

tigerflex®



VOLTBUSTER™

Superior Static Protection™

**Static Dissipative
Food Grade Material
Handling Hoses**

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



BY

CHEMICAL PROCESSING



VOLT™ Series



VLT-SD™ Series



KURIYAMA
OF AMERICA, INC.



NAHAD
HOSE SAFETY INSTITUTE
Designated ✓



VOLT™ Series

Heavy-Duty Food Grade, Charge Reducing, Polyurethane Material Handling Hose with Grounding Wire

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← SCAN OR VISIT

[KOA.link/
VOLT](https://KOA.link/VOLT)



GENERAL APPLICATIONS

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

CONSTRUCTION

Charge reducing polyurethane tube, rigid helix and grounding wire (patent pending)

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

*Actual service temperature range is application dependent.



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.
- **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.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
VOLT150	1 1/2	38.1	1.87	47.5	40	20	Full	28	2	100/60	0.31
VOLT200	2	51.1	2.52	63.9	40	20	Full	28	6	100/60	0.61
VOLT250	2 1/2	63.5	2.96	75.2	40	20	Full	28	7	100	0.76
VOLT300	3	76.2	3.60	91.4	40	20	Full	28	9	100/60/20	0.91
VOLT400	4	101.6	4.69	121.0	35	17	28	25	12	100/60/20	1.70
VOLT500	5	127.0	5.75	146.8	35	17	28	25	14	60/20	2.13
VOLT600	6	153.4	6.81	173.2	30	15	25	20	16	60/20	2.53
VOLT800	8	203.5	8.76	223.3	30	15	25	20	18	20	3.30
VOLT1000	10	255.5	11.04	280.5	25	10	22	16	25	20	4.99

NOTES:

- Service life may vary depending on operating conditions and type of material being conveyed.

⚠ CAUTION: Grounding wire is designed to help dissipate static charge when extracted and connected to ground. Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES (for details see page 87)

BSE/TSE (02), FDA (05), FDA (06), Phthalate Free (10), RoHS (11)

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



VOLTBUSTER™

VLT-SD™ Series

Heavy-Duty Food Grade, Charge Reducing Polyurethane, Fabric Reinforced, Material Handling Hose with Grounding Wire

[View Up To Date Info](#)



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[KOA.link/
VLT-SD](http://KOA.link/VLT-SD)



GENERAL APPLICATIONS

- Bulk truck and railcar unloading
- Food grade material handling – heavy duty abrasive
- Milling machine scrap recovery
- Plastic processing equipment
- Pneumatic conveying equipment
- Suction and discharge

CONSTRUCTION

Charge reducing polyurethane tube, polyester fabric reinforcement, rigid helix and grounding wire (patent pending)

SERVICE TEMPERATURE RANGE

-40°F (-40°C) to +150°F (+65°C)*

**Actual service temperature range is application dependent.*



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.

Series Number	ID		OD		Working Pressure (psi)		Vacuum Rating Hg (in)		Min. Bending Radius (in) at 68°F	Standard Length (ft)	Weight (lbs/ft)
	(in)	(mm)	(in)	(mm)	at 68°F	at 104°F	at 68°F	at 104°F			
VLT-SD200	2	51.1	2.67	67.0	75	40	Full	28	9	100/50	0.77
VLT-SD300	3	77.0	3.78	96.0	70	35	Full	28	12	100/20	1.22
VLT-SD400	4	102.2	4.84	123.0	65	30	Full	28	13	100/60/20	1.85
VLT-SD500	5	128.0	5.79	152.0	45	22	28	25	14	60/20	2.43
VLT-SD600	6	153.4	6.93	177.4	40	22	28	25	17	60/20	3.05
VLT-SD800	8	206.0	9.25	235.0	35	25	26	20	23	20	4.70

NOTES:

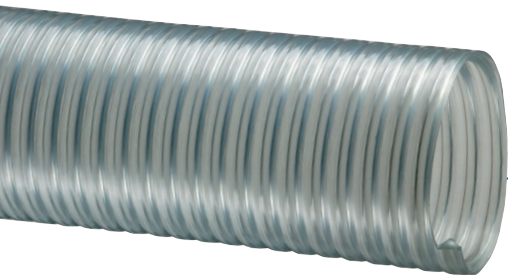
- Service life may vary depending on operating conditions and type of material being conveyed.

CAUTION: Grounding wire is designed to help dissipate static charge when extracted and connected to ground. Hose is not to be used in combustible situations unless it has been determined by the end user the application is not sufficient to result in propagating brush discharge.

COMPLIANCES *(for details see page 87)*

BSE/TSE (02), FDA (05), Phthalate Free (10), RoHS (11)

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SLV-VLT™ Series

Food Grade, Charge Reducing Flexible PVC Banding Sleeve

GENERAL APPLICATIONS

- For hoses with a high-profile, *counterclockwise* helix*, such as the VOLT™ and VLT-SD™ series*

CONSTRUCTION

Clear, food grade, flexible PVC

FEATURES AND ADVANTAGES

- Food grade, charge reducing PVC material.
- Helps prevent over bending near the coupling.
- Cut into approximately 12-inch lengths; screw onto hose at each end.

View Up To Date Info



◀ SCAN OR VISIT

[KOA.link/SLV-VLT](https://koya.link/SLV-VLT)



Series Number	Fits Hose ID (in)	Color	Standard Length (ft)	Weight (lbs/ea)
SLV-VLT3X3	3	Clear	3	3.50
SLV-VLT4X3	4	Clear	3	4.29

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.

Static Generating Applications*	Food Grade and Non Food Grade Applications	Non Food Grade Applications Only
Very High	VOLT, VLT-SD	TR1
High	WE, 2001, 2020, GTFE & PF	UV3, UVPE
Medium	WBS	AMPH, UBK, UF1, UF2, UFC, UV2

**This chart is intended only as a guideline for selecting the proper Tigerflex™ hose series. Actual results are application-dependent. Additional factors influencing static generation include, but are not limited to, the composition of the transferred materials, rate of material transfer, relative humidity, length and size of hose, and number and degree of hose bends. It is the purchaser's responsibility to ensure hose suitability prior to installation.*

For product information on other listed Tigerflex™ hose series, please visit www.kuriyama.com.

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.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

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 Encephalopathy 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.

[1] U.S. Department of Labor, Bureau of Labor Statistics, Nonfatal Occupational Injuries and Illnesses Requiring Days Away From Work, 2009 (November 9, 2010)

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. Except as indicated in its Limited Warranty, Seller shall not be liable or responsible for direct or indirect injuries or damages caused by or attributed to the failure or malfunction of any Products sold or distributed by it.

Purchasers or users of the Products should frequently and consistently undertake inspections and protective measures with respect to the use and application of Products, which should include the examination of tube and cover, conditions of the hose or tubing, and the identification, repair or replacement of sections showing cracking, blistering, separations, internal and external abrasions, leaking or slipped couplings or connections and make proper proof tests.

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.

05/03/21 REV

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THE KURIYAMA NETWORK

Kuriyama's North American Operations comprise an integrated network of manufacturing and distribution facilities strategically located across the continent. This footprint supports a wide range of industrial and hydraulic hose and couplings products, and the capability to engineer custom solutions for demanding applications.

The Kuriyama Distribution Network serves the United States through five primary distribution centers totaling more than 700,000 square feet, including a state-of-the-art 329,000 square foot Central Distribution Center in Huntley, Illinois.

Our Manufacturing Network includes seven North American manufacturing and compounding facilities, producing thermoplastic industrial hose, hydraulic hose, high pressure spray hose, metal hose assemblies, NFPA 1961 fire hose and engineered tubing.



CORPORATE HEADQUARTERS

NORTH AMERICAN HEADQUARTERS

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☎ (800) 878-5501
📠 (765) 762-5502 OR
📠 (800) 879-8232

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Cadillac, MI 49601
☎ (800) 250-5132 OR
☎ (231) 779-4390
📠 (231) 779-4399

DISTRIBUTION CENTERS AND WAREHOUSES

USA CENTRAL DISTRIBUTION CENTER – HUNTLEY

14200 Commerce Court
Huntley, IL 60142
☎ (847) 707-6459

WEST COAST WAREHOUSE – RENO

12910 Old Virginia Road,
Suite 100
Reno, NV 89521
☎ (847) 707-6459

SOUTHWEST WAREHOUSE – HOUSTON

200 Portwall Street, Suite 100
Houston, TX 77029
☎ (847) 707-6459

NORTHEAST WAREHOUSE – CARLISLE

1600 Distribution Drive,
Building B
Carlisle, PA 17013
☎ (847) 707-6459

SOUTHEAST WAREHOUSE – ACWORTH

FORTNEY SALES CO., INC.
4221 Cantrell Road NW
Acworth, GA 30101
☎ (770) 427-6528
📠 (770) 423-9249 OR
📠 (800) 423-9249

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