FK-5-1-12 CLEAN AGENT
IMPULSE VALVE STORAGE CONTAINERS

Description

Fike’s clean agent containers are painted steel containers available in various sizes and varying fill densities. Each container is fitted with an internal siphon tube, Fike Impulse Valve assembly, pressure gauge, container nameplate and applicable mounting hardware. Refer to page 3 for illustration of items supplied with the container.

The Impulse Valve contains a fast-acting rupture disc that retains the agent within the container until the disc is ruptured by an Impulse Valve Actuator (ordered separately) allowing the agent to be released from the container.

Each container is factory filled with FK-5-1-12 fire extinguishing agent in 1 lb. (0.5 kg) increments up to their required capacity and is then super-pressurized with dry nitrogen to 500 psig at 70°F (34.5 bar at 21°C). Fill density must be specified when ordering. Containers sharing the same manifold must be equal in size and fill density.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fill Range</td>
<td>30 to 70 lbs/ft³ (481 to 1121 kg/m³)</td>
</tr>
<tr>
<td>Fill Increments</td>
<td>1.0 lbs (0.5 kg)</td>
</tr>
<tr>
<td>Super Pressurization Level</td>
<td>500 psig at 70°F (34.5 bar at 21°C) after filling with dry nitrogen</td>
</tr>
<tr>
<td>Storage Temp Limits</td>
<td>32°F (0°C) minimum; 130°F (54.4°C) maximum</td>
</tr>
<tr>
<td>Construction</td>
<td>Carbon steel alloys</td>
</tr>
<tr>
<td>Rating</td>
<td>DOT 4BW500; TC 4BWM534</td>
</tr>
<tr>
<td>Color Options</td>
<td>Baked enamel finish, white (default) or red; 5 lb. (2 L) and 10 lb. (4 L) containers are white only.</td>
</tr>
<tr>
<td>Actuation Methods</td>
<td>Electric/Pneumatic/Manual</td>
</tr>
</tbody>
</table>

* If container pressure reaches 720 to 800 psi (49.6 to 55 bar), valve will open automatically. This also fulfills the pressure relief valve requirements in accordance with DOT regulations.

**5 lb. (2 L) and 10 lb. (4 L) containers are white only.

Reliability

Each container is manufactured in strict accordance with U.S. Department of Transportation (DOT) regulations and has successfully passed testing by Factory Mutual (FM) and Underwriters Laboratories, Inc. (UL). Each container is leak tested and pressure tested to 1000 psig (69 bar) prior to shipment.

Approvals

Underwriters Laboratories (UL)
Underwriters Laboratories of Canada (ULC)
Factory Mutual (FM)

For exact certification listings, please reference the respective agency web site.

IMPORTANT NOTICE

FK-5-1-12 may NOT be transported through, or installed in any of the following countries: France, Germany, Italy, Japan, Mexico, South Korea, Spain, the UK, or the USA. FK-5-1-12 is sold by Fike International SDN. Bhd.

This document is only intended to be a guideline and is not applicable to all situations. Information is subject to Fike’s full disclaimer at http://www.fike.com/disclaimer.
Container Data

<table>
<thead>
<tr>
<th>Container Size</th>
<th>Total Container Weight *</th>
<th>Container Floor Area</th>
<th>Container Floor Loading</th>
<th>Container Floor Area w/Plate **</th>
<th>Container Floor Loading w/Plate ***</th>
</tr>
</thead>
<tbody>
<tr>
<td>lbs</td>
<td>L</td>
<td>lbs.</td>
<td>kg</td>
<td>ft²</td>
<td>m²</td>
</tr>
<tr>
<td>5 (2)</td>
<td>2</td>
<td>11</td>
<td>5</td>
<td>0.09</td>
<td>0.009</td>
</tr>
<tr>
<td>10 (4)</td>
<td>2</td>
<td>23</td>
<td>10</td>
<td>0.09</td>
<td>0.009</td>
</tr>
<tr>
<td>20 (8.5)</td>
<td>4</td>
<td>42</td>
<td>19</td>
<td>0.27</td>
<td>0.02</td>
</tr>
<tr>
<td>35 (15)</td>
<td>5</td>
<td>69</td>
<td>31</td>
<td>0.27</td>
<td>0.02</td>
</tr>
<tr>
<td>60 (27)</td>
<td>27</td>
<td>120</td>
<td>54</td>
<td>0.63</td>
<td>0.06</td>
</tr>
<tr>
<td>100 (44)</td>
<td>44</td>
<td>182</td>
<td>83</td>
<td>0.63</td>
<td>0.06</td>
</tr>
<tr>
<td>150 (61)</td>
<td>61</td>
<td>280</td>
<td>127</td>
<td>2.18</td>
<td>0.20</td>
</tr>
<tr>
<td>215 (88)</td>
<td>88</td>
<td>373</td>
<td>169</td>
<td>2.18</td>
<td>0.20</td>
</tr>
<tr>
<td>375 (153)</td>
<td>153</td>
<td>602</td>
<td>273</td>
<td>2.18</td>
<td>0.20</td>
</tr>
<tr>
<td>650 (267)</td>
<td>267</td>
<td>1045</td>
<td>474</td>
<td>3.14</td>
<td>0.29</td>
</tr>
<tr>
<td>1000 (423)</td>
<td>423</td>
<td>1585</td>
<td>719</td>
<td>3.14</td>
<td>0.29</td>
</tr>
</tbody>
</table>

Notes:

*) Total container weight is based on container tare weight + maximum fill weight

**) Plate size = ¼” x 2” x 2” (6.4mm x 0.6m x 0.6m)

***) Total container weight + 22.5 lbs (10.2 kg) added for plate used to calculate container with plate floor loading

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Items Supplied with Container Assembly

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Data Sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Victaulic Coupling &amp; Nipple</td>
<td>n/a</td>
</tr>
<tr>
<td>2</td>
<td>Impulse Valve</td>
<td>IV.1.14.01</td>
</tr>
<tr>
<td>3</td>
<td>Pressure Valve</td>
<td>IV.1.29.01</td>
</tr>
<tr>
<td>4</td>
<td>Liquid Level Indicator (optional)</td>
<td>IV.1.20.01</td>
</tr>
<tr>
<td>5</td>
<td>LLI Boss (see note 1)</td>
<td>n/a</td>
</tr>
<tr>
<td>6</td>
<td>Nameplate (see note 2)</td>
<td>n/a</td>
</tr>
<tr>
<td>7</td>
<td>Siphon Tube (see note 3)</td>
<td>n/a</td>
</tr>
<tr>
<td>8</td>
<td>Mounting Straps &amp; Brackets</td>
<td>IV.1.18.01</td>
</tr>
</tbody>
</table>

Notes:

1) 100 thru 1000 lb. (44 thru 423 L) containers are equipped with an LLI boss that facilitates the installation of an optional Liquid Level Indicator (LLI).

2) Fike nameplate provides the information that is specific to each container: Assembly and serial number of the container, weight information: tare, gross and agent and installation, operation and safety information. All containers filled either by the factory or by an Approved Initial Fill Station are provided with a name plate bearing the UL & FM markings.

3) Fike Clean Agent containers [except the 150i (inverted)] are equipped with a siphon tube. The 20, 35 & 60 lb. containers have bent siphon tubes and the 5, 10 and 100 – 1000 lb. containers have straight siphon tubes. All containers with siphon tubes can be mounted upright. The 20, 35 & 60 lb containers can also be mounted horizontally. The 150 container can only be mounted upright and the 150i can only be mounted inverted.