



Flexible Sprinkler Hoses | Braided | S-Flex VK40SB

Fireking S-Flex flexible sprinkler hoses are complete assemblies of braided stainless steel hoses allowing the fast and easy installation of sprinklers into commercial false ceilings. The hoses are available with FM approval and in a variety of lengths.



Features & Benefits

- Fast installation sprinklers
- Easy to use fittings
- Tighter bend radius than standard flexible hoses (178 mm vs 230 mm)
- Variety of lengths to suit all situations
- Standard 1,000 mm support bar fits most ceiling grids (longer available on demand)
- Increased number of bends vs standard flexible hoses; up to 4 bends allowed
- Low equivalent length values

Product Data & Part Numbers

Part Number*	Length (mm/')	Outlet Size	Minimum Bend Radius (mm/')	Maximum Number of 90° Bends	Equivalent Length of 1"/DN25 Schedule 40 Steel pipe (C=120) (m/ft)					
					K-Factor 5.6/80	K-Factor 8.0/115	K-Factor 11.2/161	K-Factor 14.0/202	K-Factor 16.8/242	K-Factor 25.2/363
S-Flex VK40SB-T700(½B)	700/28	½" / DN15	178/7	2	1.0/3.6	1.0/3.3				
S-Flex VK40SB-T1000(½B)	1000/40			3	1.4/4.7	1.3/4.3				
S-Flex VK40SB-T1200(½B)	1200/48			3	1.6/5.5	1.5/5.0				
S-Flex VK40SB-T1500(½B)	1500/60			4	2.0/6.6	1.8/6.1				
S-Flex VK40SB-T1800(½B)	1800/72			4	2.3/7.8	2.2/7.2				
S-Flex VK40SB-T700(¾B)	700/28	¾" / DN20	178/7	2		1.0/3.2	1.0/3.2	0.9/3.1	0.9/3.9	
S-Flex VK40SB-T1000(¾B)	1000/40			3		1.3/4.1	1.2/4.0	1.2/4.0	1.2/3.9	
S-Flex VK40SB-T1200(¾B)	1200/48			3		1.5/4.8	1.4/4.7	1.4/4.6	1.4/4.5	
S-Flex VK40SB-T1500(¾B)	1500/60			4		1.8/5.8	1.7/5.7	1.7/5.5	1.7/5.4	
S-Flex VK40SB-T1800(¾B)	1800/72			4		2.1/6.8	2.0/6.7	2.0/6.5	1.9/6.4	
S-Flex VK40SB-T700(1B)	700/28	1" / DN25	178/7	2						0.8/2.7
S-Flex VK40SB-T1000(1B)	1000/40			3						1.1/3.6
S-Flex VK40SB-T1200(1B)	1200/48			3						1.3/4.4
S-Flex VK40SB-T1500(1B)	1500/60			4						1.5/5.1
S-Flex VK40SB-T1800(1B)	1800/72			4						1.8/6.1

* Standard Inlet 1" BSPT. For NPT inlet, change suffix to N; e.g. (½B) change to (½N). For 1¼" BSPT, change suffix to K; e.g. (½B) change to (½K).

SPECIFICATIONS

Hose Diameter	31.2mm ID / 31.8mm OD
Hose Assembly Lengths (mm)	700, 1000, 1200, 1500, 1800
Hose Type	Braided Annular Corrugated - Threaded or Welded
Hose Material	Stainless Steel 304
Max. Ambient Temperature	107°C / 225°F
Max. Working Pressure	200psi / 14bar
Inlet Nipple	1"/DN25 BSPT (1" NPT, 1¼"/DN32 BSPT, Grooved available on request)
Outlet Reducer	½", ¾", 1" (NPT or BSPT)
Approvals	FM

Product Information | Packaging

Each box of S-Flex hoses contains 10 sets, each of which contains the following:

- Flexible hose
- Inlet nipple: DN25 BSP (standard), refer to table below for other sizes
- Outlet Reducer
- Reducer support bracket (clasp type)
- Bar fixing clamp (1 pair)
- Support bar 1,000 mm (1,500 mm option)

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Trusted above all.

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Flexible Sprinkler Hoses | Braided | S-Flex VK-SB | Installation Instructions

The S-Flex 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 S-Flex 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 when using the S-Flex 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 S-Flex 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 local installation standards.
2. Install the 1" flexible hose inlet nipple to the sprinkler branch pipe. The hose should be detached from the nipple for this.
3. Attach the hose to the inlet nipple by first hand-tightening the slip nut. Do not apply any sealant between the hose and slip nut connection. Further tighten the slip nut with a 1/4 turn using a wrench (approximately 12 Nm). Excessive force can damage the o-ring inside the slip nut.
4. Assemble the side brackets to the ceiling grid and loosely tighten as shown in Figure 1. Slide the centre bracket onto the support bar and attach the side brackets. To allow for final adjustment, the bracket bolts should be hand tight only at this stage.
5. Bend the hose carefully observing the minimum bend radius so that the outlet reducer is in the correct location relative to the sprinkler location (Figure 2).
6. For a longer flexible hoses (1,200 mm and above), intermediate hose support is recommended to secure the movement of the hose.
7. Install the sprinkler head into the outlet reducer. If sprinkler protective caps are removed during installation, it is recommended to replace them after installation. Caps should be removed at the end of the installation project.
8. Verify that the outlet reducer is located in the correct position and then tighten the bracket by closing the clasp mechanism (Figures 3, 4, 5 and 6). Tighten the side bracket wing bolts.



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



Figure 6

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