

Strainers
Type 1 N
Type 1 NI
Type 1 FN



Fig. 1 - Type 1 N/NI Strainer

Mounting and Operating Instructions

EB 1010 EN

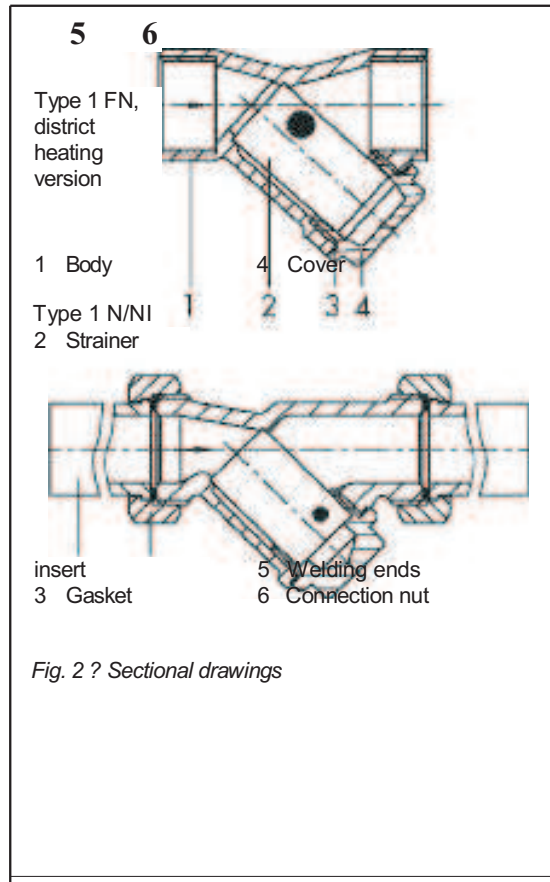
Design and principle of operation

1 Design and principle of operation

Strainers protect downstream plants, assemblies as well as measuring and control equipment from becoming blocked up with dirt particles carried along by the process medium.

The strainers consist of a Y-shaped body with threaded ends, a filter (strainer insert) and a cover for the filter. Type 1 N is equipped with a single wide-meshed strainer insert. Type 1 NI has a single strainer insert plus an additional fine-meshed internal insert (dual insert). Type 1 FN is intended for district heating systems. Its body has male threads for connection nuts and welding ends. The strainer is equipped with a single strainer insert.

The process medium flows through the body in the direction indicated by the arrow on the body. Any dirt particles in the pipeline are retained and collected in the strainer insert.



General safety instructions



- ^ The strainer is to be assembled, started up or operated by trained and experienced personnel familiar with the product. According to these mounting and operating instructions, trained personnel is referred to as individuals who are able to judge the work they are assigned to and recognize possible dangers due to their specialized training, their knowledge and experience as well as their knowledge of the applicable standards.
- Any hazards that could be caused in the strainer by the process medium and the operating pressure are to be prevented by means of the appropriate measures.
- ^ Proper shipping and appropriate storage are assumed.

Installation

2 Installation

Make sure the direction of flow matches the arrow on the body.

Leave enough space to remove the strainer insert.

Standard installation: Drain flange with the internal strainer insert **points down**.

Exception for steam pipes: Drain flange points **to the side**.

Strainers in vertical pipelines with the medium flowing upward are to be installed with the drain flange pointing up as indicated by the arrow.

In this case, dirt particles are retained but not collected.

Table 1 • **Order and cover tightening torques**

3 Maintenance

To prevent wear, regularly check whether dirt, which could block the flow through the strainer, has collected. Remove the strainer to do so.

Note!

Shut off and drain the plant section before starting any work on it.

Remove the cover (4). Also remove the strainer insert(s) and clean them.

Replace damaged strainer inserts (2). Always replace the gasket (3) after the strainer insert has been removed.

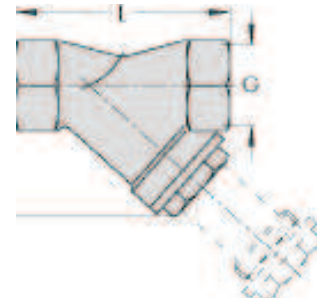
Refer to the table below for required spares.

Table 2 • Dimensions in mm and weights

Body made of brass, malleable iron or red brass PN 25							
Thread size G	65	1 1/2 65	3/4 75	1 1/2 90	VÁ 110	1 1/2 120	2
Length L							150
Connection thread R	-	3/4"	1"	1 1/2"	1 3/4"	2"	2y2"
Width across flats SW	-	30	36	36	59	65	82
Length 1	-	80	85	100	125	135	160
Length L2	-	225	250	265	293	320	360
Height H1		40	45	56	73	84	108
Height H2 (insert extended)		61	75	90	115	134	158
Weight, approx. kg							
Type 1 N/NI (brass)		0.2	0.3	0.47	0.77	1.35	1.9
Type 1 N/NI (iron)	-	0.3	0.5	0.6	0.9	1.6	2.4
Type 1 FN (red brass)	-	0.55	0.65	0.8	1.1	1.85	2.6

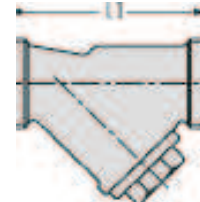
1) Only Types 1 N/NI with brass body

Type 1 N/NI



Body of malleable iron or brass

Type 1 FN • Body of red brass



With connection nuts and welding ends

With connection nuts and welding ends

L 2

