



DI 150

Non electric proportional liquid dispenser

Technical Point

■ Injected solution

with minimum flow : 0.1 l/h [3.38 fl.oz /h]
with maximum flow : 125 l/h [33 us Gal. /h]

■ Maximum suction height :

4 m [13 ft]

■ Head loss at maximum flow rate, at average pressure :

1.5 bar [21 PSI]

■ Maximum Operating Temperature :

40° C [104° F]

■ Built-in homogenizer

■ 1 built-in motor protection filter :

350 microns [50 mesh]

■ 1 complete suction pipe :

Length 120 cm [47"]

Inner/External Diam. 12 X 16 mm

with bottom valve strainer and stainless steel ballast

■ 1 wall support

■ Overall size :

Diam. 11 X L 16 X H 51 cm

[4 1/8" X 6 1/4" X 20 1/5"]

■ Materials :

Body and bell : delrin

Dosing stem : polypropylene, polyéthylène

Piston : polyurethane, nylon, nitrile, delrin

■ Package composition :

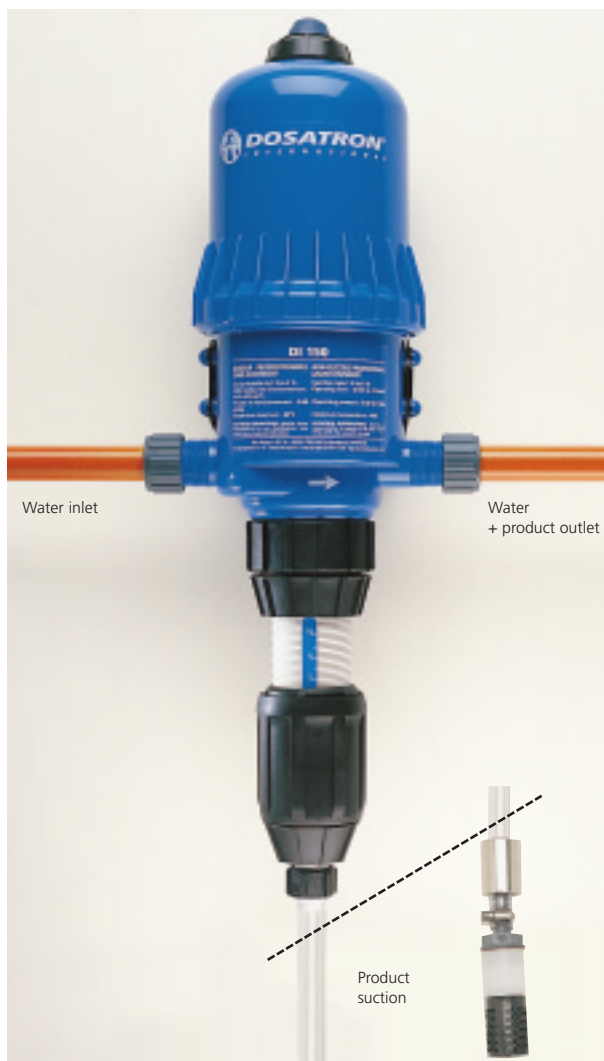
1 liquid dispenser, 1 complete suction pipe, 1 wall support, 1 owner's manual

■ Package size :

52 X 15.5 X 19 cm

[20 1/2" X 6 1/8" X 7 1/2"]

■ Package weight : 2.820 kg [~6.2 lb]



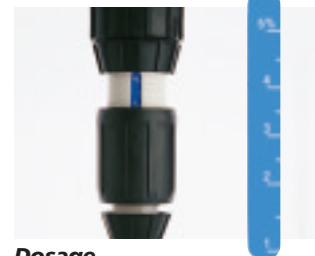
Water direction

Connect the liquid dispenser to the installation complying with the direction of water (**only power source**) indicated by the arrows on the pump body.

N.B. The connectors are not supplied

Inlet / outlet connection :

3/4" BSP-NPT Diam. 19 mm



Dosage

The dosage is **externally adjustable**. The injection rate can vary at your convenience. (Lift the sleeve so as to engage the adjustment system. Turn the adjustable adapter so as to bring **the top of the latter into line with the desired injection rate**).

The dosage of the injected product is **always proportional** to the water volume of the network, whatever the flow or pressure variations may be.

3 choice criteria of the Liquid Dispenser

The choice of liquid dispenser depends, according to the application, on the water flow rates and pressures, product concentrations used and the installation structure.

Operating practical Flow rate :

- from 10 l/h to 2.5 m³/h
- [from 0.16 l/mn to 41.66 l/mn]
- [from 2.64 us Gal. /h to 660 us Gal. /h]

Operating Pressure :

- from 0.3 bar to 6 bar
- [from 4.3 PSI to 85 PSI]

Adjustable Dosage :

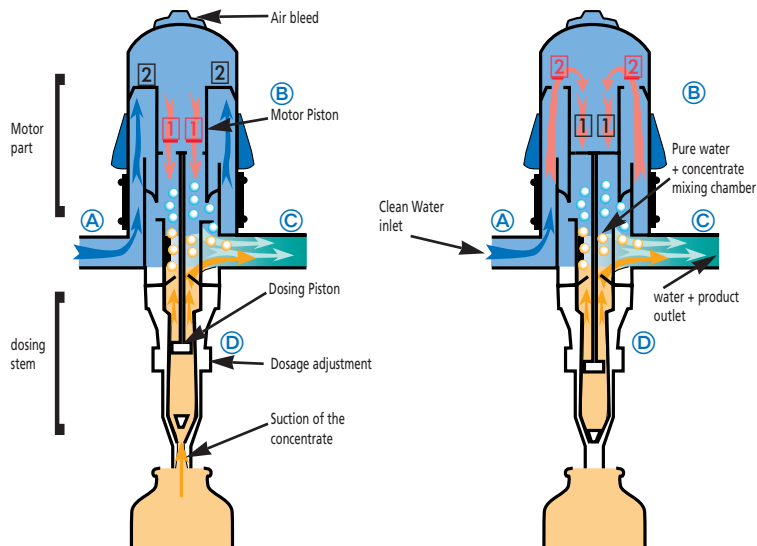
- from 1 % to 5 %
- [1:100 to 1:20]



DOSATRON®
I N T E R N A T I O N A L

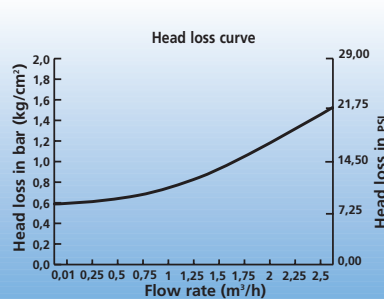
Non electric liquid dispenser operation

Even in small quantity, the water flows through the unit, activates the motor piston driving the dosing piston, which sucks the product and drives back in the main line.



Phase 1 : The water inlet (A) pushes the piston (B) and forces the mixture downstream in (C). At the same time, the dosing piston (D) sucks the product and injects it in the mixing chamber. At the end of the higher travel the inlet valves (2) open, exhaust valves (1) close.

Phase 2 : The piston (B) lowers and part of the solution is injected in the mixing chamber. At the end of the lower travel the exhaust valves (1) open, and the inlet valves (2) close and the cycle starts again.



REMINDER	
1 bar	= 14,5 PSI
1 us Gal.	= 3,785 liters
1 inch	= 0,0254 meter
1 fl. oz (fluid ounce)	= 29,57 ml
1 lb (pound)	= 453,592 g
temperature	= C°X1,8+32=F
1 g / l	= 0.1% if D=1
1 l	= 1000 cc
1 ppm	= 1g/m³
1 m of water height	= 0,1 bar = 100 g/cm²

Dosage - International measures conversion

%	RATIO	Fl. Oz/U.S.Gal	P.P.M.
0.20	1:500	0.25	2 000
0.50	1:200	0.60	5 000
0.80	1:128	1.00	8 000
1.00	1:100	1.25	10 000
1.60	1:64	2.00	16 000
2.00	1:50	2.50	20 000
3.00	1:33	3.75	30 000
3.30	1:30	4.16	33 000
4.00	1:25	5.00	40 000
5.00	1:20	6.25	50 000
8.33	1:12	10.40	83 333
10.00	1:10	12.50	100 000

**WE HAVE OTHER MODELS
TO COVER ALL
THE NEEDS,
CONSULT US!**

DOSATRON INTERNATIONAL Range of Products

REF	WATER FLOW	PRESSURE	DOSAGE
DI 16	10 l to 2.5 m³/h	0.30 bar to 6 bar	0.2% to 1.6%
DI 150	10 l to 2.5 m³/h	0.30 bar to 6 bar	1% to 5%
DI 210	10 l to 2.5 m³/h	0.50 bar to 4 bar	2% to 10%
D 8 R	500 l to 8 m³/h	0.15 bar to 8 bar	0.2% to 2%
D 8 R 150	500 l to 8 m³/h	0.15 bar to 8 bar	1% to 5%
D 20 S	1 to 20 m³/h	0.12 bar to 10 bar	0.2% to 2%
D 30 S turbo	5 to 30 m³/h	1 bar to 8 bar	0.25% to 1.25%
D 60 S bi-turbo	10 to 60 m³/h	0.5 bar to 8 bar	0.1% to 0.65%

Hi-clean systems equipped with : **DI 16, DI 150, DI 210**

KPH — weedkilling kit equipped with : **DI 16, DI 150**

DI 150

Non-electric proportional liquid dispenser

OPTIONS

OPTIONS ENABLE TO BETTER ADAPT THE DISPENSER TO THE NEEDS. THEIR USEFULNESS WILL BE DETERMINED WITH THE HELP OF OUR TECHNICAL DEPARTMENTS.

Suction pipe

- Specific for particular products (silicone pipe, flat strainer...).
- Viscous kit (20x27 mm hose and Rilsan coated ballast and strainer).

Specific seals (VT, VF, AF)

For PH Acid PH use VF seals.

For PH Basic PH use AF seals.

By-pass

Product suction starting system (on) and stop (off).



By pass

PVDF

The liquid dispensers can be equipped with PVDF body and bell for dosing aggressive products.

PVDF

Motors

according to your application specifications.



Strap

to hold the unit on the wall support.

Accessories :

See Accessories sheet.

Other options exist, consult us !



Advantages

Proportional.

Externally adjustable dosage.

Excellent legibility of the graduations on the dosing scale.

Dosage accuracy from 1 to 5 %.

Low pressure and flow rate operation.

Mixture injected at the outlet.

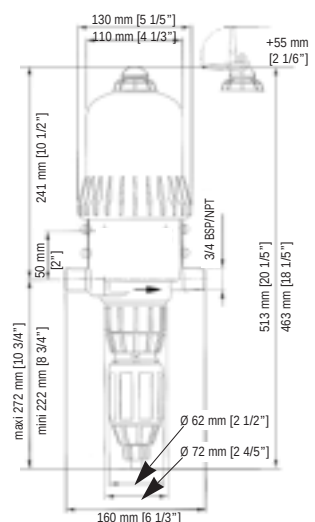
Self-priming up to 4 meters.

**PATENTED PRODUCTS
ALL OUR LIQUID DISPENSERS ARE TESTED
AND HAVE ONE YEAR WARRANTY**

Advices for use to be complied with for correct operation and long lasting of liquid dispensers

- Change the dosing seals once a year
- In case of aggressive products, don't put the product directly under the liquid dispenser (corrosive steam),
- Do not adjust the dosage under pressure,
- Rinse as frequently as possible to avoid equipment crystallization and corrosion,
- Put a 60 to 300 microns filter upstream the liquid dispenser according to the quality of the water and to your application,
- Using the material without product doesn't damage it,
- Install protections to avoid, over-flow, over-pressure and water-hammers.

Overall size



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