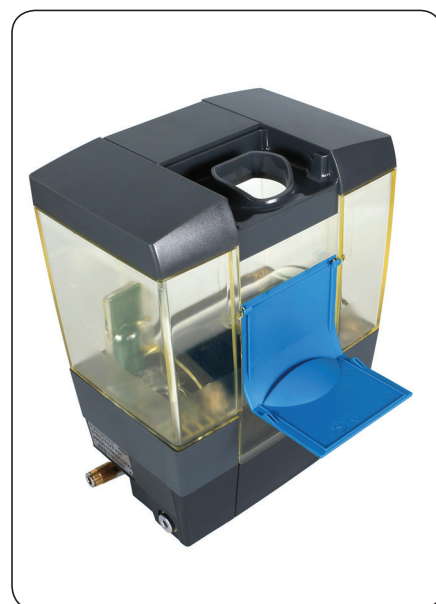


Pneumatically driven piston pump unit PPS30

For small and medium-sized machines and equipment using fluid grease and oil



Setting new standards in terms of design, the compact PPS30 pump unit features proven, robust lubrication technology with integrated functional elements.

- Extremely compact, sealed design with a modern appearance
- Concentrated functionality with integrated relief valve and electronic sensors

Developed with the operator in mind, the unit's overall shape and ergonomically integrated controls provide ease of use.

- Fast and simple installation
- Flexible connection system for any mounting position
- Easy visual fill level monitoring, plus electric fill level control
- Simple cleaning
- New concept for filling the reservoir: a central opening enables easy filling from all sides, and the forward-opening flap also serves as drip protection.

The unit combines innovative design with modern, integrated technology and enables safe and secure supply of lubricant to your machine. In addition to low investment costs, it offers very low operating costs over the entire life cycle due to its minimal compressed air consumption. The unit is compact, lightweight and made almost entirely of functional, high-performance plastics.



Example of a typical system layout

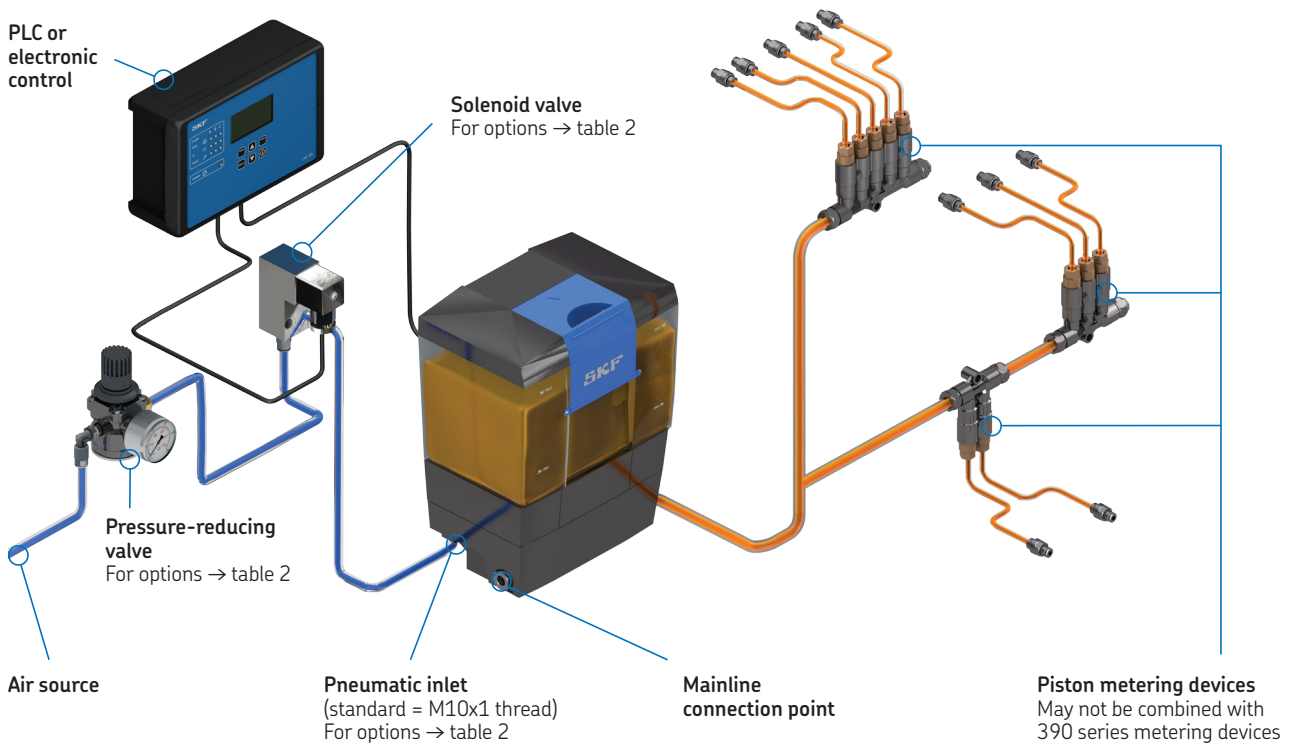


Table 1

Technical data

Pump	
Dimensions (WxHxD)	187 x 246 x 129 mm (7.36 x 9.68 x 5.08 in.)
Minimum installation space (WxHxD)	230 x 300 x 250 mm (9.05 x 11.81 x 9.84 in.)
Weight (empty)	1,95 kg (4 lb 5 oz)
Mounting position	vertical
Drive	pneumatic
Reservoir capacity	1,5 l (3.2 US pt lqd)
Reservoir material	Plastic (SAN)
Actuation pressure	4,5–6 bar (65.3–87 psi)
Operating pressure	up to 27 bar (391 psi) ¹⁾
Lubrication cycle number	max. 6 cycles/h
Delivery volume	30 cm ³ /stroke (1.83 in ³ /stroke)
Operating temperature	+10 to +50 °C (+50 to +122 °F)
Protection class per DIN EN 60529	IP54
Lubricant	Mineral and synthetic oil Operating viscosity 20–1 500 mm ² /s Fluid grease, NLGI-Grade 000, 00 max. 3
Fill level switch to monitor minimum lubricant level²⁾	
Lubricant	Oil or fluid grease
Function	Capacitive, NC-contact
Switched voltage range	10–36 V DC
Power consumption	max. 150 mA
Pressure switch to monitor pressure build-up and overall function	
Function	NO-contact
Rated pressure	16 bar (232 psi)
Electrical connection	4-pin M12x1 circular plug In compliance with DIN EN 60947-5-2

¹⁾ Dependent upon inlet air pressure

²⁾ Can be used as pre-warning signal

Reverse side of pump

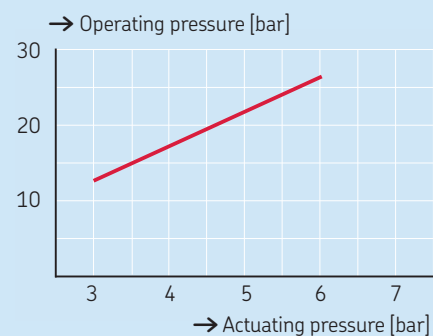
M12x1 plug, 4-pin connector

Required when fill level and/or pressure switch is included

Mounting holes for adapter plate

Three mainline connection points
(standard = plugged) for options → table 2
Note: third port not visible in this view

Pressure diagram for pneumatic drive



How to order

Order code	P	P	S	3	0	-	2	1											
Piston pump, pneumatically actuated																			
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⁾																			
Fill level switch, min.																			
W1 = With ¹⁾ XX = Without																			
Pressure switch																			
A = 16 bar, 232 psi ¹⁾ X = Without																			
Electrical connection ²⁾																			
A = M12×1 plug, 4-pin ¹⁾																			
Pneumatic connection ³⁾																			
1 = Pipe thread M10×1 2 = Plug connector for pipe ø6 ^{1) 4)} 3 = Banjo fitting for pipe ø6 ^{1) 4)}																			
3 = Banjo fitting for pipe ø6 ^{1) 4)} 4 = Plug connector for pipe ø8 ⁴⁾																			
Main line connection																			
1 = Pipe thread M10×1 2 = Plug connector for pipe ø6 ^{1) 4)} 3 = Banjo fitting for pipe ø6 ⁴⁾																			
4 = Plug connector for pipe ø8 ⁴⁾ X = Closed ⁴⁾																			

1) Standard design
2) Electrical connection required if fill level switch and/or pressure switch is selected
3) Must select pneumatic connection
4) For fitting order numbers → table 2

Table 2

Accessories

Solenoid valves

3/2-way air inlet valve	24 VDC	161-120-067+924
	110 VAC	161-120-067+910
3/2 directional control valve (kit with adaptor)	24 VDC	995-901-063

Pressure-reducing valve

995-901-062

Optional fittings for pneumatic and mainline connections

Plug connector for pipe ø6	Order code 2	406-004-VS
Banjo fitting for pipe ø6	Order code 3	506-140-VS
Plug connector for pipe ø8	Order code 4	408-004-VS
Closed	Order code X	466-421-001

Adapter plate for mounting

214 x 48 x 10 mm
(8,43 x 1,89 x 0,39 in.)

995-901-061



(→ see publication 1-1703-EN or skf.com for additional accessory options)

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SKF and Lincoln lubrication systems or their components are not approved for use with gases, liquefied gases, pressurized gases in solution and fluids with a vapor pressure exceeding normal atmospheric pressure (1 013 mbar) by more than 0,5 bar at their maximum permissible temperature.



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