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Drum pumps

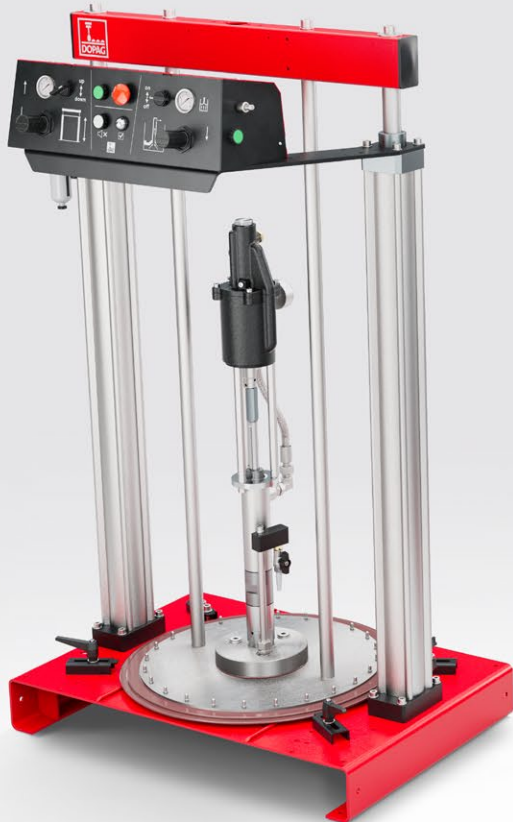
RELIABLE FEEDING OF
LUBRICANTS, ADHESIVES
AND SEALANTS



For maximum production reliability



Processing lubricants, adhesives and sealants reliably and safely



lubriLine

Pumps for lubricants

Page 4



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 possi-

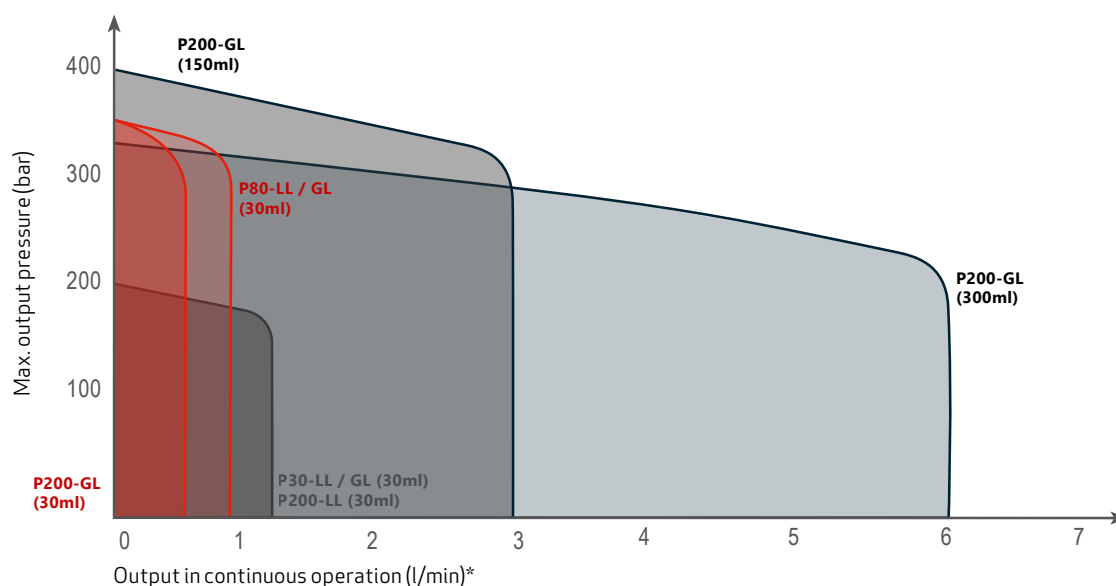
ble to tailor the configuration precisely to the customer's needs and material. DOPAG also offers a wide range of follower plates so that all container types and sizes (cylindrical, conical, with beads, cartridges, etc.) can be covered.

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.

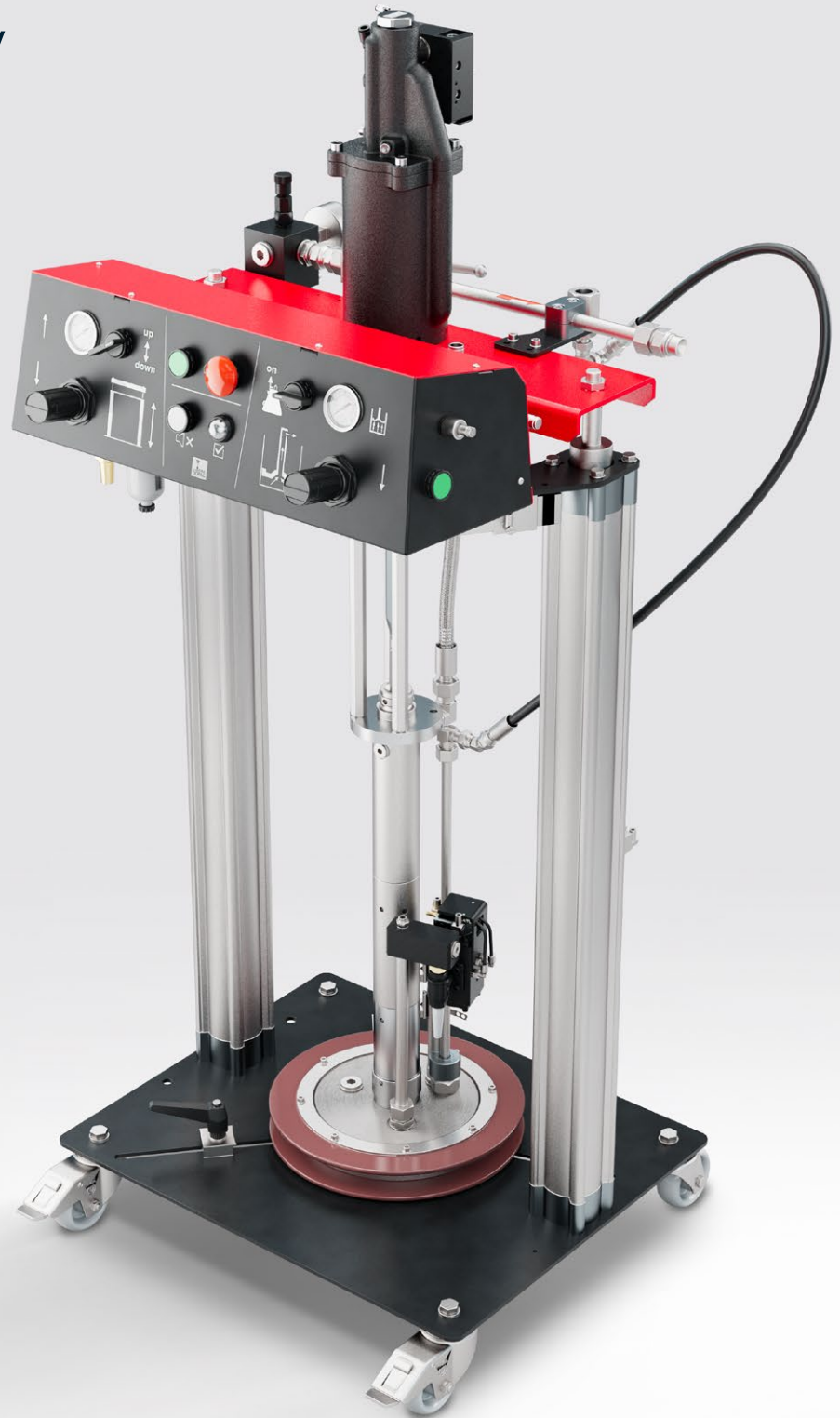


*Short-term increases in output are possible

lubriLine

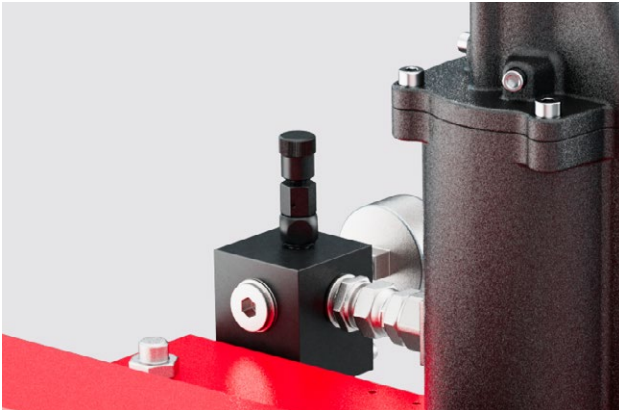
Pumps for lubricants

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Feed grease reliably

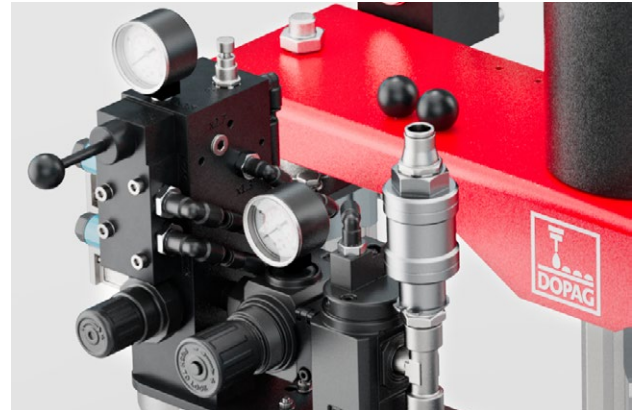


Benefits for you

- 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.

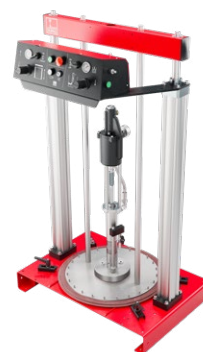
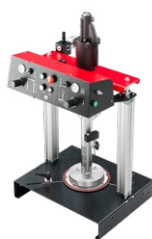
Automatic follower plate deairing is also optionally available, which ensures a correct deairing process when changing containers. The risk of operating errors is reduced, whilst air pockets and unnecessary material waste are prevented.

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

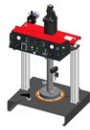










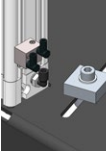
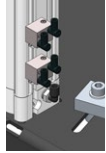
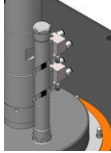






Pumps for lubricants

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 	Hose seal For 200-litre drums 
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 	Available in combination with drum bottom detection to reduce material loss at the bottom of the drum 
External communication	Monitoring Level min./Level empty	Monitoring Pump running/Level min./Level empty	Control unit Pump ready/Pump running/Level min./Level empty/Start-Stop/Supply air on-off
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	Circulation Homogenisation through adjustable material circulation and mixer For reducing material separation in containers and pipes System pressure release included
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 	Connection block with material filter 60 mesh + mixer (filter size 250 µm) 
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



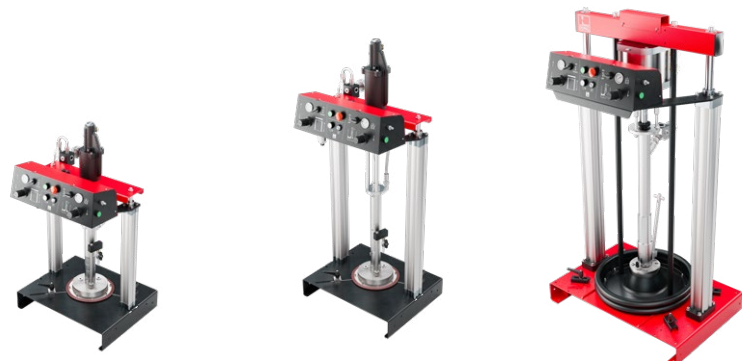
Connection block with ball valve



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





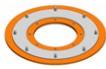





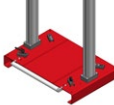

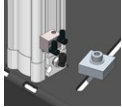

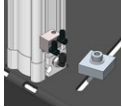




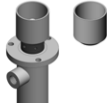

Pumps for adhesives and sealants [www.](http://www.dopag.com)

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	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	Different pump versions available: Resistance: Standard/Rust-proof/Wear-resistant Seal: FPM/EPDM		
Follower plate	EPDM lip seal For smooth containers 	EPDM double-lip seal For drums with beading 	
	O-ring EPDM For reactive materials 	Hose seal For 200-litre drums 	
Chassis	U-profile Pump can be moved with a pallet truck 	Rollers Increases the mobility of the pump 	
Drum change support	Drum roll-in unit Helps roll up the 200-litre drum 	Drum roller conveyer 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 	Control unit Pump ready/Pump running/ Level min./Level empty/Start-Stop/ Supply air on-off
Connection block	Connection block with ball valve For deairing the feed pump 		
Extensions	Connection block with material filter 	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	Manual 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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