

# Tekna

## Wall-mounted solenoid-driven dosing pumps

Tekna is one of the most widespread, well-known and appreciated wall-mounted electromagnetic pump ranges in the world, a range that has evolved over the years by drawing upon the feedback of thousands of users across the globe. The series offers multiple models, with analogue and digital interfaces, able to satisfy every installation need and to offer a reliable and effective solution in any situation.

- Flow rate range: 0.4 – 110 l/h, up to 20 bar
- Wetted parts: PVDF, SS316L, PTFE, FFKM, EPDM, FKM-B and Ceramic
- Analogue and digital range with constant or proportional dosage



**CEII 3GD**  
**Ex ic nA IIB T4 Gc**  
**Ex tc III CT120°C Dc IP65**

## Features

- Pump body in PVDF
- Kit available in PVDF or PVDF-T
- Patented algorithm for driving the solenoid
- AKS: Constant, with analogic interface (potentiometer)
- AKL: Constant with level, analogic interface
- APG: Proportional dosing (4 - 20 mA/pulse), analogic interface
- TPG: Multifunction proportional dosing (4 - 20 mA/pulse), digital interface
- TPR: Instrument-pump with pH/ORP input, digital interface
- TCK: Weekly timed pump, digital interface
- Available in ATEX-certificated models (Zone 2)
- Models available with 24 Vac and 12 Vdc power supply
- Available with special seals in PTFE or FFKM
- Available with auto-degassing pump head in PVDF
- Available with Modbus RTU RS485 port for:
  - Integrating the pump in a more complex plant, locally managed by a PLC or an industrial PC, where other Modbus devices are already present
  - Connect the pump to a KommBox or a KommSpot and, through them, to the internet for management via the SekoWeb app or online portal

- Numerous Tekna models are available, with analogic or digital interface, to satisfy almost any request from the market.
- Tekna delivers reduced energy consumption thanks to an embedded stabilised multi-range power supply (100 – 240 Vac, 50/60 Hz). Thanks to the SEKO patented algorithm, the solenoid only draws the power strictly required to activate the pump, based on the actual working conditions, which improves pump efficiency and saves energy. The algorithm also compensates for any fluctuation of the power supply voltage, for giving a precise and accurate dosage in any condition.
- Tekna is also available in ATEX standard-compliant versions, with constant or proportional dosage functions and a digital interface. This model comes with a SS316L pump body as standard.

## Features & benefits



### Easy to fit

The installer-friendly bracket enables quick and simple wall mounting.



### Premium seals

Available with special seals in FFKM or PTFE.



### Quality and strength

Pump body comes in PVDF as standard.



### Long-life diaphragm

PTFE diaphragm, guaranteed for 5 years.



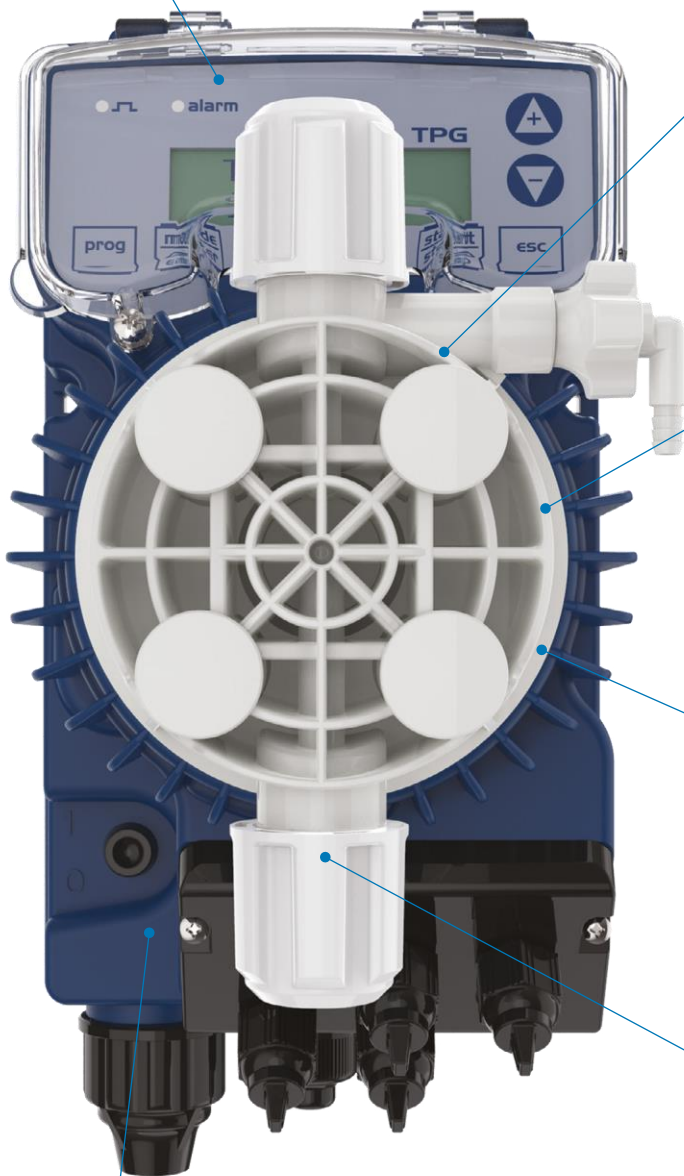
### Reliable seals

Standard seals in FKM-B or EPDM.



### Robust and reliable

Robust and reliable for extended service life.



## Tekna key code

Model									
AKS	Constant dosing, without input for level probe. Flow rate adjustable via analogic interface (potentiometer).								
AKL	Constant dosage, with input for level probe. Flow rate adjustable via analogic interface (potentiometer).								
APG	Proportional dosing to an analogue signal (4 - 20 mA) or to digital frequency signal (pulse). With analogic interface (potentiometer).								
TPG	Multifunction pump. Proportional dosing to an analogue signal (4 - 20 mA) or to digital frequency signal (pulse). PPM mode, Timer mode, batch mode and others. Digital interface.								
TPR	Instrument-pump. Dosage in accordance with the measured pH or redox value. PT100 probe input also available for thermal compensation. Digital interface.								
TCK	Timed pump. Weekly programmable dosage, at the programmed flow rate, and other timed dosing modes. Digital interface.								
	Hydraulics	Pressure [bar]	Flow rate [l/h]	Capacity [cc/stroke]	Ø Hydr Connections IN/EXT.[mm]	Frequency [stroke/min]	Consumption [W]	Weight [kg]	Packing size L x W x H [mm]
	500	20	0.4	0.06	4/7 delivery 4/6 suction	120	15	3.9	295 x 245 x 185
		16	0.8	0.11					
		10	1.2	0.17					
		6	1.5	0.21					
	600	20	2.5	0.35	4/7 delivery 4/6 suction	120	20	3.9	295 x 245 x 185
		18	3	0.42					
		14	4.2	0.58					
		8	7	0.97					
	603	12	4	0.42	4/6	160	20	3.4	295 x 245 x 185
		10	5	0.52					
		8	6	0.63					
		2	8	0.83					
	800	16	7	0.38	4/6	300	20	4.4	295 x 245 x 185
		10	10	0.55					
		5	15	0.83					
		1	18	1.00					
	803	5	20	1.11	8/12	300	40	4.4	295 x 245 x 185
		4	32	1.78					
		2	62	3.44					
		0.1	110	6.11					
	Power supply								
	N	100 - 240 Vac, 50/60 Hz		Wide range					
	O	24 Vac, 50/60 Hz							
	L	12 Vdc							
		Liquid end		Body		Balls		Diaphragm	
		H		PVDF		Ceramic		PTFE	
		A Automatic degassing		PVDF		Ceramic		PTFE	
		I		SS316L		SS316L		PTFE	
		Installation kit							
		H	PVDF						
		P	PVDF-T						
		X	PVDF - 1.5 bar injection valve						
		0	Without kit (ATEX only)						
		O-Rings							
		C	FKM-B						
		1	EPDM						
		2	PTFE						
		3	FFKM						
		Optional							
		0	Standard						
		Optional / customisation							
		00	Standard						
		M0	Modbus RTU RS485						
		X0	ATEX certification (TPG and TCK only)						
TPG	603	N	H	H	C	0	00		