

Technical Point

■ Injected solution

with minimum flow: 2 l/h [67.6 fl.oz /h] with maximum flow: 400 l/h [105 us Gal. /h]

■ Maximum suction height :

4 m [13 ft]

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

0.43 bar [6.14 PSI]

■ Maximum Operating Temperature : $40^{\circ} C$ [$104^{\circ} F$]

■ Built-in homogenizer

- 1 protective filter at water inlet
- 1 complete suction pipe :

Length 180 cm [71"] Inner/External Diam. 20 X 27 mm [7/8" id X 1 1/16" od] with strainer

- Manual by pass
- Vacuum breaker valve
- 1 handle and 4 legs

Overall size :

140 X 38 cm [55 1/8" X 15"]

■ Materials:

Body and bell: polypropylene, PVC, alu **Dosing stem**: polypropylene,

polyethylene, PVC

■ Package composition:

1 liquid dispenser, 1 complete suction pipe, 1 handle and 4 legs, 1 owner's manual, 1 vacuum breaker valve

■ Package size: 100 X 43 X 34 cm

[40" X 17" X 14"]

■ **Package weight:** 23 kg [50.7 lb]

D 20 S

Non-electric proportional liquid dispenser





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 supplied – inlet / outlet connection: 2" Ø 63 mm





Dosage

The dosage is **externally** adjustable. The injection rate can vary at your convenience. (Partially unscrew the black nut. Turn the dosing stem Put the chosen rate on the black mark of the transparent ring).

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 :	Operating Pressure :	Adjustable Dosage :
 from 1 m³/h to 20 m³/h [from 16.66 l/mn to 333.3 l/mn] [from 264 us Gal. /h to 5284 us Gal. /h] 	■ from 0.12 bar to 10 bar● [from 1.74 PSI to 145 PSI]	■ from 0.2 % to 2 % • [1:500 to 1:50]



Motor Piston Pure water + concentrate mixinghamber inlet Suction of the concentrate

Phase 1: The water inlet (a) pushes the piston (b) and forces the mixture downstream in (c). At the same time, the dosing piston (c) 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			
11	= 1000 cc			
1 ppm	= 1g/m ³			
1 m of				
water height	= 0,1 bar = 100 g/cm ²			

D 20 S

Non-electric proportional liquid dispenser

O P T I O N S

Options enable to better adapt the dispenser to the needs. Their usefulness will be determined with the help of our technical departments.

Adaptors





Special sleeve for vehicle mounted units

Accessories :

See Accessories sheet.

Other options exist, consult us!

Advantages

Proportional.

Large range of dosage.

Externally adjustable dosage.

Low pressure and flow rate operation.

Mixture injected at the outlet.

Vacuum breaker valve.

Self-priming up to 4 meters.

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

Dosage - International measures conversion

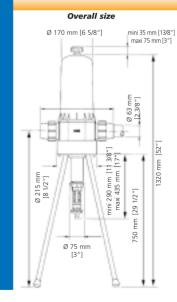
%	RATIO	FI. Oz/U.S.Gal	P.P.M.
0.20	1:500	0.25	2 000
0.50	1:200	0.60	5 000
0.80	1:128	1.00	8 000
1.00	1:100	1.25	10 000
1.50	1:67	1.92	15 000
1.60	1:64	2.00	16 000
2.00	1:50	2.50	20 000
3.00	1:33	3.75	30 000
3.30	1:30	4.16	33 000
4.00	1:25	5.00	40 000
5.00	1:20	6.25	50 000
8.33	1:12	10.40	83 333
10.00	1:10	12.50	100 000

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

DOSA1	RON INTERNATI	ONAL Range of Pi	roducts		
REF	WATER FLOW	PRESSURE	DOSAGE		
DI 16	10 l to 2.5 m ³ /h	0.30 bar to 6 bar	0.2% to 1.6%		
DI 150	10 l to 2.5 m ³ /h	0.30 bar to 6 bar	1% to 5%		
DI 210	10 l to 2.5 m ³ /h	0.50 bar to 4 bar	2% to 10%		
D 8 R	500 l to 8 m ³ /h	0.15 bar to 8 bar	0.2% to 2%		
D 8 R 150	500 l to 8 m ³ /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	8 to 30 m ³ /h	1 bar to 8 bar	0.25% to 1.25%		
D 60 S bi-turbo	10 to 60 m ³ /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					

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.
- Comply with flow range indicated on the front page.





TOWAL

DOSA TRON INTERNA

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