

Pump unit

P 230



Product description

A derivative of the P 215 pump, the P 230 is a high-pressure, multi-line pump that can drive up to 30 adjustable pump elements. It is used within a multi-line system to directly supply lubrication points or within large-sized progressive systems. Due to the increased number of possible pump elements compared to the P 215, a powerful 0,25 kW motor is used.

P 230 pumps are available with a three-phase, multi-range motor or a single-range motor, and various gear ratios are offered. Suitable for grease or oil, reservoirs are available in different sizes with or without level control.

Features and benefits

- Sturdy and durable pump series
- Continual lubrication of machines and systems that operate in harsh environments
- Broad range of output options due to increased number of outlets and varying sizes of adjustable pump elements
- Modular design and easy maintenance

Applications

- Stationary machines with high lubricant consumption
- Rubber- and plastic-mixing machines
- Conveyors
- Cranes
- Eccentric presses
- Forging machines

Technical data

Function principle	radial piston pump with stirrer, rotary, oscillating or electrically operated
Outlets	1 to 30
Operating temperature	-20 to +40 °C, -4 to +104 °F
Lubricant	mineral and synthetic oil and grease oil: viscosity from 20 mm ² /s grease: up to NLGI 2
Operating pressure	max. 350 bar, 5 075 psi
Metreing quantity per stroke	min. 0,11 cm ³ , 0.0067 in ³ max. 0,23 cm ³ , 0.014 in ³
Reservoir ¹⁾	30 and 100 kg, 66 and 220 lb
Internal ratio	49:1, 100:1, 490:1
Output per outlet	0,13–6,4 cm ³ /min, 0.008–0.39 in ³ /min
Outlet connection	G 1/4
E-motor drive	with 3-phase motor
Drive speed	< 28 min ⁻¹
Dimensions	min. 840 × 463 × 330 mm max. 1300 × 463 × 550 mm min. 33.07 × 18.23 × 12.99 in max. 51.18 × 18.23 × 21.65 in
Options	hydraulic drive; 24 V DC motor

¹⁾ valid for $\rho=1 \text{ kg/dm}^3$



NOTE

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see SKF.com/lubrication.

Pump unit

P 230

Identification code: **P 230** - [] - [] - [] - [] - [] - []

Product series

Drive
 MG = AC flange gear motor
 F = free shaft end

Gear ratio
 490 = 490:1
 100 = 100:1
 049 = 49:1 (for oil only)

Reservoir
 30 = steel plate, 30 l, 7.92 gal
 100 = steel plate, 100 l, 26.42 gal

Reservoir design
 YL = for oil with floating-switch low level
 XY = for grease and oil
 N = without level control
 BU = with level control (ultrasonic sensor for two switching points, low- and high-level)

Pump elements, adjustable, define max. 30 elements (f.i. 25 elements K6 = 25K6, ...)
 1-30 = number of pump elements
 K 5 = piston Ø 5 mm, max. adjustable output per stroke: 0,11 cm³, 0.0067 in³
 K 6 = piston Ø 6 mm, 0.236 in, max. adjustable output per stroke: 0,16 cm³, 0.0098 in³
 K 7 = piston Ø 7 mm, 0.275 in, max. adjustable output per stroke: 0,23 cm³, 0.014 in³

Supplements to motor designation
 380-420, 440-480 = multi-range motor for nominal supply voltages, 380-420 V AC/50 Hz, 440-480 V AC/60 Hz
 500 = single-range motor for nominal supply voltages, 500 V AC/50 Hz
 000 = pump without motor, with coupling flange



P 230 pump elements and pressure-relief valves

Order number	Description	Connection	Pressure max	
			bar	psi
600-27464-2	pump element K 5	G 1/4	-	-
600-25047-3	pump element K 7	G 1/4	-	-
600-25046-3	pump element K 6	G 1/4	-	-
303-19285-1	closing screw ¹⁾	M22 x 1,5	-	-
624-25478-1	pressure-relief valve	tube stud Ø 6 mm	200	2 900
624-25479-1	pressure-relief valve	tube stud Ø 6 mm	350	5 075
624-25480-1	pressure-relief valve	tube stud Ø 8 mm	200	2 900
624-25481-1	pressure-relief valve	tube stud Ø 8 mm	350	5 075
624-25482-1	pressure-relief valve	tube stud Ø 10 mm	200	2 900
624-25483-1	pressure-relief valve	tube stud Ø 10 mm	350	5 075
304-17571-1	filler adapter	G 1/4 female ²⁾	-	-
304-17574-1	filler adapter	G 1/2 female ²⁾	-	-

¹⁾ for outlet port instead of a pump element

²⁾ for connection to vacant outlet ports