

# Dosatron Technology

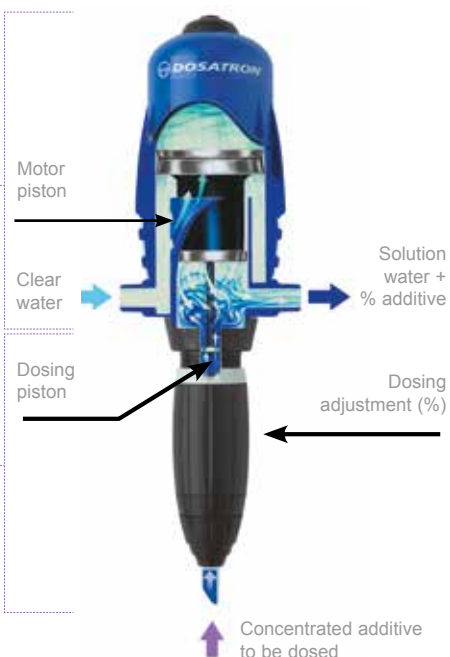
Dosatron technology is based on a hydraulic motor pump activated only by pressure and the flow of the water.

## The hydraulic motor

The motor piston moves under the pressure of the water.

A system of valves allows the movement to be reversed.

The dosing pump is called a VOLUMETRIC pump



## The dosing assembly

The Dosing piston driven by the motor continuously injects a fixed volume of product (adjustable capacity of the dosing body). The dosing piston will inject the quantity of product that corresponds to the volume of water passing through the motor. Therefore, the operating principle ensures constant dosing, independently of the variations in flow rate and pressure of the water.

The injection of the product is **PROPORTIONAL** to the water flow rate.

■ Dosing of any additive as liquid or soluble in water

■ Multiple applications, one solution.

■ High accuracy dosing

EN



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Because life is powered by water®

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INDUSTRY LINE

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# INDUSTRY LINE

- **Non-electric dosing pump certified for surface industries and mining industries**
- **Installation in zone 0 or 20, zone 1 or 21 and zone 2 or 22**

In order to improve safety in professional workplaces, the European Union has set up goals for the Members States in regards to risks linked to explosive atmospheres (ATEX):

- **Directive ATEX 2014/34/UE & ATEX 2016/UK Regulation** "Manufacturer" directive concerning equipment and protective systems intended for use in potentially explosive atmospheres

- **Directive ATEX 1999/92/CE :** "User" directive concerning the health and safety protection of workers

Also, the United Nations has approved the **IECEx** as an internationally recognized certification system to promote the safety of equipment, services and personnel associated with devices, systems and installations used in potentially explosive areas. The certification is therefore valid worldwide.

**Dosatron "Industry Line" ATEX & IECEx certified (Manufacturer Directive) addresses dosing issues in those sensitive zones.**



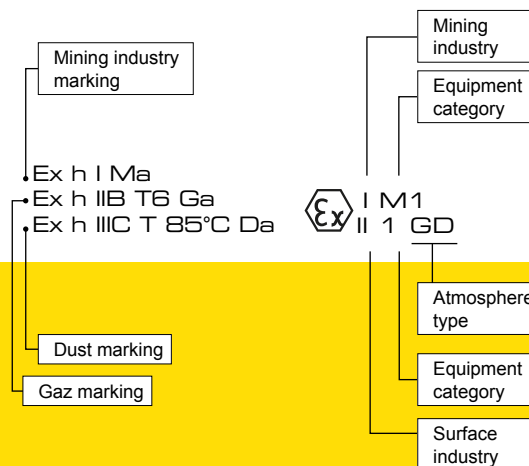
D3IL	Dosage		Operating flow range min. - max.		Operating pressure		Version		Certification	
	%	Ratio	(l/h)	[US Pint/min - US GPM]	bar	PSI	Serie	Option		
D3IL3000EX	0.03 - 0.3	[1:3000 - 1:333]	10 - 3 000	[1/3 - 14]	0.30 - 6	4.3 - 85	(VF) or (AF)	(K) B.P.	Ex h I Ma Ex h IIB T6 Ga Ex h IIIC T 85°C Da	Ex I M1 II 1GD
D3IL2EX	0.2 - 2	[1:500 - 1:50]	10 - 3 000	[1/3 - 14]	0.30 - 6	4.3 - 85	(VF) or (AF)	V (K) B.P.	Ex h I Ma Ex h IIB T6 Ga Ex h IIIC T 85°C Da	Ex I M1 II 1GD
D3IL5EX	0.5 - 5	[1:200 - 1:20]	10 - 3 000	[1/3 - 14]	0.30 - 6	4.3 - 85	(VF) or (AF)	V (K) B.P.	Ex h I Ma Ex h IIB T6 Ga Ex h IIIC T 85°C Da	Ex I M1 II 1GD
D3IL10EX	1 - 10	[1:100 - 1:10]	10 - 3 000	[1/3 - 14]	0.50 - 6	7 - 85	(VF) or (AF)	V (K) B.P.	Ex h I Ma Ex h IIB T6 Ga Ex h IIIC T 85°C Da	Ex I M1 II 1GD

D8IL	Dosage		Operating flow range min. - max.		Operating pressure		Version		Certification	
	%	Ratio	(l/h)	[US GPM]	bar	PSI	Serie	Option		
D8IL3000EX	0.03-0.125	[1:3000 - 1:800]	500 - 8 000	[2.2 - 40]	0.2 - 8	3 - 116	(VF) or (AF)	(K) B.P.	Ex h I Ma Ex h IIA T6 Ga Ex h IIIC T 85°C Da	Ex I M1 II 1GD
D8IL2EX	0.2 - 2	[1:500 - 1:50]	500 - 8 000	[2.2 - 40]	0.15 - 8	2 - 116	(VF) or (AF)	B.P.	Ex h I Ma Ex h IIA T6 Ga Ex h IIIC T 85°C Da	Ex I M1 II 1GD
D8IL5EX	1 - 5	[1:100 - 1:20]	500 - 8 000	[2.2 - 40]	0.15 - 8	2 - 116	(VF) or (AF)	B.P.	Ex h I Ma Ex h IIA T6 Ga Ex h IIIC T 85°C Da	Ex I M1 II 1GD

## Available options

- (AF) AF : for alkaline additives
- (VF) VF : for acidic additives
- (K) For highly concentrated acids (> 15 %)

- B.P. (Integrated by-pass) system for manual activation of the additive suction (on) and stop (off)
- V : kit for viscous additives recommended for more than 200 or 400 cPs (depending on model)



## ATEX & IECEx Certification

For more informations on the ATEX certification, scan the bar code

### Certification level of the D3IL product range

Ex h I Ma  
Ex h IIB T6 Ga  
Ex h IIIC T 85°C Da

Ex I M1  
II 1GD

This injector range can be operated in surface industries (II) or mining industries (I), and installed in ATEX zones rated zone 2 or 22, zone 1 or 21 or zone 0 or 20 (equipment category 1). It is suitable for explosive atmospheres caused by gases or dust (GD). The use of the D3 product range protects from the risks linked to all gases with a Minimum Ignition Energy greater than 70 µJ (IIB), and an Auto-Ignition Temperature from 85°C (T6 T85). In addition its use protects from risks linked to all dust size (IIIC).

### Certification level of the D8IL product range

Ex h I Ma  
Ex h IIA T6 Ga  
Ex h IIIC T 85°C Da

Ex I M1  
II 1GD

This injector range can be operated in surface industries (II) or mining industries (I), and installed in ATEX zones rated zone 2 or 22, zone 1 or 21 or zone 0 or 20 (equipment category 1). It is suitable for explosive atmospheres caused by gases or dust (GD). The use of the D8 product range protects from the risks linked to all gases with a Minimum Ignition Energy greater than 240 µJ (IIA), and an Auto-Ignition Temperature from 85°C (T6 T85). In addition its use protects from risks linked to all dust size (IIIC).