

Pump unit

P 215



Product description

The P 215 is a high-pressure, multi-line pump that can drive up to 15 pump elements. Different sizes of adjustable elements are available. It is capable of handling direct supply of lubrication points or can be used as a centralized lubrication pump in large-sized progressive systems.

P 215 pumps are available with a three-phase, multi-range motor, with a single-range motor, with a free shaft end for use with other motors, or with an oscillating drive. Various gear ratios and reservoirs of different sizes and materials are available. The reservoirs are suitable for both grease and oil and are offered with or without level control.

Features and benefits

- Sturdy and durable pump series
- Continual lubrication of machines and systems that operate in harsh environments
- Versatile pump regarding reservoir and drive types
- Broad range of output possibilities due to high number of outlets and different sizes of pump elements
- Modular design and easy maintenance

Applications

- Stationary machines with a high lubricant consumption
- Screens and crushers in quarries
- Material handling equipment
- Roller coasters

Technical data

Function principle	radial piston pump with stirrer; rotary, oscillating or electrically operated
Outlets	1 to 15
Operating temperature	-25 to +70 °C, -13 to +158 °F
Operating pressure	350 bar, 5 075 psi
Lubricant	mineral and synthetic oil and grease oil: viscosity from 20 mm ² /s grease: up to NLGI 2
Metering quantity per stroke	min. 0,11 cm ³ , 0.0067 in ³ max. 0,23 cm ³ , 0.014 in ³
Reservoir ¹⁾	plastic: 4 and 8 kg, 8.8 and 17.6 lb steel: 10, 30 and 100 kg, 22; 67 and 220 lb
Internal ratio	7:1, 49:1, 100:1, 490:1
Output per Outlet	0,13 to 3,5 cm ³ /min, 0.008 to 0.21 in ³ /min
Outlet connection	G 1/4
E-motor drive	with 3-phase motor
Drive speed	< 28 min ⁻¹
Dimensions	min. 438 × 453 × 326 mm max. 1 225 × 600 × 550 mm min. 17.24 × 17.84 × 12.84 in max. 48.23 × 23.26 × 21.65 in
Protection class	IP 55
Mounting position	vertical
Options	hydraulic driven; 24 V DC motor
¹⁾ valid for ρ=1 kg/dm ³	



NOTE

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publication available on SKF.com/lubrication:

13651 EN

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Product series

Drive
 M = AC flange motor
 F = free shaft end
 P = oscillating drive

Gear ratio
 490 = 490:1
 100 = 100:1
 049 = 49:1 (for oil only)
 007 = 7:1 (for P and F drive assemblies only)

Reservoir
 4 = plastic, 4 l, 1.05 gal 30 = steel plate, 30 l, 7.92 gal
 8 = plastic, 8 l, 2.11 gal 100 = steel plate, 100 l, 26.42 gal
 10 = steel plate, 10 l, 2.64 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, define max. 15 elements (f.i. 11 elements K 7 = 11K7, ...)
 1–15 = number of pump elements, adjustable
 K 5 = piston Ø 5 mm, max. adjustable output per stroke: 0,11 cm³, 0.0067 in³
 K 6 = piston Ø 6 mm, max. adjustable output per stroke: 0,16 cm³, 0.0098 in³
 K 7 = piston Ø 7 mm, max. adjustable output per stroke: 0,23 cm³, 0.014 in³

Motor designation, supplements
 320–420, 440–480 = multi-range motor for nominal supply voltages, 380–420 VAC/50 Hz, 440–480 VAC/60 Hz
 500 = single-range motor for nominal supply voltages, 500 V/50 Hz
 000 = pump without motor, with coupling flange



P215 pump elements and pressure-relief valves

Order number	Description	Connection	Operating pressure max.	
			bar	psi
600-27464-2	pump element K 5	G 1/4	–	–
600-25046-3	pump element K 6	G 1/4	–	–
600-25047-3	pump element K 7	G 1/4	–	–
303-19285-1	closing screw ¹⁾	M 22 x 1,5	–	–
624-25478-1	pressure-relief valve ²⁾	tube stud Ø 6 mm	200	2 900
624-25479-1	pressure-relief valve ²⁾	tube stud Ø 6 mm	350	5 075
624-25480-1	pressure-relief valve ²⁾	tube stud Ø 8 mm	200	2 900
624-25481-1	pressure-relief valve ²⁾	tube stud Ø 8 mm	350	5 075
624-25482-1	pressure-relief valve ²⁾	tube stud Ø 10 mm	200	2 900
624-25483-1	pressure-relief valve ²⁾	tube stud Ø 10 mm	350	5 075
304-17571-1	filler fitting ¹⁾	G 1/4 female, M 22 x 1,5	–	–

¹⁾ for outlet port instead of a pump element
²⁾ filling connector fits for vacant outlet ports