

PRODUCT INFORMATION



FG PUMPS

METERING PUMPS FOR
CHEMICALS

FGS SERIES



SOLENOID PUMPS, INSTRUMENTS, PROBES AND
ACCESSORIES

PUMPS FOR CHEMICALS



FGS SERIES – THE ULTIMATE SOLUTION FOR PRECISE AND VERSATILE DOSING NEEDS

FGS solenoid driven dosing pumps are specifically designed to meet the demands of various water treatment application ensuring precise and consistent chemical dosing.

Why choose FGS Series

UNMATCHED PERFORMANCE

With FGS Series you can count on exceptional and versatile performance every time, our pumps are engineered with precision to deliver accurate dosing, meaning perfect chemical balance in your systems.

RELIABILITY AND DURABILITY

We understand the importance of a reliable dosing solutions, that's why FGS series pumps are built to last, the liquid ends are resistant to a wide range of chemicals and will perform flawlessly even in demanding environment.

EASY TO INSTALL AND OPERATE

We believe simplicity is key, FGS solenoid pumps are designed for effortless installation and operation with user-friendly interfaces and intuitive controls, you'll have your dosing system up and running in no time.

SAFETY IN EVERY ASPECT OF THE DESIGN

FGS Series pumps feature built-in safety mechanisms that prevent over-dosing and protect against system malfunctions. With these pumps, you can trust that your water treatment process is both efficient and secure.

BUILT IN PERFORMANCE SELECTOR

Solenoid driven dosing pumps FGS Series are the ultimate solution for precise and versatile dosing needs, allowing to achieve three different flow rates using the same pump.

The same solenoid driven dosing pump can adapt to the specific needs of the installation, outputting more flow rate to meet the chemical requirements of the plant or reduce the max flow rate to ensure even more precise dosing



FGS K



FGS P



FGS M



FGS PH



FGS CL



FGS SERIES – PERFORMANCE AND CURVES

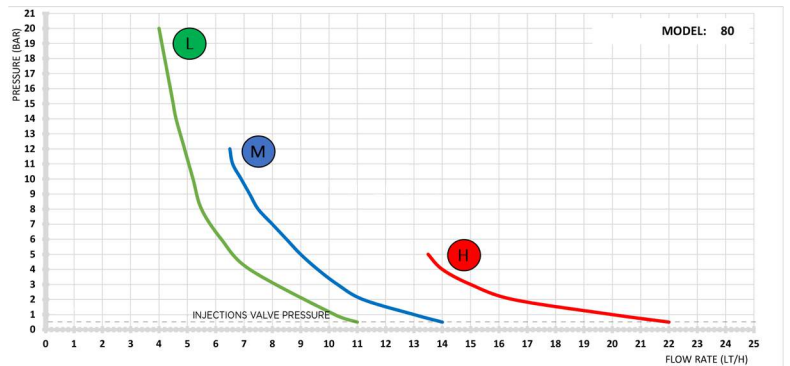
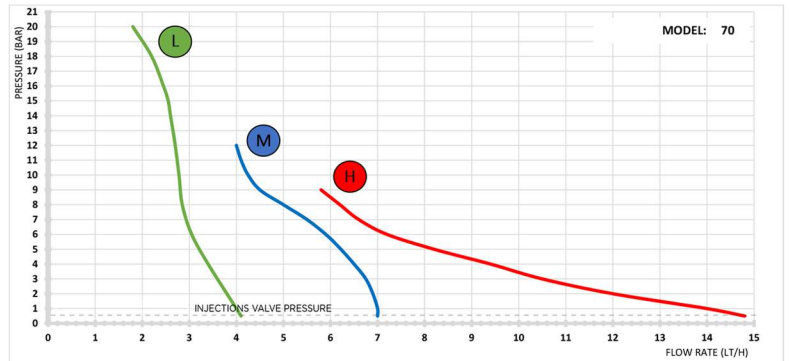
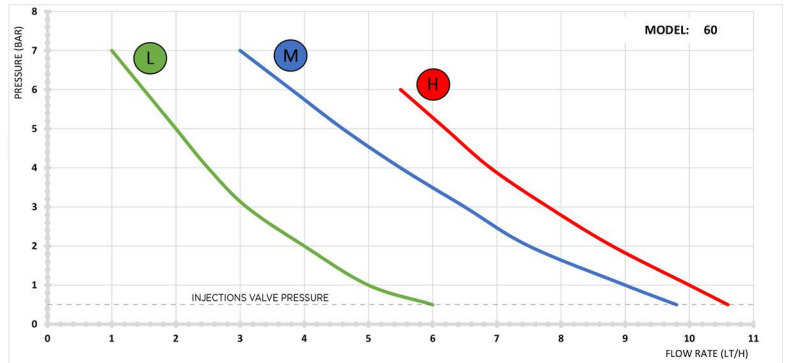
SOLENOID SIZE

TYPE

60	L	1 lph / 7 bar 5Lh / 1 bar
	M	3 lph / 7 bar 9 lph / 1 bar
	H	5 lph / 6 bar 10 lph / 1 bar

70	L	1,5 lph / 20 bar 4 lph / 1 bar
	M	4 lph / 12 bar 7 lph / 1 bar
	H	6 lph / 8 bar 14 lph / 1 bar

80	L	4 lph / 20 bar 10 lph / 1 bar
	M	6 lph / 12 bar 13 lph / 1 bar
	H	13 lph / 5 bar 20 lph / 1 bar



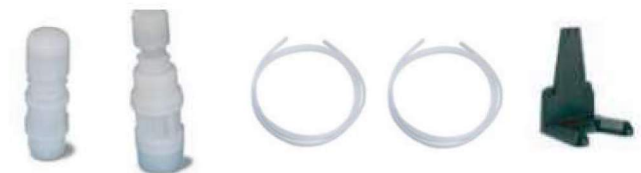
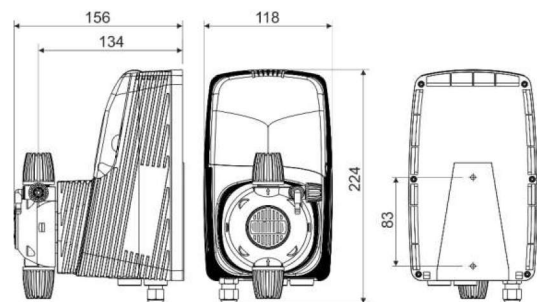
FGS SERIES – MATERIALS AND DIMENSIONS

	Standard	Upon Request*
Pump head	PVDF	PP
Pump housing	PP - IP65	
Diaphragm	PTFE	
Check Valves	CERAMIC Sphere	Pyrex Sphere
Valve Seat	PVDF	PP
O-rings	FPM	EPDM
Injection fitting	PVDF 4*6	PP 4*6
Power supply	120-230V/ 50-60Hz	12-24Vdc

* More configuration available upon request

FGS SERIES – DOSING KIT CONFIGURATION

	Material
Injection valve	PVDF - Spring Loaded
Foot Filter	PVDF - Spring Loaded
Valve / Spring Material	CERAMIC / Hastelloy
Discharge Hose	2mt PE
Suction Hose	2mt PVC
Mounting Support	PP



FGS K SERIES - CONSTANT ON OFF DOSING PUMP



MAIN FEATURES

Constant ON/OFF Analogic solenoid driven dosing pump

Stroke frequency adjustment 0-100%

Frequency button 20%

Dosing KIT included

FGS P SERIES - PROPORTIONAL DOSING PUMP



MAIN FEATURES

Proportional to external digital signal

Proportional to external 4-20 mA signal

Constant ON/OFF mode

Level probe connector

Dosing KIT included

FGS M SERIES - MULTIFUNCTION DOSING PUMP



MAIN FEATURES

- Proportional to external digital signal
- Proportional to external 4-20 mA signal
- PPM setting mode
- Constant ON/OFF mode
- Label probe connection
- Proximity switch function
- Real clock programmable timer
- Multi-language programming menu
- Dosing KIT included

FGS PH AND FGS CL SERIES - MICROPROCESSOR ANALYSER SOLENOID PUMPS



PH or ORP

MAIN FEATURES

- Built in controller
- Setpoint ON/OFF mode or proportional mode (PWM)
- Reverse and direct dosing mode
- Electrode quality verification
- Over dosing alarms
- Real clock programmable timer
- Multi-language programming menu
- Dosing KIT included



2,5,10,20,200 PPM



FG CONTROL SERIES - THE ULTIMATE SOLUTION FOR PRECISE AND VERSATILE DOSING NEEDS

FG Control Digital Analyzer series comes from many years of combined experience in water treatment applications, developed with the latest technologies the user-friendly software is capable of high precision measurements. High compatibility features ensure easy integration in BSM and SCADA Systems.

Why choose FG Control Series

EASY TO USE AND CALIBRATE	COMPATIBILITY	HIGH PRECISION MEASUREMENT	SAFETY AND PROTECTION
Guided and easy to follow calibration procedure for all the needed parameters. Intuitive self-explanatory multilanguage programming menu	Compatible to a wide range of sensors and probes can be integrated in pre-existing setups. Service relays can be connected to external equipment.	The latest generation microprocessor ensures high precision and reliable measurement. Hysteresis and PWM function ensure no chemical product waste	Tamper proof password, double menu' (Expert/basic) hides the more technical functions. Programmable alarms alerts when human intervention is needed.

COMMON FEATURES TO ALL FG Control SERIES

- LCD backlit display
- Set points ON OFF Mode or PWM Mode
- Alarm relay
- Statistics log for alarm and setpoint activation
- PT100, level, and flow switch inputs
- Basic and Expert menu
- Password protection



FG CONTROL D SERIES



AVAILABLE MODELS

FGD100

SINGLE PARAMETER for pH,ORP, Chlorine PPM Measurement

FGD200

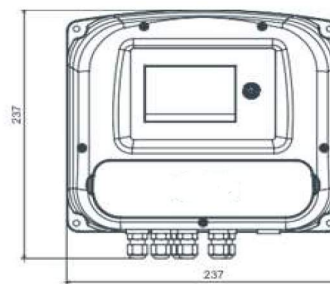
DOUBLE PARAMETER pH-CL, pH-EC PH-ORP for simultaneous measurement (pH priority)

FGD300

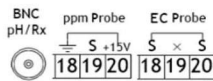
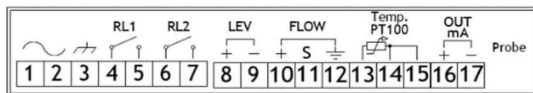
TRIPLE PARAMETER pH-ORP-CL, pH-CL-EC for simultaneous measurement (pH priority)

TECHNICAL CHARACTERISTICS AND DIMENSIONS

	D100	D200	D300
Parameters	1	2	3
Display resolution	128*64 Digital		
Outputs Relay	4	6	8
Setpoints	2	3	4
Temperature probe	PT100		
mA outputs	1	2	3
Auxiliary outputs	1	2	3
Alarm relay	1	1	1
Level probe inputs	1	1	1
Proximity sensor input	Yes		
ON-OFF mode	Yes		
PWM	Yes		
Overdosing alarm	Yes		
Timer	Yes		
RS485 Modbus connection	Yes		
WI-FI/ETHERNET external module	Upon request		
Remote access software	Upon request		



FGD CONTROL D AND SERIES - SINGLE PARAMETER CONTROLLER



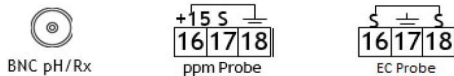
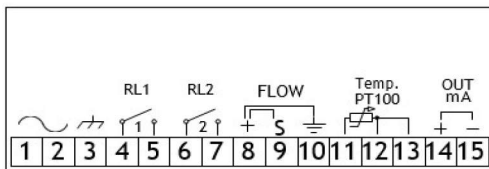
AVAILABLE MODELS

FGD – DIN pH/ORP
Controller for pH (0.14) or ORP (1500-+1500mV)

FGD – DIN CL
Controller for CL measurement. Range 0-10 PPM

FGD – DIN PPM
Controller for potentiostatic membrane sensors,
range 0-2,0-20,0-200 ppm
Suitable for chlorine, dioxide, peracetic acid and
more

FGD – DIN EC
Controller for electroconductivity measure. Range
K1, K10, K10



AVAILABLE MODELS

FGD – R pH/ORP
Controller for pH (0.14) or ORP (1500-+1500mV)

FGD – R CL
Controller for CL measurement. Range 0-10 PPM

FGD – R PPM
Controller for potentiostatic membrane sensors,
range 0-2,0-20,0-200 ppm
Suitable for chlorine, dioxide, peracetic acid and
more

FGD – R EC
Controller for electroconductivity measure. Range
K1, K10, K10

COMPLETE PRE-ASSEMBLED SYSTEMS PANEL MOUNTED

FG Pumps provide ready to use pre-mounted solutions for the most common applications. All pre-mounted systems are ready and quick to install, simple to use and set-up, easy to maintain.

Most popular panel mounted solutions include swimming pool water treatment systems, potabilization systems, anti-legionella water treatment systems.



To meet the many needs when it comes to water treatment applications FG pump offers full customization of its pre-mounted solution: Our sales and technical team is ready to select dosing pumps, sensors, controllers depending on the specific application.

Panel Composition

- Dosing and Control



The upper part of the dosing panel is where the controller and the dosing pumps are mounted. The controller can measure up to 4 parameters simultaneously and will be connected to up to 3 dosing pumps which will automatically activate to meet the dosing setpoint.

- Hydraulic and Measuring



The lower part of the panel is where the sensor holder and sensors are mounted. The sensors can be chosen from the wide range FG pumps can provide and the sensor holder can house upon request PT100 sensors for temperature measure, proximity switch to stop the pump operations if no flow is detected, pre filter 80 micron to further protect the sensors and probes for impurity in the water

ASSEMBLED PANEL FOR SWIMMING POOLS

FGS – Pool Control Basic



Suitable for residential swimming pools supplied with analyser for pH and CL, two dosing pumps connected to pH and Chlorine setpoint which will dose according to the measures of a chlorine cell (0-10ppm) and a pH electrode. The panel is complete with proximity switch to stop pumps operation when there is no flow in the sensor holder.

Installation KIT comprehensive of pre filter, hoses for suction and discharge, injection valves and foot filters.

FGS – Pool Control Plus



Suitable for residential and public swimming pools supplied with analyser for pH, ORP and CL, two dosing pumps connected to the setpoints which will dose according to the measures of a potentiostatic membrane sensor (2ppm, 10ppm or 20 ppm) and a pH electrode. ORP measure is included as reference for chlorine. The panel is complete with proximity switch to stop pumps operation when there is no flow in the sensor holder, PT100 temperature sensor.

Installation KIT comprehensive of pre filter, hoses for suction and discharge, injection valves and foot filters, buffer solutions, electrolyte gel

ASSEMBLED PANELS FOR LEGIONELLA CONTROL



This systems can measure the level of chlorine in hot water storage systems and dose anticorrosive conditioner and disinfectant such sodium hypochlorite, chlorine dioxide and similar. It includes two pumps which can work according to the external digital signal (water meter). The disinfectant dosing pumps is supplied with auto bleed pump head.

The sensor holder contains a proximity switch which will stop pump operations if no flow is detected in the holder.

The panel is supplied with installation KIT comprehensive of pre-filter, hoses, injection valves, foot filters with level probe, electrolyte gel.

SPARE PARTS, ACCESSORIES AND SUPPORT EQUIPMENT

FG can supply many accessories and support equipment for a vast variety of applications:



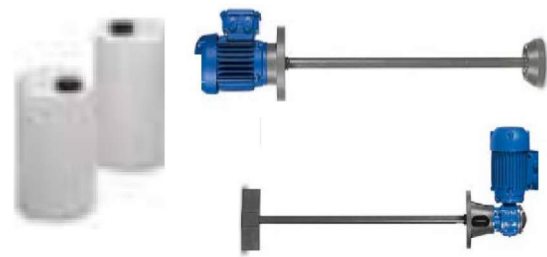
MODULAR SENSOR HOLDERS



SPARE PARTS, FITTINGS, VALVES



FILTRATION EQUIPMENT



DOSING TANKS AND MIXERS



FLANGED AND THREADED WATER METERS



SENSORS AND PROBES



FG PUMPS

METERING PUMPS FOR
CHEMICALS



FG PUMPS

Via B. Buozzi 23/27

20054

Segrate (MI)

ITALY

FG PUMPS is a FUGI S.r.l. brand



MADE IN ITALY

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