

Strainers with threaded end connections

Type 1 N

Type 1 NI

SAMSON

Application

Designed to protect downstream plants, aggregates as well as measuring and control devices against impurities · Straining and collecting dirt particles carried along by the medium.

With body G ½ to 2 · PN 25 · Suitable for liquids, steam and non-flammable gases up to max. 200 °C

The strainers consist of a Y-style body with threaded end connections and a wide-meshed filter element (standard strainer insert) or a wide-meshed filter element with an additional fine-meshed filter element (dual strainer insert).

Special features

- Compact design with face-to-face dimensions according to DIN
- Easy removal of the collected dirt particles
- Easy replacement of the strainer insert

Versions

Inlet/outlet: female thread ½" to 2" · PN 25

Type 1 N · With standard strainer insert

Type 1 NI · With dual strainer insert

Brass body · Thread size G ½ to G 2

Principle of operation

The medium flows through the strainer in the direction indicated by the arrow on the body. The uncleaned medium first contacts the inside of the strainer insert (filter element). While it passes through the filter element, the dirt particles carried along by the medium are collected in the filter element. The dirt particles can be removed after unscrewing the screw cap.

Installation

- The direction of flow must match the direction indicated by the arrow on the body. Leave enough space to remove the filter element for cleaning (see Dimensions).
- Install strainers in vertical pipelines with the medium flowing upward with the screw cap facing upward as indicated by the arrow. In this case, dirt particles are retained but not collected.
- Install swing check valves or similar devices to prevent backflow.
- For further details on installation refer to Mounting and Operating Instructions ► EB 1010.

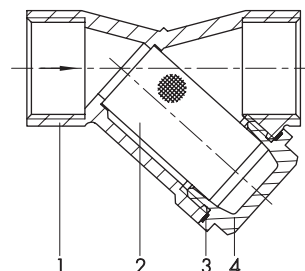


Fig. 1: Type 1 N/1 NI Strainer with female thread

- 1 Body
- 2 Filter element
- 3 Gasket
- 4 Screw cap

Ordering text

Type 1 N/1 NI Strainer, thread size G ...

Table 1: Technical data

| Version | | Brass body · PN 25 | | | | | |
|-----------------------------|------|--------------------------------------|------|------|------|------|-----|
| Thread size | | G ½ | G ¾ | G 1 | G 1¼ | G 1½ | G 2 |
| Type 1 N | | | | | | | |
| K _{VS} | m³/h | 5.6 | 10.0 | 15.6 | 25.5 | 40 | 63 |
| Mesh size | mm | 0.5 | | | 0.75 | | |
| Mesh count per cm² | | 150 | | | 64 | | |
| Flow resistance coefficient | ζ | 2.5 | | | | | |
| Free filter area | | Approx. 3 times pipe cross-section | | | | | |
| Type 1 NI | | | | | | | |
| K _{VS} | m³/h | 5.1 | 9.1 | 14.3 | 23.0 | 36.6 | 57 |
| Mesh size | | 0.25 | | | | | |
| Mesh count per cm² | | 625 | | | | | |
| Flow resistance coefficient | ζ | 3 | | | | | |
| Free filter area | | Approx. 2.5 times pipe cross-section | | | | | |

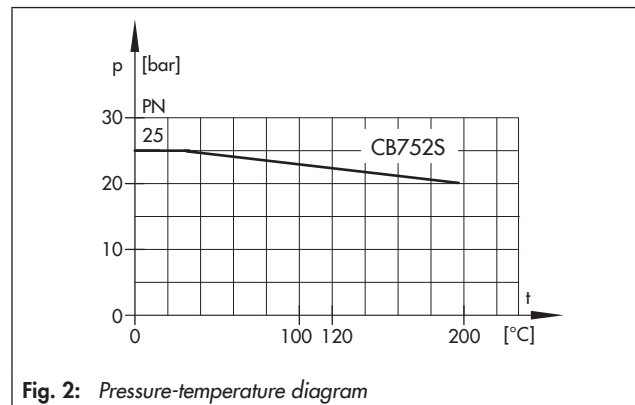
Table 2: Materials

| Type ... | 1 N/1 NI |
|-----------|------------------------|
| Body | Brass CB752S |
| Screw cap | Brass CB752S |
| Filter | Stainless steel 1.4401 |
| Gasket | Novatec® Premium |

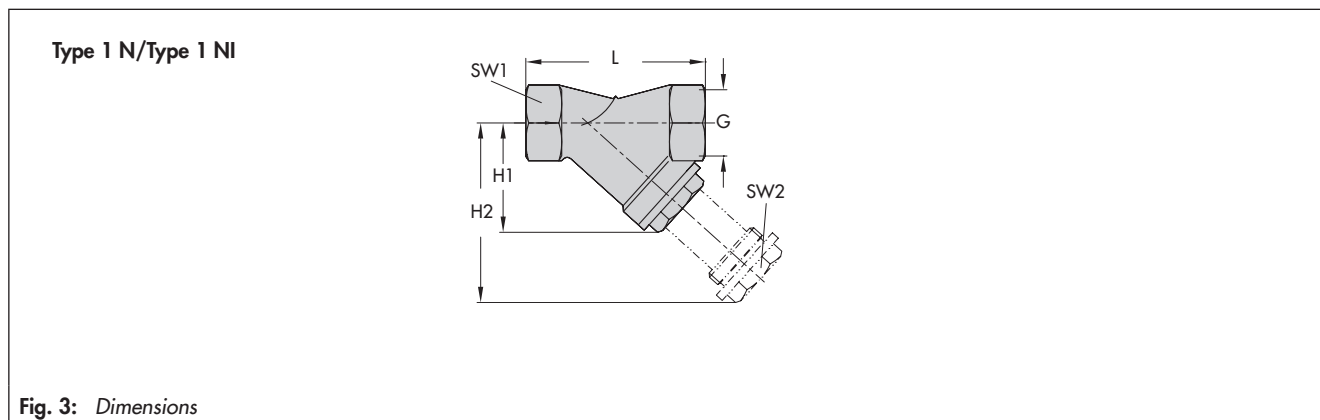
Table 3: Dimensions in mm and weights

| Type 1 N/Type 1 NI | | | | | | |
|---------------------------------|------|-----|------|------|------|------|
| Brass body · PN 25 | | | | | | |
| Thread size | G ½ | G ¾ | G 1 | G 1¼ | G 1½ | G 2 |
| SW1 | 26 | 32 | 41 | 50 | 54.5 | 69.5 |
| SW2 | 19 | 22 | 30 | 32 | 41 | 50 |
| Length L | 65 | 75 | 90 | 110 | 120 | 150 |
| H1 | 40 | 45 | 56 | 73 | 84 | 108 |
| H2 (strainer insert pulled out) | 63.5 | 77 | 96.5 | 115 | 131 | 160 |
| Weight, approx. kg | 0.2 | 0.3 | 0.47 | 0.77 | 1.35 | 1.9 |

Pressure-temperature diagram



Dimensions



Specifications subject to change without notice



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