



ELECTROMAGNETIC PUMPS PSM SERIES



M013-19 - Rev. 00-06/2019

TECHNICAL DATA SHEET

Series of professional electromagnetic pumps, designed for horizontal installation, with advanced multi-function electronics and high level hydraulics.

The full range of available options (dosing heads, flow rates, inputs) will allow to choose the perfect pump for your application needs.

The standard version is equipped with digital input for level probe, analogic (mA) input, pulse input and relay output.

MAIN FEATURES

- Working modes: steady, pulse, automatic ppm calculation, analogic input, pause-work, batch cycle
- Multi-lingual interface (Italian, English, French, Spanish, German)
- Two configuration levels, standard and advanced, password protected
- Configuration and calibration data saving in non-volatile memory for at least 10 years
- Dosage schedule at set hours and days (internal clock)
- Built-in counters of injected litres, membrane working hours and shots
- "Service" menu
- "Autoset" function, for restoring specific factory settings of each pump configuration
- Self-priming function (available with injection flow control option)
- Internal system for overheating control / safety
- Dosing chamber with anti-spill system
- Power supply 230 V~ (cable with Schuko plug)
- Optional input for injection flow control
- Relay output, configurable NO / NC
- These pumps are supplied with standard accessory kit (foot filter; injection valve; hoses for suction, delivery and bleed lines), fitting kit, level probe, cables with M8 connector for input / output wiring

TECHNICAL DATA

Power Supply	230 V~, 50/60 Hz, cable with Schuko plug (without plug upon request)
Electrical Protection	Fuse 5x20, F2A
Display	dual row (x 12 characters), alphanumeric LCD, with backlight
Internal Clock	RTC, accuracy ± 5 sec/month, with CR2032 buffer battery (life of at least 3 years without power supply)
Materials	PP housing reinforced with glass fibre; PVDF pump head (self-bleeding option is also available); membrane made of high quality EPDM with fabric reinforcement, steel core and PTFE coating on the side in contact with the fluid; PTFE seals; ceramic ball valves

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Culligan reserves the right to change any technical or design specifications

Viscosity of injected product	0 ... 200 mPas (standard head)
Environment	Storage temperature -20 ... +60 °C Working temperature -10 ... +45 °C (no freezing liquids) RH max 92 % no condensing
Protection Rate	IP65
Dimensions	101 x 250 x h 185 mm (wirings excluded)
Weight	approx. 3 kg

Inputs / Outputs

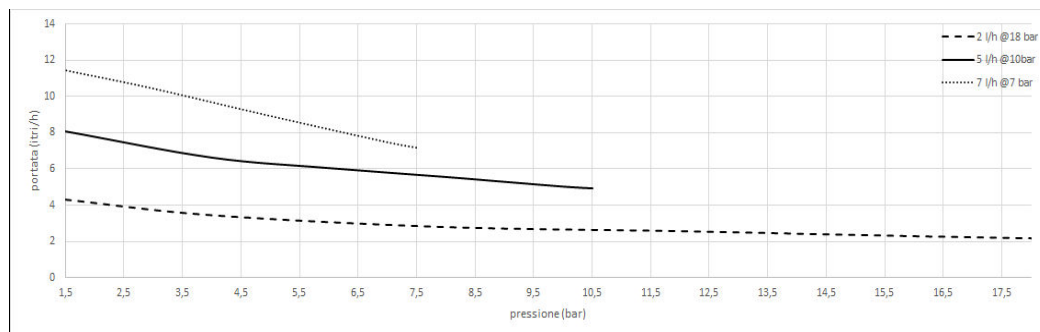
mA Input	0-20 or 4-20 mA, selectable via software; input impedance 100Ω, precision better than ±0.3% FS, repeatability better than ±0.2% FS
LEV Input	accept voltage-free contact from level sensor
PULSE Input	pulse input for volumetric water meter, accept voltage-free contact; if connected in parallel with other similar inputs of similar pumps, it is advisable to insert a signal splitter
FLW Input	optional; contact from injection flow control sensor
Alarm Relay	contact configurable as NO or NC, max 250V~, 3A resistive

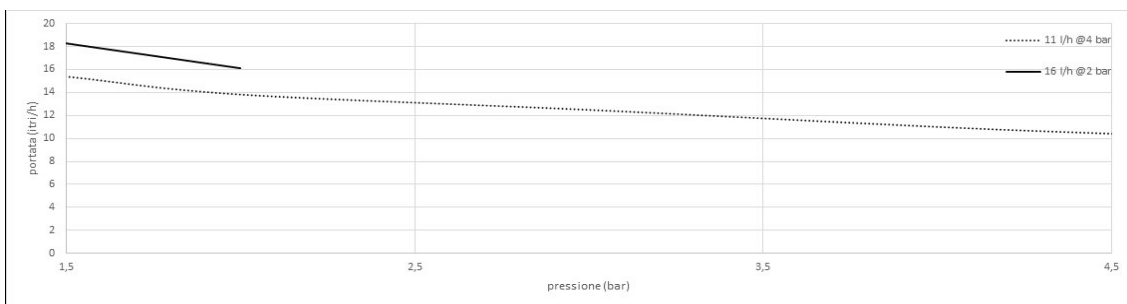
VERSION	MODEL <i>Self-draining</i>	INPUTS				OUTPUTS	
		<i>Level</i>	<i>Enabling or impulse</i>	<i>mA</i>	<i>Flow sensor</i>	<i>Alarm relay</i>	
PSM		STD	STD	STD		STD	
PSM AS	STD	STD	STD	STD		STD	
PSM FL		STD	STD	STD	STD	STD	
PSM ASF	STD	STD	STD	STD	STD	STD	

Hydraulic Specifications

Note: These data refer to standard dosing heads, dosage of no viscous liquids, temperature 25°C, working frequency of 140 pulses / minute.

Version	Flow rate max (l/h)	Pressure max (bar)	Hose (IDxOD)
2@18	2	18	4x6
5@10	5	10	4x6
7@7	7	7	5x8
11@4	11	4	5x8
16@2	16	2	5x8





DIMENSIONS

