

PROCESS WATER



Dosing for
PROCESS WATER



DOSATRON®

Because life is powered by water®

Process water

The Dosatron solution

Process water is water used in industrial processes.

In most cases, producing process water requires treatment and dosing equipment to optimise the quality of the water. Dosatron's non-electric pumps can be easily integrated into these processes to optimise the proposed solution.

Dosatron's Water Line has been awarded the "Solar Impulse Efficient Solution" label, which recognises cost-effective solutions that help protect the environment.



- COOLING CIRCUIT TREATMENT
- POST-TREATMENT MEMBRANE
- DESCALING
- REUSE OF TREATED WATER
- DISINFECTION
- REMINERALISATION
- DEODORISATION
- CHLORINATION
- PRE-TREATMENT COAGULATION/
FLOCCULATION
- PH ADJUSTMENT

Configuration

Choosing the right dosing pump



1 • Flow

The minimum flow rate corresponds to the minimum operating flow rate of the dosing pump:

10 l/h means you can use a D3 dosing pump, 500 l/h means you can use D3 or D9, 1 m³ means you can use D3, D8 or D20 and 8 m³ means you can use D20 or D30.

Operating flow range:

This lies between the minimum and maximum motor flow rates.

It is important to take into account the number of operating hours.

Please refer to the model table.

2 • The minimum and maximum main line pressure

Do not exceed the operating pressure indicated on the dosing pump - install a pressure relief valve if necessary.

3 • The expected level of additive injection

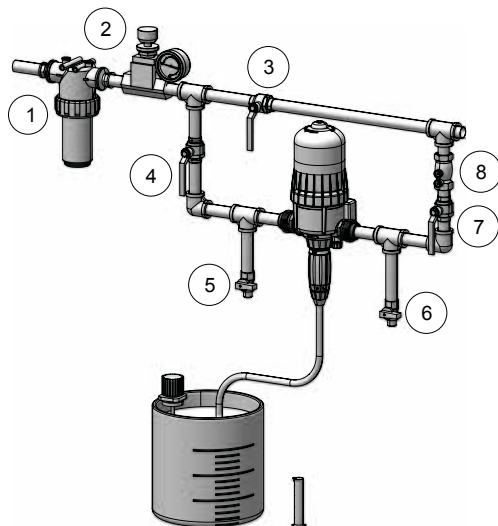
The injection percentage determines the amount of additive to be added. Commercial solutions sometimes need to be pre-diluted. Special feature: Dosatron pumps operate using the proportional volumetric dosing principle.

4 • Water hardness and calcium build-up

The External Injection (IE) option significantly reduces calcium build-up in the pump in hard water when chlorine is injected.

Please contact us if you would like to find out more about our pumps' limitations of use.

Full by-pass or partial by-pass installations



Item number	Description
1	Filter
2	Pressure reducer
3	By-pass valve (if the valve is closed, install a full by-pass system, if the valve is partially open, install a partial by-pass system)
4 - 7	Isolation valve
5	Clear water / stock solution valve
6	Fast priming / flushing / Dosatron test / sampling valve
8	Non-return valve

For information on the dimensioning factors for a partial by-pass installation, please contact us.

The models

Model	Operating flow range			Operating pressure			Injection rate			Injection flow rate		
		l/h	m³/h	gpm		bar	PSI	%	1:		l/h	gpm
D3WL3000IE	Min	10	0.01		Min	0.5	7.3	Min	0.03	1:3000	Min	0.003
	Max	3000	3	14	Max	6	85	Max	0.3	1:333	Max	9
D3WL3000	Min	10	0.01		Min	0.3	4.3	Min	0.03	1:3000	Min	0.003
	Max	3000	3	14	Max	6	85	Max	0.3	1:333	Max	9
D3WL2	Min	10	0.01		Min	0.3	4.3	Min	0.2	1:500	Min	0.02
	Max	3000	3	14	Max	6	85	Max	2	1:50	Max	60
D9WL3000IE	Min	500	0.5	2.2	Min	0.5	7.25	Min	0.03	1:3333	Min	0.15
	Max	9000	9	40	Max	8	116	Max	0.2	1:500	Max	18
D9WL3000	Min	500	0.5	2.2	Min	0.3	4.35	Min	0.03	1:3333	Min	0.15
	Max	9000	9	40	Max	8	116	Max	0.2	1:500	Max	18
D9WL2	Min	500	0.5	2.2	Min	0.3	4.35	Min	0.2	1:500	Min	1
	Max	9000	9	40	Max	8	116	Max	2	1:50	Max	180
D9WL5	Min	500	0.5	2.2	Min	0.5	7.2	Min	1	1:100	Min	5
	Max	9000	9	40	Max	8	116	Max	5	1:20	Max	450
D20WL2	Min	1000	1	5	Min	0.12	2	Min	0.2	500	Min	2
	Max	20000	20	100	Max	10	120	Max	2	50	Max	400
D30WL30000IE	Min	8000	8	35	Min	0.5	7	Min	0.003	1:30000	Min	0.24
	Max	30000	30	132	Max	6	87	Max	0.03	1:3000	Max	9
D30WL30000	Min	8000	8	35	Min	0.5	7	Min	0.003	1:30000	Min	0.24
	Max	30000	30	132	Max	8	116	Max	0.03	1:3000	Max	9
D30WL5000	Min	8000	8	35	Min	0.5	7	Min	0.02	1:5000	Min	1.6
	Max	30000	30	132	Max	8	116	Max	0.2	1:500	Max	60
PU1 D25WL2IEPO	Min	10	0.01	0.33	Min	0.3	4.3	Min	0.2	1:5000	Min	0.02
	Max	2500	2.5	11	Max	6	85	Max	2	1:50	Max	50

The amount of additive injected is proportional to the amount of water that passes through the dosing pump. A setting of 1% will give a solution of 1 part additive to 100 parts water. Please use the calculation tool available in the Dosatron app.

Options : A wide range of dosing pumps and an equally wide choice of options (high flow rates, microdosing, high chemical resistance materials, etc.) enable us to meet your needs.



Seals for oils, acid additives, deodorants, plant protection products, etc.



Seals for alkaline additives



Seals for highly concentrated acids (>15%)
PVDF - we recommend a PVDF body for concentrations above 15%



Suction start (on)/stop (off) system



Special housing for highly concentrated acids

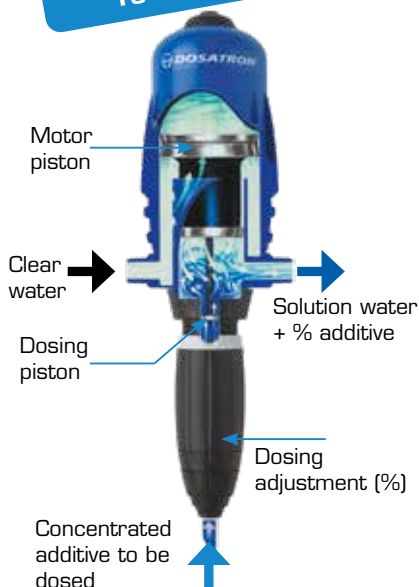


Viscous additive kit, recommended for viscosities above 400 cPs



External Injection

DOSATRON
Technology



THE ADVANTAGES OF DOSATRON

Operates without electricity

Not affected by pressure variations

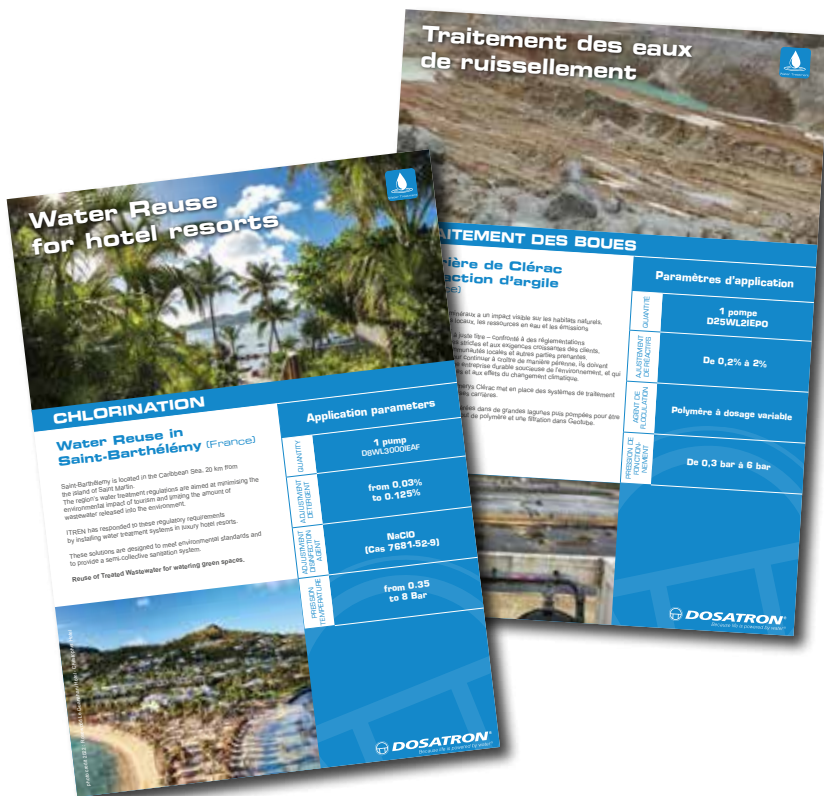
Proportional dosing

Easy to install and operate

Model		VF	AF	K	RO	Bleed valve	BP	IE	Intelligent flow divider	Connection flange	Feet	Mixer D MIX	ACS	NSF
D25WL2IEPO	As standard	x				x		x						
	Optional				x		x					x		
PU1	As standard	x				x		x				x		
D25WL2IEPO	Optional				x		x							
D3WL3000IE	As standard		x			x		x						
	Optional						x						x	x
D3WL3000	As standard	x	x			x								
	Optional			x	x		x	x					x	x
D3WL2	As standard	x	x			x								
	Optional			x	x		x						x	x
D9WL3000IE	As standard		x			x		x						
	Optional						x				x		x ⁽¹⁾	x ⁽¹⁾
D9WL3000	As standard	x	x	x		x								
	Optional						x	x			x		x ⁽¹⁾	x ⁽¹⁾
D9WL2	As standard	x	x			x								
	Optional						x						x ⁽¹⁾	x ⁽¹⁾
D9WL5	As standard	x				x								
	Optional						x				x			
D20WL2	As standard		x				x				x			
	Optional													
D30WL30000IE	As standard		x			x		x	x	x				
	Optional	x					x						x	
D30WL30000	As standard		x			x			x	x				
	Optional	x		x			x	x					x	
D30WL5000	As standard		x			x			x	x				
	Optional	x		x			x						x	

⁽¹⁾Please contact us

Case studies



Installation recommendations

- Ask the polymer manufacturer to carry out a decantation test to determine its effectiveness and dosing rate.
- You must comply with the standards and regulations in force in the country of installation.
- Install a 300 micron [50 mesh] filter upstream of the dosing pump.
- The level in the dosing product container must never be higher than the dosing pump (risk of siphoning).

DOSATRON INTERNATIONAL S.A.S

Rue Pascal - BP 6 - 33370 TRESSSES (Bordeaux) - FRANCE
 Tel. 33 (0)5 57 97 11 11 - Fax. 33 (0)5 57 97 11 29 / 33 (0)5 57 97 10 85
 info@dosatron.com - www.dosatron.com

