1. Introduction

The 1NT series, quick change, cartridge filter housings are available in 1, 2 or 3 cartridge size models. These low cost, high quality filters are designed for industrial and commercial service and are ideal for many low pressure applications.

The 1NT series cartridge filter housing has a cast head which mounts directly in the flow line. The filter may be mounted in any position. Fluid enters one side of the head, marked “IN”, and is channeled to the area around the cartridges. The body is sealed to the head by a fixed rigid center rod and T-handle closure nut. The T-handle closure is the key feature that allows cartridges to be replaced quickly and easily. As the T-handle is tightened, the body and cartridge are firmly sealed against the head and o-ring. When changing the cartridge, the pressure is released before the housing body is removed, by loosening the T-handle closure.

Features

- T-handle style closure eliminates the need for wrenches or tools
- Working pressure to 250 psi
- Stainless steel construction is standard
- 1” FNPT in-line style, Inlet and Outlet connections allow maximum flow rates at a low pressure drop
- Standard 1/4” FNPT body drain fitting allows draining or pressure relief
- This housing comes with one, 25 micron, Nowata NP series cartridge installed
- Designed for double open-end style cartridges
- Pressure release safety feature
- Buna o-ring seals are standard (other materials are available)
- Knife edge seal top and bottom
- Non-code only
- Spring loaded bottom seal
2. Standard Construction for the 1NT Cartridge Housing

The 1NT series cartridge housing has a stainless cast head with 1 inch, in-line, internal pipe thread inlet and outlet connections. The tubular body is also made of stainless steel. The head and body are pulled together by a T-handle nut threaded to a rigid, fixed center rod which is an integral part of the body. As the T-handle is turned, the body is sealed firmly to the head. The T-handle eliminates the need for wrenches or tools. The cartridge is sealed in place as the T-handle is tightened. A Buna o-ring seals between the T-handle nut and head. All wetted parts of the 1NT series are stainless steel. A knife edged seal on the center rod creates both a positive cartridge seal and a contaminant sump area. All 1NT housing models include one installed cartridge.

3. Dimensional Information

<table>
<thead>
<tr>
<th>1NT Size Model</th>
<th>A</th>
<th>B (1) Cartridge Size</th>
<th>Inlet/Outlet Size (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Cartridge Size</td>
<td>16-1/4</td>
<td>13-15/16</td>
<td>9-3/4 or 10 1 inch</td>
</tr>
<tr>
<td>2 Cartridge Size</td>
<td>26-1/4</td>
<td>23-15/16</td>
<td>19-1/2 or 20 1 inch</td>
</tr>
<tr>
<td>3 Cartridge Size</td>
<td>36-1/4</td>
<td>33-15/16</td>
<td>29-1/4 or 30 1 inch</td>
</tr>
</tbody>
</table>

Dimensions shown in inches unless otherwise noted.
C = 4-5/8 inches
D = Drain 1/4 inch FNPT

Due to our continuing program of product improvement, specifications are for reference only and subject to change without notice. Dimensions are approximate values and not intended for piping specifications.

NOTES:
(1) Additional clearance required to remove housing body for cartridge change-out.
(2) FNPT internal pipe thread Inlet and Outlet connection size.

Consult your local authorized Nowata product distributor for sizing assistance.

4. Typical Model Number

<table>
<thead>
<tr>
<th>1N</th>
<th>T</th>
<th>3</th>
<th>S</th>
<th>U</th>
<th>N</th>
<th>25</th>
<th>N</th>
<th>1</th>
<th>N</th>
<th>T</th>
</tr>
</thead>
<tbody>
<tr>
<td>1N Series</td>
<td>Closure Type</td>
<td>Cartridge Size</td>
<td>Internal Style</td>
<td>Vessel Material</td>
<td>Non-Code</td>
<td>Pressure Rating</td>
<td>Inlet/Outlet Style</td>
<td>Inlet/Outlet Size</td>
<td>Seal Material</td>
<td>Bottom Drain Size</td>
</tr>
</tbody>
</table>

MAHLE Industrial Filtration USA, Inc.
428 N. Elm, PO. Box 678
Nowata, OK 74048 USA
Phone +1 (800) 259-2204
Fax +1 (918) 273-2101
industrialfiltration@us.mahle.com
www.mahle-industrialfiltration.com
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