



Configuration

Choosing the right dosing pump

1 • Filling the drinking water storage tank

Your tank can be fed by gravity or by a solar or non-solar motorised pump unit. The buffer tank volume ensures the required contact time for disinfection (30-45 minutes).

Tip: If a 25 litre container fills up in one minute, the requirement is 1,500 l/h.

The minimum flow rate corresponds to the minimum operating flow rate of the dosing pump: 10l/h means you can use a D3 dosing pump, 500l/h means you can use D3 or D8, 1m³ means you can use D3, D8, D20 and 8m³ means you can use D20 or D30

The design flow rate:

This lies between the minimum motor flow rate and the maximum motor flow rate.

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 chlorination

Chlorination should be adapted to the nature of the water and its chlorine consumption.

The injection percentage determines the amount of chlorine added. Commercial solutions must be pre-diluted.

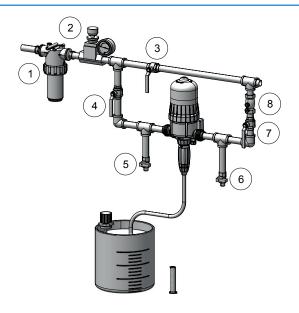
Special feature: Dosatron pumps operate using the proportional volumetric dosing principle.

4 • Hardness and calcium build-up

The External Injection (IE) option significantly reduces calcium deposits in the pump when used in hard water.

Please contact us to discuss its limitations of use

Full by-pass and 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 valves
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 bypass installation, please contact us.

The models

Model	Operating flow range				Operating pressure			Injection range			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	0.04
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	0.04
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	0.28
D8WL3000IE	Min.	500	0.5		Min.	0.35	5.1	Min.	0.03	1:3000	Min.	0.003	
	Max.	8000	8	40	Max.	8	110	Max.	0.125	1:800	Max.	9	0.04
D8WL3000	Min.	500	0.5		Min.	0.15	2.2	Min.	0.03	1:3000	Min.	0.15	
	Max.	8000	8	40	Max.	8	110	Max.	0.125	1:800	Max.	24	0.1056
D8WI 2	Min.	500	0.5		Min.	0.15	2.2	Min.	0.2	1:500	Min.	1	
	Max.	8000	8	40	Max.	8	110	Max.	2	1:50	Max.	126	0.7
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	1.75
D30WL30000IE	Min.	8000	8	35	Min.	0.5	7	Min.	0.003	1:30000	Min.	0.24	0.001
	Max.	30000	30	132	Max.	6	87	Max.	0.03	1:3000	Max.	9	0.04
D30WL30000	Min.	8000	8	35	Min.	0.5	7	Min.	0.003	1:30000	Min.	0.24	0.001
	Max.	30000	30	132	Max.	8	116	Max.	0.03	1:3000	Max.	9	0.04
D2014/1 5000	Min.	8000	8	35	Min.	0.5	7	Min.	0.02	1:5000	Min.	1.6	0.007
D30WL5000	Max.	30000	30	132	Max.	8	116	Max.	0.2	1:500	Max.	60	0.26

The quantity of additive injected is proportional to the quantity of water passing through the dosing pump. A 1% setting gives a solution of 1 parts 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, micro-dosing, high chemical resistance materials, etc.) enable us to meet your needs. Seals for acids, oils, odour-(VF) control concentrates... Seals for alkaline concentrates Seals for highly concentrated acids (> 15 %) PVDF - we recommend a PVDF body for concentrations System for starting (on) B.P and stopping (off) the suction PVDF housing for highly concentrated acids Viscous additive kit, recommended for viscosities above 400 cPs (IE) External Injection



ADVANTAGES OF DOSATRON

Operates without electricity

Unaffected by pressure variations

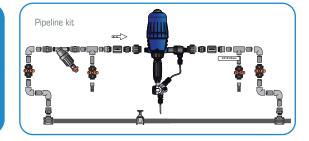
Proportional dosing

Easy to install and operate

Model		VF	(AF)	K	S.	Bleed	BP	Œ	Intelligent flow divider	Connection flange	Feet	ACS ACS	NSE Continuo N MINISTER SEZ
D3WL3000IE -	Standard		Х			Х		Х					
	Optional						Х					X	X
D3WL3000	Standard	Х	Х			Х							
	Optional			Х	Х		Х	Х				X	Х
D3WL2	Standard	Х	Х			Х							
DSVVLZ	Optional			Х	Х		Х					Х	Х
D8WL3000IE	Standard		Х			Х		Х					
	Optional						Х				Х	Х	Х
D014/I 0000	Standard	Х	Х			Х							
D8WL3000	Optional			Х			Х	Х			Х	Х	Х
D8WL2	Standard	Х	Х			Х							
DOVVLZ	Optional						Х				Х	Х	Х
D00M/I 0	Standard		Х				Х				Х		
D20WL2	Optional												
D30WL30000IE	Standard		Х			Х		Х	Х	Х			
	Optional	Х					Х					Х	
D30WL30000	Standard		Х			Х			Х	Х			
	Optional	Х		Х			Х	Х				Х	
D30WL5000	Standard		Х			Х			Х	Х			
	Optional	Х		Х			Х					Х	

ACCESSORIES

- Filters
- Pipeline kit
- Stock solution preparation tank
- Pressure Reducer



Case studies



Installation recommendations

- You must comply with the standards and regulations in force in the country of installation.
- ACS, NSF or other certifications may be required.
- 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).
- Ensure sufficient chlorine contact time and check that the expected active chlorine level is achieved.

DOSATRON INTERNATIONAL S.A.S





