bar	5075	12/24 V DC 220V AC	4

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Pump Unit – LEP Serie

Identification Code

LEP x - x - x - x - x - x - x

Reservoir Size

1=1L
2=2L

Power Supply and Monitor

A=12VDC internal Monitor
B=12VDC external Monitor
C=24VDC internal Monitor
D=24VDC external Monitor
E=230VAC internal Monitor
F=230VAC external Monitor
G=Customized Power Supply with internal Monitor
H=Customized Power Supply with external Monitor

Prefilling

J=Un-prefilled (empty reservoir)
K=Prefilled with default NGLI 0
L=Prefilled with default NGLI 1
M=Prefilled with default NGLI 2
N=Prefilled with Customized Lubricant

Pump Elements (max. 1)

P=1.5ml/Min
Q=2.5 ml/Min
R=4.5ml/Min
X=special Volume

Type of Safety Valve

T=Safety Valve with grease return
U=Safety Valve without grease return

Additional Functions

0=Without any additional Function
7=With Pressure Lost Warning

Parameter Presetting

Y=Default Setting by Lubmann
Z=Customized Setting based on Requirement

For the pump components like pump element, safety valve, refill coupling, fixing part and sensors please check the following pages.

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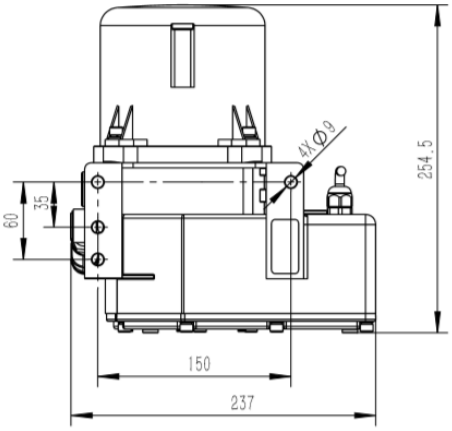
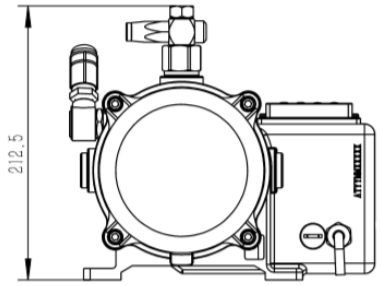
Description and Technical Data – LEP Serie





Product description

The LEP Serie high-pressure pump can be used as a centralized lubrication pump in small-sized progressive systems. It can drive 1 element, which are available in varying sizes for optimum adjustability. The pump's drive and eccentric shaft design, high-efficiency worm gear, minimal number of parts and multi-range motor provide several advantages. LEP pumps are available with a three-phase flange mount and multi-range motor or with a free shaft end for use with other motors Various gear ratios and reservoir sizes with or without level control are offered.

Features and benefits

Durable, versatile and reliable pump series
Designed for continual lubrication of machines systems operating in harsh environments
Broad range of output options
Modular design and easy maintenance

Applications

Construction Machinery
Agricultural Machinery
Commercial Vehicle

Technical data

Function principle:	electrically operated piston pump
Metering quantity Grease:	1.5–4,5 ml/Min
Outlets:	1
Lubricant:	Grease up to NLGI 2
Operating Pressure:	350 bar/5075 psi
Operating Temperature:	–40 to +70 °C
Protection Class:	IP 65
Line Connection:	G1/4
Electrical Connection:	12 or 24V DC/220V AC
Dimensions :	
Height	1L-255mm 2L-378mm
Width	237mm
Depth	212.5mm
Mounting Position:	Vertical
Options:	Pressure Sensor
	Main Switch
	Refill Coupling

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Pump Unit – LRMP Serie

Identification Code

LRMP x - x - x - xxx - x - x - x

Reservoir Size

1=2L	2=4L
3=6L	4=8L

Power Supply and Monitor

A=12VDC internal Monitor	B=12VDC external Monitor
C=24VDC internal Monitor	D=24VDC external Monitor
E=230VAC internal Monitor	F=230VAC external Monitor
G=Customized Power Supply with internal Monitor	H=Customized Power Supply with external Monitor

Prefilling

J=Un-prefilled (empty reservoir)	K=Prefilled with default NGLI 0
L=Prefilled with default NGLI 1	M=Prefilled with default NGLI 2
N=Prefilled with Customized Lubricant	

Pump Elements (max. 3)

SSS=without Pump Elements	XXX=Customized with special PE
X00=PE on left side of pump	0X0=PE on mid/front side of pump
00X=PE on right side of pump	
P=1.5ml/Min	Q=2.5 ml/Min
R=4.5ml/Min	X=special Volume

For ex. PSR=PE on left side with 1.5ml/Min and on right side with 4.5ml/Min, mid without PE

Type of Safety Valve

T=Safety Valve with grease return

U=Safety Valve without grease return

Additional Functions

0=Without any additional Function	7=With Pressure Lost Warning
8=With Grease Level Warning	9=With Pressure Lost and Grease Level Warning

Parameter Presetting

Y=Default Setting by Lubmann	Z=Customized Setting based on Requirement

For the pump components like pump element, safety valve, refill coupling, fixing part and sensors please check the following pages.

Amtsgericht Duesseldorf HRB 76903 Steuernummer: DE316746274 Bankverbindung: Deutsche Bank IBAN: DE77 3007 0010 0058 6958 00 BIC/Swift: DEUTDEDDXXX

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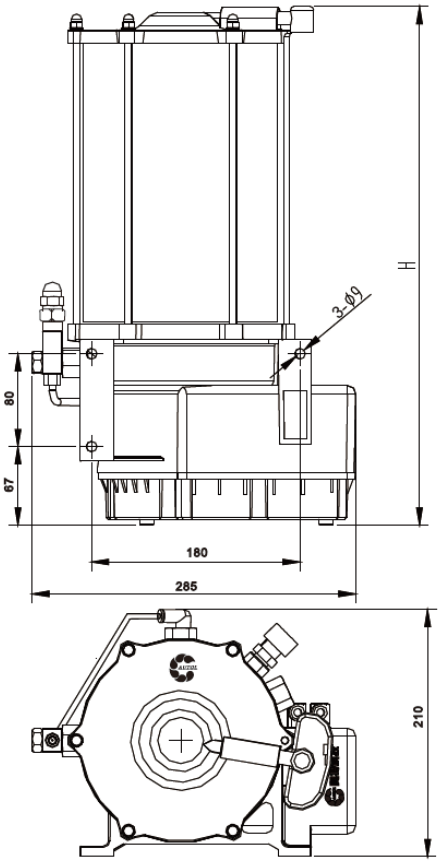
Description and Technical Data – LRMP Serie



Product description

The LRMP Serie high-pressure pump can be used as a centralized lubrication pump in middle-sized progressive systems. It can drive max. 3 elements, which are available in varying sizes for optimum adjustability. The pump's drive and eccentric shaft design, high-efficiency worm gear, minimal number of parts and multi-range motor provide several advantages. LRMP pumps are available with a three-phase flange mount and multi-range motor or with a free shaft end for use with other motors Various gear ratios and reservoir sizes with or without level control are offered.

Features and benefits

Durable, versatile and reliable pump series
Designed for continual lubrication of machines systems operating in harsh environments
Broad range of output options
Modular design and easy maintenance

Applications

Construction Machinery
Agricultural Machinery
Mining Machinery
Heavy Metal Industry

Technical data

Function principle:	electrically operated piston pump
Metering quantity Grease:	1.5–4,5 ml/Min
Outlets:	3
Lubricant:	Grease up to NLGI 2
Operating Pressure:	350 bar/5075 psi
Operating Temperature:	–40 to +70 °C
Protection Class:	IP 65
Line Connection:	G1/4
Electrical Connection:	12 or 24V DC/220V AC
Dimensions	
Height:	2L-385mm 4L-485mm 6L-585mm 8L-685mm
Width:	285mm
Depth:	210mm
Mounting Position:	Vertical
Options:	Pressure Sensor
	Grease Level Sensor
	Main Switch
	Refill Coupling

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Pump Unit – LRBP Serie

Identification Code

LRBP x - x - x - xxxx - x - x - x

Reservoir Size

1=4L
2=8L
3=10L
4=15L
5=20L

Power Supply and Monitor

A=12VDC internal Monitor
B=12VDC external Monitor
C=24VDC internal Monitor
D=24VDC external Monitor
E=230VAC internal Monitor
F=230VAC external Monitor
G=Customized Power Supply with internal Monitor
H=Customized Power Supply with external Monitor

Prefilling

J=Un-prefilled (empty reservoir)
K=Prefilled with default NGLI 0
L=Prefilled with default NGLI 1
M=Prefilled with default NGLI 2
N=Prefilled with Customized Lubricant

Pump Elements (max. 4)

SSSS=without Pump Elements
XXXX=Customized with special PE
X000=PE on left side of pump
0X00=PE on mid/front side of pump
00X0=PE on right side of pump
000X=PE on mid/back side of pump
P=1.5ml/Min
Q=2.5 ml/Min
R=4.5ml/Min

For ex. PSRS=PE on left side with 1.5ml/Min and on right side with 4.5ml/Min, both mid/front and back without PE

Type of Safety Valve

T=Safety Valve with grease return
U=Safety Valve without grease return

Additional Functions

0=Without any additional Function
7=With Pressure Lost Warning
8=With Grease Level Warning
9=With Pressure Lost and Grease Level Warning

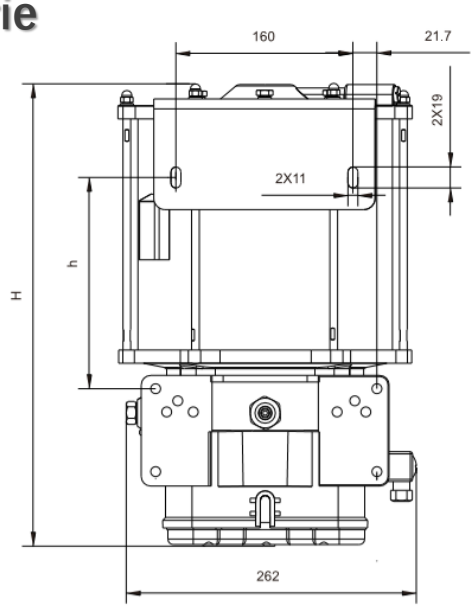
Parameter Presetting

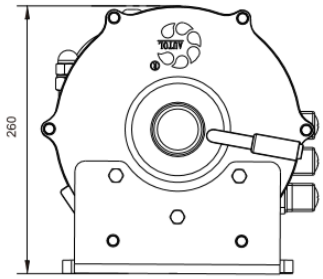
Y=Default Setting by Lubmann
Z=Customized Setting based on Requirement

For the pump components like pump element, safety valve, refill coupling, fixing part and sensors please check the following pages.

Amtsgericht Duesseldorf HRB 76903 Steuernummer: DE316746274 Bankverbindung: Deutsche Bank IBAN: DE77 3007 0010 0058 6958 00 BIC/Swift: DEUTDEDDXXX

Description and Technical Data – LRBP Serie





Product description

The LRBP Serie high-pressure pump can be used as a centralized lubrication pump in large-sized progressive systems. It can drive max. 4 elements, which are available in varying sizes for optimum adjustability. The pump's drive and eccentric shaft design, high-efficiency worm gear, minimal number of parts and multi-range motor provide several advantages. LRBP pumps are available with a three-phase flange mount and multi-range motor or with a free shaft end for use with other motors Various gear ratios and reservoir sizes with or without level control are offered.

Features and benefits

Durable, versatile and reliable pump series
Designed for continual lubrication of machines
systems operating in harsh environments
Broad range of output options
Modular design and easy maintenance

Applications

Construction Machinery
Agricultural Machinery
Mining Machinery
Heavy Metal Industry

Technical data

Function principle:	electrically operated piston pump
Metering quantity Grease:	1.5–4,5 ml/Min
Outlets:	4
Lubricant:	Grease up to NLGI 2
Operating Pressure:	350 bar/5075 psi
Operating Temperature:	–40 to +70 °C
Protection Class:	IP 66
Line Connection:	G1/4
Electrical Connection:	12 or 24V DC/220V AC
Dimensions :	
Height	4L-418mm 8L-523mm 10L-576mm
	15L-771mm 20L-848mm
Width	262mm
Depth	260mm
Mounting Position:	Vertical
Options:	Pressure Sensor
	Grease Level Sensor
	Main Switch
	Refill Coupling

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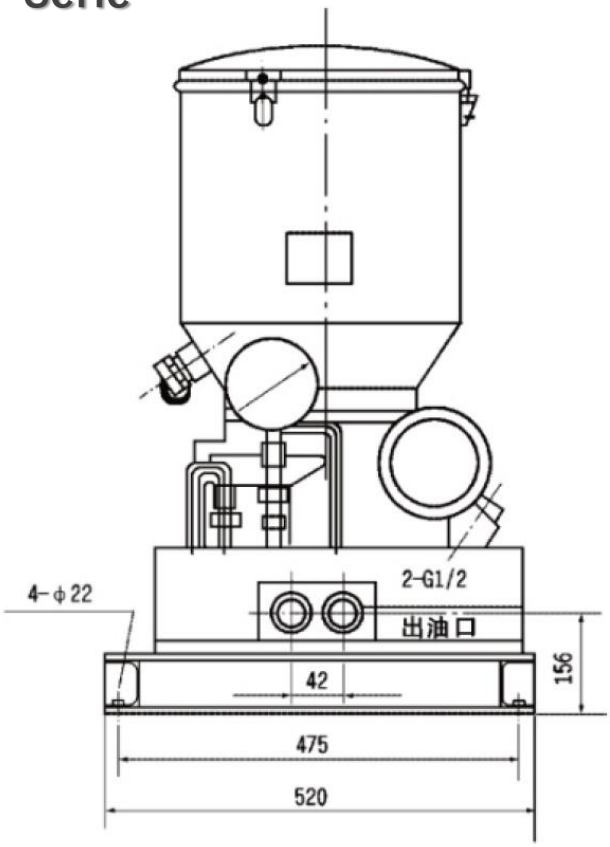
Description and Technical Data – LIGP Serie



Product description

The LIGP Serie high-pressure pump can be used as a centralized lubrication pump in giant-sized progressive systems. It can drive 1 element, which are available in varying sizes for optimum adjustability. The pump's drive and eccentric shaft design, high-efficiency worm gear, minimal number of parts and multi-range motor provide several advantages. LIGP pumps are available with a three-phase flange mount and multi-range motor or with a free shaft end for use with other motors Various gear ratios and reservoir sizes with or without level control are offered.

Features and benefits

Durable, versatile and reliable pump series
Designed for continual lubrication of machines systems operating in harsh environments
Broad range of output options
Modular design and easy maintenance

Applications

Mining Machinery
Heavy Metal Industry

Technical data

Function principle:	electrically operated piston pump
Metering quantity Grease:	400 ml/Min
Outlets:	1
Lubricant:	Grease up to NLGI 2
Operating Pressure:	350 bar/5800 psi
Operating Temperature:	–20 to +80 °C
Max. Greasing Points	300
Max. Power:	1100W
Electrical Connection:	220/380V AC
Dimensions :	
Height	60L-1055mm 100L-1300mm
Width	520mm
Depth	1200mm
Mounting Position:	Vertical
Options:	Pressure Sensor
	Grease Level Sensor
	Main Switch
	Refill Coupling

For Identification Code of LIGP Serie Pump please contact us for more details.

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LUBMANN
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Pump Unit – LIMP Serie

Identification Code

LIMP x - x - x - xxx - x - x - x

Reservoir Size

1=2L	2=4L
3=6L	4=8L

Power Supply and Monitor

A=12VDC internal Monitor	B=12VDC external Monitor
C=24VDC internal Monitor	D=24VDC external Monitor
E=230VAC internal Monitor	F=230VAC external Monitor
G=Customized Power Supply with internal Monitor	H=Customized Power Supply with external Monitor

Prefilling

J=Un-prefilled (empty reservoir)	K=Prefilled with default NGLI 0
L=Prefilled with default NGLI 1	M=Prefilled with default NGLI 2
N=Prefilled with Customized Lubricant	

Pump Elements (max. 3)

SSS=without Pump Elements	XXX=Customized with special PE
X00=PE on left side of pump	0X0=PE on mid/front side of pump
00X=PE on right side of pump	
P=1.5ml/Min	Q=2.5 ml/Min
R=4.5ml/Min	

For ex. PSR=PE on left side with 1.5ml/Min and on right side with 4.5ml/Min, mid without PE

Type of Safety Valve

T=Safety Valve with grease return

U=Safety Valve without grease return

Additional Functions

0=Without any additional Function	7=With Pressure Lost Warning
8=With Grease Level Warning	9=With Pressure Lost and Grease Level Warning

Parameter Presetting

Y=Default Setting by Lubmann	Z=Customized Setting based on Requirement

For the pump components like pump element, safety valve, refill coupling, fixing part and sensors please check the following pages.

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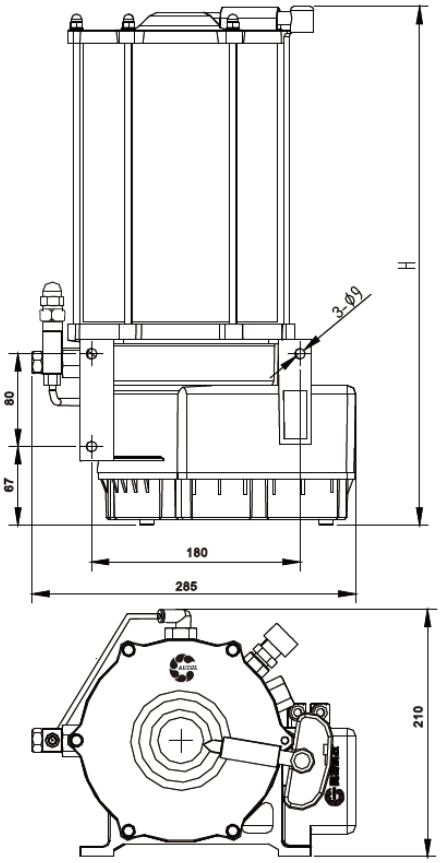
Description and Technical Data – LIMP Serie



Product description

The LIMP Serie high-pressure pump can be used as a centralized lubrication pump in middle-sized progressive systems. It can drive max. 3 elements, which are available in varying sizes for optimum adjustability. The pump's drive and eccentric shaft design, high-efficiency worm gear, minimal number of parts and multi-range motor provide several advantages. LIMP pumps are available with a three-phase flange mount and multi-range motor or with a free shaft end for use with other motors Various gear ratios and reservoir sizes with or without level control are offered.

Features and benefits

Durable, versatile and reliable pump series
Designed for continual lubrication of machines systems operating in harsh environments
Broad range of output options
Modular design and easy maintenance

Applications

Wind Turbine
Construction Machinery
Agricultural Machinery
Mining Machinery
Heavy Metal Industry

Technical data

Function principle:	electrically operated piston pump
Metering quantity Grease:	1.5–4,5 ml/Min
Outlets:	3
Lubricant:	Grease up to NLGI 2
Operating Pressure:	350 bar/5075 psi
Operating Temperature:	–40 to +70 °C
Protection Class:	IP 65
Line Connection:	G1/4
Electrical Connection:	12 or 24V DC/220V AC
Dimensions :	
Height	2L-385mm 4L-485mm 6L-585mm 8L-685mm
Width	285mm
Depth	210mm
Mounting Position:	Vertical
Options:	Pressure Sensor
	Grease Level Sensor
	Main Switch
	Refill Coupling

Amtsgericht Duesseldorf HRB 76903 Steuernummer: DE316746274 Bankverbindung: Deutsche Bank IBAN: DE77 3007 0010 0058 6958 00 BIC/Swift: DEUTDEDDXXX

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Centralized Lubrication System

Pump Unit – LIBP Serie

Identification Code

LIBP x - x - x - xxxx - x - x - x

Reservoir Size

1=4L
2=8L
3=10L
4=15L
5=20L

Power Supply and Monitor

A=12VDC internal Monitor
B=12VDC external Monitor
C=24VDC internal Monitor
D=24VDC external Monitor
E=230VAC internal Monitor
F=230VAC external Monitor
G=Customized Power Supply with internal Monitor
H=Customized Power Supply with external Monitor

Prefilling

J=Un-prefilled (empty reservoir)
K=Prefilled with default NGLI 0
L=Prefilled with default NGLI 1
M=Prefilled with default NGLI 2
N=Prefilled with Customized Lubricant

Pump Elements (max. 4)

SSSS=without Pump Elements
XXXX=Customized with special PE
X000=PE on left side of pump
0X00=PE on mid/front side of pump
00X0=PE on right side of pump
000X=PE on mid/back side of pump
P=1.5ml/Min
Q=2.5 ml/Min
R=4.5ml/Min

For ex. PSRS=PE on left side with 1.5ml/Min and on right side with 4.5ml/Min, both mid/front and back without PE

Type of Safety Valve

T=Safety Valve with grease return
U=Safety Valve without grease return

Additional Functions

0=Without any additional Function
7=With Pressure Lost Warning
8=With Grease Level Warning
9=With Pressure Lost and Grease Level Warning

Parameter Presetting

Y=Default Setting by Lubmann
Z=Customized Setting based on Requirement

For the pump components like pump element, safety valve, refill coupling, fixing part and sensors please check the following pages.

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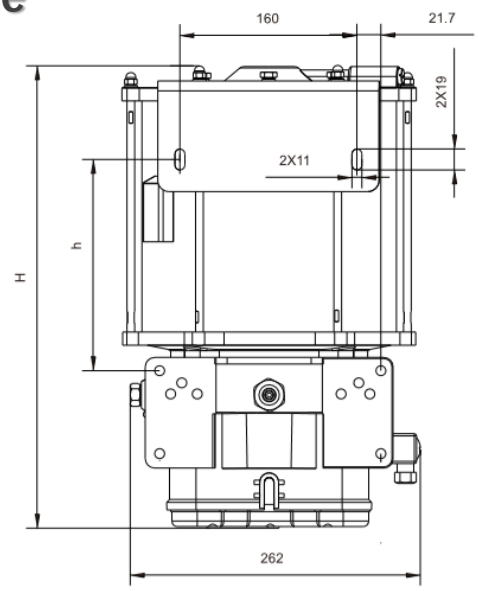
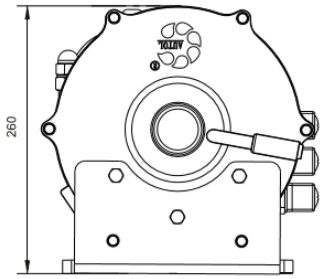
LUBMANN
Centralized Lubrication System

Description and Technical Data – LIBP Serie





Product description

The LIBP Serie high-pressure pump can be used as a centralized lubrication pump in large-sized progressive systems. It can drive max. 4 elements, which are available in varying sizes for optimum adjustability. The pump's drive and eccentric shaft design, high-efficiency worm gear, minimal number of parts and multi-range motor provide several advantages. LIBP pumps are available with a three-phase flange mount and multi-range motor or with a free shaft end for use with other motors Various gear ratios and reservoir sizes with or without level control are offered.

Features and benefits

Durable, versatile and reliable pump series
Designed for continual lubrication of machines systems operating in harsh environments
Broad range of output options
Modular design and easy maintenance

Applications

Wind Turbine
Construction Machinery
Agricultural Machinery
Mining Machinery
Heavy Metal Industry

Technical data

Function principle:	electrically operated piston pump
Metering quantity Grease:	1.5–4,5 ml/Min
Outlets:	4
Lubricant:	Grease up to NLGI 2
Operating Pressure:	350 bar/5075 psi
Operating Temperature:	–40 to +70 °C
Protection Class:	IP 66
Line Connection:	G1/4
Electrical Connection:	12 or 24V DC/220V AC
Dimensions :	
Height	4L-418mm 8L-523mm 10L-576mm 15L-771mm 20L-848mm
Width	262mm
Depth	260mm
Mounting Position:	Vertical
Options:	Pressure Sensor
	Grease Level Sensor
	Main Switch
	Refill Coupling

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Overview of Dual Line System (Grease)

The Dual Line centralized lubrication system has a variety of connections. System can be decided according to the actual demand. The distributors can be connected in series, parallel and mixed connection.

Components

Standard:

Piston pump: 1 piece (Dual Line, Plunger)

Dual Line Distributor: X pieces in Series

Progressive Distributor: optional X pieces

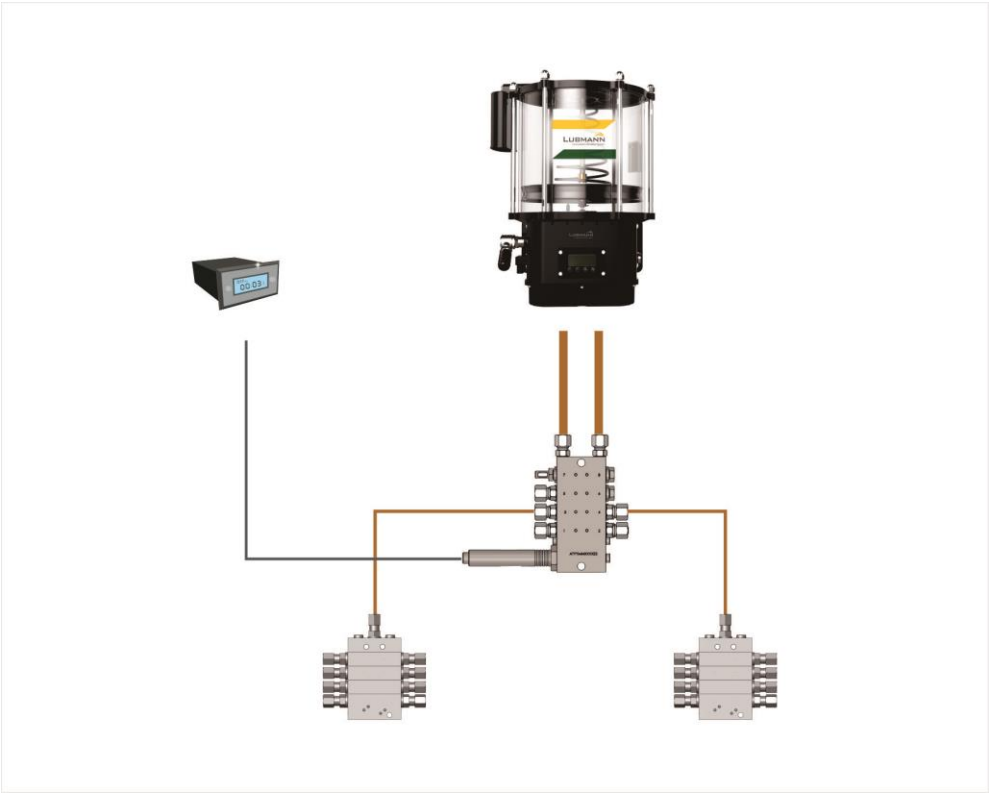
Monitor: Integrated in Pump/External

Optional:

Grease Level Sensor

Pressure Sensor

Flowrate Sensor



Accessories:

Hoses and Fittings for connecting the whole system

Product	Function Principle	Grease Thickness till	Metering Quantity per Pump Element ml/Min	Reservoir Liter	Operating Max. Pressure in bar	Operating Max. Pressure in psi	Power Supply	Pump Elements
LID	Piston Pump/Spring Mode	Up to 2	12	4/8/10	300 bar	4350	12/24 V DC 220V AC	2

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Centralized Lubrication System

Pump Unit – LID Serie

Identification Code

LID x - x - x - xxx - x - x - x

Reservoir Size

1=4L
2=8L
3=10L

Power Supply and Monitor

A=12VDC internal Monitor
B=12VDC external Monitor
C=24VDC internal Monitor
D=24VDC external Monitor
E=230VAC internal Monitor
F=230VAC external Monitor
G=Customized Power Supply with internal Monitor
H=Customized Power Supply with external Monitor

Prefilling

J=Un-prefilled (empty reservoir)
K=Prefilled with default NGLI 0
L=Prefilled with default NGLI 1
M=Prefilled with default NGLI 2
N=Prefilled with Customized Lubricant

Pump Elements (2)

P=12ml/Min
Q=Customized Special Flowrate

Type of Electrical-Magnet Valve

T=Electrical-Magnet Valve with grease return
U=Electrical-Magnet Valve without grease return

Additional Functions

0=Without any additional Function
7=With Pressure Lost Warning
8=With Grease Level Warning
9=With Pressure Lost and Grease Level Warning

Parameter Presetting

Y=Default Setting by Lubmann
Z=Customized Setting based on Requirement

For the pump components like pump element, safety valve, refill coupling, fixing part and sensors please check the following pages.

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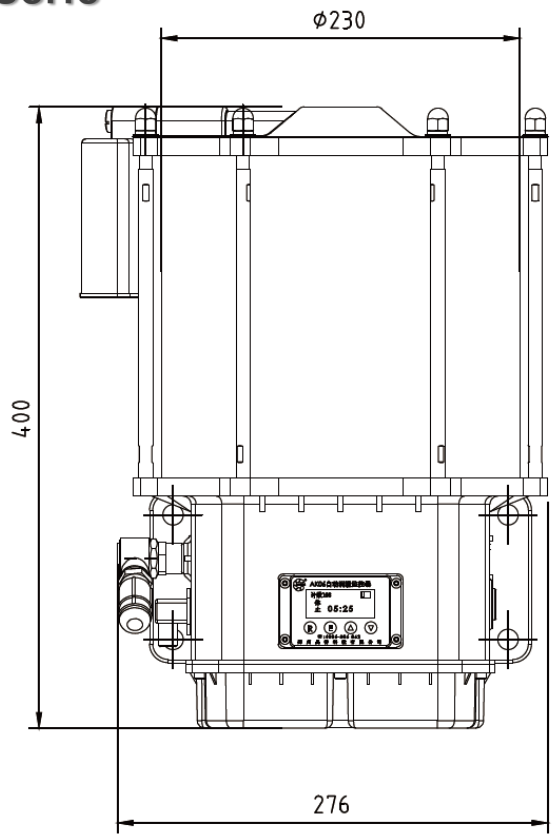
Description and Technical Data – LID Serie



Product description

The LID Serie high-pressure pump can be used as a centralized lubrication pump in large-sized dual line systems. It can drive 2 elements. The pump's drive and eccentric shaft design, high-efficiency worm gear, minimal number of parts and multi-range motor provide several advantages. LID pumps are available with a three-phase flange mount and multi-range motor or with a free shaft end for use with other motors Various gear ratios and reservoir sizes with or without level control are offered.

Features and benefits

Durable, versatile and reliable pump series
Designed for continual lubrication of machines systems operating in harsh environments
Broad range of output options
Modular design and easy maintenance

Applications

Wind Turbine
Construction Machinery
Agricultural Machinery
Mining Machinery
Heavy Metal Industry

Technical data

Function principle:	electrically operated piston pump
Metering quantity Grease:	12 ml/Min
Outlets:	2
Lubricant:	Grease up to NLGI 2
Operating Pressure:	300 bar/4350 psi
Operating Temperature:	–40 to +70 °C
Protection Class:	IP 65
Line Connection:	G1/4
Electrical Connection:	12 or 24V DC/220V AC
Dimensions :	
Height	4L-402mm 8L-507mm 10L-571mm
Width	276mm
Depth	230mm
Mounting Position:	Vertical
Options:	Pressure Sensor
	Grease Level Sensor
	Main Switch
	Refill Coupling

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LUBMANN
Centralized Lubrication System

Overview of Single Line System (Grease)

The Single Line centralized lubrication system connects all levels of distributor (main block, secondary blocks) in turn by lubricating pump, conveys the grease to each lubricating point in series, and lubricates the friction pair.

Components

Standard:

Piston pump: 1 piece (Single Line, Plunger)

Single Line Distributor: X pieces in Series

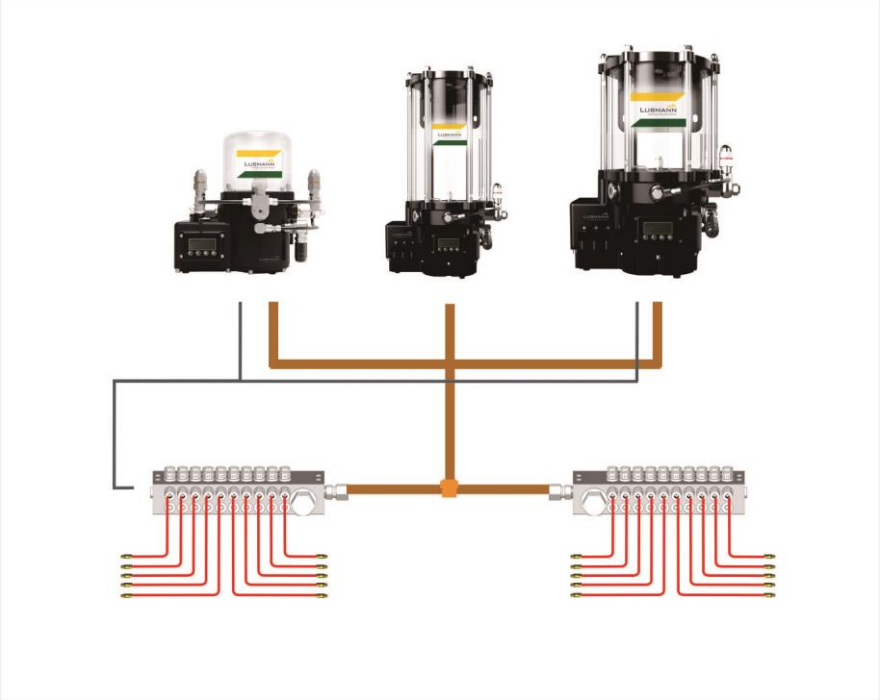
Monitor: Integrated in Pump/External

Optional:

Grease Level Sensor

Pressure Sensor

Flowrate Sensor



Accessories:

Hoses and Fittings for connecting the whole system

Product	Function Principle	Grease Thickness till	Metering Quantity per Pump Element ml/Min	Reservoir Liter	Operating Max. Pressure in bar	Operating Max. Pressure in psi	Power Supply	Max. Pump Elements
LIMS	Piston Pump/Spring Mode	Up to 2	1.5-4.5	2-8	350 bar	5075	12/24 V DC 220V AC	3
LIBS	Piston Pump/Spring Mode	Up to 2	1.5-4.5	4-20	350 bar	5075	12/24 V DC 220V AC	4

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LUBMANN
Centralized Lubrication System

Pump Unit – LIMS Serie

Identification Code

LIMS x - x - x - xxx - x - x - x

Reservoir Size

1=2L	2=4L
3=6L	4=8L

Power Supply and Monitor

A=12VDC internal Monitor	B=12VDC external Monitor
C=24VDC internal Monitor	D=24VDC external Monitor
E=230VAC internal Monitor	F=230VAC external Monitor
G=Customized Power Supply with internal Monitor	H=Customized Power Supply with external Monitor

Prefilling

J=Un-prefilled (empty reservoir)	K=Prefilled with default NGLI 0
L=Prefilled with default NGLI 1	M=Prefilled with default NGLI 2
N=Prefilled with Customized Lubricant	

Pump Elements (max. 3)

SSS=without Pump Elements	XXX=Customized with special PE
X00=PE on left side of pump	0X0=PE on mid/front side of pump
00X=PE on right side of pump	
P=1.5ml/Min	Q=2.5 ml/Min
R=4.5ml/Min	

For ex. PSR=PE on left side with 1.5ml/Min and on right side with 4.5ml/Min, mid without PE

Type of Electrical-Magnet Valve

T=Electrical-Magnet Valve with grease return

U=Electrical-Magnet Valve without grease return

Additional Functions

0=Without any additional Function	7=With Pressure Lost Warning
8=With Grease Level Warning	9=With Pressure Lost and Grease Level Warning

Parameter Presetting

Y=Default Setting by Lubmann	Z=Customized Setting based on Requirement

For the pump components like pump element, safety valve, refill coupling, fixing part and sensors please check the following pages.

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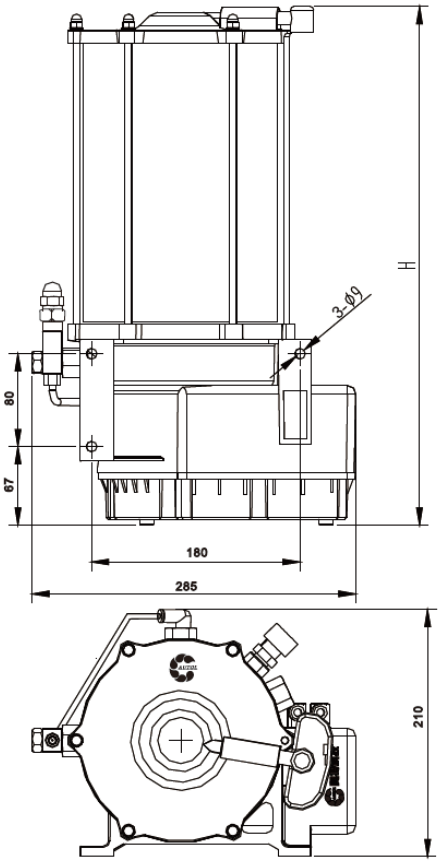
LUBMANN
Centralized Lubrication System

Description and Technical Data – LIMS Serie



Product description

The LIMS Serie high-pressure pump can be used as a centralized lubrication pump in middle-sized single line systems. It can drive max. 3 elements, which are available in varying sizes for optimum adjustability. The pump's drive and eccentric shaft design, high-efficiency worm gear, minimal number of parts and multi-range motor provide several advantages. LIMS pumps are available with a three-phase flange mount and multi-range motor or with a free shaft end for use with other motors Various gear ratios and reservoir sizes with or without level control are offered.

Features and benefits

Durable, versatile and reliable pump series
Designed for continual lubrication of machines systems operating in harsh environments
Broad range of output options
Modular design and easy maintenance

Applications

Wind Turbine

Technical data

Function principle:	electrically operated piston pump
Metering quantity Grease:	1.5–4,5 ml/Min
Outlets:	3
Lubricant:	Grease up to NLGI 2
Operating Pressure:	350 bar/5075 psi
Operating Temperature:	–40 to +70 °C
Protection Class:	IP 65
Line Connection:	G1/4
Electrical Connection:	12 or 24V DC/220V AC
Dimensions :	
Height	2L-385mm 4L-485mm 6L-585mm 8L-685mm
Width	285mm
Depth	210mm
Mounting Position:	Vertical
Options:	Pressure Sensor
	Grease Level Sensor
	Main Switch
	Refill Coupling

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LUBMANN
Centralized Lubrication System

Pump Unit – LIBS Serie

Identification Code

LIBS x - x - x - xxxx - x - x - x

Reservoir Size

1=4L
2=8L
3=10L
4=15L
5=20L

Power Supply and Monitor

A=12VDC internal Monitor
B=12VDC external Monitor
C=24VDC internal Monitor
D=24VDC external Monitor
E=230VAC internal Monitor
F=230VAC external Monitor
G=Customized Power Supply with internal Monitor
H=Customized Power Supply with external Monitor

Prefilling

J=Un-prefilled (empty reservoir)
K=Prefilled with default NGLI 0
L=Prefilled with default NGLI 1
M=Prefilled with default NGLI 2
N=Prefilled with Customized Lubricant

Pump Elements (max. 4)

SSSS=without Pump Elements
XXXX=Customized with special PE
X000=PE on left side of pump
0X00=PE on mid/front side of pump
00X0=PE on right side of pump
000X=PE on mid/back side of pump
P=1.5ml/Min
Q=2.5 ml/Min
R=4.5ml/Min

For ex. PSRS=PE on left side with 1.5ml/Min and on right side with 4.5ml/Min, both mid/front and back without PE

Type of Electrical-Magnet Valve

T=Electrical-Magnet Valve with grease return
U=Electrical-Magnet Valve without grease return

Additional Functions

0=Without any additional Function
7=With Pressure Lost Warning
8=With Grease Level Warning
9=With Pressure Lost and Grease Level Warning

Parameter Presetting

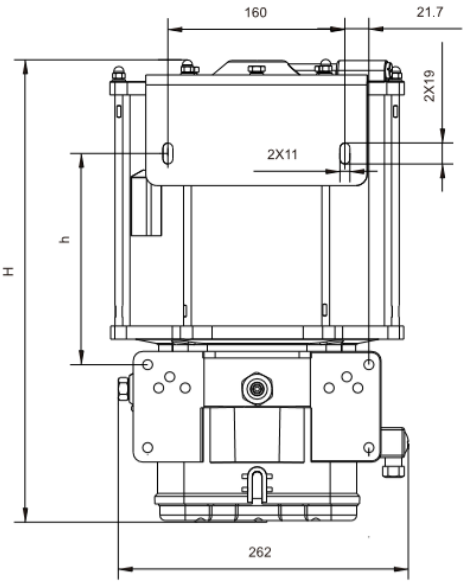
Y=Default Setting by Lubmann
Z=Customized Setting based on Requirement

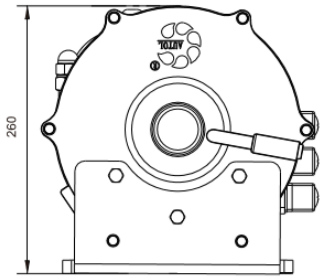
For the pump components like pump element, safety valve, refill coupling, fixing part and sensors please check the following pages.

Amtsgericht Duesseldorf HRB 76903 Steuernummer: DE316746274 Bankverbindung: Deutsche Bank IBAN: DE77 3007 0010 0058 6958 00 BIC/Swift: DEUTDEDDXXX

LUBMANN
Centralized Lubrication System

Description and Technical Data – LIBS Seri





Product description

The LIBS Serie high-pressure pump can be used as a centralized lubrication pump in large-sized single line systems. It can drive max. 4 elements, which are available in varying sizes for optimum adjustability. The pump's drive and eccentric shaft design, high-efficiency worm gear, minimal number of parts and multi-range motor provide several advantages. LIBS pumps are available with a three-phase flange mount and multi-range motor or with a free shaft end for use with other motors Various gear ratios and reservoir sizes with or without level control are offered.

Features and benefits

Durable, versatile and reliable pump series
Designed for continual lubrication of machines systems operating in harsh environments
Broad range of output options
Modular design and easy maintenance

Applications

Wind Turbine

Technical data

Function principle:	electrically operated piston pump
Metering quantity Grease:	1.5–4,5 ml/Min
Outlets:	4
Lubricant:	Grease up to NLGI 2
Operating Pressure:	350 bar/5075 psi
Operating Temperature:	–40 to +70 °C
Protection Class:	IP 66
Line Connection:	G1/4
Electrical Connection:	12 or 24V DC/220V AC
Dimensions :	
Height	4L-418mm 8L-523mm 10L-576mm 15L-771mm 20L-848mm
Width	262mm
Depth	260mm
Mounting Position:	Vertical
Options:	Pressure Sensor
	Grease Level Sensor
	Main Switch
	Refill Coupling

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Overview of Single Line System (Oil/Fluid Grease)

Grease pump delivers grease alternatively into each lube points through pressurized single line distributors.

Components

Standard:

Piston pump: 1 piece (Single Line, Gear)

Pressurized Single Line Distributor:

X pieces in Series

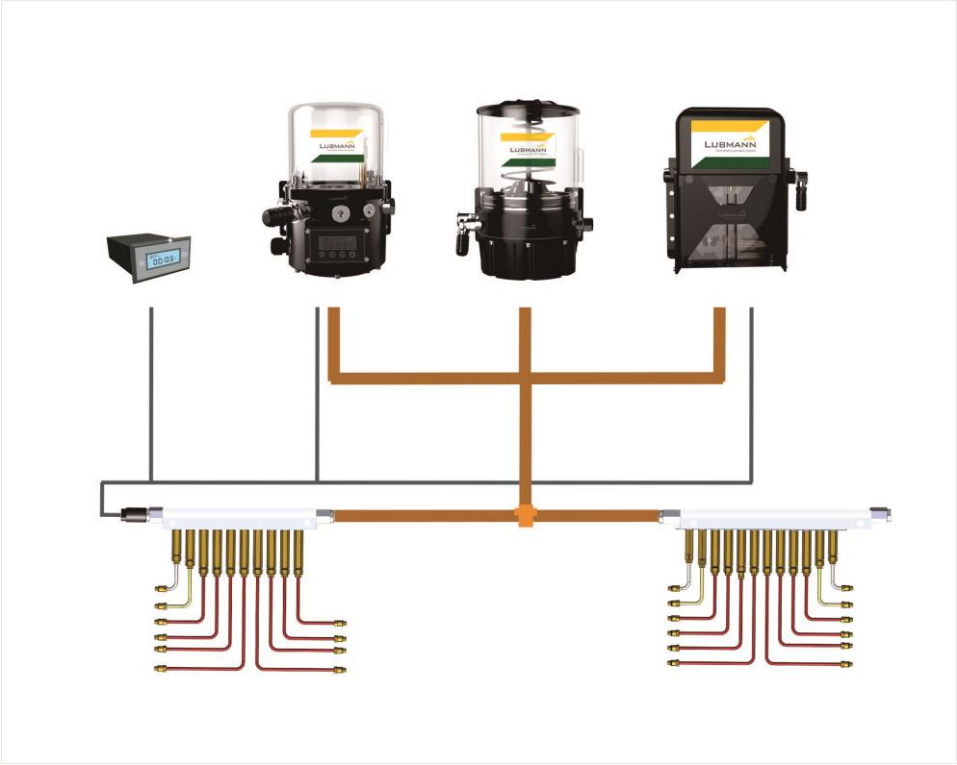
Optional:

Grease Level Sensor

Pressure Sensor

Flowrate Sensor

Monitor: Optional/External



Accessories:

Hoses and Fittings for connecting the whole system

Product	Function Principle	Grease Thickness till	Metering Quantity per Pump Element ml/Min	Reservoir Liter	Operating Max. Pressure in bar	Operating Max. Pressure in psi	Power Supply	Max. Pump Elements
LFS-1	Gear Pump/Paddle Mode	Up to 0	90	1	40 bar	751	12/24 V DC 220V AC	1
LFS-2	Gear Pump/Paddle Mode	Up to 0	55	2	63 bar	923	12/24 V DC 220V AC	1
LFS-3	Gear Pump/Spring Mode	Up to 0	120	2.8	40 bar	751	12/24 V DC 220V AC	1

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LUBMANN
Centralized Lubrication System

Pump Unit – LFS Serie

Identification Code

LFS- x - x - x - x - x

Reservoir Size

1=LFS-1	2=LFS-2
3=LFS-3	

Power Supply and Monitor

A=12VDC without Monitor	B=12VDC external Monitor
C=24VDC without Monitor	D=24VDC external Monitor
E=230VAC without Monitor	F=230VAC external Monitor
G=Customized Power Supply without Monitor	H=Customized Power Supply with external Monitor
P=12VDC with internal Monitor (Only pickable by LFS-1)	
Q=24VDC with internal Monitor (Only pickable by LFS-1)	
R=230VAC with internal Monitor (Only pickable by LFS-1)	

Prefilling

J=Un-prefilled (empty reservoir)	K=Prefilled with default NGLI 0
N=Prefilled with Customized Lubricant	

Additional Functions

0=Without any additional Function	7=With Pressure Lost Warning
8=With Grease Level Warning	9=With Pressure Lost and Grease Level Warning

Parameter Presetting

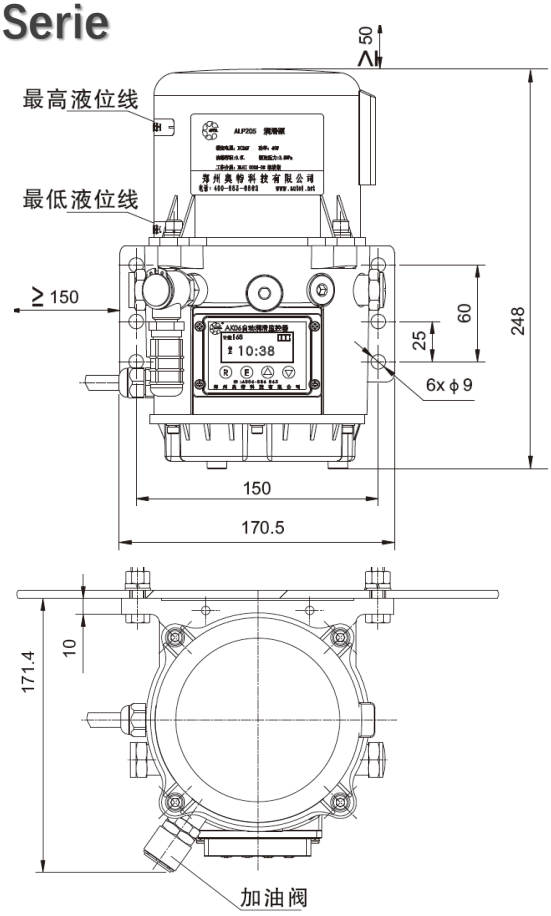
Y=Default Setting by Lubmann	Z=Customized Setting based on Requirement

For the pump components like pump element, safety valve, refill coupling, fixing part and sensors please check the following pages.

Amtsgericht Duesseldorf HRB 76903 Steuernummer: DE316746274 Bankverbindung: Deutsche Bank IBAN: DE77 3007 0010 0058 6958 00 BIC/Swift: DEUTDEDDXXX

LUBMANN
Centralized Lubrication System

Description and Technical Data – LFS-1 Serie



Product description

The LFS-1 Serie lubrication pump can be used as a centralized lubrication pump in small-sized pressurized single line systems. It can drive 1 element. The pump's drive and eccentric shaft design, high-efficiency worm gear, minimal number of parts and multi-range motor provide several advantages. LFS-1 pumps are available with a three-phase flange mount and multi-range motor or with a free shaft end for use with other motors Various gear ratios and reservoir sizes with or without level control are offered.

Features and benefits

Durable, versatile and reliable pump series
Designed for continual lubrication of machines systems operating in harsh environments
Broad range of output options
Modular design and easy maintenance

Applications

Commercial Vehicle
Food Line, Beverage Line
Machine Tool

Technical data

Function principle:	electrically operated piston pump
Metering quantity Grease:	90 ml/Min
Outlets:	1
Lubricant:	Grease up to NLGI 0
Operating Pressure:	40 bar/751 psi
Operating Temperature:	–40 to +70 °C
Protection Class:	IP 65
Line Connection:	G1/4
Electrical Connection:	12 or 24V DC/220V AC
Dimensions :	
Height	248mm
Width	171mm
Depth	171mm
Mounting Position:	Vertical
Options:	Pressure Sensor
	Grease Level Sensor
	Main Switch
	Refill Coupling

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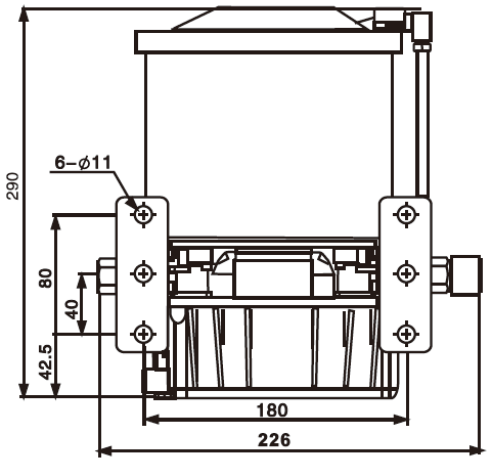
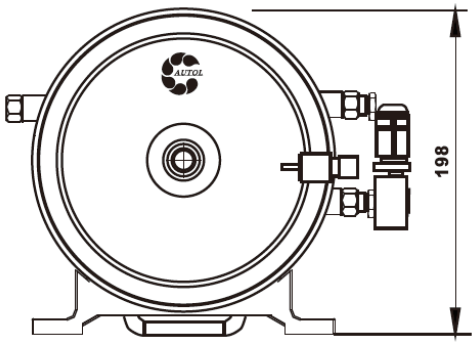
Description and Technical Data – LFS-2 Serie





Product description

The LFS-2 Serie lubrication pump can be used as a centralized lubrication pump in small-sized pressurized single line systems. It can drive 1 element. The pump's drive and eccentric shaft design, high-efficiency worm gear, minimal number of parts and multi-range motor provide several advantages. LFS-2 pumps are available with a three-phase flange mount and multi-range motor or with a free shaft end for use with other motors Various gear ratios and reservoir sizes with or without level control are offered.

Features and benefits

Durable, versatile and reliable pump series
Designed for continual lubrication of machines systems operating in harsh environments
Broad range of output options
Modular design and easy maintenance

Applications

Commercial Vehicle
Food Line, Beverage Line
Machine Tool

Technical data

Function principle:	electrically operated piston pump
Metering quantity Grease:	55 ml/Min
Outlets:	1
Lubricant:	Grease up to NLGI 0
Operating Pressure:	63 bar/923 psi
Operating Temperature:	–40 to +70 °C
Protection Class:	IP 65
Line Connection:	G1/4
Electrical Connection:	12 or 24V DC/220V AC
Dimensions :	
Height	290mm
Width	226mm
Depth	198mm
Mounting Position:	Vertical
Options:	Pressure Sensor
	Grease Level Sensor
	Main Switch
	Refill Coupling

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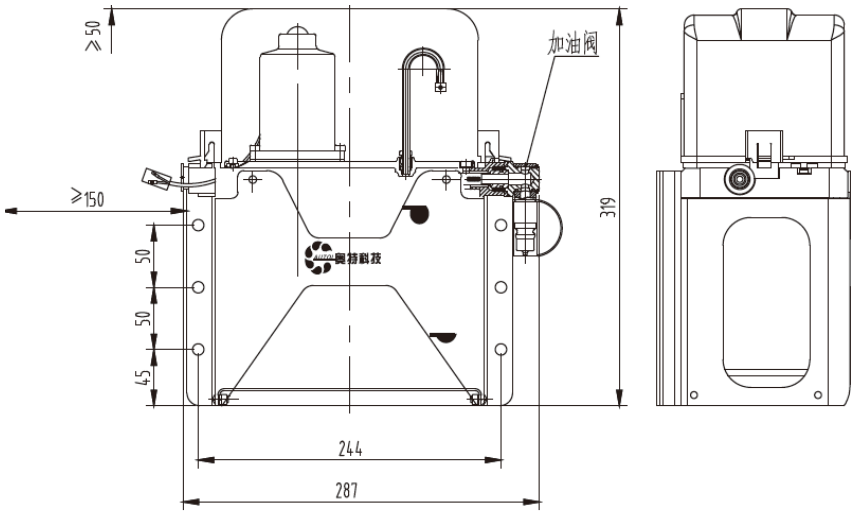
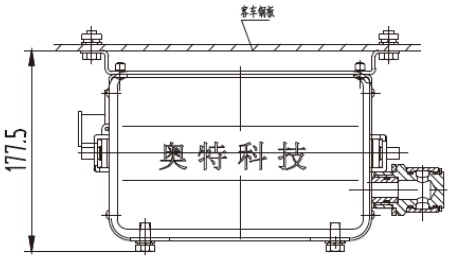
Description and Technical Data – LFS-3 Serie





Product description

The LFS-3 Serie lubrication pump can be used as a centralized lubrication pump in small-sized pressurized single line systems. It can drive 1 element. The pump's drive and eccentric shaft design, high-efficiency worm gear, minimal number of parts and multi-range motor provide several advantages. LFS-3 pumps are available with a three-phase flange mount and multi-range motor or with a free shaft end for use with other motors Various gear ratios and reservoir sizes with or without level control are offered.

Features and benefits

Durable, versatile and reliable pump series
Designed for continual lubrication of machines systems operating in harsh environments
Broad range of output options
Modular design and easy maintenance

Applications

Commercial Vehicle
Food Line, Beverage Line
Machine Tool

Technical data

Function principle:	electrically operated piston pump
Metering quantity Grease:	120 ml/Min
Outlets:	1
Lubricant:	Grease up to NLGI 0
Operating Pressure:	40 bar/751 psi
Operating Temperature:	–40 to +70 °C
Protection Class:	IP 65
Line Connection:	G1/4
Electrical Connection:	12 or 24V DC/220V AC
Dimensions :	
Height	319mm
Width	287mm
Depth	177mm
Mounting Position:	Vertical
Options:	Pressure Sensor
	Grease Level Sensor
	Main Switch
	Refill Coupling

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