

# PMA 2 Solenoid Pump with Squirt Nozzles



PMA 2 Pump System

**The PMA 2 solenoid pump is designed for a contact-free oil lubrication of chains. The exact metered quantity of oil is squirted without air (airless), and without producing an oil mist, while the chain is in operation. The lubricant can also be directly applied via brushes or lubrication points.**

The pump's fast cycle frequency of 5 Hertz enables trouble-free lubrication of fast moving chains. A single pump can supply 1 to 6 oil squirt nozzles.

Double-nozzles are also available which further increase the number of points served by the pump. The metered quantity of oil per cycle is either 30 mm<sup>3</sup> or 60 mm<sup>3</sup>

The drive magnet is characterized by its high performance and long duty-cycle, thus enabling a reliable operation of the pump in extreme conditions.

The pump is available in 24 VDC, 120 VAC and 230 VAC versions. An optional proximity switch for the pump offers a simple method to electrically monitor the function.

Other accessories include a 13 or a 36 litre reservoir for oil. Both reservoirs are equipped with electrical low-level control and a large filling port comprising a strainer.

## **System Advantages & Features**

- Metered oil quantity 30 mm<sup>3</sup> or 60 mm<sup>3</sup> per cycle
- Available in 24 VDC, 120 VAC and 230 VAC versions
- Optional electrical monitoring via a proximity switch
- 1 to 6 outlets that can serve individual or double nozzles
- Up to 5 lubrication cycles per second (depending on the system)
- Airless lubrication – oil mist free

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## Models with 60 mm<sup>3</sup> Output (0.0036 in<sup>3</sup>) - Standard Versions

Part No.	Description	Number of Outlets	Supply Voltage	Proximity Switch
651-40947-1	PMA 2-...-1-60-230AC	1	230 VAC	no
651-40947-3	PMA 2-...-2-60-230AC	2		no
651-40947-9	PMA 2-...-4-60-230AC	4		no
651-40948-2	PMA 2-...-6-60-230AC	6		no
651-40947-4	PMA 2-...-2-60-230AC-N	2		yes
651-40948-1	PMA 2-...-4-60-230AC-N	4		yes
651-40945-2	PMA 2-...-1-60-24DC	1	24 VDC	no
651-40945-3	PMA 2-...-2-60-24DC	2		no
651-40945-4	PMA 2-...-4-60-24DC	4		no
651-40945-6	PMA 2-...-6-60-24DC	6		no
651-40945-8	PMA 2-...-2-60-24DC-N	2		yes
651-40945-5	PMA 2-...-4-60-24DC-N	4		yes
651-40946-1	PMA 2-...-2-60-120AC	2	120 VAC	no

## Models with 30 mm<sup>3</sup> Output (0.0018 in<sup>3</sup>) - Standard Versions

Part No.	Description	Number of Outlets	Supply Voltage	Proximity Switch
651-40947-3	PMA 2-...-2-30-230AC	2	230 VAC	no
651-40947-7	PMA 2-...-4-30-230AC	4	230 VAC	no
651-40947-2	PMA 2-...-2-30-230AC-N	2	230 VAC	yes
651-40945-1	PMA 2-...-1-30-24DC	1	24 VDC	no

## Accessories

Part No.	Description
615-28660-3	Squirt nozzle for 6 mm tube
615-29209-1	Double-nozzle, straight for 6 mm tube
615-29301-1	Double-nozzle, 90° for 6 mm tube
651-28691-1	13 l plastic reservoir with electric low-level (float switch)
651-28685-1	36 l plastic reservoir with electric low-level (float switch)