



DOSATRON®

WATER POWERED DOSING TECHNOLOGY

2.5 m³/h

DI 1500 - 0.07 - 0.2 %



SPECIFICATIONS

- Injection Range: **0.07 - 0.2 %**
[1 : 1500 - 1 : 500]
- Water flow range*: **10 l/h - 2.5 m³/h**
[0.16 l/mn - 41.66 l/mn]
[1/3 US Pint/min - 11 US GPM]
- Operating pressure: **0.3 - 6 bar**
[4.3 PSI - 85 PSI]
- Concentrated additive injection: **0.007 l/h - 5 l/h**
[0.0039 US Fl oz/min - 0.022 US GPM]

* For operating unit with other fluids than water, please contact us.

A unique technology associating all dosing functions

Dosing Technique:

Non-electric proportional

Energy Source:

Water flow and pressure

Integrated Functions:

- **Metering:** volumetric hydraulic motor
- **Injecting:** continuous proportional injection of liquid or soluble concentrate
- **Regulating:** proportionality servo-controlled by the water flow
- **Mixing:** integrated mixing

Package contents:

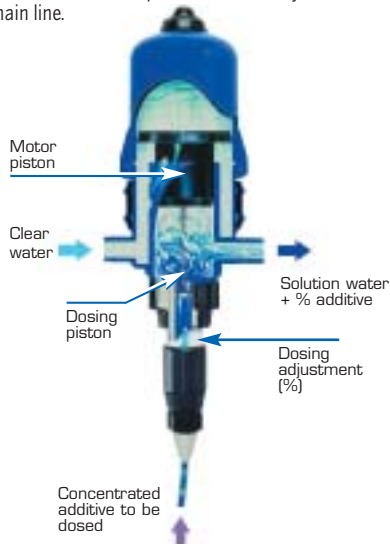
- 1 Dosatron, 1 wall bracket,
- 1 Suction tube 175 cm [69"]
diam. 6 x 9 mm [1/4" id x 3/8" od]
- 1 Owner's manual



2.5 m³/h - 0.07 - 0.2 %

Operating Principle

Installed directly in the water supply line, the Dosatron operates by using the flow of water as the power source. The water activates the Dosatron, which takes up the required percentage of concentrate directly from the container and injects it into the water. Inside the Dosatron, the concentrate is mixed with the water, and the water pressure forces the solution downstream. The dose of concentrate will be directly proportional to the volume of water entering the Dosatron, regardless of variations in flow or pressure, which may occur in the main line.



Proportional injection externally adjustable



The injection rate is set by lining up the top of the adjusting sleeve with the desired ratio on the scale. The amount of injected concentrate is proportional to the amount of water coming into the Dosatron:



Ex. At 1% = 1:100 = 1 part of chemical injected into 100 parts of water

Dosatron, a complete range

Dosatron develops, manufactures and markets a unique dosing technology that allows any liquid or soluble concentrate to be continuously and proportionally injected and mixed into water.

The 2.5 m³/h range

REF.	DOSING	PRESSURE
FIXED		
DI 08 F	0.8 %	0.3 - 6 bar
DI 02 F	0.2 %	0.3 - 6 bar
REGLABLE		
DI 1500	0.07 - 0.2 %	0.3 - 6 bar
DI 05	0.2 - 0.5 %	0.3 - 6 bar
DI 2	0.5 - 2 %	0.3 - 6 bar
DI 16	0.2 - 1.6 %	0.3 - 6 bar
DI 150	1 - 5 %	0.3 - 6 bar
DI 210	2 - 10 %	0.5 - 4 bar
DI 520 (1.5 m ³ /h limit)	5 - 20 %	0.5 - 4 bar

Caractéristiques

General	
- Maximum operating water temperature	40 °C [104 °F]
- Minimum operating water temperature	5 °C [41 °F]
- Dosing rate	ex. At 1 % = 1:100 = 1 V of concentrated chemical for 100 V water
- Average dosing accuracy	+/- 5 % (Charts on demand)
- Repeatability	+/- 3 % (API 675 standard)
- Pressure loss	0.4 - 1.6 bar [5.8 - 23.2 PSI] selon conditions de fonctionnement
Other integrated functions	
- Internal motor filter	350 microns [50 mesh]
- Inlet/Outlet	3/4" M : BSP - NPT - Ø 20 x 27 mm option
- Built-in by-pass	yes
- Built-in air bleeder	yes
- Built-in anti-siphon device	no
Moteur	
- Motor	differential hydraulic piston
- Motor capacity	0.45 L [0.118 US Gallons] (1 cycle)
- Mixing chamber	integrated
Dosage	
- Injection	internal at the outlet
- Dosing plunger	simple effect, injection on the downstream
- Injection check valve	spring-loaded cone
Suction	
- Self-priming	yes
- Maximum viscosity of concentrate	400 cSt to 20 °C [68 °F]
- Maximum vertical or horizontal suction of the concentrate	4 m [13ft]
- Strainer	yes - foot strainer with weight

Markets

Environment - Hygiene - Water treatment - Vehicle wash - Metal processing - Food processing - Graphic Arts - Horticulture - Livestock ...

Principal applications:

Medication - Disinfecting - Cleaning - Fertigation - Phytosanitation - Supplementation - Lubrication - PH/TH Correction - Sanitation - Flocculation - Vehicle wash...

Installation

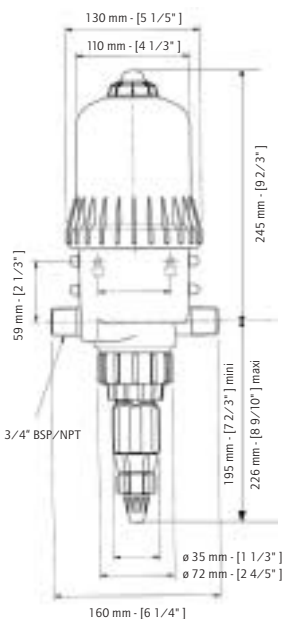
Regulations: Refer to local water regulations, prior to installing your Dosatron.

To optimize your Dosatron, we advise to:

- Install a filter (300 mesh [60 microns]) upstream, depending on your water quality.
 - Change the seals once a year.
 - Rinse as often as possible with clear water.
 - Turn off the water supply and allow the pressure to drop to zero before adjusting the injection rate.
 - Install necessary protections for excess flow, excess pressure and water hammer (anti hammer flow/pressure device)
 - Install your Dosatron on a total by-pass line.
- For all other installation advice, please consult us.

Size:

- Package size : 52 X 16.8 X 17.5 cm [20 1/2" x 6 5/8" x 6 7/8"]
- Package weight : 1.7 kg [- 3.7 US lbs]



Standard Material

Housing : polyacetal, EPDM
 Motor piston : polypropylene, polyamide, stainless steel, afias, polyacetal
 Injection area : polypropylene, polyethylene, hastelloy (check valve spring)
 Injection hose : PVC

Available options

(■) : Option ● : Standard ★ : not available for this model)

Optimized Compatibility

- AF : Recommended seals for alkaline concentrate
- VF : Recommended seals for acid concentrate
- PVDF : Housing
- H : Hastelloy plunger rod
- ★ IE : External injection
- ★ V : Kit for viscous concentrate
- ★ Injection hose : Special material hose and foot strainer available



PVDF housing.

Optimized installation

- BP : integrated by-pass
- Other fittings
- Strap
- ★ Support legs
- Other: Please contact us



Integrated by-pass: system of turning product injection on and off.

Those options allow adapting your Dosatron to your needs. Contact our technical service to help determine what option you may need.

PATENTED PRODUCTS
 Each Dosatron unit is factory tested.

CUSTOMER SERVICE - SERVICE CLIENTÈLE

DOSATRON INTERNATIONAL

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