

Tekna Evo

SOLENOID DOSING METERING PUMPS



innovation > technology > future

The **Evo...lution** of solenoid dosing pumps

A new concept of programming menu. Once a function is selected, the pump displays only the parameters that are associated with the specific function

PVDF pump head and ceramic ball valve as standard

Stabilized Multi Power Supply 100÷240 Vac 50/60 Hz with reduced consumption



Compatible

PVDF pump head and ceramic ball valve as standard

- **PVDF** is suitable for almost all chemical used in the Industrial, Waste Water Treatment and potable Water applications
- The use of **Ceramic balls** as standard improves the pumping reliability and the chemical compatibility of the whole liquid end
- **evo Full chemical compatibility**



Reliable

Long life diaphragm tested to give 5 years working life

- The advanced design and manufacturing process allows the diaphragm to have a unique life expectancy
- Made of pure solid **PTFE**, the diaphragm is compatible with most chemicals
- The diaphragm has been tested over a period of 5 years giving superior results
- Routine diaphragm replacement is no longer a requirement
- **Reduced maintenance**
- **evo Full chemical compatibility**



Clever

Just 5 Models, Just PVDF,
All functions in one pump

- **5 models** that cover 0,4 to 54 l/h with an output pressure up to 20 Bar
- **1 Casing** allows skids to be pre-constructed, as the fixing points remain constant, and the pumps can be selected on confirmation of the dosing flow

evo **Inventory Reduction**
Reduce spares stock holding



Steady Dosing Performance

Stabilized Multi Power Supply 100÷240 Vac 50/60 Hz with reduced consumption

- Reduced power consumption as the solenoid only draws the required power to activate the pump, based on the working conditions
 - **Stable dosing performance:** improve pump efficiency as performance is not affected by power supply fluctuations
- evo** **Reduce inventory holding**

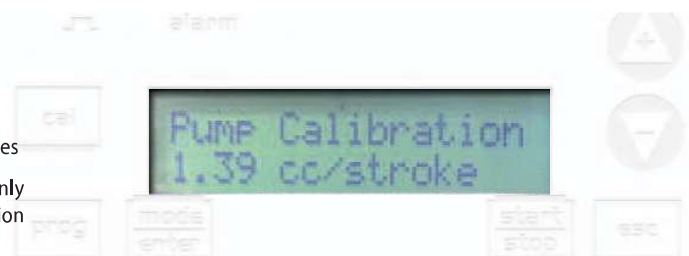


Intuitive programming

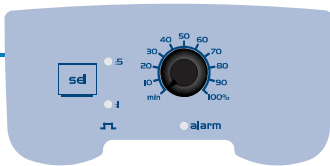
A new concept of programming menu

- Programming menu are self explanatory and available in 5 languages
- **Intelligent Display**, once a function is selected the pump will only display the parameters to set, which are linked to the selected function

evo **Reduced programming time**

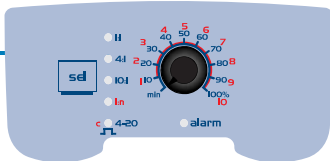


Analogue Version



AKL Costant dosage

Analogue dosing pump with constant flow rate manually adjustable by control dial on the front panel, two frequency range (0÷20% or 0÷100%), Power-ON led indicator and level control input.



APG Proportional dosage

Analogue dosing pump with constant flow rate manually adjustable, proportional flow rate according to an external analogue (4÷20 mA) or digital pulse signal (e.g. from water meter).

- Control dial (percentage and "n" value in multiplication mode)
- 6 position adjustable switch:
 - 3 in division mode (1, 4, 10 = n)
 - 1 in multiplication mode (n=1)
 - 1 for proportional 4÷20 mA signal
 - 1 for constant functionality
- "pacing" function adjustable by dip switch

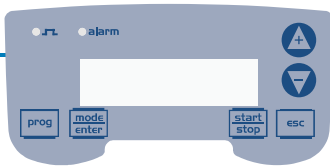


ATL Timed dosage

Analogue dosing pump with constant flow rate manually adjustable and timed dosage with T on-T off double regulation.

- 3 control dials (flow rate percentage - T on regulation - T off regulation)

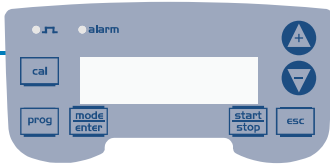
Digital Version



TPG Proportional dosage

Digital dosing pump with constant flow rate manually adjustable, proportional flow rate according to an external analog (4÷20 mA) or digital pulse signal (e.g. from water meter).

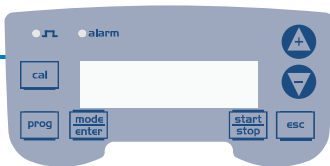
- Timer function, ppm dosing, statistics, password and On/Off input (remote switch).



TPR Proportional dosage

Digital dosing pump with pH/Redox control meter built in.

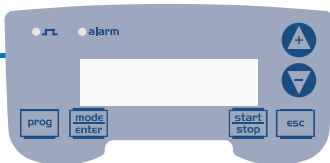
- Digital interface for constant or proportional dosing, depending on the measured pH or Rx value
- PT100 probe input for thermal compensation
- Repetition alarm relay
- Input On-Off for remote control
- 4÷20 mA output for measure transmission



TMP Proportional dosage

Digital dosing pump with Chlorine, Hydrogen Peroxide or Per-Acetic Acid control meter built in.

- Instrument on board set via Software
- PT100 probe input for thermal compensation
- Repetition alarm relay
- Input On-Off for remote control
- 4÷20 mA output for measure transmission



TCK Timed dosage

Digital dosing pump with constant flow rate manually adjustable, or timer control.

- Programmable timed relay

Pumps Identification

Version		
AKL	Analogue	Analogue dosing pump with constant flow rate manually adjustable
APG		Analogue dosing pump with constant flow rate manually adjustable, with proportional flow rate according to an external analog (4÷20 mA) or digital signal (water meter)
ATL		Analogue dosing pump with constant flow rate manually adjustable and timed dosage with T on-T off double regulation
TPG	Digital	Digital dosing pump with constant flow rate manually adjustable, with proportional flow rate according to an external analog (4÷20 mA) or digital signal (water meter)
TPR		Digital dosing pump with pH/Redox control meter built in
TMP		Digital dosing pump with Chlorine, Hydrogen Peroxide or Per-Acetic Acid control meter built in
TCK		Digital dosing pump with constant flow rate or timed

Model	Pressure [bar]	Flow rate [L/h]	Stroke capacity [cc/stroke]	Ø Connections IN / OUT [mm]	Frequency max [stroke/min]	Consumption [WW]
500	20	0,4	0,06	4 / 7	120	12,2
	16	0,8	0,11			
	10	1,2	0,16			
	6	1,5	0,21			
600	20	2,5	0,35	4 / 6 suc. 4 / 7 dis.	120	12,0
	18	3	0,42			
	14	4,2	0,58			
	8	3	0,97			
603	12	4	0,42	4 / 6	160	12,2
	10	5	0,52			
	8	6	0,63			
	2	8	0,83			
800	16	7	0,38	4 / 6	300	23,9
	10	10	0,55			
	5	15	0,83			
	1	18	1,00			
803	5	20	1,11	8 / 12	300	22,9
	4	25	1,39			
	2	40	2,22			
	0,1	54	3,00			

Power supply

N	100 ÷ 240 Vac	50-60 Hz
O	24 ÷ 48 Vac (For AKL 603 series only. For APG 603 : 30-48Vac/Vdc)	

Liquid end material

H	Pump head : PVDF	Balls : Ceramic	Diaphragm : PTFE
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Installation Kit

H	PVDF
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Seals

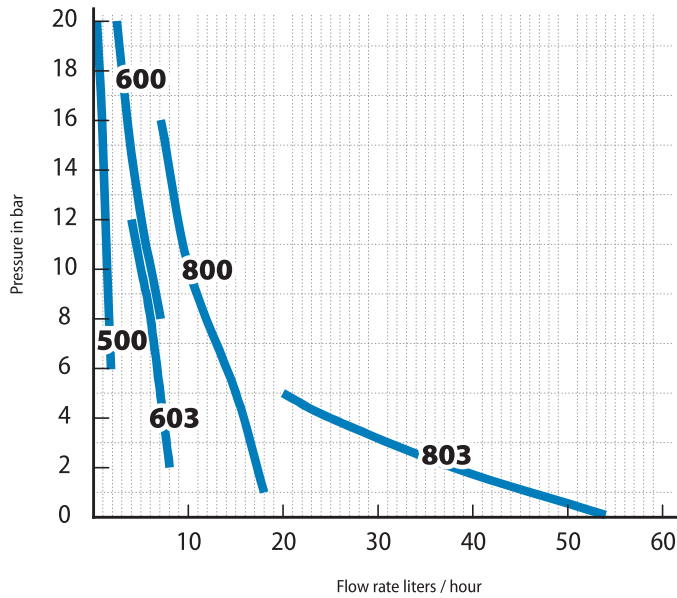
0	FPM
1	EPDM

Options

000	Standard
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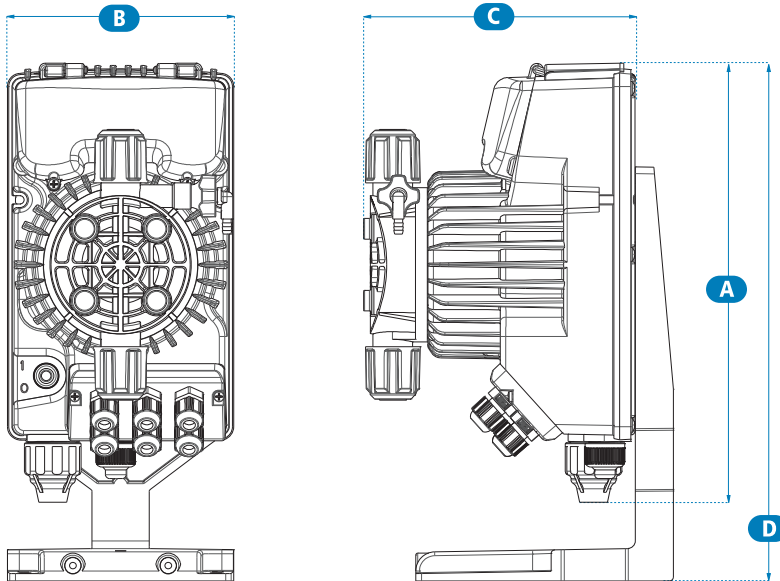
AKL 600 N H H O 000

Flow Rate and Dimensional Drawings



PERFORMANCE CURVE

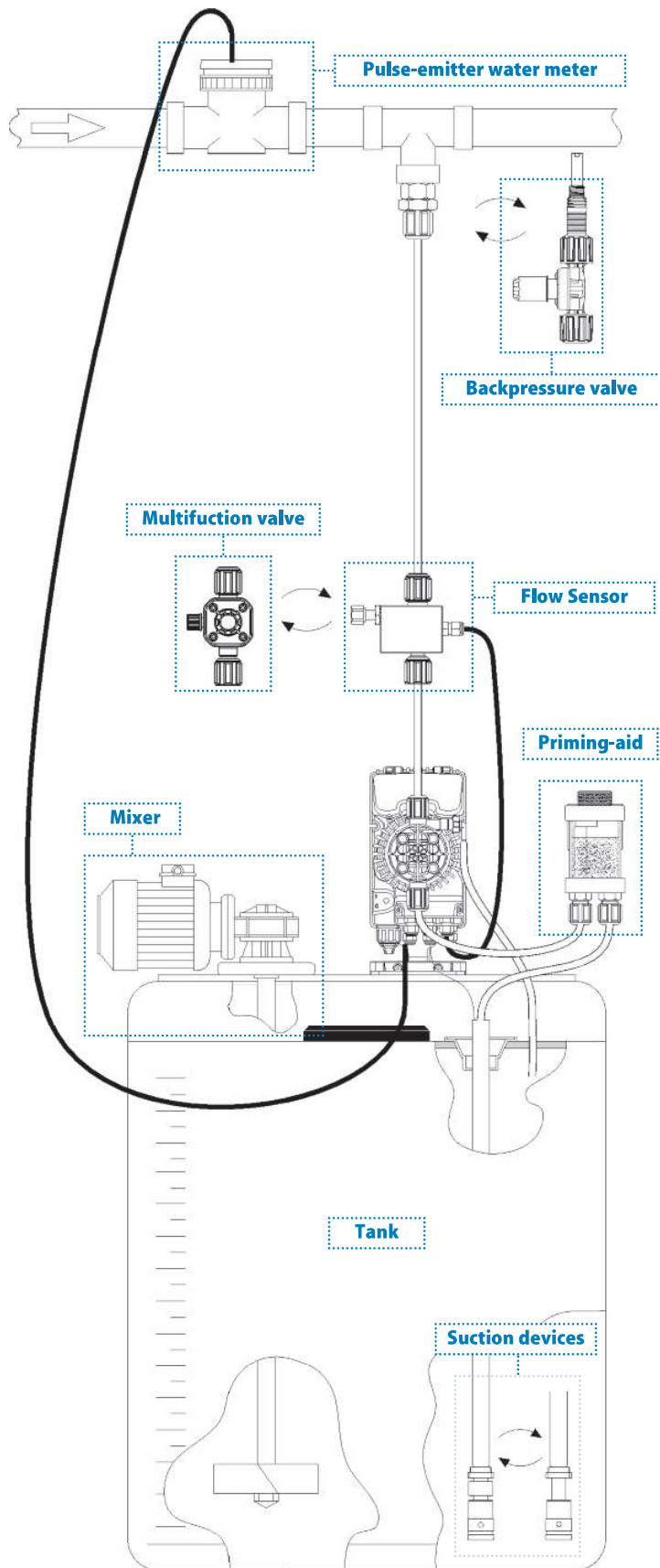
Model	Pressure	Flow rate
500	20 ÷ 6 bar	0,4 ÷ 1,5 l/h
600	20 ÷ 8 bar	2,5 ÷ 3,0 l/h
603	12 ÷ 2 bar	4 ÷ 8,0 l/h
800	16 ÷ 1 bar	7 ÷ 18 l/h
803	5 ÷ 0,1 bar	25 ÷ 54 l/h



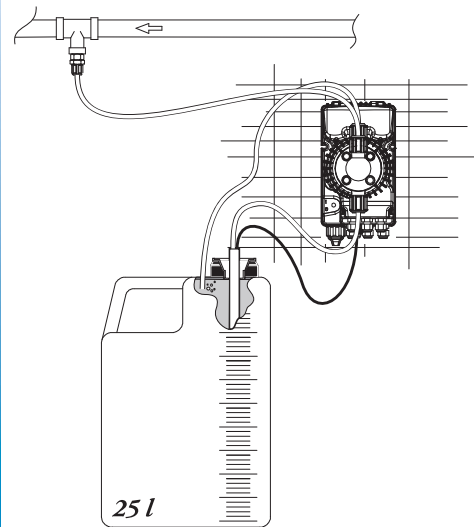
DIMENSIONS [mm]

Model	500 600 603 800	803
A (Height)	231	
B (Width)	119	
C (Depth)	145	149
D (Max Height)	257	

Typical Installation



Degassing head installation



With control instrument

