

Chemical Dosing Pumps – PKX Series



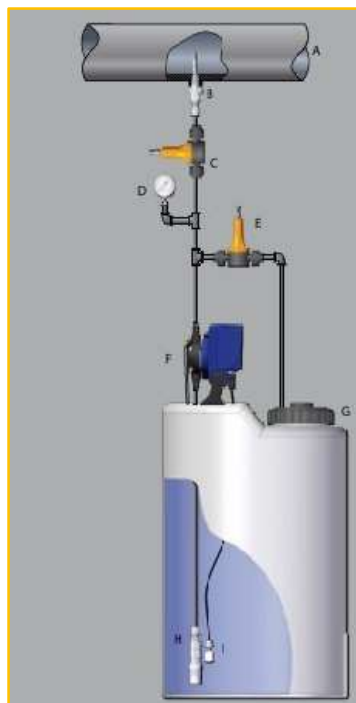
Dose Pump Materials of Construction

Pump head:	PP (polypropylene)
Injection valve sleeve:	FPM
Diaphragm:	PTFE (Teflon)
In/out tubing nipples:	PP
LIP valves, Seals & "O" rings:	FPM (Viton)
Injection valves:	PP
Suction line foot valve:	PP
Suction tubing:	Flexible PVC
Delivery tubing:	PE (polyethylene)

Etatron PKX series solenoid driven pumps deliver a measured amount of chemical anti-scalant, acid, caustic or sanitising agent into a feedwater stream or treatment tank. The pumps are quiet, compact, reliable, and manufactured using high quality components. Standard features include IP65 rated enclosure, manual air bleed pump head, and an integral contact closure-float sensor input input.

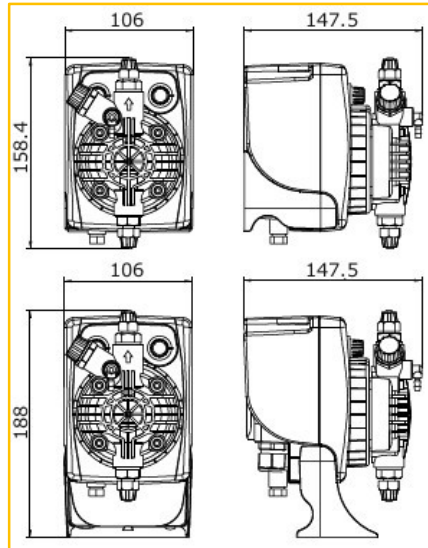
Flow rate is set using a single rotary control knob which varies the frequency of the fixed-stroke length solenoid valve operation between 0 and 100%. Pump models are available for flow rates between 1 and 10 litres/hour and injection pressures to 6Bar.

Sample Installation

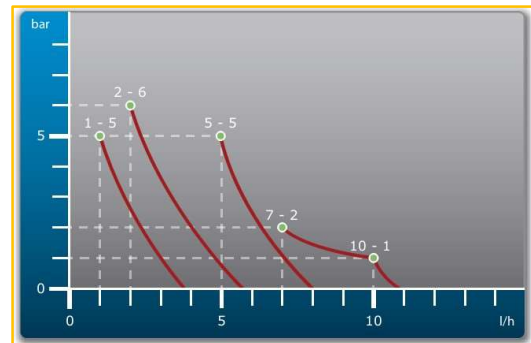


- A – Main Pipeline
- B – Injection Valve
- C – Backpressure Valve
- D – Pressure Gauge
- E – Relief Valve
- F – Dosing Pump
- G – Tank
- H – Foot Filter
- I – Level Switch

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Pump Flow Rate and Injection Line Pressure



The metering pump uses a solid PTFE (Teflon®) diaphragm mounted to the piston of an electromagnet/solenoid actuator. When the coil is energised, the piston/diaphragm moves to force liquid from the pump head. When the coil is de-energised, a spring returns the piston/diaphragm to the rest position drawing liquid into the pump head. Non-return valves in the suction and discharge ports control flow direction. No lubrication is required, and maintenance requirements are minimal. Wetted surface materials make the pump fit for use with most particularly aggressive liquids. The choice of pump relates to the required flow rate (1 to 10 l/h) and required line-injection pressure (1 to 6 Bar).

All five models in the PKX series are supplied with a fixed power cord, input for volt-free signal input (level sensor, flow switch, remote start etc.), installation kit, 2-way mounting bracket for vertical or horizontal surface mounting and user manual.

PKX MA-AL

The flow rate is set through a rotary potentiometer knob which controls the dosing frequency from 0% to 100% of rated capacity. The pump is supplied with a weatherproof ON-OFF switch.

NOTE: The MA-AL series have a remote or feed tank level control setting input option. This may be used with an external sensor such as a flow switch or other contact closure to control pump operation.

Technical Specifications PKX-MA-A and PKX-MA-AL Series (all models 220/240VAC, 50-60Hz)

Type	Flow l/h	Pressure bar	Strokes/min	Dose/stroke ml	Stroke mm	Suction m	Power Watts	Current Amp	Weight kg
1-5	1	5	120	0.14	0.80	2.0	32	0.14	1.9
2-6	2	6	120	0.28	0.80	2.0	32	0.14	1.9
5-5	5	5	120	0.69	1.10	2.0	32	0.14	1.9
7-2	7	2	120	0.97	1.30	2.0	32	0.14	1.9
10-1	10	1	120	1.39	1.30	2.0	32	0.14	1.9

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Options Available Include

- Pump head with gravity type Pyrex glass valves or AISI 316/ceramic
- PVDF pump head for aggressive liquids (VITON seals are standard)
- Auto-Degas pump head for use where outgassing may occur
- Pump head with hastelloy spring loaded ball valve using Pyrex glass or 316/ceramic
- Wetted surface material options include PVDF, EPDM, Silicone, NMR, 316 s/s or PTFE
- Chemical storage tanks 60, 100 and 200 litre capacity with low level switch

Other Etatron Pumps Available



B3-V Peristaltic Series



BT MA & VFT Series



BT MF Series



Model DLXB-MA/M



Automatic Air Bleed Head



PVDF Manual Air Bleed Head