



Pump 205

The 205 centralized lubrication pump is a high pressure multi-line pump that can drive up to 5 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 larger progressive systems.

The design of the drive and eccentric shaft, the high efficiency worm gear, a minimal number of parts, and the multi-range motor, provide the 205 pump with several advantages. The 205 pumps are available with a three-phased flange mount and multi-range motor for 380-420 volts at 50 Hz or 440-480 volts at 60 Hz, or with a free shaft end for use with other motors. Various gear ratios and reservoir sizes, with or without level control are available. The reservoir, available in 4, 5 or 8 liter sizes, is suitable for both grease and oil.

Popular 205 Models

Part No.	Description	Motor	Gear Ratio	Reservoir Size (liter)			Level Control	Number of Elements (Size)
				Liters	In ³	Lbs.		
655-40655-9	P205-M280-4XYN-4K6-380/420-440/480	3-phase	280:1	4	244	8	no	4 (6 mm)
655-40654-2	P205-M070-5XYN-1K7-380-420/440-480	3-phase	70:1	5	305	10	no	1 (7 mm)
655-40655-3	P205-M280-5XYBU-1K6-380-420/440-480	3-phase	280:1	5	305	10	yes	1 (6 mm)
655-40673-2	P205-M070-8XYBU-1K6-380-420/440-480	3-phase	70:1	8	488	16	yes	1 (6 mm)
655-40704-2	P205-M070-5XYN-4K6-380-420/440-480	3-phase	70:1	5	305	10	no	4 (6 mm)

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

Accessories

Part No.	Description
624-29056-1	relief valve SVEVT-350-G 1/4" for 6 mm tube
624-29054-1	relief valve SVEVT-350-G 1/4" for 8 mm tube
304-17571-1	filling connection G 1/4" female* (BSPP)
304-17574-1	filling connection G 1/4" female* (BSPP)
600-26875-2	pump element with assy. piston ø 5 (K5)
600-26876-2	pump element with assy. piston ø 6 (K6)
600-26877-2	pump element with assy. piston ø 7 (K7)
655-28716-1	adjustable pump element (KR)

* Filling connector is for vacant outlet ports.

Technical Data

number of outlets	1 - 5			
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			
lubricant output per piston stroke	5 mm 0.11 cm ³ (0.0068 in ³)	6 mm 0.16 cm ³ (0.0098 in ³)	7 mm 0.23 cm ³ (0.014 in ³)	adjustable 0.04 - .18 cm ³ (0.002 to 0.011 in ³ /min)
lubricant output per hour (output increases by 20% for 60 Hz applications)	ratio	70:1	280:1	700:1
	piston dia. 5 mm	115 cm ³ (7.01 in ³)	29 cm ³ (1.77 in ³)	11 cm ³ (0.67 in ³)
	piston dia. 6 mm	172 cm ³ (10.50 in ³)	43 cm ³ (2.62 in ³)	17 cm ³ (1.04 in ³)
	piston dia. 7 mm	253 cm ³ (15.44 in ³)	63 cm ³ (3.84 in ³)	25 cm ³ (1.52 in ³)
	adjustable	46-200 cm ³ (2.8-12.2 in ³)	11.5 - 52 cm ³ (0.70-3.17 in ³)	5 - 22 cm ³ (0.31-1.34 in ³)
operating temperature	-20 to 70° C (-4 to 158° F)			
level control	ultrasonic sensor for low and high-level control (optional)			

Dimensions

Reservoir Size	Height	Depth	Depth
8 liters (plastic) (with low-level control)	507 mm (20 in)	280 - 360 mm (11 - 14 in) depending on version	227 - 300 mm (9 - 12 in) depending on version
4 liters (plastic) (with low-level control)	406 mm (16 in)		
5 liters (metal) (with low-level control)	435 mm (17 in)		

Identification Code Pump Models 205



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

Examples of Type Codes

	P205-	M	070-	4XYN-	5 K6-	380-420 / 440-480
	P205-	M	070-	5XYN-	1 K7-	380-420 / 440-480
	P205-	F	280-	4XYBU-	1 K7-	
	P205-	M	700-	8XYBU-	2 KR-	360-420 / 440-480

Basic Type (Housing Assembly)

P205 = 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
- 280 = gear ratio $i = 1 : 280$
- 700 = gear ratio $i = 1 : 700$
- 070 = gear ratio $i = 1 : 70$

Reservoir Assembly

- 4 = 4 l plastic reservoir
- 5 = 5 l sheet metal reservoir
- 8 = 8 l plastic 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 sensor.

Pump Element Assembly

- 1 to 5 = number of the pump elements
- 5, 6 or 7 = piston diameter (mm)
- KR = pump element adjustable, piston diameter 7 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
- 000 = pump without motor, however with connecting flange