

# WL-DOSP 5 - 6 - 7

## Water-line, Polyphosphate doser powder



### DESCRIPTION:

**Proportional dosing systems with polyphosphate powder.** Limescale and anti-corrosion treatment of water with neutral pH and drinking water for domestic and industrial installations.

WL-DOSP 5 – 6 – 7 proportional hydrodynamic dosing systems protect new systems and their distribution circuits from limescale and corrosion, by dosing in the water a special formulation (POLIFOS POLVERE) salt; for older or long-running systems, the WL-DOSP 5 - 6 - 7 dosing systems provide for effective rehabilitation, progressively reducing scale deposits and corrosion phenomena already in progress. WL-DOSP 5 – 6 – 7 dosing systems the POLIFOS POLVERE polyphosphate powder is formulated proportionally to the actual consumption of water, formulated for the treatment of drinking water.

The appliances are equipped with an elastic bellows which progressively follows the reduction of the level of the product contained in the glass; the head allows to measure, by Venturi effect, precise quantities of product, through a calibrated nozzle of particular construction, progressively solubilizing the product contained in the glass.

In this way the doser works proportionally to the consumption of water, in the sense that it "adapts" the quantity of product dosed according to the amount of water actually consumed; therefore, if the flow of water is interrupted, the dosage is automatically and immediately interrupted, in order to avoid overdosing.

### Domestic use:

Protection of pipes, boilers and other installations for applications with use of drinking water.

### Technical use:

Protection of pipes, fittings, boilers, and other thermal systems of water.



**Maintenance:**

- If the polyphosphate charge is not consumed, the suction nozzle may be clogged and therefore it must be cleaned. Close the shut-off valves and loosen the vent screw, unscrew the glass using the special wrench (supplied as standard), unscrew the nozzle placed inside the head, extract it with a small clamp and clean the hole with a fine needle with a diameter of 0.2 mm. Once the nozzle has been cleaned (only with a cloth damped with alcohol or detergents), screw it back into its head, screw the glass taking care to correctly position the bellows, slowly open the shut-off cocks to allow a slow contact of water with the product; when the glass is full of water and this starts to escape from the vent screw, close it. Run water for two minutes and then open the vent screw again to release any air present. At this point the dispenser is ready to work.
- If the polyphosphate charge is consumed too quickly (on average for a family of 4 people it should last about 4 - 6 months) replace the delivery nozzle D. 1.5 mm with the supplied one D. 0.3 mm.

Two- three times a year remove the bellows and wash it well under running water.

**ASSEMBLY AND INSTALLATION:**

Before installation, check that the hydraulic system is carried out according to the rules of the art. In particular:

- If the pressure exceeds the operating limits, protect the dosing system with a pressure reducer.
- Protect from water hammer with an anti-water hammer system.
- In order to avoid blockage of the dosing nozzle, it is advisable to protect the appliance with a suitable filter installed upstream of the system.

**Installation:**

The installation must be carried out by qualified personnel in a covered and dry environment. In addition, the dispenser must be protected from frost, bad weather and direct or indirect exposure to light and heat sources. Verify that the line pressure is sufficient for operation. There must be no water hammering and strong and / or frequent fluctuations in pressure, in order to avoid damage or breakage. Leave at least 25 cm of free space on the 4 sides to allow correct maintenance and to facilitate the product loading operations.

- Close the inlet valve of the circuit
- Install between the boiler or the water heater, if these are not provided, and the metering device, a non-return valve.
- Unscrew the fitting from the head and insert it into the supply pipe, orienting it according to your needs (horizontal, vertical) observing the direction of the arrow printed on the fitting itself.
- Reconnect the head to the fitting making sure that the o-rings are in the correct position

**Put in action:**

After installation and before proceeding with the loading of the POLIFOS POLVERE product, perform a hydraulic check of the dispenser, making sure that there are no leaks or leaks.

- Open the vent screw and then the inlet valve, keeping the outlet valve closed.
- Close the vent screw as soon as it draws water, and check the hydraulic seal under pressure.
- Open the outlet valve and run water for two minutes by opening a tap to the user.

**Make sure that:**

- The dispenser is equipped with a system, manual or automatic, that allows the delivery of untreated water, interrupting the delivery of the treated one (by-pass).
- The hydraulic system realized for the installation of the equipment, connected to the water supply network, is equipped with a system able to ensure the non-return of the treated water in the network and of withdrawal points for the analysis before and after the applied treatment.



### OPERATING CONDITIONS:

Maximum pressure	8 Bar
Min / Max water temperature	4 °C ÷ 45 °C
Maximum water hardness	35 °f (350 ppm CaCo3)

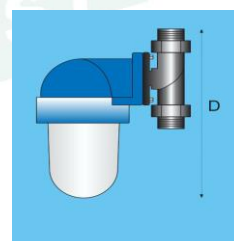
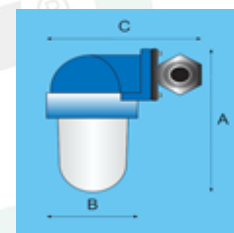
**N.B. :** The treated water can be heated up to 75 ÷ 80 ° C, beyond this temperature the polyphosphate gradually loses its effectiveness.

### FEATURES:

Non-toxic materials	
Head	Reinforced polypropylene
Glass	PET
O-ring	EPDM
Vent valve	Stainless steel
Bellows	Natural Rubber (NBR)
Treatment material	Sodium polyphosphate powder
Adjustable attachment group:	

- Brass CW 617 N: WL-DOSP 5 (3/4") e WL-DOSP 6 (1")
- Reinforced nylon: WL-DOSP 7 (3/4" + 1")

Proportional doser	Threads IN/OUT	mm				Optimal flow l/h	Polyphosphate charge g	Type of Polyphosphate charge
		A	B	C	D			
WL-DOSP 5	3/4"	208	110	174	256	3000	250	powder
WL-DOSP 6	1"	208	110	174	256	4000	250	powder
WL-DOSP 7	3/4" + 1"	208	110	174	256	4000	250	powder



### INCLUDED IN THE PACKAGING:

- Key
- Polyphosphate tin of 0.5 Kg powder



The reinforced nylon group is made of high mechanical strength material, result of the most advanced research and development of innovative materials and production processes.

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