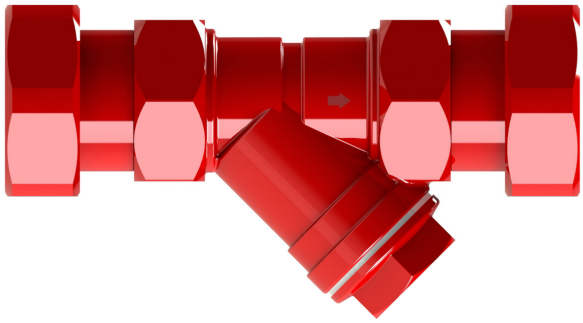
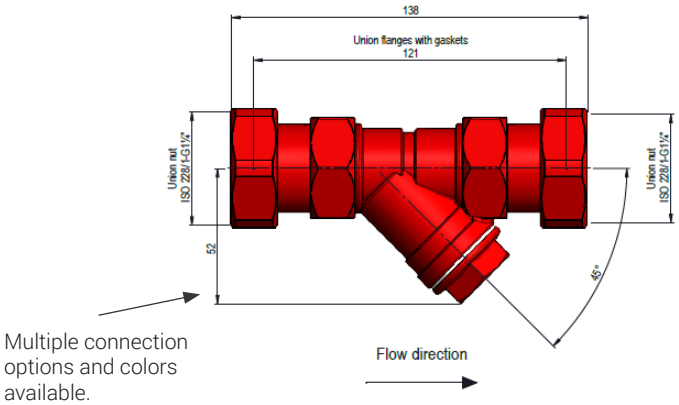
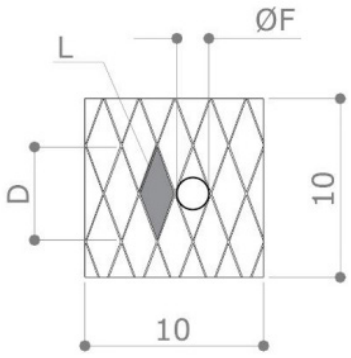
Dirt Collector, 1”



BROEN-LAB item number: 2750301100000X
Multiple connection options and colors available.

The dirt collector has been designed to efficiently capture and remove impurities from the water before it reaches the body or combination shower. The integrated filter prevents particles from circulating, ensuring a cleaner water flow and protecting both equipment and check valves from damage. The unit can also be installed before a thermostatic mixing valve (TMV) or FALCON unit and is available with multiple connection options.





CONNECTION OPTIONS
G1 1/4” union connection
UniFit 26 male
G1” male
UniFit 26 male

MATERIALS
Brass
Rubber, EPDM
Silicone based lubricant
Stainless Steel, AISI 304
Rubber, NBR

FILTER SPECIFICATIONS

n° holes / cm2	70
L	0.25 mm²
D	1.0 mm
ØF	0.50 mm (500 µm)
Size	3/8” - 2”

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CALCULATING THE FLOWRATE AND DYNAMIC PRESSURE DROP

Any calculation can be done using the following formulas:

$$K_v = \frac{q_{v\,[m^3/h]}}{\sqrt{\Delta P_{[bar]}}} \quad \text{or} \quad q_v = K_v \times \sqrt{\Delta P} \quad \text{or} \quad \Delta P = \left(\frac{q_v}{K_v}\right)^2$$

Where

K_v = flowrate [m^3/h] or [l/sec] at 1 bar pressure drop

q_v = flowrate [m^3/h] or [l/sec]

ΔP=pressure drop [bar]

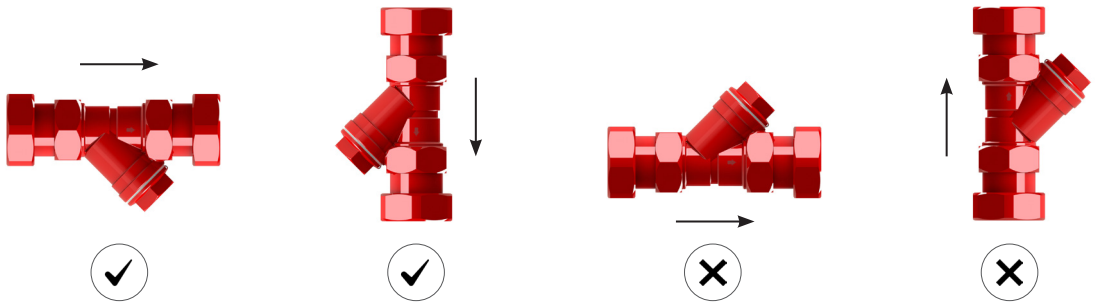
K_v [m^3/h] = 11

PRODUCT FEATURES

Max. working pressure: 16 bar
Temperature range: 5°C - 90°C

FILTER INSTALLATION

Install the filter as shown in the image below. The arrow indicates the direction of water flow. BROEN-LAB recommends installing an isolation valve before the filter.



FILTER MAINTENANCE

The frequency of cleaning the filter depends on how much debris passes through it. However, it is recommended to clean the filter when needed to avoid increased pressure drop or damage. The filter should be cleaned by following these steps:

1. Close the isolation valve to the filter.
2. Open the lid and remove the filter.
3. Clean the filter under running water using a toothbrush with plastic bristles.
4. Inspect the filter thoroughly (if the filter is damaged or scratched, it should be replaced with BROEN-LAB spare part number 1760102).
5. Reinsert the filter and screw the lid back on.
6. Open the isolation valve to the filter.

WARNING: In new systems, it is recommended to clean the filter after one week, as the installation process results in additional debris.

94G0342EN - Dirt Collector, 1" - 09.10.2025
Also available for eye wash units: 94G0335EN - Dirt Collector, 1/2", 3/4"