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”], 1 Owner’s manual

SPECIFICATIONS

- **Injection Range:**
  0.05 - 25 %*
  [1 : 2000 - 1 : 4]

- **Water flow range:**
  10 l/h - 3 m³/h
  [0.16 l/min - 50 l/min]
  [1/3 US Pint/min - 14 US GPM]

- **Operating pressure:**
  0.3 - 6 bar
  [4.3 PSI - 85 PSI]

- **Concentrated additive injection:**
  0.005 - 500 l/h
  [0.003 Fl. oz/min – 2.2 US GPM]

* Depending on models - see models on the back
** For other fluids than water, please contact us
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 eyelet with the desired ratio on the scale. The amount of injected concentrate is proportional to the amount of water coming into the Dosatron: i.e. adjustment at 1% = 1:100 = 1 volume of concentrate + 100 volumes of water.

The 3 m³/h range

<table>
<thead>
<tr>
<th>REF.</th>
<th>DOSAGE</th>
<th>PRESSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>D 3 RE 2000**</td>
<td>0.05 - 0.3 %</td>
<td>0.3 – 6 bar</td>
</tr>
<tr>
<td>D 3 RE 2</td>
<td>0.2 - 2 %</td>
<td>0.3 – 6 bar</td>
</tr>
<tr>
<td>D 3 RE 5</td>
<td>0.5 - 5 %</td>
<td>0.3 – 6 bar</td>
</tr>
<tr>
<td>D 3 RE 10</td>
<td>1 - 10 %</td>
<td>0.5 – 6 bar</td>
</tr>
<tr>
<td>D 3 RE 25**</td>
<td>5 - 25 %</td>
<td>0.5 – 4 bar</td>
</tr>
</tbody>
</table>

* in development
** in development - 2 m³/h limit

Other product lines available to treat water flows up to 0.7 m³/h, 1.5 m³/h, 4.5 m³/h, 8 m³/h, 20 m³/h, 30 m³/h, 60 m³/h. For special models, accessories and particular systems: please consult us.

Specifications

General
- Maximum operating water temperature: 40°C (104°F)
- Minimum operating water temperature: 5°C (41°F)
- Dosing rate: i.e. adjustment at 1% = 1:100 = 1 V concentrate + 100 V water
- Average dosing accuracy: +/- 10 % (Charts on demand)
- Repeatability: +/- 3 % (API standard)
- Pressure loss: 0.2 - 2.3 Bar [3 - 33 PSI]*

Other integrated functions
- Internal motor filter
- Inlet/Outlet
- Built-in by-pass
- Built-in airbleeder
- Built-in anti-siphon device
- Motor
- Motor capacity
- Mixing chamber
- Differential hydraulic piston (1 cycle, for every 2 clix) integrated
- Injection
- Dosing plunger
- Injection check valve
- internal at the outlet simple effect up to 10%, double effect > 10% spring-loaded with seal
- Suction
- Self-priming
- Maximum viscosity of concentrate: yes 200 - 800 cPs to 20°C [68°F] - from 400 cP. V kit recommended for dosage > 2%
- Maximum vertical or horizontal suction of the concentrate: 4 m [13 ft]

Dosing
- Motor Piston: polypropylene,
- Housing: special polypropylene, HT
- Motor: differential hydraulic piston
- Self-priming: yes
- Injection check valve: spring-loaded with seal
- Built-in anti-siphon device: no
- Built-in airbleeder: yes
- Built-in by-pass option: yes
- Internal motor filter: no
- Pressure loss: 0.2 - 2.3 Bar [3 - 33 PSI]*
- Repeatability: +/- 3 % (API standard)
- Minimum operating water temperature: 5° C [41° F]

Markets
- Environment - Hygiene - Water treatment - Vehicle wash - Metal processing - Food processing - Graphic Arts - Horticulture...
- Disinfecting - Cleaning - Fertilization - Phytosanitation - Lubrication - PH/TH Correction - Sanitation - Flocculation - Vehicle wash
- To optimize your Dosatron, we advise to:
  - Install a filter (300 mesh [60 microns]) upstream, depending on your regulations:
  - Refer to local water regulations, prior to installing your Dosatron.
- PH/TH Correction - Sanitation - Flocculation - Vehicle wash...
- Fertigation - Phytosanitation - Lubrication - Food processing - Graphic Arts - Horticulture...
- Markets
- Markets

Other integrated functions

- Injection hose: Special material for hose and foot strainer available
- Injection area: polypropylene,
- Motor Piston: polypropylene,
- Housing: special polypropylene, HT
- Standard
- Motor Piston: polypropylene,
- Housing: special polypropylene, HT
- Motor: differential hydraulic piston
- Self-priming: yes
- Injection check valve: spring-loaded with seal
- Built-in anti-siphon device: no
- Built-in airbleeder: yes
- Built-in by-pass option: yes
- Internal motor filter: no
- Pressure loss: 0.2 - 2.3 Bar [3 - 33 PSI]*
- Repeatability: +/- 3 % (API standard)
- Minimum operating water temperature: 5° C [41° F]

Standard material

- Housing: special polypropylene, HT
- Motor Piston: polypropylene,
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- Housing: special polypropylene, HT
- Motor: differential hydraulic piston
- Self-priming: yes
- Injection check valve: spring-loaded with seal
- Built-in anti-siphon device: no
- Built-in airbleeder: yes
- Built-in by-pass option: yes
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Available options

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

Optimized compatibility
- AF: Recommended seals for alkaline concentrate
- VF: Recommended seals for acids, oils, odour or pest control concentrates
- K: For highly concentrated acids (> 15 %)
- PVDF: Housing
- V: For viscous concentrate
- Injection hose: Special material for hose and foot strainer available
- PVDF housing for highly concentrated acids and other aggressive concentrates

Accurate adjustment at 1.5 %

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

Each Dosatron unit is factory tested and registered.

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