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The **evolution** of solenoid dosing pumps



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

Full chemical compatibility



Analogue Version

teknaEVOAKL



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



teknaEVOAPG



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



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Digital Version

teknaEVO TPG



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).

This digital version of the APG, includes additonal characteristics: Timer function, ppm dosing, statistics, password and On/Off input (remote switch)



teknaEVO 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



teknaEVO TCK



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

• Programmable timed relay



Code

Code	Interface	Description Version
AKL		Analogue dosing pump with constant flow rate manually adjustable
APG	Analogue	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 regolation
TPG		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	Digital dosing pump with pH/Redox control meter on board
ТСК		Digital dosing pump with constant flow rate or timed

Code	Pressure [bar]	Flow rate [lt/h]	Fequency max [stroke./min]	Stroke capacity [cc/stroke]	Ø Connections IN / OUT [mm]	Model Consumption [W]
600	20	2.5	120	0,35	4 / 6 suc.	12.0
600	18	3	120	0,41	4 / 7 dis.	12,0
	12	4		0,42		
602	10	5	160	0,52	1/6	12.2
005	8	6	100	0,63	4/0	12,2
	2 8			0,83		
	12	7		0,36		
000	10	10	220	0,52	1/6	23,9
000	5	15	520	0,78	4/0	
	1	18		0,94		
	5	20		1,11		
002	4	25	200	1,39	0/10	22.2
005	2	40	500	2,22	õ/IZ	22,2
	1	54		3		



Technical Features - Flow Rate and Dimensional Drawings

- Casing made of PP reinforced with glass fibre
- IP 65 rated
- PTFE diaphragm
- Level control input
- Priming valve
- Complete standard installation kit composed by: foot filter and injection valve, PVC suction tube, PE delivery tube and fixing bracket







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

Typical Installation



Accessories Pulse-emitter water meter

Threaded CB Series CB4 CB1 HB4 HB1 HB 4 pulse/lt 4 pulse/lt pulse/It I pulse/It water • Single jet water meter • Single jet water meter meters Wet dial Wet dial Roller reading • Roller reading • Hot water up to 90 °C The meters which we offer have Cold water up to 30 °C high precision and sensitivity • Max. connection 2" (50 mm) • Max. connection 1"1/2 (40 mm) according to CEE standards Their plastic and metallic parts, CN4 CN1 CN RBF in particular those in contact DR Series DR1 4 pulse/lt with water, comply with current 1 pulse/lt • Single jet water meter • Single jet water meter regulations and are subject to • Single jet water meter Wet dial Wet dial extensive checks and controls. • Dry dial • Roller reading Roller reading Roller reading • Cold water up to 30 °C • Cold water up to 30 °C • Cold water up to 30 °C • Max. connection 1"1/2 (40 mm) • Max. connection 1"1/2 (40 mm) • Max. connection 2" (50 mm) • Mounting for solenoid dosing pump DN 20 25 40 50 Size Qt Inch 3/4 1 1/4 1 1/2 2 +5% Max flow (short period) Qmax m³/lt 10 20 30 3 5 7 +2% 5 Nominal flow Qn m³/lt 1.5 2.5 3.5 10 15 0 100 -2% Min flow (accuracy ±5%) Qmin m³/lt 30 500 70 200 450 Transition flow (accuracy ±2%) Qt m³/lt 120 200 280 400 800 3000 Maximum reading m³ 10000 10000 10000 10000 10000 10000

langed Water N	leters (Dry-dial	magnetic coupling)
langed Water N	leters (Dry-dial	magnetic coupling)

mm

mm

mm

mm

110

190

80

90

130

228

80

90

160

260

110

120

L

D1

Н

Woltmann Series		Water meters,	with reading, f	or cold water u	ıp to 30 °C.		
		WE 25	WE 50	WE 100	WE 250	WE 500	WE 1000
	lt/pulse	25	50	100	250	500	1000
	Connections	50	50	50	-	-	-
		65	65	65	-	-	-
		80	80	80	-	-	-
	100	100	-	-	-	-	
		-	_	_	150	150	150





Length without adapters

Length with thread

Width

Height

			/				
c :	DN		50	65	80	100	150
Size	Inch		2	2 1/2	3	4	6
Max flow (short period)	Qmax	m³/lt	30	50	80	120	300
Flow rate with 0.1 bar loss cha	arge	m³/lt	20	55	65	120	300
Nominal flow	Qn	m³/lt	15	25	40	60	150
Min flow (accuracy ±5%)	Qmin	m³/lt	1.2	3	3.2	4.8	12
Transition flow (accuracy ±2%) Qt	m³/lt	4.5	7.5	12	18	45
Maximum reading		m³	10000	10000	10000	10000	10000
Length	L	mm	200	200	200	250	300
g Width	D1	mm	165	185	200	220	285
Height	Н	mm	247	258	265	272	302
Flange holes	Ø	mm	18	18	18	18	22
	N°		4	4	4	8	8
	D2	mm	125	145	160	180	240

200

340

110

130

300

472

152

200

160

280

100

120

Accessories Tanks • Mixers • Suction devices ...

Tanks in polyethylene

Our tanks are designed to assemble dosing systems with mixers and motor driven pumps or solenoid dosing pumps. All are made from food-safe polyethylene, resistant to almost all chemicals normally encountered.

Mod	Models and Technical Features				
Tank Code	Capacity (Lt)	Height (cm)	Diameter (cm)		
SER 50	50	45,5	40		
SER 100	100	64	46		
SER 250	250	87	59,5		
SER 300	300	95	67		
SER 500	500	118,5	76		
SER 1000	1000	122	108,5		

Mixers



Shaft	Propeller d	lameter (mm)	Motor	SER
length (mm)	Slow (70 rpm)	Fast (1400 rpm)	(kW)	Model
600	150			100
800	150	00	0.12	250
AISI 316 900	220	90	0,15	300
1100	220			500/1000
			:	
	Shart length (mm) 600 800 900 1100	Shart Propeller di length (mm) Slow (70 rpm) 600 150 800 220 1100 220	Shart Propeller diameter (mm) length (mm) Slow (70 rpm) Fast (1400 rpm) 600 150 90 900 220 90	Shart Propeller diameter (mm) Motor length (mm) Slow (70 rpm) Fast (1400 rpm) (kW) 600 150 90 0,13 900 220 90 0,13

	Technical Fe	atures	
Dimensions (mm) Length x Ø	Tube 4x6	Tube 8x12	Tank suitability
450 x 22	•		
450 x 34		•	JER JU
650 x 22	٠		SED 100
650 x 34		•	JER TOO
900 x 22	•		CED 250
900 x 34		•	JER 200
1050 x 22	٠		CED 200
1050 x 34		٠	3EK 300
1250 x 22	•		SED E00/1000
1250 x 34		•	SEN 200/1000

Reinforcement

Tank reinforcement made of PVC (20 mm thick) to be used to install mixers and motor driven pumps or solenoid dosing pumps on tanks SER series.

Мос	lels
Code	Tank
SML 100	SER 100
SML 250	SER 250
SML 300	SER 300
SML 500	SER 500
SML 1000	SER 1000



Uncovered Tanks in **Polyethylene**

Designed to contain our tanks SER series.



	Models an	d Technical	Features	
Code	Tank Model	Capacity (Lt)	Height (cm)	Diameter (cm)
T150	SER 100	150	75,5	51
T300	SER 250	300	87,5	67
T400	SER 300	400	99	72
T800	SER 500	800	120	90
T1500	SER 1000	1500	134	122

Suction Devices

A suction filter is provided to protect pump valves from debris or particles that could obstruct the pump valve.

Suction devices can also be supplied with integral level controls. These allow the use of alarms, and protect against the system running dry.

• Easy to install

- Standard FPM seals (EPDM upon request)
- Made of PCV with clear PVC suction tubing
- All suction devices are provided with a foot filter





Accessories Valves • Sensors • Priming-aid

HY Series adjustables valves

Max flow rate 50 lt/h	Material	PVC
Max proceure 10 has	Max flow rat	e 50 lt/h
inax pressure 10 bai	Max pressure	e 10 bar
Connections 1/2" g.m., tube 8x12, tube 4x6	Connections	1/2" g.m., tube 8x12, tube 4x6
Diaphragm FPM (standard) or EPDM (upon request)	Diaphragm	FPM (standard) or EPDM (upon request)
Max temperature of liquid 35 °C	Max tempera	ature of liquid 35 °C



Injection valves

50 lt/h
-
2, tube 4x6
1/2″ g.m.
10 bar
on request)
35 °C



Bleed valve

Gas inside the pump casing could compromise the correct functioning of the dosing pump.

The bleed valve is used to automatically eliminate any gas that has built up inside the pump casing. The bleed valve is fitted directly on the delivery side of the dosing pump.

Materials			Ø Connections
	Valve body	Diaphragm	IN/OUT [mm]
	DVC	EDM DTEE	4/6
	FVC	FFIVI - FIFE	8/12
		EDM DTEE	4/6
	FVDF		8/12

Backpressure valves ST Series adjustables

The precision of electronic pumps is affected by fluctuations in pressure at the intake, especially between 0 and 1 bar.

The backpressure valve keeps a constant pressure inside the pipeline during the dosage. In addition, dosing with a backpressure avoids siphoning from occurring in the pump.



Technical Features Max temperature of liquid 40° C

Multifunction valve



Multifunction valve acts as: a back pressure valve, an anti-siphoning valve, a safety valve, a priming valve, a delivery drain valve (for maintenance)

Multifunction valve is fitted directly on the delivery valve on the dosing pump.

Technical Features

Safety valve with pressure selection 6(*) - 12 bar Back pressure valve with pressure 1.5 bar 40°C Max temperature of liquid

(*) 6 bar type, supplied with 8/12 tube connections

Mate	Ø Connections	
Valve body	Diaphragm	IN/OUT [mm]
PVC	DTEE	a (c (t)
PVDF	PIFE	4/6(*)

Flow Sensor

In order to assess the actual dosing phase, the flow sensor can be used to detect the pump's pulsations during the delivery phase: the sensor can also be used to determine the actual dosing flow rate. This flow sensor is fitted directly on the delivery valve on the dosing pump.

Materials			
Body	Seals		
PVC	FPM		



Max temperature of liquid 40° C



Technical Featur	es
Max pressure	10 bar
Min pressure	0.5 bar
Max flow rate	500 lt/h

	Materials		
Valve body	Diaphgram	Seals	IN/OUT [mm]
PVC	PTFE	FPM EPDM	4/6 - 8/12
PVDF	PTFE	FPM	3/4" DIN8063

Priming-aid

Priming problems may occur on dosing pumps with a low flow rate, and also in case of excessive suction heights in relation to the pump's capacity. This accessory is able to resolve these problems. Where possible it is fitted at the same height as the pump's intake valve and a short distance from it.

Technical Features

Temperatura max. del liquido 40° C

Mat	erials	Ø Connections	Model
Body	Seals	IN/OUT [mm]	inouci
PVC	FPM	4/6 - 8/12	300 ml







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