

Pump unit PPS30

Air operated oil and fluid grease pump
for single-line lubrication systems



SUSTAINABLE
OPERATION THANKS
TO LOW ENERGY
REQUIREMENTS



Fluid greases 000, 00
oils 20–1 500 mm²/s



up to 27 bar
(390 psi)



10 to 50 °C
(50 to 122 °F)



30 cm³/stroke
(1.83 in³/stroke)



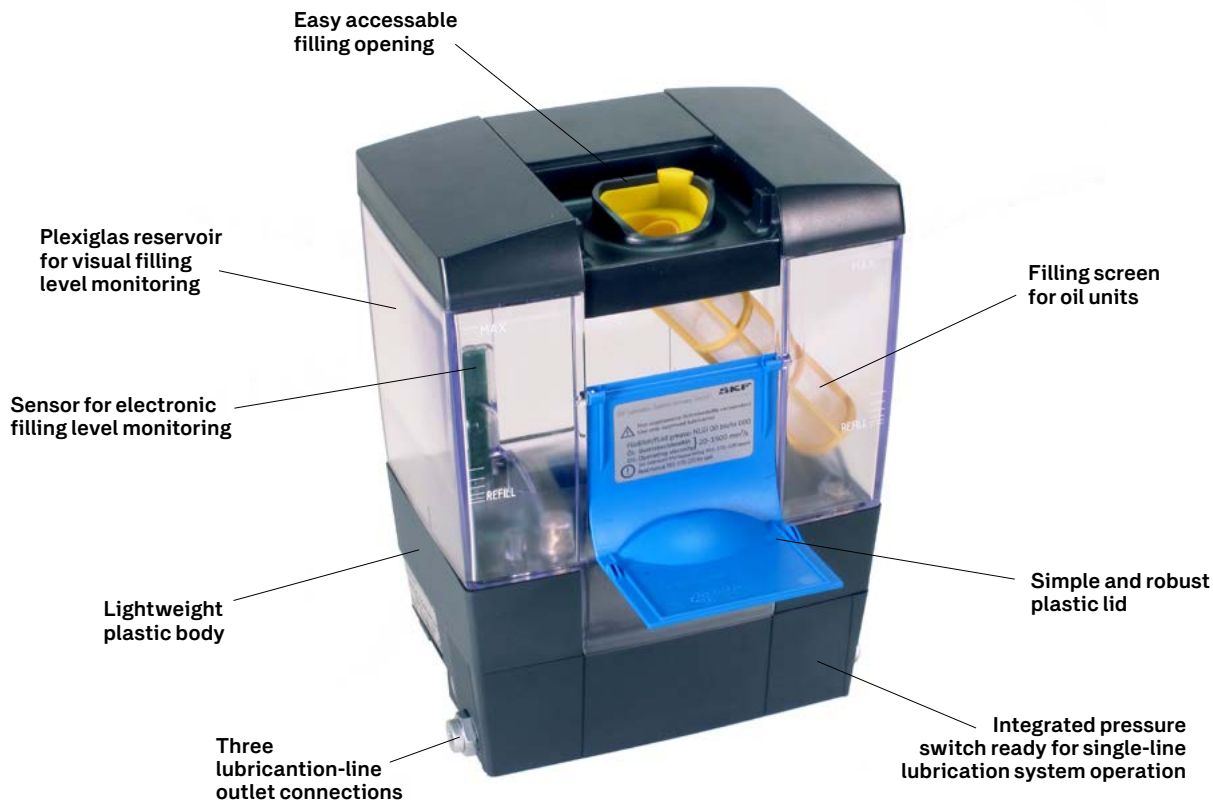
Protection
class IP54



Applications

- Chain lubrication
- Woodworking
- Machine tool
- Automation
- Packaging
- Printing
- Textiles

Product information



Description

PPS30 is an air-driven, reliable, and lightweight lubrication pump unit that combines proven lubrication technology with integrated functional elements. There are versions for suitable for oil and fluid grease with a reservoir volume of 1.5 liters (0.4 gal) optionally with electrical level monitoring. The central opening allows easy filling from all sides. To prevent lubricant contamination, the oil versions is equipped with a filler screen. The PPS30 has very low operating costs due to its low actuation pressure air consumption. Three main line outlets - located on both sides and at the rear of the pump - supply up to three individual lubrication lines at the same time. The integrated pressure switch supports plug-and-play commissioning for single-line lubrication systems. The PPS30 properties make this pump an all-rounder for the lubrication of small and medium-sized machines with up to 50 lubrication points.

Features and benefits

- Low energy requirements
- Quick and simple installation
- Optional low filling level alarm
- Serves up to three lubrication lines
- Electrical and visual fill-level control
- Integrated pressure switch for plug&play single-line automatic system operation

Technical data

Function principle	air operated piston pump (single stroke)
Number of outlets	max. 3
Metering quantity	30 cm ³ /stroke; 1.83 in ³ /stroke
Working frequency	6 strokes/hour
Lubricant	mineral and synthetic oils, operating viscosity of 20-1500 mm ² /s; fluid grease NLGI 000, 00
Operating temperature	+10 to 50 °C; +50 to 122 °F
Operating pressure	max. 27 bar; max. 392 psi
Actuation pressure	4,5-6 bar; 65-87 psi
Reservoir capacity	1,5 l; 0.39 gal
Material (reservoir)	plastic (SAN)
Connection outlet / Air inlet	M10×1 thread or plug connector for pipes Ø6 and Ø8 mm or banjo fitting for pipe Ø6 mm
Transmission ratio	1:4,5
Dimensions	187 × 246 × 129 mm 7.3 × 9.6 × 5.1 in
Installation space	230 × 300 × 250 mm 9 × 11.8 × 9.8 in
Mounting position	upright

NOTE



3D product configurator and CAD download available here:

skf-lubrication.partcommunity.com

Order information

Order key	P	P	S	3	0	-	2										
Air operated piston pump																	
Lubricant																	
S = Oil and fluid grease																	
Delivery rate																	
30 = 30 cm ³ /stroke, 1.83 in ³ /stroke																	
Generation																	
Lubricant reservoir																	
1 = 1.5 liters, 3.2 pt lqd ¹⁾																	
2 = 1.5 liters with oil filler screen ²⁾																	
Fill level switch, min.																	
W1 = with level switch ¹⁾																	
XX = without level switch																	
Pressure switch																	
A = 16 bar, 232 psi ¹⁾																	
X = without																	
Electrical connection ³⁾																	
X = without A = M12×1 plug, 4-pin ¹⁾																	
Pneumatic connection ⁴⁾																	
1 = pipe thread M10×1																	
2 = plug connector for pipe Ø6																	
3 = banjo fitting for pipe Ø6 ¹⁾																	
4 = plug connector for pipe Ø8																	
Main line connection																	
1 = pipe thread M10×1																	
2 = plug connector for pipe Ø6 ¹⁾																	
3 = banjo fitting for pipe Ø6																	
4 = plug connector for pipe Ø8																	
X = closed																	

¹⁾ Standard design
²⁾ The oil filler screen option can be used only on PPS30 pumps produced after September 29, 2017.
³⁾ "x" is assigned automatically if fill level switch and pressure switch is not selected.
⁴⁾ Must select pneumatic connection

Standard designs - PPS30 incl. filling level sensors and pressure switches

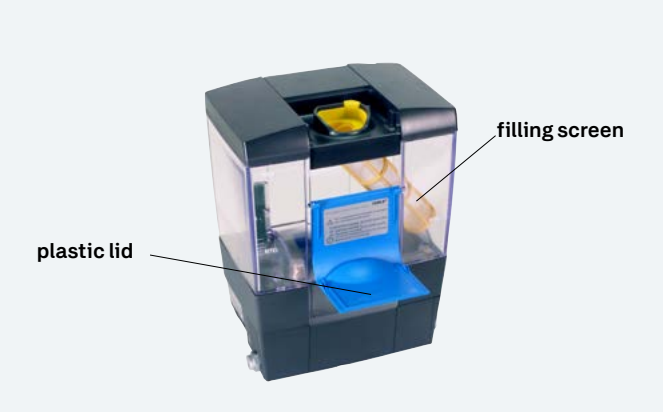
Order number	Lubricant oil	fluid grease	Filling screen	Number of outlets	Outlet position(s)	Connection outlet
PPS30-21W1AA2XX2	•	•	–	1	right	SKF Quick Connector for tube Ø6mm
PPS30-21W1AA4XX1	•	•	–	1	right	M10x1 connection thread
PPS30-21W1AA12XX	•	•	–	1	left	SKF Quick Connector for tube Ø6mm
PPS30-21W1AA11XX	•	•	–	1	left	M10x1 connection thread
PPS30-22W1AA2XX2	•	–	•	1	right	SKF Quick Connector for tube Ø6mm
PPS30-22W1AA2XX1	•	–	•	1	right	M10x1 connection thread
PPS30-22W1AA22XX	•	–	•	1	left	SKF Quick Connector for tube Ø6mm
PPS30-22W1AA21XX	•	–	•	1	left	M10x1 connection thread
PPS30-21W1AA22X2	•	•	–	2	left & right	SKF Quick Connector for tube Ø6mm
PPS30-21W1AA41X1	•	•	–	2	left & right	M10x1 connection thread
PPS30-22W1AA22X2	•	–	•	2	left & right	SKF Quick Connector for tube Ø6mm
PPS30-22W1AA21X1	•	–	•	2	left & right	M10x1 connection thread

Fittings and accessories



Fittings	
Order number	Description
406-004-VS	SKF quick connector for pipe Ø6 mm
506-140-VS	SKF quick connector banjo fitting for pipe Ø6 mm
408-004-VS	SKF quick connector for pipe Ø8 mm
466-431-001	screw plug

Accessories	
Order number	Description
995-901-061	adapter plate for mounting (kit incl. 4 screws)
995-901-062	air pressure control valve (kit)
995-901-063	3/2 directional air control valve 24 V DC (kit with adapter)



Spare parts	
Order number	Description
169-400-405	filling screen (for oil pumps only)
992-300-005	plastic lid

skf.com | skf.com/lubrication | skf.com/pps30

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