

# P 205 / P 215

## Lubrication pumps for multi-line systems



### Benefits

- Sturdy and durable pump series
- Continual lubrication of machines and systems that operate in harsh environments
- Several times longer maintenance intervals when compared to manual lubrication



### Applications

- Machines and systems frequented by the maintenance personnel at long intervals such as in turbines in hydro-electric power plants
- Stationary machines with a high grease consumption, e. g. in materials handling equipment

# P 205 / P 215

## Lubrication pumps for multi-line systems

The P 205 pump is a high-pressure multi-line pump that can operate up to 5 pump elements. The P 215 pump can operate up to 15 pump elements. Both pump types work in combination with automatic progressive or multi-line lubrication systems. They can be used to directly supply a lubrication point with lubricant or as centralized lubrication pumps in larger progressive systems.

With the design of the drive and the eccentric shaft, the high-performance worm gear, the small number of parts, as well as the multi-range motor. The pumps combine several advantages, such as the drive and the eccentric shaft, the high-performance worm gear, the small number of parts, as well as the multi-range motor.

The pumps are equipped with a three-phase multi-range motor for 380 V – 420 V, 50 Hz, or 440 V – 480 V, 60 Hz, or with a free shaft end allowing its use with other types of drives.

Different gear ratios and reservoir sizes with or without level control are available.



For hydro-electric power plants and turbines that are in service around the clock, a reliable lubricant supply is indispensable

### System features

	P205	P215
Number of pump elements	1 – 5	1 – 15
Type of drive	Motor, free shaft end	Motor, free shaft end, oscillating drive
Ratios	70 : 1, 280 : 1, 700 : 1	70 : 1, 280 : 1, 700 : 1
Reservoirs	4 and 8 litre plastic reservoirs 5 litre metal reservoir	4 and 8 litre plastic reservoirs, 10, 30 and 100 litre metal reservoir
Operating pressure	350 bar	350 bar
Lubricants	Greases up to NLGI 2 Oils with a viscosity of min. 20 mm <sup>2</sup> /s	Greases up to NLGI 2 Oils with a viscosity of min. 20 mm <sup>2</sup> /s
Range of output; depending on ratio and type of pump element	5 – 253 cm <sup>3</sup> / hour and outlet	8 – 386 cm <sup>3</sup> / hour and outlet

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PUB LS/P2 13651 EN • March 2013 • FORM W-208-EN-0313



## Technical data

Function principle	radial piston pump with stirrer; rotary, oscillating or electrically operated	
Outlets	1 to 15	
Operating temperature	–25 to +70 °C	<i>-13 to +158 °F</i>
Operating pressure	350 bar	<i>5075 psi</i>
Lubricant	mineral and synthetic oil and grease oil: viscosity from 20 mm <sup>2</sup> /s	
Metering quantity per stroke	min. 0,11 cm <sup>3</sup>	<i>0.0067 in<sup>3</sup></i>
	max. 0,23 cm <sup>3</sup>	<i>0.014 in<sup>3</sup></i>
Reservoir <sup>1)</sup>	plastic: 4 and 8 kg	<i>8.8 and 17.6 lb</i>
	steel: 10, 30 and 100 kg	<i>22, 67 and 220 lb</i>
Internal ratio	7:1, 49:1, 100:1, 490:1	
Output per outlet	0,13 to 6,4 cm <sup>3</sup> /min	<i>0.008 to 0.39 in<sup>3</sup>/min</i>
Outlet connection	G 1/4	
E-motor drive	with 3-phase motor	
Drive speed	<28 min <sup>-1</sup>	
Dimensions	min. 438 × 453 × 326 mm	<i>min. 17.24 × 17.84 × 12.84 in</i>
	max. 1 225 × 600 × 550 mm	<i>max. 48.23 × 23.26 × 21.65 in</i>
Protection class	IP 55	
Mounting position	vertical	
Options	hydraulic driven; 24 V DC motor	