# DSPN Series

Compact magnetic dirt separator

## Technical Data Sheet




WattsWater.eu

# Description

The compact magnetic dirt separator ensures that the boiler stays continually protected, as it retains all impurities present in the system and prevents their circulation, consequently avoiding wear and preventing damage to other components of the system (e.g. pumps and heat exchangers).



## DSPN - Threaded magnetic dirt separator

The **DSPN Series** magnetic dirt separator is installed on the return circuit, at the inlet to the boiler. It is intended exclusively for use in domestic heating systems and is easy to install under the boiler because of its compact size. The magnet is easily removable for cleaning.
Connections: main body G 3/4", drain G 1/2". Complete with ball valve and swivel fitting made of brass. Compatible fluids: water, water + glycol 70/30.

| Part No. | DN | PN | Weight (g) |
|---|---|---|---|
| DSP034WN | 3/4" | 3 bar | 570 |

| Technical features | |
|---|---|
| Body | PA66 |
| Filter cartridge | AISI304L |
| Ball valves | CV617N |
| Filtration rating | 500µm |
| PN | 3 bar |
| Max. temperature | 90°C |
| Operating temperature | 4 to 90°C |
| Magnet | NdFeB - 4500 Gauss |
| Water with glycol | 70/30 |
| Kvs | 2,8 m3/h |

# Application

Magnetic dirt separators must be used in heating systems to ensure long-term efficient boiler operation and to prevent the adverse effects caused by residues of soil, limescale, sand and ferrous metals found in both new and older systems. The flow of water enters the dirt separator, where the cyclonic motion separates the dirt particles, because they are heavier, while the magnet traps the majority of metallic debris. The magnet is always installed, positioned and protected in such a way that it does not come into contact with the water. Both metallic and soil residues are then expelled through the drain valve, once the permanent magnet not in direct contact with the liquid is switched off.

# Installation

Install the dirt separator on the return leg of the heating circuit, upstream of the boiler, to protect the boiler against debris in the pipework, especially when the system is first started up.

The **DSPN Series** dirt separator can be installed in different mounting positions:

- horizontal installation with cap facing forwards, where there is limited space beneath the boiler (e.g. boiler installed in a wall-mounted kitchen unit) (**Fig.1**)

- vertical installation with cap facing downwards, where there is more space available (**Fig.2**).

To achieve these installation configurations, simply invert the position of the boiler connection swivel fitting with the ball valve and turn the separator by 90°.
The connections on the main body and drain valve have a G 3/4" and G 1/2" thread respectively.

## Installation diagrams

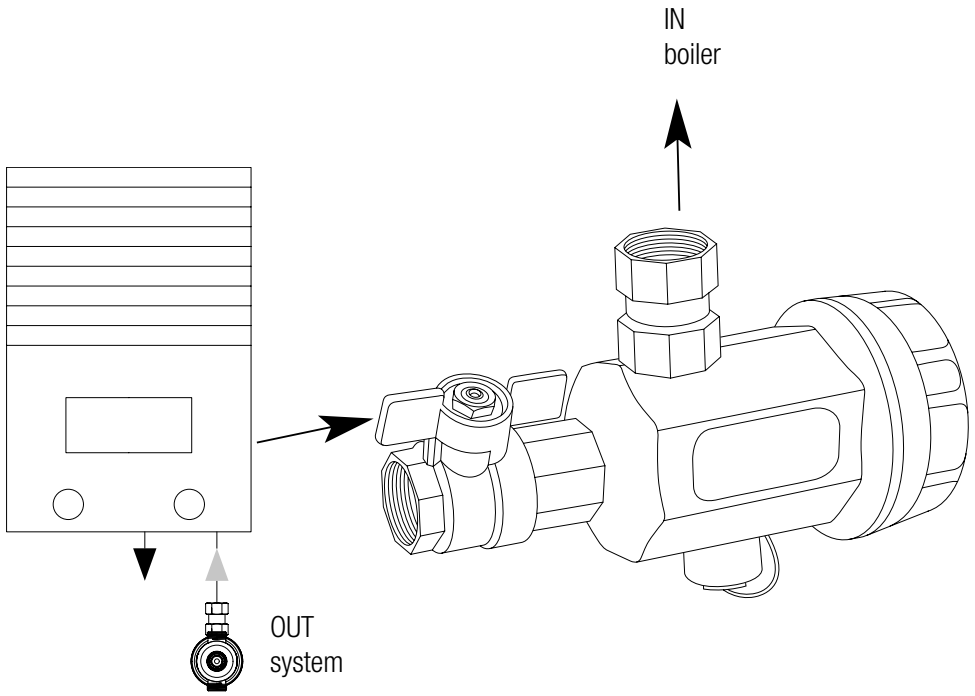



**Fig. 1**

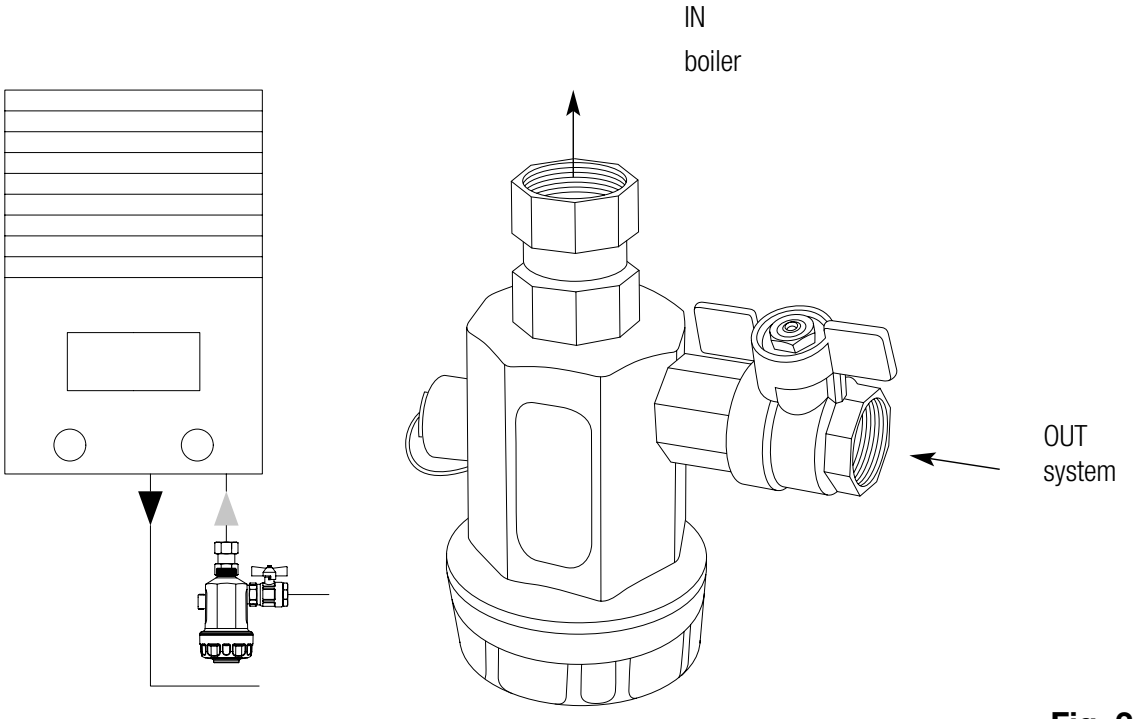
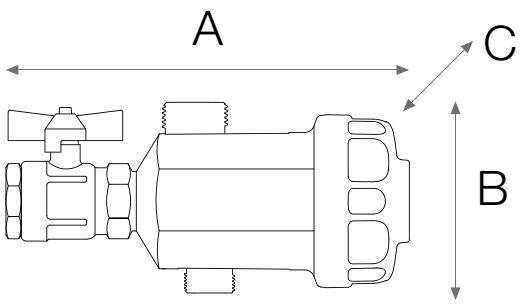



**Fig. 2**

## Overall dimensions (mm)




| DN | A | B | C |
|---|---|---|---|
| 3/4” | 155 | 75 | 60 |

## Specification text

***DSPN Series***

Compact dirt separator with magnet **DSPN Series** – WATTS brand. Connections: main body G 3/4”, drain G 1/2”. Complete with ball valve and swivel fitting made of brass. The magnet is easily removable for cleaning. Compatible fluids: water, water + glycol 70/30. PA66 brass body. Maximum pressure: 3 bar at 90°C. Operating temperature range: 4-90°C. Filtration rating: 650 µm.

The descriptions and photographs contained in this product specification sheet are supplied by way of information only and are not binding.
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