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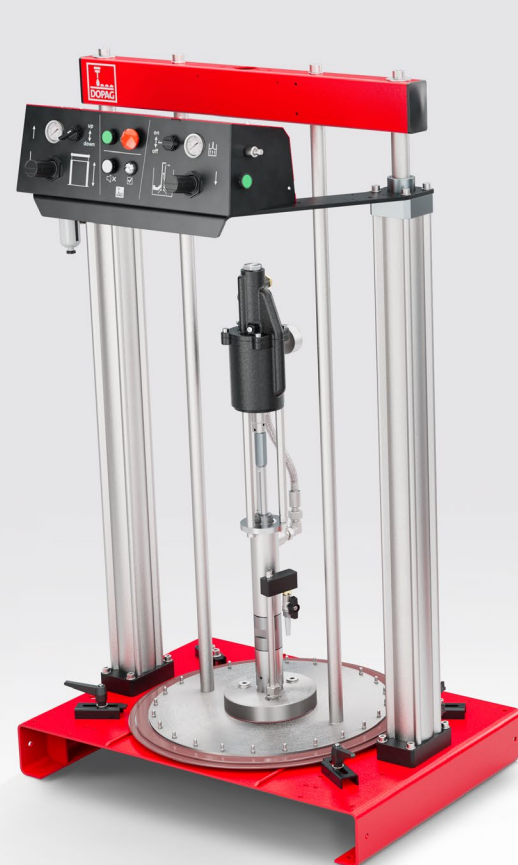
# Drum pumps

RELIABLE FEEDING OF  
LUBRICANTS, ADHESIVES  
AND SEALANTS



# For maximum production reliability

Processing lubricants, adhesives and sealants reliably and safely



**lubriLine**

Pumps for lubricants

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**glueLine**

Pumps for adhesives and sealants

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A successful metering process – whether for bonding, sealing or greasing – begins with the material supply. The material can only be metered, mixed and applied precisely if this is done safely, continuously and free of bubbles.

DOPAG has developed a modular series of drum pumps characterised by maximum reliability when feeding medium to high-viscosity materials. The powerful, double-acting piston pumps feed the material directly, efficiently and without air pockets from the original container. The series is characterised by its high level of user-friendliness and maximum flexibility in terms of configuration.

**The series consists of the following two product lines:**

**lubriLine (LL): Pumps for lubricants**

**glueLine (GL): Pumps for adhesives and sealants**

## Individual configuration

The pumps are available in three versions for the typical 30, 80 and 200-litre container sizes. The basic design and operation remain the same in each case. Depending on customer requirements, the pump can be equipped with different options such as filters, sealing fluid containers, deairing or homogenisation units and modules for external control or monitoring.

In addition to the standard design, DOPAG pumps are also available in stainless steel, a wear-resistant design for abrasive fillers, a design for pressure-sensitive materials or with ATEX certification. The various sealing options round off the diverse portfolio and make it possible to tailor the configuration precisely to the customer's needs and material. DOPAG also offers a wide range of follower plates so that all container types and sizes

(cylindrical, conical, with beads, cartridges, etc.) can be covered.

## User-friendly 2-hand operation

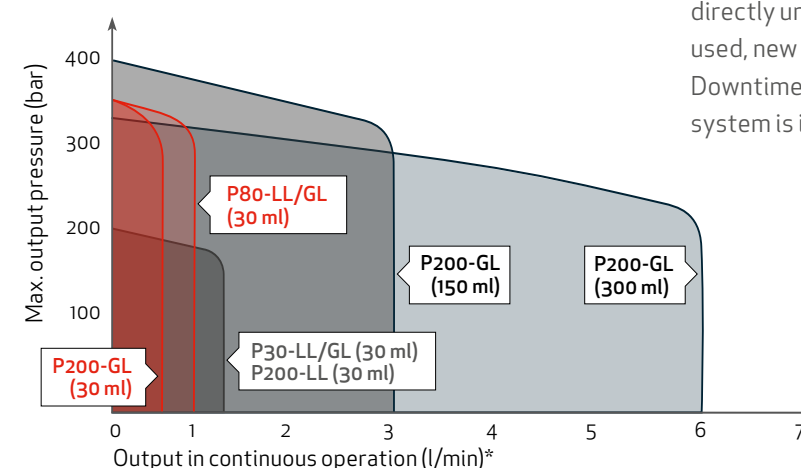
User-friendly and ergonomic 2-hand operation with additional safety features simplifies day-to-day production operations. 2-hand operation can be configured in different ways depending on customer requirements. If the pump is to be designed as a complete machine with CE certificate in accordance with the Machinery Directive, an emergency stop, protection against unexpected start-up when power is restored and a switch-off function in the event of an empty signal are integrated. If these functions are to be fulfilled by the higher-level system, the control is alternatively available in a reduced design.

## Continuous material supply

The pumps are suitable as central material supply systems and as individual supply systems. To ensure a continuous supply of material when changing containers, the pumps are available as a tandem version. As soon as the first drum pump reaches its empty level, the system automatically switches to the second pump, ensuring an uninterrupted supply of material. In the meantime, the container on the first pump is changed so that it is ready for the next pump change.

## Simple and efficient drum change

Various drum change support options are optionally available to protect the operator from excessive loads. The drum roll-in mechanism allows containers to get more easily onto the base plate. With the drum roller conveyor the container stands on rollers and can be centred more conveniently under the follower plate. With the third and final expansion stage, lifting is no longer necessary completely. The drum is changed using a mobile pallet, through which the container can be inserted directly under the follower plate. If several pallets are used, new containers can be prepared in the warehouse. Downtimes are reduced and the productivity of the system is increased.

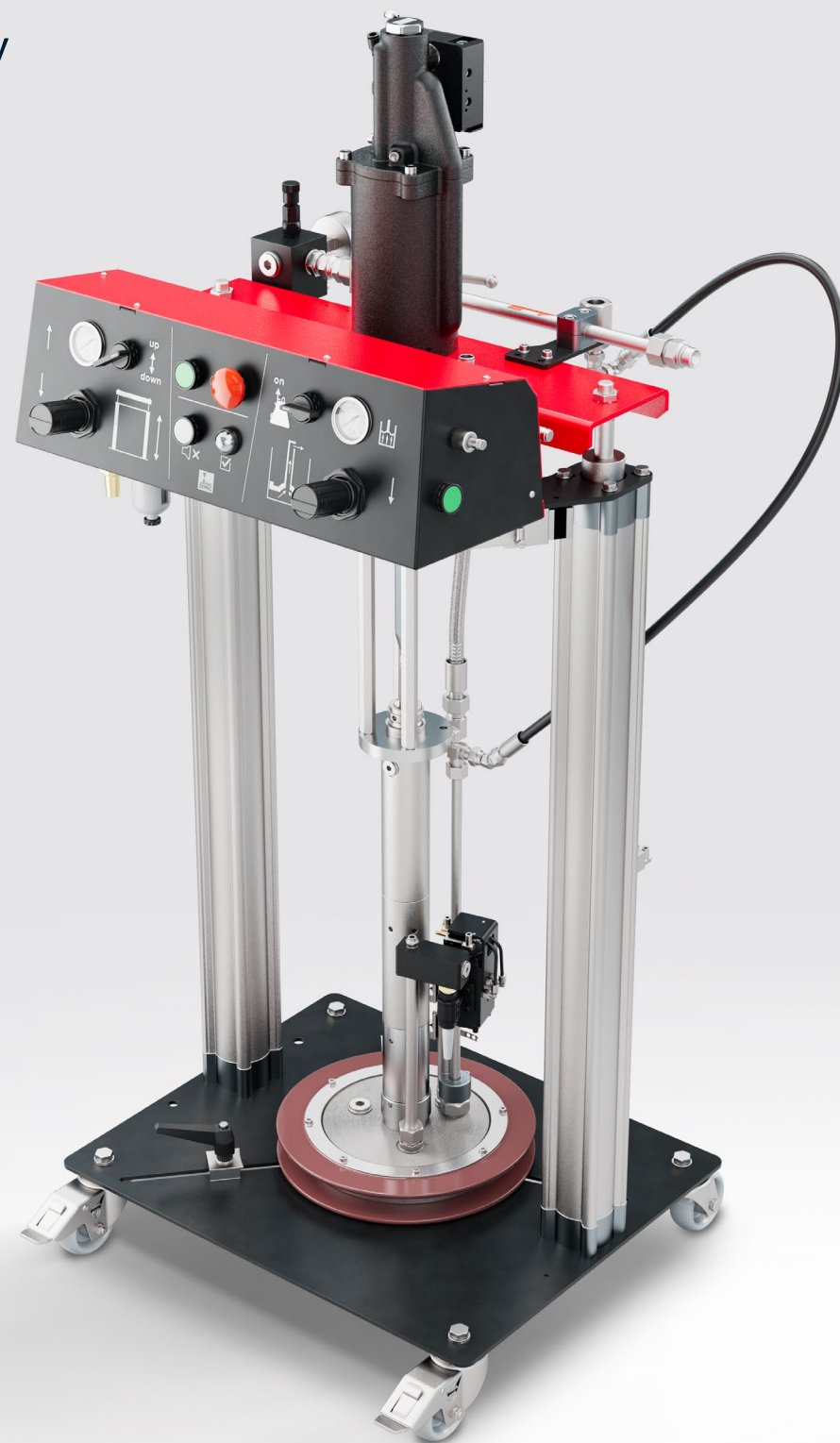


\*Short-term increases in output are possible

lubriLine

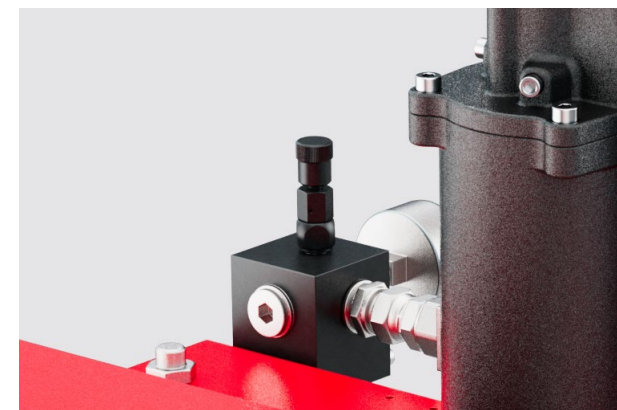
# Pumps for lubricants

Feed grease reliably

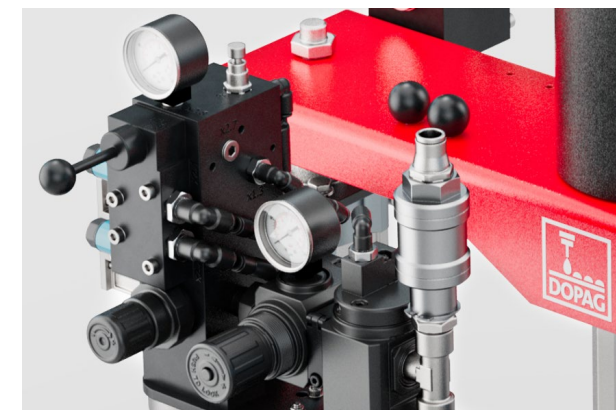


## Benefits for you

- Individual configuration
- User-friendly and ergonomic 2-hand operation
- Material circulation and homogenisation prevent material separation
- Drum bottom detection to minimise material waste when changing containers
- Automatic follower plate deairing to make changing containers easier
- Clean, oil-free high-performance drives



Connecting block with deairing valve



Compact 1-hand operation

The drum pumps of the lubriLine product range have been specially developed for the efficient processing of lubricants in consistency classes NLGI 0 to 4. Their robustness ensures a long service life and smooth operation. Users also benefit from a high ease of maintenance.

## Individually configurable

The modular design enables individually configured pumps for every requirement. Depending on customer requirements, the drum and barrel pump can be expanded with various options such as mixers, filters or an external communication for monitoring and control purposes.

## Ensuring high-quality processing

In order to reduce the system pressure during downtimes and prevent material separation, a pressure release or homogenisation unit can be optionally integrated. When the pressure is relieved, it is ensured that the pump and ram pressure are relieved.

In the homogenisation unit, the material is additionally circulated by being transported through a mixer and from there back into the container by a circulation circuit.

## Reducing waste

To reduce material waste when changing containers, it is also possible to use drum bottom detection. This is fitted on the follower plate and ensures that the container is emptied to a minimum residual amount.

Automatic follower plate deairing is also optionally available, which ensures a correct deairing process when changing containers. The risk of operating errors is reduced, whilst air pockets and unnecessary material waste are prevented.

## Product features


- Sizes for 30, 80 and 200 litres
- For feeding lubricants in NLGI classes 0–4
- Flow rate of up to 3 litres/minute
- Pressure ratio up to 56:1
- Double-acting piston pumps with fast-switching air motor
- 1- or 2-hand operation
- Modular design with various extensions and accessories







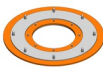





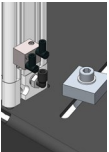
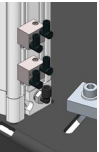







Pumps for lubricants

Technical specifications

				
Basic version		P30-LL	P80-LL	P200-LL
Tandem			X	
1-hand control		X		-
2-hand control			X	
Pressure ratio		11:1 / 33:1	33.5:1 / 56:1	11:1 / 33:1 / 48:1
Flow rate	l/min	1.2	0.9	1,2-3
Viscosity range	NLGI		0-4	
Operating pressure	bar	10-70 / 30-160	30-200 / 50-250	30-160 / 100-250
Maximum pressure	bar	250	355	400
Max. air consumption	l/min	350-950	1,000-1,500	250 / 350 / 950
Base plate dimensions	mm	600 x 550	600 x 550	900 x 600
Retracted height	mm	1100	1470	1560
Extended height	mm	1570	2230	2560
Max. container size	l	30	80	200
Max. container height	mm	450	750	880
Max. container outer Ø	mm	455	440	600
Weight (basic version)	kg	66	74	125

Modules and options

Basic module	Single pump P30, P80, P200		Tandem pump P30, P80, P200	
Control unit	1-hand control		2-hand control	
Drive pressure limit	Reduction of drive pressure for pressure-sensitive materials (3/3.5/4/4.5/5/6 bar)			
Pump	Chop check grease pump: For lubricants from NLGI0 to NLGI4			
Follower plate	PUR lip seal For smooth containers		PUR double-lip seal For containers with beading	
Chassis	U-profile Pump can be moved with a pallet truck		Rollers Increases the mobility of the pump	
Drum change support	Drum roll-in mechanism Helps roll up the 200-litre drum		Drum roller conveyor Allows easy replacement of the 200-litre drum	
Conformity of the product	Complete machine With CE conformity, Integrated emergency-off function, Adjustable air inlet pressure		Incomplete machine With EC declaration of incorporation, Without emergency-off, Inlet air pressure not adjustable	
Level alarm	Empty alarm		Empty alarm +pre-alarm	
External communication	Monitoring I Level min/Level empty		Monitoring II Pump running/Level min./Level empty	
Material relaxation	Pump pressure release Material pressure release directly at the pump outlet + air pressure release at the ram		System pressure release Material pressure release at additional release valve + air pressure release at the ram	
Connection block	Connection block with deairing valve For deairing the feed pump			
Extensions	Connection block with material filter 60 mesh (filter size 250 µm)		Connection block with mixer	
Follower plate deairing	Manual Via ball valve		Automatic Fully automatic deairing process   Start via drum edge detection	

glueLine

# Pumps for adhesives and sealants

## Efficient processing of single-component materials



### Benefits for you

- Individual configuration
- User-friendly and ergonomic 2-hand operation
- Available in a stainless and wear-resistant version for particularly demanding materials
- Available in ATEX design
- Clean, oil-free high-performance drives

DOPAG developed the drum pumps in the glueLine product range especially for feeding adhesives and sealants. The reliable design combined with the high level of user-friendliness allow for worry-free everyday production operations.

### The right pump for every material

With the glueLine, DOPAG offers drum pumps for processing medium to high-viscosity materials. In addition to lubricants, they feed adhesives, sealants, polyurethanes and silicones with viscosities of up to 5.0 million mPas directly and precisely from the original container. Thanks to its modular design and wide range of variants, the pump can be tailored precisely to the material used and customer requirements.

In addition to the standard design, versions in stainless steel, a wear-resistant version for abrasive fillers or with ATEX certification are also available. Different sealing options complete the broad portfolio.

### Product features

- Sizes for 30, 80 and 200 litres
- For feeding medium to high viscosity materials
- Max. viscosity 5.0 million mPas
- Flow rate of up to 6 litres/minute
- Pressure ratio up to 75:1
- Double-acting piston pumps with fast-switching air motor
- 1- or 2-hand operation
- Modular design with various extensions and accessories
- Various seal types/materials available



Connection block with ball valve

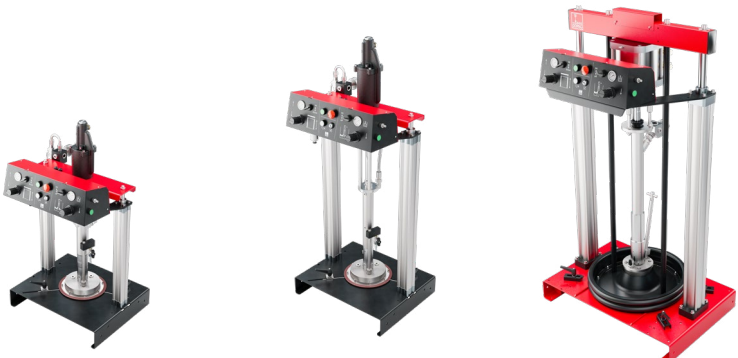


Airing and deairing rod and sealing fluid container for use with hardening materials















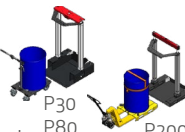





# Pumps for adhesives and sealants

## Technical specifications



Basic version		P30-GL	P80-GL	P200-GL
Tandem			X	
1-hand control		X		–
2-hand control			X	
Pressure ratio		11:1 / 33:1	33.5:1 / 56:1	23:1 / 48:1 / 56:1 / 75:1
Max. flow rate	l/min	1.2	0.9	0.6–6
Viscosity range	mPas	2.5 million		2.5 / 5.0 million
Operating pressure	bar	10–70 / 30–160	30–200 / 50–250	10–250
Maximum pressure	bar	250	355	400
Max. air consumption	l/min	350 / 950	740 / 1,200	790 / 2,500
Base plate dimensions	mm	600 x 550	600 x 550	900 x 600
Retracted height	mm	1100	1470	1560
Extended height	mm	1570	2230	2560
Max. container size	l	30	80	200
Max. container height	mm	450	750	880
Max. container outer Ø	mm	455	440	600
Weight (basic version)	kg	66	74	174

## Modules and options

Basic module	<b>Single pump</b> P30, P80, P200		<b>Tandem pump</b> P30, P80, P200		
Control unit	<b>1-hand control</b>		<b>2-hand control</b>		
Drive pressure limit	Reduction of drive pressure for pressure-sensitive materials (3/3.5/4/4.5/5/6 bar)				
Pump	Different pump versions available: Resistance: Standard/Rust-proof/Wear-resistant Seal: FPM/EPDM				
Follower plate	<b>EPDM lip seal</b> For smooth containers		<b>EPDM double-lip seal</b> For drums with beading		
	<b>O-ring EPDM</b> For reactive materials		<b>Hose seal</b> For 200-litre drums		
Chassis	<b>U-profile</b> Pump can be moved with a pallet truck		<b>Rollers</b> Increases the mobility of the pump		
Drum change support	<b>Drum roll-in unit</b> Helps roll up the 200-litre drum		<b>Drum roller conveyor</b> Allows easy replacement of the 200-litre drum		<b>Drum pallet</b> Drums are changed using a transportable drum pallet. Drum lifting by operator is eliminated. 
Conformity of the product	<b>Complete machine</b> With CE conformity, Integrated emergency-off function, Adjustable air inlet pressure		<b>Incomplete machine</b> With EC declaration of incorporation, Without emergency-off, Inlet air pressure not adjustable		
Level alarm	Empty alarm		Empty alarm + pre-alarm		
External communication	<b>Monitoring I</b> Level min/Level empty		<b>Monitoring II</b> Pump running/Level min./Level empty		<b>Control unit</b> Pump ready/Pump running/ Level min/Level empty/Start-Stop/ Supply air on-off
Connection block	<b>Connection block with ball valve</b> For deairing the feed pump				
Extensions	<b>Connection block with material filter</b>		Available with: 16 mesh (filter size 1,180 µm) 30 mesh (filter size 600 µm) 60 mesh (filter size 250 µm) 100 mesh (filter size 150 µm)		
Follower plate deairing	<b>Manual</b> Via ball valve				
Adhesive Options	Airing and deairing rod and sealing fluid container for use with hardening material				



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We are one of the world's most experienced manufacturers of high-quality metering technology. Wherever adhesives, resins, silicones or lubricants are metered and applied in industrial production, we offer reliable, precise solutions. We provide systems and components for highly automated production processes, including for the automotive, wind, household appliances and electrical industries, as well as for aviation.

DOPAG is part of the HILGER & KERN GROUP, a reliable supplier and a development and service partner to industrial companies in a variety of market segments for almost 100 years. The group employs around 350 people and has subsidiaries and distributors in more than 40 countries.



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