

PROPORTIONAL POLYPHOSPHATE FEEDER

Use

Poli **te-sa** is a proportional food polyphosphate feeder. Its main task is to reduce and contrast phenomena of limestone encrustations and corrosion that occur in hydraulic systems. These phenomena are caused by calcium and magnesium ions present in the water and so the polyphosphates, capable of binding to them, create a particular chemical compound that cannot adhere to the surfaces of the pipes. The result is a kind of shielding within the ducts, which does not allow the formation of limestone deposits.

The proportional polyphosphates feeder Poli **te-sa** therefore becomes an integral part of the system because, in addition to being able to perform anti-limestone and anti-corrosion functions, it is also able, within certain limits, to eliminate pre-existing deposits, progressively restoring previously encrusted systems.

The small dimensions and the extremely low maintenance costs allow Poli **te-sa** to be installed wherever it is needed: upstream of water systems, boilers, heat exchangers, washing machines and dishwashers.



Characteristics

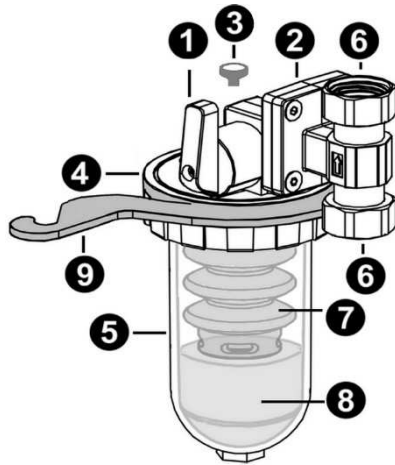
The cartridge of the powdered food polyphosphate of Poli **te-sa** is contained in a containment vase connected via two openings (Venturi system) to the water pipes. Their correct sizing allows the dosage of the polyphosphates in proportion way in relation to the water flow. When the water supply is interrupted, the dosage stops accordingly.

On the body, there is an by-pass valve, capable of interrupting in the passage of the water in the feeder, so as to allow the recharge of the polyphosphates in a practical and safe way, without having to close the general line. Poli **te-sa** also is equipped with a particular 90° trigger-raced attack, which allows its installation both on vertical and horizontal pipelines. Two convenient 1/2" swivel with flat seat connections facilitate the assembly on the hydraulic system. The manual air vent valve is very useful and practical, both during the first installation and in normal maintenance operations.

The polyphosphate cartridge within Poli **te-sa**, lasts about 6 months, consider medium values of both pro-prosecutors of water and its characteristics. (hardness, temperature and pH). However, the charging status is easily verifiable through the transparent container from which it is possible to check the level of the cartridge.

Technical Data

- Maximum operating pressure 8 bar
- Range of operating temperature 0 ÷ 45° C
- Suggested maximum water hardness 35° f
- Charging autonomy 20 m³
- Flow capacity KV = 3,4
- Forged components made of brass alloy UNI-EN 12165:16 CW617N
- Machined from rod components made of brass alloy UNI-EN 12164:16 CW614N
- Female connections G 1/2" – DN15 with swivel nut and flat seat.
- Maximum flow rate 1,5 m³/h
- By-pass faucet with double O-ring seal
- Manual air vent valve with O-ring seal
- Possibility of changing the polyphosphates cartridge also during operating system
- It can be easily disassembled in order to cleaning the internal components
- Possibility of assembling on boilers with horizontal connection or with vertical connection
- Transparent container that allows to verify the remaining quantity of polyphosphates



- 1 By-pass faucet
- 2 Main body
- 3 Manual air vent
- 4 Seal ring
- 5 Container
- 6 Swivel nuts
- 7 Suction bellows
- 8 Polyphosphate cartridge
- 9 Tightening key

Dimensions

