215 Pumps

Pump 215

The 215 centralized lubrication pump is a high-pressure multi-line pump that can drive up to 15 adjustable pump elements and is used in progressive automated lubrication systems. It is capable of handling direct supply of lubrication points or as a central lubrication pump in large sized progressive systems.

215 pumps are available with a three-phased multi-range motor for 380–420 volts at 50 Hz or 440–480 volts at 60 Hz, with a single-range 500 volt, 50 Hz motor, with a free shaft end for use with other motors, or with an oscillating drive. Various gear ratios and reservoir sizes, with or without level control are available. The reservoir, available in 4, 8, 10 or 30 liter sizes, is suitable for both grease and oil.

Popular 215 Models

Part No.	Description	Motor	Gear Ratio	Reservoir Size (liter) Liters	In^3	Lbs.	Level Control	Number of Elements
660-40707-1	P215-M100-30XYBU-13K7-380-420/440-480	3-phase	100:1	30	1830	60	yes	13 (7 mm)
660-40724-4	P215-M490-10XYBU-2K7-380-420/440-480	3-phase	490:1	10	610	20	yes	2 (7 mm)
660-40729-4	P215-M100-10XYBU-1K6-380-420/440-480	3-phase	100:1	10	610	20	yes	1 (6 mm)
660-40751-1	P215-M100-10XYBU-6K7-380-420/440-480	3-phase	100:1	10	610	20	yes	6 (7 mm)
660-40569-7	P215-F049-30XYN-13K7-000	free shaft end, no motor	49:1	30	1830	60	no	13 (7 mm)
660-40751-6	P215-M100-10XYBU-2K6-380-420/440-480	3-phase	100:1	10	610	20	yes	2 (6 mm)

These pumps do not include a pressure relief valve which must be ordered separately.

Accessories

Part No.	Description	Tube Diameter	Pressure
624-25478-1	relief valve	6 mm tube via T-fitting	200 bar (2900 psi)
624-25479-1	relief valve	6 mm tube via T-fitting	350 bar (5076 psi)
624-25480-1	relief valve	8 mm tube via T-fitting	200 bar (2900 psi)
624-25481-1	relief valve	8 mm tube via T-fitting	350 bar (5076 psi)
624-25482-1	relief valve	10 mm tube via T-fitting	200 bar (2900 psi)
624-25483-1	relief valve	10 mm tube via T-fitting	350 bar (5076 psi)
304-17571-1	filling connector G 1/4” female* (BSPP)		
304-17574-1	filling connector G 1/2” female* (BSPP)		
600-25047-3	pump element K7		
600-25046-3	pump element K6		

** For vacant outlet ports*

215 Pumps

Technical Data

number of outlets	1 - 15				
threaded connection	G 1/4 female (BSPP)				
maximum operating pressure	350 bar (5076 psi)				
suitable lubricants	grease up to NGLI 2 NGLI 3 on request oil with viscosity of min. 20 mm^2/s				
max. lubricant output per piston stroke	6 mm			7 mm	
(adjustable from 25% to max. 100%)	0.04 – 0.16 cm^3 (0.0025 – 0.010 in^3)			0.057 – 0.23 cm^3 (0.0035 – 0.014 in^3)	
approx. max lubricant output per hour (output increases by 20% for 60 Hz applications)	ratio:	490:1	100:1	49:1	7:1 (available only for free shaft end or oscillating drive)
	piston dia. 6 mm	27 cm^3 (1.6 in^3)	132 cm^3 (8.0 in^3)	268 cm^3 (16.4 in^3)	(1.04 in^3) 25 cm^3
	piston dia. 7 mm	39 cm^3 (2.4 in^3)	189 cm^3 (11.5 in^3)	386 cm^3 (23.5 in^3)	(1.52 in^3) 5 – 22 cm^3
operating temperature	-20 to 70° C (-4 to 158° F)				
level control	ultrasonic sensor for low and high-evel control (optional)				

Dimensions

Reservoir Size	Height	Depth	Depth
4 liters* (without low-level control)	438 mm (17.25 in)	411 – 453 mm (16 – 18 in) depending on version	326 mm (13 in)
8 liters* (without low-level control)	539 mm (21.25 in)		
10 liters** (without low-level control)	520 mm (20.50 in)		
30 liters** (without low-level control)	760 mm (30.00 in)		
low-level sensor	30 mm (1.2 in)	125 mm (4.9 in)	65 mm (2.6 in)

* *transparent plastic*
** *metal*

230 Pump

The 230 pump is a derivative of the 215 multi-line pump. The 230 pump can drive up to 30 adjustable pump elements. As a result of the increased number of possible pump elements, a 0.25 kW motor is used. All other technical specifications, including accessoires, are equivalent to the 215 pump.

Popular 230 Models

Part No.	Description	Motor	Gear Ratio	Reservoir Size (liter)	Level Control	Number of Elements
662-40842-3	P230-MG100-30XYBU-30K7-380-420/440-480	3-phase	100:1	30 (7.9 gal)	yes	30 (7 mm)
662-40899-4	P230-MG100-30XYBU-17K7-380-420/440-480	3-phase	100:1	30 (7.9 gal)	yes	17 (7 mm)

Dimensions

Height	Depth	Depth
831 mm (32.7 in)	463 mm (18.2 in)	328 mm (12.9 in)

Identification Code
Pump 215

The complete pump unit is defined by a type code on the nameplate.

Examples of Type Codes	Description						
	P215-	M	490-	10XYBU-	5 K6-	380-420 / 440-480,500
	P215-	F	100-	30XYN-	1 K7-	
	P215-	P	007-	8XYN-	1 K7-	
	P215-	M	049-	10XYBU-	2 KR-	000

Basic Type (Housing Assembly)

P215 = housing assembly for all pump models

Drive Assembly

M = three-phase flanged motor the motor designation with extension e. g. for voltages, frequencies, explosion-proof design is added to the type code
F = free shaft end
P = oscillating drive

490 = gear ratio i = 1 : 490
100 = gear ratio i = 1 : 100
049 = gear ratio i = 1 : 49
007 = gear ratio i = 1 : 7 (only for F and P)

Reservoir Assembly

4 = 4 l plastic reservoir
8 = 8 l plastic reservoir
10 = 10 l sheet metal reservoir
30 = 30 l sheet metal reservoir
XY = reservoir for grease and oil
N = reservoir without level control
BU = reservoir with low and high-level control (ultrasonic sensor)

Note: The ultrasonic sensor is equipped with 2 switching points. If only one low-level control is desired, the corresponding contacts must be connected. A 24 VDC supply voltage is required for the senor.

Pump Element Assembly

1 to 15 = number of the pump elements
K6 or K7 = piston diameter (mm)

Extensions for the Motor Designation

380 – 420
440 – 480 = standard multi-range motor for 380 – 420 V/ 50 Hz and 440 – 480 V/ 60 Hz
500 = single-range motor for network rated voltages 500 V/ 50 Hz
000 = pump without motor, however with connecting flange