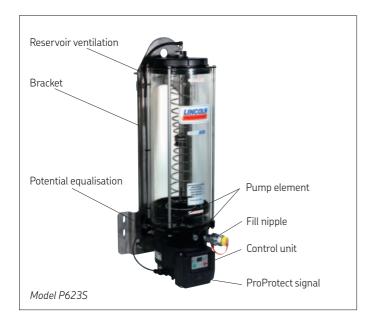


Electrically operated piston pump with lightning protection

Series P623

Meets latest Electromagnetic Compatibility (EMC) requirements





Lightning protection for singleline and progressive systems

The Lincoln P623S and P623M electrically operated pumps have been designed to withstand electromagnetic pulses caused by lightning strikes. An extension of the P603 pump series, the P623S is for use in single-line automatic lubrication systems, while the P623M is for use in progressive automatic lubrication systems.

Working closely with customers to develop product solutions that meet specific needs, SKF developed the P623S and P623M for onshore and offshore wind energy applications. In addition, these pump units are suitable for use in construction, mining and renewable energy applications where lightning protection must be considered.

The P623S and P623M pumps feature a power supply board that transfers 230 V to 24 V (control) with overvoltage protection to discharge 8 KV (electric grounding).

The pump units are available with a grease follower plate for rotating applications or a stirring paddle for stationary applications.

Advantages:

- Reduces operational risk compared to standard automatic lubrication
- Offers higher safety standards
- Brings lubrication system into compliance



Technical data

Technical data

Function principle Operating temperature Operating pressure

Delivery volume per pump element

Lubricants Capacity of the reservoir Weight (empty pump)

models with follower plate models with stirring paddel

Number of pump elements

Number of outlets

Outlet connection

Installation position

Protection class acc. DIN EN 60529:2014 (Harting) LPZO (Lightning Protection Zone) according generic standard EN61000-6-2

Electromagnetic compatibility (EMC)

Electrically operated piston pump –25 to +55 °C

max. 320 bar 0,22 cm³/stroke

Greases up to NLGI grade 2

4; 8; 10; 15; 20 1 8; 10; 12; 14; 19 kg –13 to +131 °F 4 640 psi 0,0134 in³/stroke

1,06; 2,11; 2,64; 3,96; 5,28 gal. 17,64; 22,05; 26,45; 30,86; 41,89 lb.

Filling nipple or filling connection (option)
Reservoir cover plate, filling nipple or filling connection (option)

P623M: max. 3 **P623S**: 3 pump elements are combined internally

P623M: max. 3 P623S:1 G 1/4

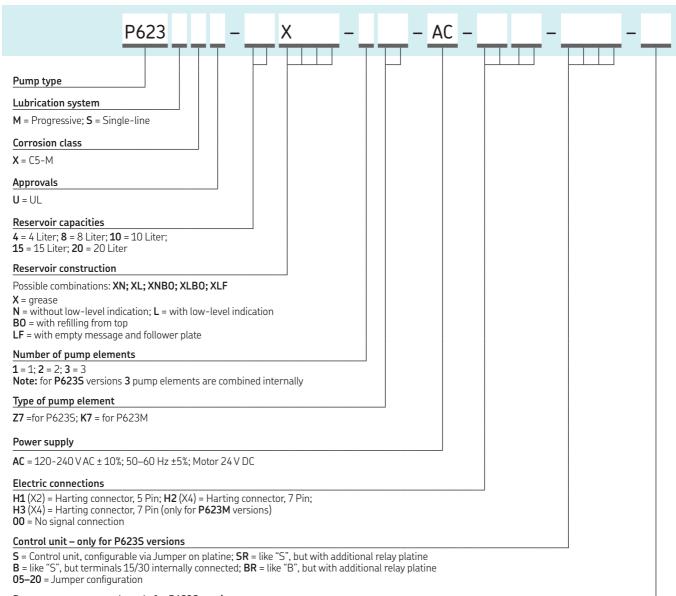
Vertical, i.e. lubricant reservoir at top Versions with follower plate: rotating

8 kV

2014/30/EU

	98 39	598 539	658 599 220	841 782	976				3,96	5,28
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How to configure



Pressure sensor control – only for P623S versions

SE = Pressure sensor 100–320 bar, configurable via control unit

DS = Pressure switch, not configurable

Configuration example							
Type code	Description						
P623M-20XLB0-3K7-AC-H1.H3	Pump for progressive lubrication systems, with 20 Liter reservoir for grease, with refilling from top; with 3 pump elements type K7; with AC power supply; Harting connection H1(X2) and H3 (X4); no control unit; no pressure control						
P623S-15XLF-3Z7-AC-H1.H3-BR10-SE	Pump for single-line lubrication systems, with 15 Liter reservoir for grease, with follower plate and empty message 3 pump elements type Z7 are combined internally with AC power supply; Harting connection H1(X2) and H3 (X4); with control unit; with pressure sensor						
Further configurations on request							

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