TIGERFLEX ISO 9001-2000 REGISTERED Q.M.S.™

THE ASSOCIATION FOR HOSE AND ACCESSORIES DISTRIBUTION

Static Dissipative Food Grade Material Handling Hoses

Superior Static Protection!
Durable Abrasion Resistant!
Food Grade!
Light Weight!

VOLT™

VOLTBUSTER™ Superior Static Protection™

2013 VAALER AWARD WINNER!

CHEMICAL PROCESSING

Thermoplastic Industrial Hoses

VLT-SD™

Kuriyama of America, Inc.

EDITION 0519
Because we continually examine ways to improve our products, we reserve the right to alter specifications without notice.

**VOLT™ Series**

Heavy Duty Food Grade Static Dissipative Polyurethane Material Handling Hose

**General Applications:**
- Bulk truck and railcar unloading
- Fly ash collection
- Food grade material handling – heavy duty abrasive
- Material handling – heavy duty abrasive
- Milling machine scrap recovery
- Pharmaceutical product transfer
- Plastic processing equipment
- Pneumatic conveying equipment

**Construction:** Static dissipative polyurethane tube, rigid helix and grounding wire.

**Service Temperature Range:**
-40°F (-40°C) to +150°F (+65°C)*

**Features and Advantages:**
- **Superior Static Protection!** – A properly grounded Voltbuster™ hose will not retain an electrostatic charge sufficient to create a propagating brush discharge. Hose material, using the embedded grounding wire, shows a charge decay time constant of < 1 second, based on independent lab testing.

- **Food Grade Materials** – Hose tube complies with FDA(05) requirements. Grounding wire embedded in external helix to prevent material contamination.

- **Extra Thick Abrasion Resistant Single-Ply Polyurethane Tube** – Provides for longer hose life and lower operating costs versus rubber or PVC hoses.

- **Transparent Construction** – “See-the-flow”. Allows for visual confirmation of material flow.

- **“Cold-Flex” Materials** – Hose remains flexible in sub-zero temperatures.

- **Easy Slide Helix** – Rigid helix design protects hose tube from wear; allows hose to slide easily over rough surfaces. Easy to handle.

**Nominal Specifications**

<table>
<thead>
<tr>
<th>Series Number</th>
<th>ID (in)</th>
<th>OD (mm)</th>
<th>Working Pressure (psi)</th>
<th>Vacuum Rating Hg (in)</th>
<th>Min. Bending Radius at 68°F (in)</th>
<th>Standard Length (ft)</th>
<th>Weight (lbs/ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOLT150</td>
<td>1-1/2</td>
<td>38.35</td>
<td>1.87</td>
<td>47.5</td>
<td>68°F 20</td>
<td>2</td>
<td>100/60</td>
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<tr>
<td>VOLT200</td>
<td>2</td>
<td>51.1</td>
<td>2.52</td>
<td>63.9</td>
<td>68°F 20</td>
<td>6</td>
<td>100/60</td>
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<tr>
<td>VOLT250</td>
<td>2-1/2</td>
<td>63.75</td>
<td>2.96</td>
<td>75.2</td>
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<td>7</td>
<td>100</td>
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<tr>
<td>VOLT300</td>
<td>3</td>
<td>76.2</td>
<td>3.60</td>
<td>91.4</td>
<td>68°F 20</td>
<td>9</td>
<td>100/60/20</td>
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<tr>
<td>VOLT400</td>
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<td>101.6</td>
<td>4.69</td>
<td>121.0</td>
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<td>12</td>
<td>100/60/20</td>
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<td>VOLT500</td>
<td>5</td>
<td>127.0</td>
<td>5.75</td>
<td>146.8</td>
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<td>14</td>
<td>60/20</td>
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<tr>
<td>VOLT600</td>
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<td>153.4</td>
<td>6.81</td>
<td>173.2</td>
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<td>16</td>
<td>60/20</td>
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<td>VOLT800</td>
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<td>203.5</td>
<td>8.76</td>
<td>223.3</td>
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<td>18</td>
<td>20</td>
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<td>VOLT1000</td>
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<td>255.5</td>
<td>11.04</td>
<td>280.5</td>
<td>68°F 20</td>
<td>22</td>
<td>20</td>
</tr>
</tbody>
</table>

**NOTE:** Service life may vary depending on operating conditions and type of material being conveyed.

**NOTE:** For details of the following compliances, refer to footnotes listed on page 63 of the Tigerflex catalog.

* Actual service temperature range is application dependent.

CAUTION: This product is designed to dissipate static electricity when the embedded grounding wire is physically extracted and securely connected to ground, through the fitting or by other means.

BSE/TSE(02), FDA(05), RoHS(10)

Because we continually examine ways to improve our products, we reserve the right to alter specifications without notice.
**Features and Advantages:**

- **Superior Static Protection!** – A properly grounded Voltbuster™ hose will not retain an electrostatic charge sufficient to create a propagating brush discharge. Hose material, using the embedded grounding wire, shows a charge decay time constant of < 1 second, based on independent lab testing.
- **Food Grade Materials** – Hose tube complies with FDA(05) requirements. Grounding wire embedded in external helix to prevent material contamination.
- **Extra Thick Abrasion Resistant Double-Ply Polyurethane Tube** – Provides for longer hose life and lower operating costs versus rubber or PVC hoses.
- **Fabric Reinforcement** – Designed with high tensile strength, food grade FDA(06), polyester yarn jacket to handle both suction, and higher pressure discharge applications.
- **Transparent Construction** – “See-the-flow”. Allows for visual conformation of material flow.
- **“Cold-Flex” Materials** – Hose remains flexible in sub-zero temperatures.
- **Easy Slide Helix** – Rigid helix design protects hose from wear; allows hose to slide easily over rough surfaces. Easy to handle.

**Nominal Specifications**

<table>
<thead>
<tr>
<th>Series Number</th>
<th>ID (in)</th>
<th>OD (in)</th>
<th>Working Pressure (psi) 68°F 104°F</th>
<th>Vacuum Rating Hg (in) 68°F 104°F</th>
<th>Min. Bending Radius at 68°F (in) 104°F</th>
<th>Standard Length (ft)</th>
<th>Weight (lbs/ft)</th>
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<tbody>
<tr>
<td>VLT-SD200</td>
<td>2</td>
<td>51.1</td>
<td>2.67 67.0 75 40</td>
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<td>77.0</td>
<td>3.78 96.0 70 35</td>
<td>Full 28</td>
<td>12</td>
<td>100/20</td>
<td>1.22</td>
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<tr>
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<td>102.2</td>
<td>4.84 123.0 65 30</td>
<td>Full 28</td>
<td>13</td>
<td>100/60/20</td>
<td>1.85</td>
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<tr>
<td>VLT-SD500</td>
<td>5</td>
<td>128.0</td>
<td>5.79 152.0 45 22</td>
<td>28 25</td>
<td>14</td>
<td>60/20</td>
<td>2.43</td>
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<tr>
<td>VLT-SD600</td>
<td>6</td>
<td>153.4</td>
<td>6.93 177.4 40 22</td>
<td>28 25</td>
<td>17</td>
<td>60/20</td>
<td>3.05</td>
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<tr>
<td>VLT-SD800</td>
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<td>206.0</td>
<td>9.25 235.0 35 25</td>
<td>26 20</td>
<td>23</td>
<td>20</td>
<td>4.70</td>
</tr>
</tbody>
</table>

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CAUTION: This product is designed to dissipate static electricity when the embedded grounding wire is physically extracted and securely connected to ground, through the fitting or by other means.

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High Static Applications
In most applications, Tigerflex™ hoses with grounding wires (such as our WE, 2001 or 2020 series) or static dissipative additives (such as our WBS, UF1 or UF2 series) are sufficient to dissipate static. However, applications involving fine particles transferred at very high rates of speed have increased potential to generate static. Tigerflex™ Voltbuster™ hoses are designed for these very high static generating applications.

For VOLT & VLT-SD Hoses

**Nominal Specifications**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Fits Hose ID (in)</th>
<th>Color</th>
<th>Standard Length (ft)</th>
<th>Weight (lbs/ea)</th>
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</thead>
<tbody>
<tr>
<td>SLV-VLT3X3</td>
<td>3 Clear</td>
<td></td>
<td>3</td>
<td>3.50</td>
</tr>
<tr>
<td>SLV-VLT4X3</td>
<td>4 Clear</td>
<td></td>
<td>3</td>
<td>4.20</td>
</tr>
</tbody>
</table>

†CFR Title 21 Parts 170-199.

**Grounding of Equipment**
Tigerflex™ hoses with grounding wires are designed to dissipate static electricity when the embedded grounding wire is physically extracted and securely connected to ground, through the fitting or by other means. Trucks, railcars and other equipment connected to the hose must first be grounded in order for the hose to function properly.

Hose assemblies should be tested regularly to ensure proper bond continuity of grounding wire to metal coupling.
Engineered Innovation for Peace of Mind

Static Safety

Superior Static Protection! A properly grounded Voltbuster™ hose will not retain an electrostatic charge sufficient to create a propagating brush discharge. Hose material, using the embedded grounding wire, shows a charge decay time constant of < 1 second, based on independent lab testing.

Back Safety

Tigerflex™ Voltbuster™ hoses are lightweight and flexible for worker safety. According to the US Department of Labor, sprains, strains and tear injuries account for approximately 40 percent of total injury and illness cases requiring days away from work. [1] These types of injuries are commonly the result of overexertion of the back or shoulders. Cumbersome rubber and metal hoses can pose an increased risk of these types of injuries due to their heavier weight.

Food Safety

Tigerflex™ Voltbuster™ hoses are specially designed to ensure the purity of the transferred materials. The hoses’ durable stainless steel grounding wire is encapsulated in the rigid plastic helix on the exterior of the hose, safely eliminating the risk of metal contaminating the transferred materials. However, traditional plastic and food grade rubber hoses typically place their grounding wires in the body of the hose. Over time, the transfer of powders, grains or other abrasive materials can wear away the interior of the hose tube, and may ultimately reach the metal wire, causing portions to separate from the hose and contaminate the transferred materials!

Compliance Footnotes

(02) BSE/TSE – The majority of the raw materials used in our formulations are not manufactured or derived from materials of animal origin. Nor do our products come into contact with materials of animal origin during processing. Our suppliers of raw materials have assured us their compounds exceed the relevant European Guidance on minimizing the Risk of Transmitting Animal Spongiform Encephalophy Agents Via Human and Veterinary Medical Products.

(05) FDA – Material conforms to CFR title 21, parts 177.2600 and 175.105

(06) FDA – Material conforms to CFR title 21, parts 177.2800 (5)(i), 21 CFR 170.39.

(10) RoHS – The product complies with the requirements of the EU directive 2002/95/EC which is on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Cautionary Statement

All Products sold and distributed by Kuriyama of America, Inc. are in the nature of commodities and they are sold by published specifications and not for particular purposes, uses or applications. Purchaser shall first determine their suitability for the intended purposes, uses or applications and shall either conduct its own engineering studies or tests, or retain qualified engineers, consultants or testing laboratories and consult with them before determining the proper use, suitability or propriety of the merchandise or Products for the intended purposes, uses or applications.

Kuriyama of America, Inc. ("Seller") does not recommend the Products for any particular purpose, use or application, and the Purchaser or user thereof shall assume full responsibility for the suitability, propriety, use and application of the Products. Purchaser shall follow all instructions contained in Seller’s catalogs, brochures, technical bulletins and other documents regarding the Products. The Products, including but not limited to, hose, tubing or couplings, may fail due to the use or conveyance of substances at elevated or lowered temperatures or at excessive pressure, the conveyance of abrasive, injurious, flammable, explosive or damaging substances.

Hose or tubing used in bent configurations will be subjected to increased abrasion. Hose clamps or couplings may loosen after initial installation and all sections of hose and tubing including connections, couplings, clamps, conductivity and bonding should be inspected frequently, regularly and consistently, and should be replaced, adjusted or re-tightened for the avoidance of leakage, for the prevention of injuries or damages, and for general safety purposes.

Limited Warranty

The Products sold or distributed by Seller are warranted to its customers to be free from defects in material and workmanship at the time of shipment by us, subject to the following provisions. ALL WARRANTY CLAIMS SHALL BE MADE WITHIN SIX (6) MONTHS AFTER SELLER SHIPPED THE PRODUCTS. SELLER’S LIABILITY HEREUNDER IS LIMITED AT SELLER’S EXCLUSIVE DISCRETION, TO 1) THE PURCHASE PRICE OF ANY PRODUCTS PROVING DEFECTIVE; 2) REPAIR OF ANY DEFECTIVE PRODUCT OR PART THEREOF; OR 3) REPLACEMENT OF ANY DEFECTIVE PRODUCT OR PART UPON ITS AUTHORIZED RETURN TO SELLER.

This warranty is in lieu of and excludes all other warranties, expressed, implied, statutory, or otherwise created under applicable law including, but not limited to, the warranty of merchantability and the warranty of fitness for a particular purpose. In no event shall Seller or the manufacturer of the product be liable for special, incidental, or consequential damages, including loss of profits, whether or not caused by or resulting from the negligence of Seller and/or the manufacturer of the product, unless specifically provided herein. In addition, this warranty shall not apply to any products or portions thereof which have been subjected to abuse, misuse, improper installation, maintenance, or operation, electrical failure or abnormal conditions, and to products which have been tampered with, altered, modified, repaired, reworked by anyone not approved by Seller, or used in any manner inconsistent with the provisions of the “Cautionary Statement” above or any instructions or specifications provided with or for the product.

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