

Proportional volumetric dosing system for water-soluble products with automatic pressurization of the solution formed



FG30-EA System

no contractual picture

1) Description.

Complete, compact , flexible, modular equipment for volumetric dosing and supply of the solution under pressure.

Ideal for use in the pressure casting, forging, glass, graphic arts, metal-working industries, etc.

Products normally metered and prepared : graphite, coolants, releasing agents, degreasing and protective solutions, print additives and isopropylic alcohol, at usual concentrations.

FG30-EA has been designed for all those applications where a solution must be prepared automatically and sent under pressure to the point of use.

This dosing unit represents the easiest and most reliable way to form solution or emulsions with a rigorously constant concentration and proportional to feedind water.

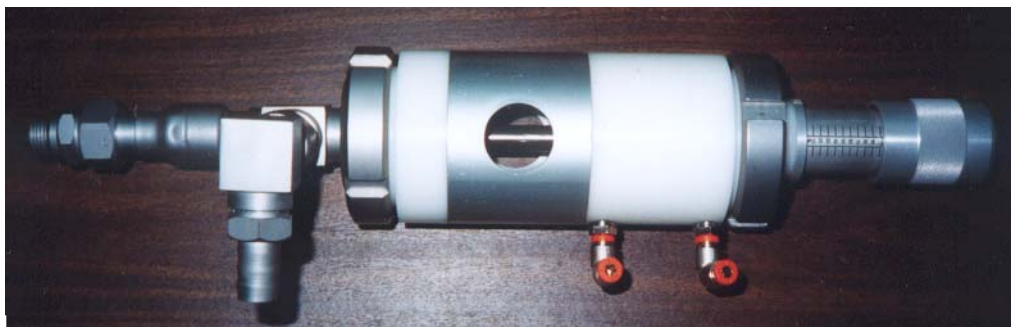
The unit is operated by a microprocessor of easy duty.

The entire cycle is fully automatic including topping up and supply of the solution.

The system is usually designed for wall-mounting but special structures are available for floor installation and enclosures.

A water and compressed air supply at the usual pressures is required for functioning.

The system use normally electric power, but in option the system can be designed for using without electric power for using in areas with a risk of explosion.



Dosing pump

no contractual picture

2) Functionality.

FG30-EA is based on the principle of proportionality existing between the water passage and the product dosed.

The proportionality is obtained through a electronic turbine watermeter which sends impulses to a special microprocessor instrument that, according to the concentration setted, operates a special variable capacity dosing pump, providing to inject, to each impulse, the chemical in the static mixer.

The solution is then vigorously mixed in the static mixer and sent to the storage tank. After the solution is sent to the point of use at the required pressure by an air-operated diaphragm pump (working pressure is equal to the pressure of the compressed air applied).

3) Main features.

Flow	:	100 – 3000 LT/H
Concentration	:	0-2 ; 0-5 ; 0-10; 0-20 %
Water pressure	:	0,5 – 10 BAR
Compressed air pressure	:	3 – 8 BAR
Water inlet Diameter	:	3/4"
Solution outlet diameter	:	3/4"
Chemical suction diameter	:	1/2"