Series G

When strength means performance...



Dosing pumps with mechanically-actuated diaphragms simple and robust



Dosing pumps Series G

The G Series consists of three models of compact and lightweight dosing pumps, weighing between 7 and 40 kg. G Series pumps can handle a very wide range of flow rates.

These pumps are recommended for low discharge pressures - mainly in water treatment and surface treatment, but also in the food industry in clean-in-place applications, etc.

G Series models are multi-purpose dosing pumps and can handle all known reagents. They are designed for continuous service day in and day out and can run dry without any damage to the pump.

G Series pumps also incorporate a variable eccentric system, previously only found in industrial pumps operating under intensive service conditions. This unusual patented design principle has proved its worth in service.

The PTFE diaphragm is directly linked onto the moving parts of the mechanism (the slide and the variable eccentric). This technology allows G Series dosing pumps to cope with high suction head conditions.





Advantages

Exclusive features for guaranteed performance

Proven flexibility in the harshest environments

Wide variety of liquid ends

G Series dosing pumps offer a wide choice of liquid end materials which are compatible with most chemical substances:

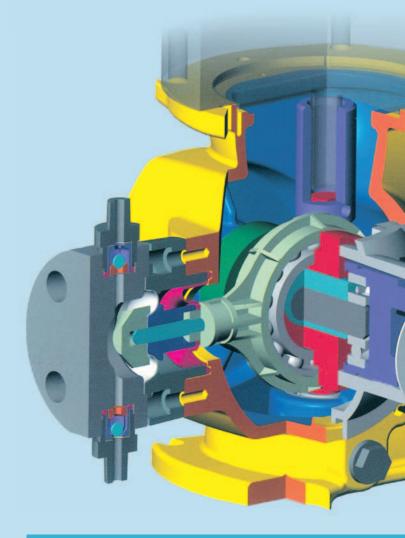
- Polypropylene (PP).
- PVDF.
- Stainless steel.
- · High viscosity.
- Fluorinated liquids.
- Slurries...

Automatic flow control

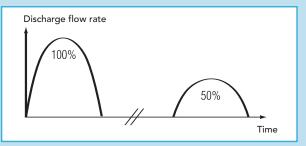
Different control systems can be used to automate flow settings on G Series pumps:

- **Electronic servo-motor:** automatic stroke setting adjustment
- Variable speed drive: motor speed adjustment.
- **Varipulse**®: automatic flow control providing a number of different control modes.

GM Series pump fitted with a Variousse unit



Variable eccentric



G Series dosing pumps

G Series pumps produce a smooth output which minimizes pulsing and eliminates shock (e.g.: 100% and 50% of stroke).

A wide choice of options and accessories

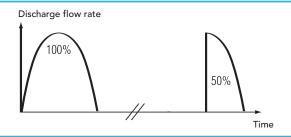


Proven reliability of design

- All parts of the mechanism have permanent lubrication.
- Ball bearings used for main moving parts: connecting rod, wheel and worm screw.

This design helps to prevent overheating and extend pump life and plays a key part in keeping G Series pumps running quietly.

Please do not hesitate to contact us if you require any specific information



Conventional dosing pumps

Output characteristics with hydraulic shock created by conventional dosing pumps (e.g.: 100% and 50% of stroke).

G Series dosing pumps can be supplied with an automatic flow control system. Further options include a double diaphragm liquid end and a stroke counter.

A wide variety of accessories are available to meet specific conditions at your installation site such as long lengths of discharge piping, low pressures below 1.5 bar and so on. Accessories include 3-function valves, 4-function valves, check valves, relief valves, damper vessels, calibration pots, etc.

Multiplex pumps



Fertilization in soilless culture applications, containers and arboriculture:

- duplex version: two fertilizers injected into irrigation piping separately to avoid formation of precipitate,
- triplex version: injection of two fertilizers plus nitric acid to correct pH.

Another application is the treatment of water for swimming pools, with injection of coagulant, disinfectant etc.

3 models

cover full range of requirements

Low-cost compact pumps with high-performance flow-rate and pressure characteristics

GA, GM, GB

GA Series

This is the most compact and economical model with flow rates up to 170 l/h and pressures up to 12 bar. The housing is extremely strong and is made from fibreglass-reinforced material giving excellent resistance to corrosion.

GM Series

The GM Series dosing pump is of metal construction. It is particularly useful in multiplexing applications and can be used with up to three identical or different liquid ends. The pump can handle flow rates of up to 500 l/h and pressures up to 12 bar and is suitable for a large number of industrial uses other than water treatment, such as the injection of reagents at medium pressure.

GB Series

The GB Series dosing pump is also of metal construction with a cast aluminium housing. This model can handle the largest output with flow rates of up to 1,200 l/h at pressures up to 10 bar.

Surface treatment



Injection of inorganic additives, wetting agents and brightener for a continuous nickel-plating line

G Series pumps are used for adding reagents in surface treatment processes.

- chemical (phosphate) treatment: addition of degreasing agents, phosphate treatment additives and passivation products;
- electrolytic (electro-plating) treatments: addition of degreasing agents, cleaning agents, bases and brighteners to treatment baths for zinc and zinc alloy plating, nickel electroplating and chemical nickel plating, copper plating, tinning and so on, plus dosing passivation products.

Control systems for these applications can be based on the treated surface (in chemical treatment) or on power consumption (in electrolytic treatment). Measuring devices for chemical and physical properties such as pH or conductivity may also be used.

Water treatment



Injection of coagulants, flocculating agents and caustic soda in a water treatment process following application of liquid wax.

Series G range pumps are used for feeding reagents and treatment products and are particularly suitable for:

- potable water treatment: injection of coagulants, flocculating agents, sodium hypochlorite, lime slurry, acid, bases, caustic soda, activated carbon, etc,
- · domestic or industrial waste water treatment,
- air pollution control,
- plus other applications including the treatment of water for swimming pools, domestic hot water, boiler feed water, cooling water, etc.

Performance - comparisons between G Series pumps

		Flow Rate Pressure Stroke			Power	
	Model	(max)	(max)		motor (W)	
		l/h	bar	spm	single phase	3-phase
	GA	2.5 5 10 25 50 83 110	12 12 12 12 10 5 3.5 3.5	36 72 144 72 144 72 144	180 180 180 180 180 180 180 180	90 60 60 60 60 60 60
The second secon	GM	2.25 4.5 9 25 50 85 120 170 240 315 400 500	12 12 12 12 10 7 7 7 7 5 5	36 72 144 72 144 72 72 144 144 144 144	180 180 180 180 180 180 180 180 180 180	90 90 90 90 90 90 90 120 120 250 250
	GB	90 175 236 345 430 472 590 950 1200	10 10 8 10 8 7 7 7 3.5 3.5	36 72 72 144 180 144 180 144 180	- - - - - - -	370 370 370 550 550 550 550 550

Performance for max. standard stroke rates at 50 Hz. Please contact us if the performance characteristics you require are not covered on this table.





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