

Tekna Series

Clever

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

- **5 models** that cover 0,4 to 110 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



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

evo **Reduced maintenance**
Full chemical compatibility



The **Evolution** 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



Solenoid diaphragm pump

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

evo **Stable dosing performance:** improve pump efficiency as performance is not affected by power supply fluctuations

Reduce inventory holding



Hydraulic diaphragm pump

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**



Mechanical diaphragm pump & plunger pump

Versions

Tekna Analogue version



AKS 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.



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

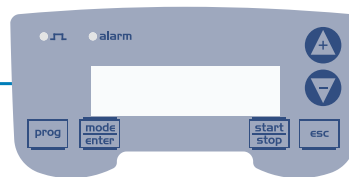
- "pacing" function adjustable by dip switch



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.

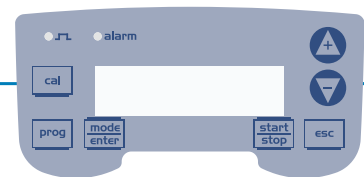
Tekna Digital version



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

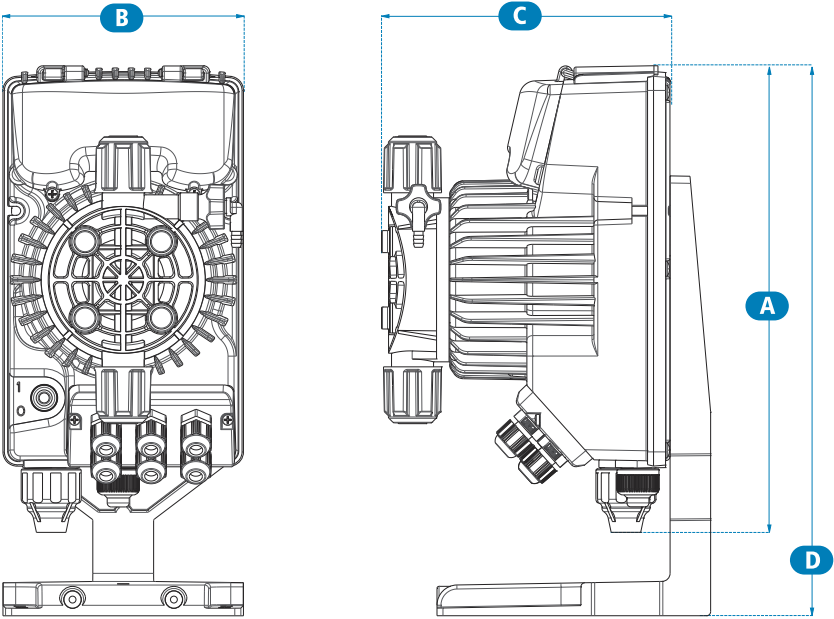
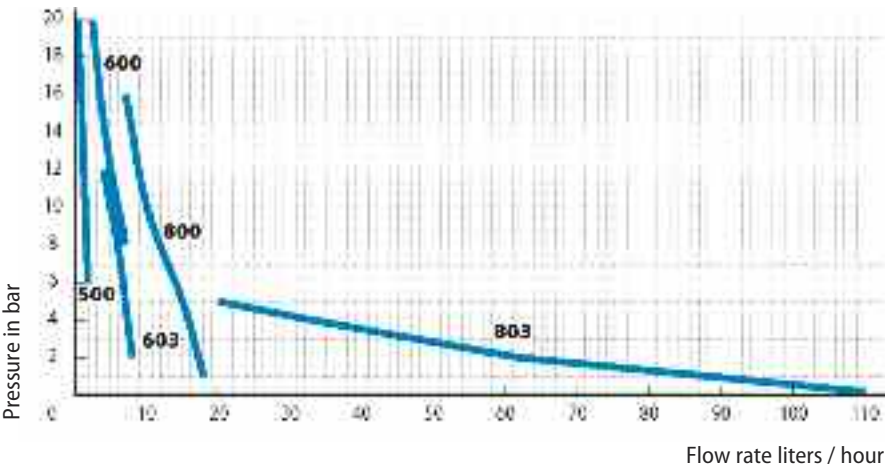
- PT100 probe input for thermal compensation

- Repetition alarm relay

- Input On-Off for remote control

- 4÷20 mA output for measure transmission

Flow Rate and Dimensional Drawings



DIMENSIONS [mm]

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

Installation Kit

The pumps are supplied complete with the indispensable accessories for their correct installation as: Foot filter, Screws, Fixing bracket, Injection valve, 2m PE tube (delivery), 4 m PVC tube (suction), Seal in FPM and EPDM



Wall-mounted bracket



Injection valve (PVC) (G3/8", G1/2")



Foot valve (PVC)



PVC Suction tube



PE Delivery tube



Vertical mounting bracket

Pumps Identification

Version

AKL	Analogue	Analogue dosing pump with constant flow rate manually adjustable and level control input
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

Model	Pressure [bar]	Flow rate [L/h]	Stroke capacity [cc/stroke]	Ø Connections IN / OUT [mm]	Frequency max [stroke/min]	Consumption [W]	Weight [Kg]	Carton size (LxWxH)
500	20	0,4	0,06	4 / 6 suc. 4 / 7 dis.	120	15	3,4	285x185x240 (mm)
	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	20	3,9	
	18	3	0,42					
	14	4,2	0,58					
	8	7	0,97					
603	12	4	0,42	4 / 6	160	20	3,4	
	10	5	0,52					
	8	6	0,63					
	2	8	0,83					
800	16	7	0,38	4 / 6	300	40	4,4	
	10	10	0,55					
	5	15	0,83					
	1	18	1,00					
803	5	20	1,11	8 / 12	300	40	4,4	
	4	32	1,78					
	2	62	3,44					
	0,1	110	6,11					

Power supply

N

100÷240 Vac

50-60 Hz

Liquid end material

H

Pump head : PVDF

Balls : Ceramic

Diaphragm : PTFE

Installation Kit

H

PVDF

Seals

0

FPM

1

EPDM

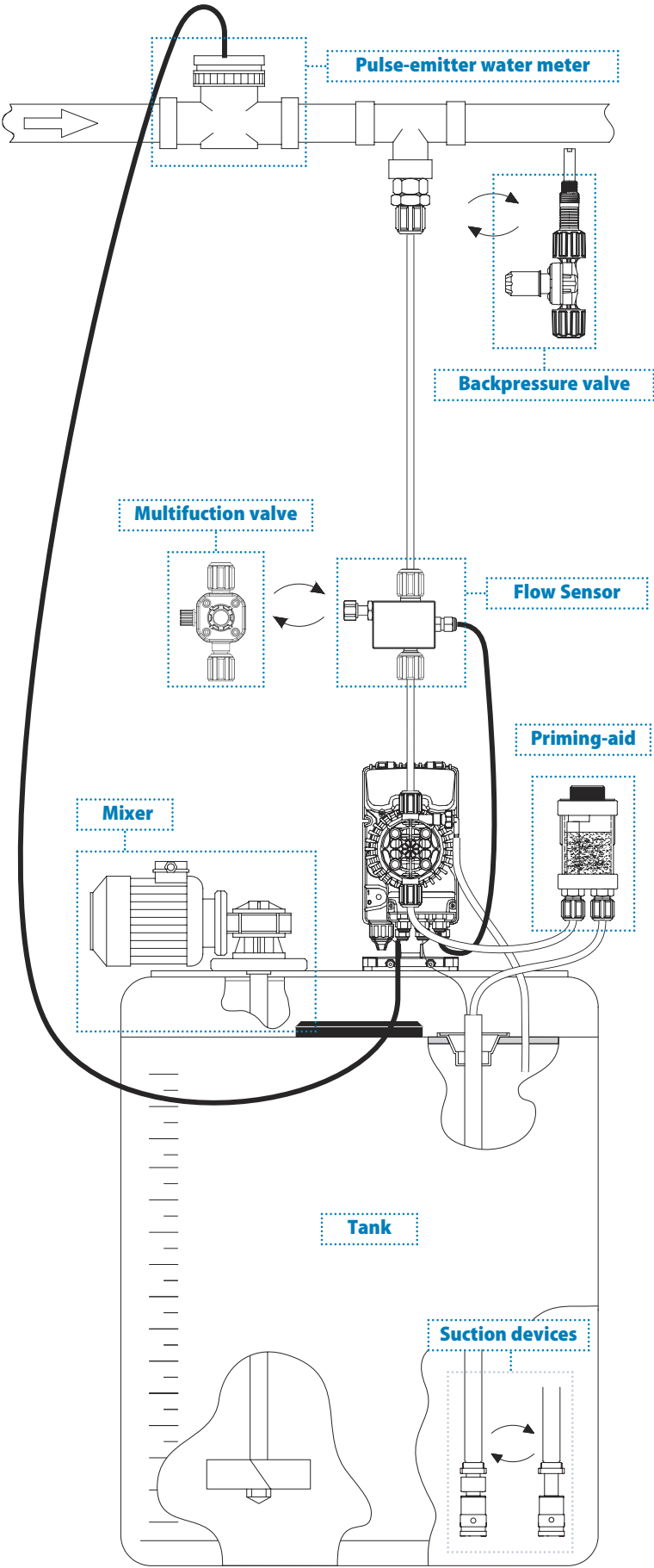
Options

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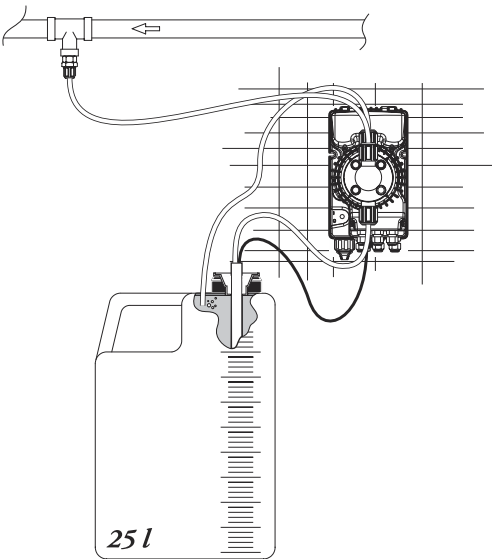
Standard

AKL | 603 | N | H | H | 0 | 000

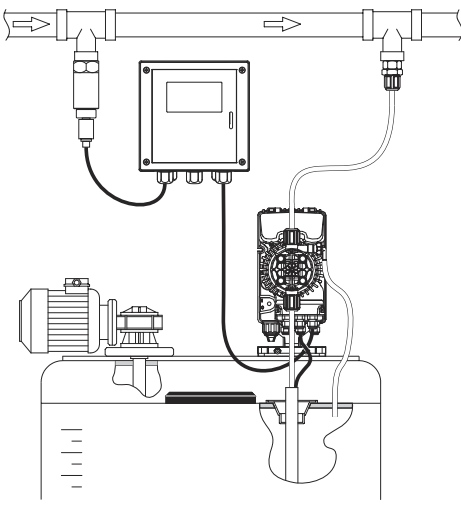
Typical Installation



Degassing head installation



With control instrument



Solenoid diaphragm pump

Hydraulic diaphragm pump

Mechanical diaphragm pump & plunger pump