

Pump unit

P 502



Description

The P 502 is a simple, economical, electrically operated lubrication pump unit. It can provide directly a maximum of two individual lubrication points with lubricant or be connected to progressive metering devices. An integrated control board is available to set pause and lubrication time. Developed for fluid grease and grease, the P 502 features an optimized housing shape and reservoir suitable for food processing applications.

Features and benefits

- Economical operation
- Fits in tight/small places
- Flexible design for 12 and 24 V DC voltage supply
- Optional pressure-release valve
- Optimised housing design for splash zones in food processing

Applications

- Commercial vehicles
- Farm machinery
- Small construction machines
- Food and beverage industry

Technical data

Function principle	electrically operated piston pump
Operating temperature	-25 to +70 °C; -13 to +158 °F
Operating pressure	270 bar; 3 915 psi
Lubricant	grease: up to NLGI 2
Outlets	1-2
Metering quantity	depending on pump element per outlet: 0,36-1,98 cm ³ /min; 0.021-0.120 in ³ /min
Reservoir	1 l; 0.26 gal
Connection main line	G 1/4
Operating voltage	12/24 V DC
Protection class	IP 6K9K; IP65; IP67 depending on type of electrical connection
Dimensions	250 × 150 × 270 mm 9.84 × 5.91 × 10.63 in
Mounting position with follower plate	any
without follower plate	upright


NOTE

Further technical information, technical drawings, accessories, spare parts or product function descriptions are available on SKF.com/lubrication:

12737 EN

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Pump elements

Pumps 502 can be equipped with a maximum number of 2 pump elements. The gasket is always included. Please observe the assembly instructions 951-171-009-EN when installing additional pump elements. It is also possible to remove pump elements. The remaining hole must be plugged by a closure plug.

Each pump element must be secured by a pressure relief valve. Nickel-plated pump elements are used in corrosive conditions such as food and beverage industry. Pump element B7 DN is suited for problematic greases which are tougher than standard greases.

600-26877-2



Pump elements¹⁾

Order number	Description	Material	Piston	Nominal output ⁶⁾	
			Ø mm	cm ³ /min	in ³ /min
600-78018-1	pump element L5 ²⁾	steel, gasnitro-carburized	5	0,27	0.016
600-26875-2	pump element K5	steel, gasnitro-carburized	5	0,90	0.054
600-26876-2	pump element K6	steel, gasnitro-carburized	6	1,44	0.087
600-26877-2	pump element K7	steel, gasnitro-carburized	7	1,98	0.120
655-28716-1	pump element KR	steel, gasnitro-carburized	7	0,36-1,62	0.02-0.098
600-28750-1 ³⁾	pump element C7	steel, gasnitro-carburized	7	1,98	0.120
600-29303-1	pump element K5 DN	steel, nickel-plated ⁵⁾	5	0,90	0.054
600-29304-1	pump element K6 DN	steel, nickel-plated ⁵⁾	6	1,44	0.087
600-29305-1	pump element K7 DN	steel, nickel-plated ⁵⁾	7	1,98	0.120
600-29185-1 ⁴⁾	pump element B7 DN	steel, nickel-plated ⁵⁾	7	0,90	0.054

1) male thread M 22 x 1,5; female thread G 1/4

2) L only permitted for application of NLGI 00 lubrication grease

3) pump element for supplying of chisel paste

4) with bypass check valve

5) for application in beverage industry

6) The stated nominal outputs per minute and pump element refer to NLGI 2 lubrication greases at an ambient temperature of + 20 °C [68 °F] and a pressure of 100 bar [1450 psi] at the outlet of the pump element. Deviating operating conditions or deviating pump configuration result in a changed motor speed of 9 rpm and thus in a change of the output per time unit.

Return-line connector

The return-line connector is designed to feed grease quantities which are not required back into the pump reservoir (from a progressive metering device). It is installed in the mounting hole instead of a pump element.

Return-line connector with filler fitting, screw type

Order number	Description	Filling nipple	Thread	Tube
				Ø mm
504-30698-1	return-line connector	straight	R 1/4	6
504-36071-5	return-line connector	straight, with adapter	R 1/4	6
504-36071-6	return-line connector-line	90°	R 1/4	6
304-16543-1	adapter; for a return line connection instead of a closure plug (pump element)		M22x1,5xG1/4	

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Pressure relief valves

Order number	Designation	Description	Relief pressure		Connection type pressure line
			bar	psi	
624-28892-1	SVTE-270-1/4-D6	pressure relief valves	270	3 915	screw type fitting D6
624-28893-1	SVTE-270-1/4-D8	pressure relief valves	270	3 915	screw type fitting D8
624-29087-1	SVS-200-6-1/4-6	pressure relief valve assembly with grease return to the reservoir	200	2 900	push-in type D6
524-32231-1	retrofit kit	retrofit kit for existing pressure relief valve	–	–	–
235-14343-2	valve insert	for pressure relief valves as replacement	270	3 915	–
235-14343-1	valve insert	for pressure relief valves as replacement	200	2 900	–
235-14343-5	valve insert	for pressure relief valves as replacement	120	1 740	–
235-14343-4	valve insert	for pressure relief valves as replacement	80	1 160	–

Quick filling connector without filter, connection thread G¹/₄

Order number	Description	Connection
544-36961-1	filler fitting with protective cap	G ¹ / ₄
504-32125-1	coupling plug with protective cap	G ¹ / ₄
233-10765-3	protective cap; for replacement	G ¹ / ₄

Quick filling connector

Quick filling connectors can be installed either by removing the standard hydraulic nipple or by removing the closure plug instead of a pump element.

They are used for a quick filling with an hand-operated or pneumatic operated barrel pump. Please refer to the accessories catalogue regarding filling pumps

Quick filling connector

Order number	Description	Connection
540-36753-5	filler fitting assembly	M22×1,5
540-31800-1	filler fitting with filter	M22×1,5
504-36071-7	filler fitting without filter	M22×1,5

544-36961-1



Push button and fuse holder

Order number	Description	Description
664-85388-9	pushbutton red	12/24 VDC
237-13321-8	fuse holder	with fuse current load: 5 A

237-13321-8

