



Flexible Sprinkler Hoses | Braided & Unbraided | VK27B & VK27N



SPECIFICATIONS	
Application	Commercial Suspended Ceilings
Hose Diameter	26.2mm ID, 26.8mm OD
Hose Material	Stainless Steel 304
Max. Ambient Temperature	107°C / 225°F
Max. Working Pressure	UL 200psi / 14bar FM 175psi / 12bar
Inlet Nipple	1"
Outlet Reducer	½", ¾"
Approvals	FM, UL

Product Data & Part Numbers | Unbraided | VK27N | UL

Part Number	Hose Assembly Length		Outlet Size	K factor (imperial /metric)	Max. Number of 90° Bends	Minimum Bend Radius (mm/inches)	Equivalent Length of 1" Schedule 40 Steel Pipe (c=120)	
	mm	in					m	ft
VK27N-T0700 (½)	700	27 <sup>9</sup> / <sub>16</sub>	½"	5.6/80.6	2	102 / 4	7.92	26
VK27N-T1000 (½)	1000	39 <sup>3</sup> / <sub>8</sub>			3		13.72	45
VK27N-T1200 (½)	1200	47 <sup>1</sup> / <sub>4</sub>			3		15.54	51
VK27N-T1500 (½)	1500	59 <sup>1</sup> / <sub>16</sub>			3		20.12	66
VK27N-T1800 (½)	1800	70 <sup>7</sup> / <sub>8</sub>			3		21.03	69
VK27N-T700 (¾)	700	27 <sup>9</sup> / <sub>16</sub>	¾"	8.0/115.2	2		9.45	31
VK27N-T1000 (¾)	1000	39 <sup>3</sup> / <sub>8</sub>			3		15.24	50
VK27N-T1200 (¾)	1200	47 <sup>1</sup> / <sub>4</sub>			3		16.76	55
VK27N-T1500 (¾)	1500	59 <sup>1</sup> / <sub>16</sub>			3		21.34	70
VK27N-T1800 (¾)	1800	70 <sup>7</sup> / <sub>8</sub>			3		22.56	74

Product Data & Part Numbers | Braided | VK27B | UL & FM

Part Number	Hose Assembly Length		Outlet Size	K factor (imperial/metric)		Max. Number of 90° Bends		Minimum Bend Radius (mm/inches)		Equivalent Length of 1" Schedule 40 Steel Pipe (c=120), ft (m)	
	mm	in		FM	UL	FM	UL	FM	UL	FM	UL
	VK27B-T0700 (½)	700		27 <sup>9</sup> / <sub>16</sub>	½"	5.6/80.6	8.0/115.2	1	2	229 / 9	102 / 4
VK27B-T1000 (½)	1000	39 <sup>3</sup> / <sub>8</sub>	2	3				13.96/45.8	13.72/45.0		
VK27B-T1200 (½)	1200	47 <sup>1</sup> / <sub>4</sub>	2	3				17.50/57.4	15.54/51.0		
VK27B-T1500 (½)	1500	59 <sup>1</sup> / <sub>16</sub>	3	3				21.21/69.6	20.12/66.0		
VK27B-T1800 (½)	1800	70 <sup>7</sup> / <sub>8</sub>	4	3				24.93/81.8	21.03/69.0		
VK27B-T700 (¾)	700	27 <sup>9</sup> / <sub>16</sub>	¾"	8.0/115.2	11.2/161.3	1	2	8.41/27.6	9.45/31.0		
VK27B-T1000 (¾)	1000	39 <sup>3</sup> / <sub>8</sub>				2	3	12.44/40.8	15.24/50.0		
VK27B-T1200 (¾)	1200	47 <sup>1</sup> / <sub>4</sub>				2	3	15.12/49.6	16.76/55.0		
VK27B-T1500 (¾)	1500	59 <sup>1</sup> / <sub>16</sub>				3	3	19.11/62.7	21.34/70.0		
VK27B-T1800 (¾)	1800	70 <sup>7</sup> / <sub>8</sub>				4	3	23.10/75.8	22.56/74.0		

**Note:** This document contains basic product information only. For more information, contact your local VIKING Sales Representative. Certificates, test reports and approvals may be published in the OEM name. The contents of this publication are subject to change without prior notice. All rights reserved. Images are purely for illustration only. Fireking™ is a trademark of The Viking Corporation.

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## Flexible Sprinkler Hoses | Braided | VK-B & VK-N Installation Instructions

The flexible sprinkler hoses must be installed by appropriately experienced and trained fitters and all instructions must be followed. Please contact your local Viking office for product training. Failure to follow these instructions may lead to incorrect installation and system function.

These flexible sprinkler hoses are designed to be installed in wet pipe sprinkler systems only and in accordance with recognized sprinkler installation and design regulations such as NFPA 13 and EN12845. The hoses shall be installed indoors only.

The flexible sprinkler hose is designed to provide easy positioning and installation of sprinklers from branch line to the sprinkler within a single compartment and shall not pass from one compartment to another, or through fire separation materials.

Viking does not recommend the use of chemical additives to be used with the flexible sprinkler hose. The sprinkler system designer has a responsibility to verify the suitability for use if chemical additives are used or if the flex hose is exposed to excessive levels of UV, i.e. over natural light limits. The flexible hoses do not carry water authority approvals and should not be directly connected to potable water systems.

Flexible hoses should be inspected regularly in accordance with the requirements of the regulations in place at the installation location.

1. Refer to the relative regulations, codes or standards for guidance and determination of the desirable location for the unit in use commercial ceiling, clean rooms and duct systems, etc.
2. Install the 1" flexible hose nipple (inlet) to the 1" sprinkler branch pipe by normal sealing and tightening procedures. Slip nut, which connects nipple with flexible hose, should be tightened with wrench as excessive force can damage the O-ring inside. (Torque: 123 kgf-cm).
3. Beware of sharp edges and tools, inspect the hose during and after installation for signs of damage to the surface of the flexible hose.
4. Assemble the supplied bracket and square bar, attach the square bar to the T-bar (ceiling support) with supplied bracket and bolts considering the horizontal location of the sprinkler head. At this stage of installation, bolts need to be fastened loosely. (Torque: 27~28 kgf-cm). Select appropriate square bar length in accordance with the spacing between ceiling supports (both main bars and cross bars) is 600mm~1200mm. The "T" shaped beam is assembled with bracket S1 or S2.
5. Bend the flexible hose so that the reducer (outlet) can be reached to the intended sprinkler head position. The flexible hose should be bent axially with smooth bending shape and within minimum installation bending radius according to UL FM (where applicable). Flexible hose should not be twisted in a circumferential direction and the bend must not exceed a 90° angle.
6. For longer flexible hoses, intermediate hose support is recommended to secure the movement of the hoses.
7. Verify that the reducer (outlet) is located in the correct intended position before securing the bracket L2 or L2-2 bolt. Check and adjust the reducer position by moving vertically and horizontally along the square bar. Tighten all the bolts securely and evenly. (Torque: 57~58 kgf-cm).
8. Install the sprinkler head to the reducer (outlet), if necessary adjust the height and location of the reducer by loosening and tightening the bolt.



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