



TECHNICAL DATA SHEET

MODEL AX1 ASPIRATED FOAM-WATER SPRINKLER (K3.0)

1. PRODUCT IDENTIFICATION

This document covers the following product, hereafter referred to as “sprinkler”:

AX1 Aspirated Foam-Water Sprinkler:

- Pendent, K3 (K43 metric) Sprinkler.
- Upright, K3 (K43 metric) Sprinkler.

2. INTENDED USE

The AX1 sprinklers are intended to be used in fixed overhead deluge systems that are primarily involve ignitable liquid fires. They are low-expansion foam devices that entrain air into the foam solution to give enhanced foam qualities to non-aspirated sprinklers.

Foam-water sprinklers are commonly used in high-risk areas, such as loading racks, diesel generator rooms, aircraft hangars, dangerous goods stores, and FPSOs.

The sprinklers must be used in accordance with:

1. the sprinklers' Listings, Approvals, and associated design requirements.
2. the recognized design and installations standards issued. For example: NFPA, FM, EN, VdS, or LPCB.
3. the latest revisions of all applicable manufacturer's documentation.



Governmental codes, ordinances, and standards may apply and may differ from one another.

WARNING

Cancer and Reproductive Harm www.P65Warnings.ca.gov

3. LISTING AND APPROVALS

Refer to section 6 for details and requirements that must be followed.



cULus Listed - VNWT.EX29570




SFFF Compatible: Refer to this product as bring part of a SFFF Foam System that has been tested to recognized standards. Not all configurations are available. Please consult technical data and/or the Approvals/Listings for usage requirements. **Note:** Other international approval certificates may be available upon request.


TECHNICAL DATA SHEET
**MODEL AX1 ASPIRATED
FOAM-WATER SPRINKLER
(K3.0)**
4. TECHNICAL SPECIFICATIONS
4.1 Ratings and Physical Characteristics

Parameter	Value
Minimum operating pressure	30 PSI (2.07 bar)*
Recommended working pressure	30 PSI (2.07 bar) to 70 PSI (4.83 bar)
Maximum rated pressure (UL)	175 PSI (12 bar)
Thread size	1/2" NPT (15 mm)
Nominal K-factor	3 U.S. (43 metric)**
Standard design coverage	100 feet ² (9.3 meters ²)
Sprinkler weight	Upright: 9.5 ounces (269 grams)
	Pendent: 9.4 ounces (266 grams)
Notes: *The minimum operating pressure may vary with the foam concentrate and fuel. **Metric K-Factor shown is for use when pressure is measured in bar. When pressure is measured in kPa, divide the metric K-Factor shown by 10.0.	

4.2 Standard Materials

Material Description	Material Value
Body	Brass Alloy CB491K
Deflector	Phosphor Bronze
Agitator	Stainless steel
Finish	Natural

	TECHNICAL DATA SHEET	MODEL AX1 ASPIRATED FOAM-WATER SPRINKLER (K3.0)
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4.3 Markings and Spray Angles

NOTE: Images are representative only. Your sprinkler deflector may vary in appearance.

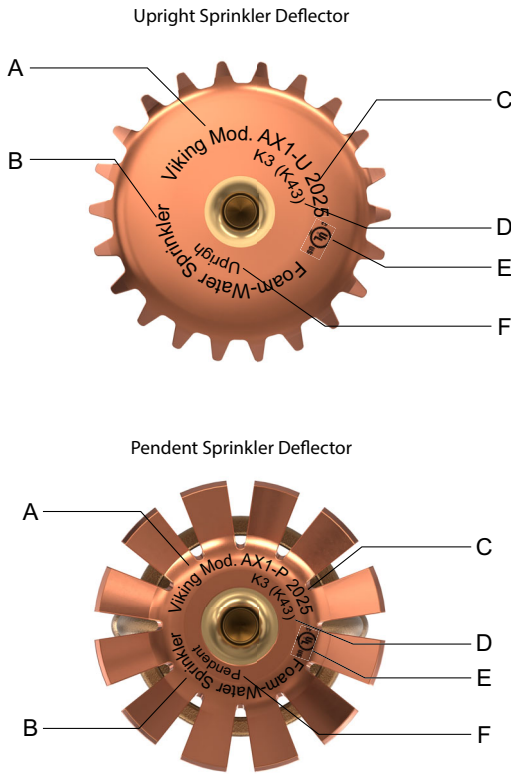


Figure – 1: Sprinkler Deflector Markings

Ref	Description	Sprinkler Markings
A	Sprinkler model	Viking Model AX1
B	Sprinkler type	Foam-Water Sprinkler
C	Year manufactured	2025
D	K-Factor (metric)	K3.0 (K43)
E	Listing	cULus
F	Sprinkler Orientation	Upright or Pendent

5. SPRINKLER NOMINAL DISCHARGE PATTERNS

The following graphs are intended to be representative only. Spray patterns may vary.

5.1 AX1-U and AX1-P Spray Pattern - Imperial

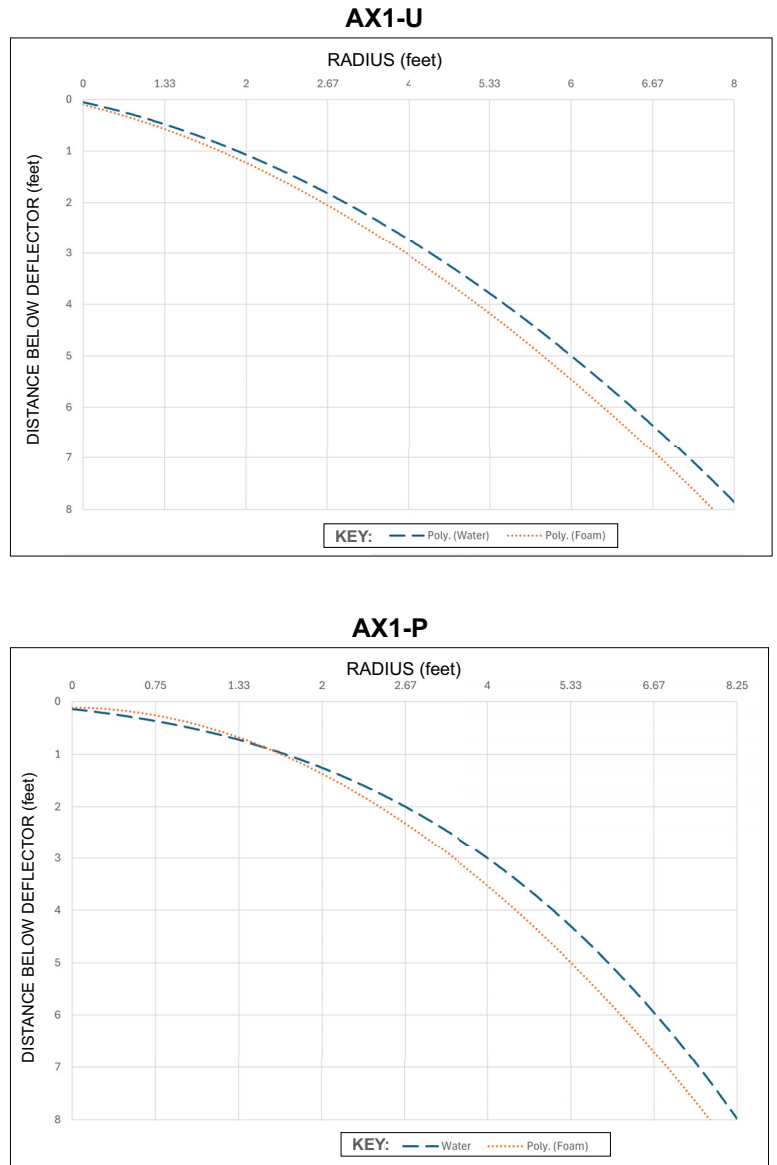


Figure – 2: AX1 Spray Patterns (Feet)



5.2 AX1-U and AX1-P Spray Pattern - Metric

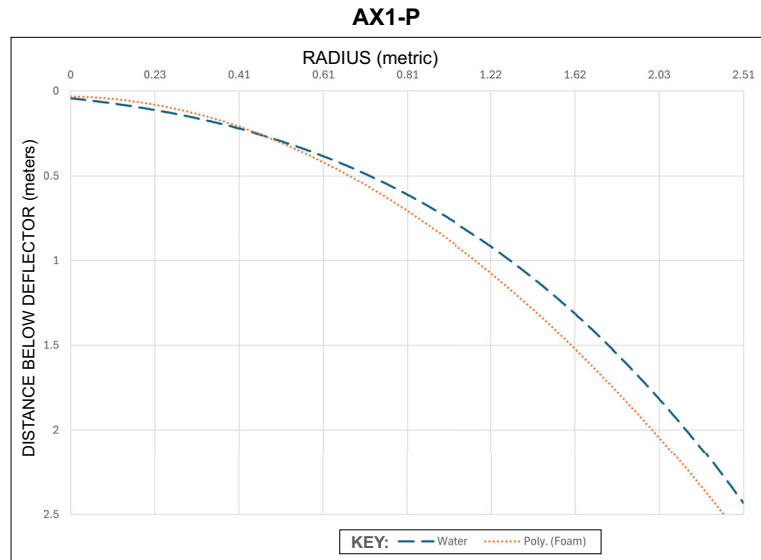
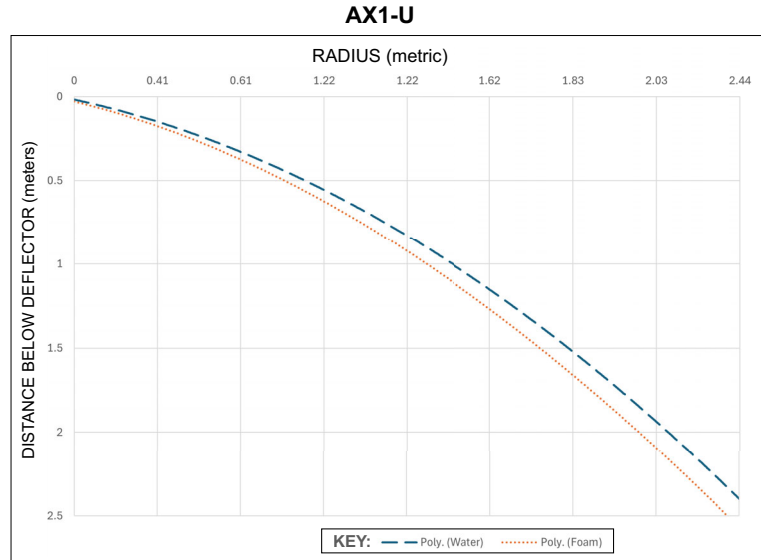


Figure – 3: AX1 Spray Patterns (Metric)

5.3 Sprinkler Dimensions

NOTE: Images are representative only. Your sprinkler may vary in appearance.

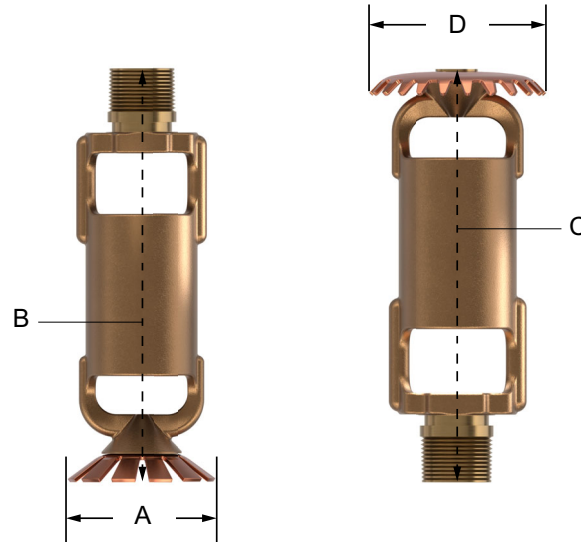


Figure – 4: Foam-Water Pendent and Upright Sprinkler Dimensions

Ref	Dimensions
A	1.84" (47 mm)
B	5.08" (129 mm)
C	4.80" (122 mm)
D	2.05" (52 mm)

6. LISTING AND APPROVAL DESIGN REQUIREMENTS

6.1 cULus Listing Requirements and Details

The AX1 foam-water upright and pendent sprinklers are cULus Listed (VNWT) for installation, as indicated on the UL Listing card and in accordance with the latest edition of NFPA 13 for standard spray sprinklers. The foam-water sprinkler is also UL Listed as part of a fire extinguishing system with specific foam liquid concentrates, as indicated on the individual foam liquid concentrate's UL Listing card. Listed system components can be found at <http://iq.ulprospector.com/en/>.

For more information, refer to the appropriate installation standards (i.e., NFPA, VdS, LPCB, etc.) and/or to the applicable FM Global Property Loss Prevention data sheets, such as 4-12, which is labeled Foam Extinguishing Systems.

6.2 Temperature Ratings

The foam-water sprinkler is an open deluge device that does not have specific available temperature ratings.


TECHNICAL DATA SHEET
**MODEL AX1 ASPIRATED
FOAM-WATER SPRINKLER
(K3.0)**
6.3 UL162 Foam Concentrate Listing Information

NOTE: Viking spray nozzles may be UL Listed or FM Approved for non-Fomtec foam concentrates.

1. UL Listings: Hydrocarbon Fuels - Heptane¹

Foam Concentrate	Nominal K-Factor		Sprinkler Type		Listed ² Foam Design Density		Tested ³ Sprinkler Pressure	
	U.S.	Metric ⁴	Upright	Pendent	GPM/ft ²	LPM/m ²	PSI	Bar
Fomtec Enviro USP 3%	3.0	43	AX1-U	AX1-P	0.16	6.5	30	2.07
Fomtec Enviro ARK 3%	3.0	43	AX1-U	AX1-P	0.16	6.5	30	2.07
Fomtec Enviro AX1 1%	3.0	43	AX1-U	AX1-P	0.16	6.5	30	2.07

1. This table shows approvals available at the time of printing.
2. Density indicated is minimum application density required per UL162 Standard for Foam Extinguishing Systems. This density cannot be reduced.
3. The pressure indicated is the minimum starting pressure required for the sprinkler. However, the minimum density shown overrides the minimum starting pressure (depending on head spacing) and cannot be reduced.
4. Metric K-factor shown is for use when pressure is measured in bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0.

2. UL Listings: Gasoline (Unleaded MOGAS 98 RON)¹

Foam Concentrate	Nominal K-Factor		Sprinkler Type		Listed ² Foam Design Density		Tested ³ Sprinkler Pressure	
	U.S.	Metric ⁴	Upright	Pendent	GPM/ft ²	LPM/m ²	PSI	Bar
Fomtec Enviro USP 3%	3.0	43	--	AX1-P	0.16	6.5	30	2.07

1. This table shows approvals available at the time of printing.
2. Density indicated is minimum application density required per UL162 Standard for Foam Extinguishing Systems. This density cannot be reduced.
3. The pressure indicated is the minimum starting pressure required for the sprinkler. However, the minimum density shown overrides the minimum starting pressure (depending on head spacing) and cannot be reduced.
4. Metric K-factor shown is for use when pressure is measured in bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0.

3. UL Listings: Jet A-1¹

Foam Concentrate	Nominal K-Factor		Sprinkler Type		Listed ² Foam Design Density		Tested ³ Sprinkler Pressure	
	U.S.	Metric ⁴	Upright	Pendent	GPM/ft ²	LPM/m ²	PSI	Bar
Fomtec Enviro USP 3%	3.0	43	AX1-U	AX1-P	0.16	6.5	30	2.07

1. This table shows approvals available at the time of printing.
2. Density indicated is minimum application density required per UL162 Standard for Foam Extinguishing Systems. This density cannot be reduced.
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4. Metric K-factor shown is for use when pressure is measured in bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0.


TECHNICAL DATA SHEET
**MODEL AX1 ASPIRATED
FOAM-WATER SPRINKLER
(K3.0)**
4. UL Listings: Ketones - Acetone¹

Foam Concentrate	Nominal K-Factor		Sprinkler Type		Listed ² Foam Design Density		Tested ³ Sprinkler Pressure	
	U.S.	Metric ⁴	Upright	Pendent	GPM/ft ²	LPM/m ²	PSI	Bar
Fomtec Enviro ARK 3%	3.0	43	--	AX1-P	0.16	6.5	30	2.07
	3.0	43	AX1-U	--	0.18	7.3	36	2.49

1. This table shows approvals available at the time of printing.
2. Density indicated is minimum application density required per UL162 Standard for Foam Extinguishing Systems. This density cannot be reduced.
3. The pressure indicated is the minimum starting pressure required for the sprinkler. However, the minimum density shown overrides the minimum starting pressure (depending on head spacing) and cannot be reduced.
4. Metric K-factor shown is for use when pressure is measured in bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0.

5. UL Listings: Alcohols - IPA¹

Foam Concentrate	Nominal K-Factor		Sprinkler Type		Listed ² Foam Design Density		Tested ³ Sprinkler Pressure	
	U.S.	Metric ⁴	Upright	Pendent	GPM/ft ²	LPM/m ²	PSI	Bar
Fomtec Enviro ARK 3%	3.0	43	--	AX1-P	0.16	6.5	30	2.07
	3.0	43	AX1-U	--	0.18	7.3	36	2.49

1. This table shows approvals available at the time of printing.
2. Density indicated is minimum application density required per UL162 Standard for Foam Extinguishing Systems. This density cannot be reduced.
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4. Metric K-factor shown is for use when pressure is measured in bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0.

6. UL Listings: Ethanol¹

Foam Concentrate	Nominal K-Factor		Sprinkler Type		Listed ² Foam Design Density		Tested ³ Sprinkler Pressure	
	U.S.	Metric ⁴	Upright	Pendent	GPM/ft ²	LPM/m ²	PSI	Bar
Fomtec Enviro ARK 3%	3.0	43	AX1-U	AX1-P	0.16	6.5	30	2.07

1. This table shows approvals available at the time of printing.
2. Density indicated is minimum application density required per UL162 Standard for Foam Extinguishing Systems. This density cannot be reduced.
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TECHNICAL DATA SHEET
**MODEL AX1 ASPIRATED
FOAM-WATER SPRINKLER
(K3.0)**
7. UL Listings: Methanol¹

Foam Concentrate	Nominal K-Factor		Sprinkler Type		Listed ² Foam Design Density		Tested ³ Sprinkler Pressure	
	U.S.	Metric ⁴	Upright	Pendent	GPM/ft ²	LPM/m ²	PSI	Bar
Fomtec Enviro ARK 3%	3.0	43	AX1-U	AX1-P	0.16	6.5	30	2.07

1. This table shows approvals available at the time of printing.
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3. The pressure indicated is the minimum starting pressure required for the sprinkler. However, the minimum density shown overrides the minimum starting pressure (depending on head spacing) and cannot be reduced.
4. Metric K-factor shown is for use when pressure is measured in bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0.

8. UL Listings: Esters - N-Butyl Acetate¹

Foam Concentrate	Nominal K-Factor		Sprinkler Type		Listed ² Foam Design Density		Tested ³ Sprinkler Pressure	
	U.S.	Metric ⁴	Upright	Pendent	GPM/ft ²	LPM/m ²	PSI	Bar
Fomtec Enviro ARK 3%	3.0	43	AX1-U	--	0.16	6.5	30	2.07

1. This table shows approvals available at the time of printing.
2. Density indicated is minimum application density required per UL162 Standard for Foam Extinguishing Systems. This density cannot be reduced.
3. The pressure indicated is the minimum starting pressure required for the sprinkler. However, the minimum density shown overrides the minimum starting pressure (depending on head spacing) and cannot be reduced.
4. Metric K-factor shown is for use when pressure is measured in bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0.

7. ORDERING PROCEDURE

7.1 Sprinkler

1. Select the desired sprinkler part number.

NOTE: Each Model AX1 part number orders a quantity of one (1) sprinkler. When shipped, one package can hold up to ten (10) sprinklers.

Model/Part Number	Description
AX1-3VB-U	1/2" NPT upright
AX1-3VB-P	1/2" NPT pendent

8. ACCESSORIES



Figure – 5: Model AX1 Accessories

Ref.	Part Number	Description
1)	21475M/B	Standard wrench (USA)
2)	23559MB	Standard wrench (EMEA/APAC)

9. CONTACT

The sprinkler and accessories are available through Viking distributors only. Contact your local Viking sales office which can be found on our website:

Americas and Asia: www.vikinggroupinc.com/locations OR Europe, Middle East, Africa (EMEA): www.viking-emea.com/contact

Distributor:

The Viking Corporation
5150 Beltway SE
Caledonia, MI 49316
Tel.: (800) 968-9501
Fax: 269-818-1680
Technical Services: 1-877-384-5464
techsvcs@vikingcorp.com

Distributor EU:

Viking S.A.
21, Z.I. Haneboesch
L-4562 Differdange / Nieder Korn
Tel.: +352 58 37 37 - 1
Fax: +352 58 37 36
vikinglux@viking-emea.com

Distributor Asia Pacific (APAC):

The Viking Corporation (Far East) Pte. Ltd.
69 Tuas View Square
Westlink Techpark, Singapore 637621
Tel: (+65) 6 278 4061
Fax: (+65) 6 278 4609
vikingAPAC@vikingcorp.com


**HANDLING AND
INSTALLATION
INSTRUCTIONS**
**MODEL AX-1 ASPIRATED
FOAM-WATER SPRINKLERS**

	bg	Инсталирайте и пуснете продукта в експлоатация само ако следната инструкция е ясно разбрана.	lv	Produkta iemontēšanu un ekspluatācijas sākšanu veikt tikai tad, ja dotā instrukcija ir pilnībā saprasta.
	cs	Namontujte a spust'te do provozu produkt pouze tehdy, když jste jasně pochopili tento návod.	lt	Produktą montuokite ir pradėkite eksploatuoti tik tuomet, jei aiškiai suprantate šią instrukciją.
	de	Du må kun montere og idriftsætte produktet, hvis du har forstået følgende vejledning til fulde.	mt	Installa u ħaddem il-prodott biss jekk l-istruzzjonijiet li ġejjin jinftiehm u b'mod ċar.
	de	Produkt nur einbauen und in Betrieb nehmen, wenn die nachfolgende Anleitung klar verstanden wird.	nl	Product alleen installeren en in gebruik nemen, als de volgende instructies begrepen zijn.
	el	Η εγκατάσταση και θέση σε λειτουργία του προϊόντος επιτρέπονται μόνο εάν οι ακόλουθες οδηγίες έχουν γίνει κατανοητές.	no	Ikke installer og ta i bruk produktet uten at følgende anvisninger er tydelig forstått.
	en	Do not install and commission the product unless you have clearly understood the instructions below.	pl	Produkt należy montować i uruchamiać tylko wtedy, gdy poniższe instrukcje są w pełni zrozumiałe.
	es	Instalar el producto y ponerlo en funcionamiento solo cuando se hayan comprendido claramente las siguientes instrucciones.	pt	Instalar e colocar o produto em funcionamento somente se as instruções a seguir forem claramente compreendidas.
	et	Paigaldage toode ja kasutage seda ainult siis, kui saate alljärgnevast juhendist selgelt aru.	ro	Montați produsul și puneți-l în funcțiune numai dacă instrucțiunea următoare este înțelesă clar.
	fi	Tuotteen saa asentaa ja ottaa käyttöön vain, jos jäljempänä oleva ohje ymmärretään selvästi.	ru	Не устанавливайте и не принимайте оборудование в эксплуатацию, если вы четко не поняли инструкции ниже
	fr	N'installer et ne mettre en service le produit que si les instructions suivantes ont été clairement comprises.	sk	Namontujte a spustite do prevádzky výrobok iba vtedy, pokiaľ ste jasne pochopili tento návod.
	ga	Ná déan an táirge a shuiteail agus a choimisiunu mura dtuigeann tu na teoracha thíos go soileir.	sl	Izdelek vgradite in zaženite samo, če ste dobro razumeli navodila v nadaljevanju.
	hr	Ne instalirajte i ne puštajte proizvod u rad ako niste jasno razumjeli donje upute.	sr	Не инсталирајте и не пуштајте производ у рад ако нисте јасно разумели упутства у наставку.
	hu	Csak akkor építse be a terméket és helyezze üzembe, ha a következő útmutatót egyértelműen megértette.	sv	Montera och driftsätt produkten endast om du förstår den efterföljande instruktionen.
	is	Settu ekki upp eða taktu vöruna í notkun nema þú hafir skilið greinilega leiðbeiningarnar hér að neðan.	tr	Aşağıdaki talimatları açıkça anlamadan ürünü kurmayın ve devreye almayın.
	it	Montare il prodotto e metterlo in funzione solo se si sono comprese appieno le seguenti istruzioni.		

**HANDLING AND
INSTALLATION
INSTRUCTIONS****MODEL AX-1 ASPIRATED
FOAM-WATER SPRINKLERS****1. PRODUCT IDENTIFICATION**

This document covers the following products, hereafter referred to as “sprinkler”:

MODEL AX-1 ASPIRATED FOAM-WATER SPRINKLERS

2. OTHER APPLICABLE DOCUMENTS

For intended use and relevant conditions for the safe use of the specific sprinkler refer to the appropriate *Technical Data Sheet* and *Operation and Maintenance Instructions*.

3. TRANSPORT AND HANDLING**⚠ WARNING**

A damaged or compromised sprinkler poses the risk of fatal consequences.

Damaged or compromised sprinklers will not operate properly which could lead to loss of life.

- NEVER use a sprinkler that has been dropped or damaged.
- ALWAYS Protect the sprinkler from mechanical damage during storage, transport, and handling.
- NEVER use sprinklers that have been painted by anyone other than the manufacturer.
- ALWAYS protect sprinklers from being painted during installation or replacement in accordance with the installation standards.
- NEVER clean sprinklers with anything other than 7 psi or lower compressed air.
- NEVER apply soap, water, ammonia, adhesives, solvents or any other fluids on sprinklers.
- Destroy every damaged or compromised sprinkler.

NOTICE

Protect sprinklers during transport and handling.

- ALWAYS handle the sprinkler with care.
- ALWAYS store sprinkler in a cool, dry, protected area.
- ALWAYS use original manufacturer’s shipping containers.
- NEVER store a sprinkler loose in a box, bin, bucket, or other type of container.
- ALWAYS keep the sprinkler separated from other sprinklers.



HANDLING AND INSTALLATION INSTRUCTIONS

MODEL AX-1 ASPIRATED FOAM-WATER SPRINKLERS

4. INSTALLATION

⚠ WARNING

Installation by insufficiently qualified personnel poses the risk of fatal consequences.

- This sprinkler must be installed properly by qualified personnel familiar with safe practices and applicable and recognized design and installation standards issued, for example, by NFPA, FM, VdS, or LPCB, and trained how to properly perform the installation procedures.
- Use **ONLY** the approved wrench to install the sprinkler.
- Refer to the sprinkler's Technical Data Sheet.

⚠ CAUTION

Cutting Hazard.

Sprinklers, accessories, cabinets, and packaging can have sharp edges that can cause cuts.

- Wear appropriate personal protective equipment (gloves) while handling product.

NOTICE

Over-tightening the sprinkler can cause permanent damage.

- Tighten up to a maximum torque of 14 ft-lbs (19 Nm).
 - Do not use the deflector to start threading the sprinkler into a fitting.
1. Install all required piping in the intended installation location.
 2. Verify that the sprinkler model/style and K-factor are appropriate for the intended installation location. See Table 1 and Figure 5.
 3. Inspect the sprinkler for damage. Destroy every damaged or compromised sprinkler. The following are examples in which sprinklers are considered damaged or compromised. Replace the sprinkler in the following cases:
 - Sprinklers that have been field painted, caulked, or mechanically damaged.
 - Sprinklers showing signs of corrosion.
 4. Apply a small amount of pipe-joint compound or tape to the external threads of the sprinkler only. Do not allow a build-up of compound inside the sprinkler inlet.

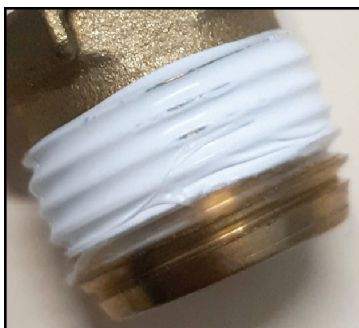



Figure – 1: Taping the Threads

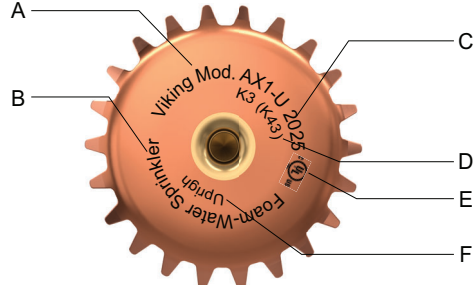
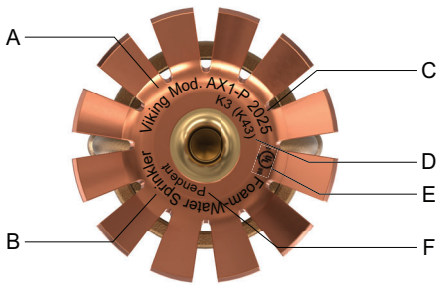
	HANDLING AND INSTALLATION INSTRUCTIONS	MODEL AX-1 ASPIRATED FOAM-WATER SPRINKLERS
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- Using ONLY the approved wrench, tighten the sprinkler as necessary. Do not exceed the maximum torque specified above.



Figure – 2: Installing the Sprinkler Using the Wrench

- Refer to the applicable system documentation, regulations, and standards to ensure compliance.

Table 1: Sprinkler Markings		
Ref	Parameter	
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Upright Sprinkler Deflector</p>  </div> <div style="text-align: center;"> <p>Pendent Sprinkler Deflector</p>  </div> </div>		
A	Sprinkler model	Viking Model AX-1
B	Sprinkler type	Foam-Water Sprinkler
C	Year manufactured	2025
D	K-Factor (metric)	K3.0 (K43)
E	Listing	cULus
F	Sprinkler Orientation	Upright or Pendent



HANDLING AND INSTALLATION INSTRUCTIONS

MODEL AX-1 ASPIRATED FOAM-WATER SPRINKLERS

5. CONTACT

The sprinkler and accessories are available through Viking distributors only. Contact your local Viking sales office which can be found on our website:

Americas and Asia: www.vikinggroupinc.com/locations OR Europe, Middle East, Africa (EMEA): www.viking-emea.com/contact

Distributor:

The Viking Corporation
5150 Beltway SE
Caledonia, MI 49316
Tel.: (800) 968-9501
Fax: 269-818-1680
Technical Services: 1-877-384-5464
techsvcs@vikingcorp.com

Distributor EU:

Viking S.A.
21, Z.I, Haneboesch
L-4562 Differdange / Niederkorn
Tel.: +352 58 37 37 – 1
Fax: +352 58 37 36
vikinglux@viking-emea.com

Distributor Asia Pacific (APAC):

The Viking Corporation (Far East) Pte. Ltd.
69 Tuas View Square
Westlink Techpark, Singapore 637621
Tel: (+65) 6 278 4061
Fax: (+65) 6 278 4609
vikingAPAC@vikingcorp.com



OPERATION AND MAINTENANCE INSTRUCTIONS

MODEL AX-1 ASPIRATED FOAM-WATER SPRINKLER

1. PRODUCT IDENTIFICATION

This document covers the following product, hereafter referred to as “sprinkler.”

MODEL AX-1 ASPIRATED FOAM-WATER SPRINKLER

WARNING

Cancer and Reproductive Harm www.P65Warnings.ca.gov

2. OTHER APPLICABLE DOCUMENTS

For intended use and relevant conditions for the safe use of the specific sprinkler, refer to the appropriate Technical Data Sheet. In case an installed sprinkler needs to be replaced, refer to the appropriate Handling and Installation Instructions for the new sprinkler installation.

3. MAINTAINING OPERATIONAL READINESS

Functionality

When the system operates, the foam/water solution flowing through the sprinkler orifice strikes the sprinkler deflector, forming a uniform spray pattern to control or extinguish the fire.

WARNING

This section contains important safety information. Read and follow all information.

Damaged or Compromised Sprinklers

Damaged or compromised sprinklers will not operate properly which could lead to loss of life.

- NEVER clean, paint, or caulk sprinklers.
- NEVER apply soap, water, ammonia, adhesives, solvents, or any other fluids on sprinklers.
- ALWAYS replace a compromised or damaged sprinkler.
- NEVER attempt to repair or reassemble a sprinkler.
- ALWAYS replace operated sprinklers exposed to corrosive by-products of combustion.
- Sprinkler replacement must only be performed following the instructions in section 4.

The following are examples in which sprinklers are considered damaged or compromised. Replace the sprinkler(s) in the following cases:

- Sprinklers that have been field painted, caulked, or mechanically damaged.
- Sprinklers showing signs of extraordinary corrosion.

Obstructions and Obstacles

Obstructions and obstacles may compromise sprinkler discharge patterns, which are critical for proper fire protection.

- NEVER attach items to a sprinkler or hang items from the ceiling in an area protected with them.
- NEVER install walls in areas protected with sprinklers without having a specialized company verifying the design of the sprinkler system.
- ALWAYS remove obstructions and obstacles to sprinkler spray patterns.
- Sprinkler systems that have been subjected to a fire.
- Sprinkler systems that have been subjected to a fire must be returned to service as soon as possible.
- After an event of fire, the entire sprinkler system must be inspected for damage and repaired as necessary.
- Refer to the minimum requirements of the Authority Having Jurisdiction (AHJ) for replacement of sprinklers.
- Consider the employment of a fire patrol as long as the sprinkler system is out of service.



OPERATION AND MAINTENANCE INSTRUCTIONS

MODEL AX-1 ASPIRATED FOAM-WATER SPRINKLER

Inspections and testing

The owner is responsible for having the sprinklers inspected and tested according to standards of the applicable approval body and to the requirements of the AHJ to maintain proper operating condition of the system.

- Sprinklers must be inspected on a regular basis for corrosion, mechanical damage, obstructions, paint, etc. Frequency of inspections may vary due to corrosive atmospheres, water supplies, and activity around the sprinkler.

The applicable approval body or AHJ may require sprinklers to be replaced after a specified term of service.

- Refer to the standards of the applicable approval body, such as NFPA, FM, VdS, or LPCB, and the requirements of the AHJ for detailed inspection, testing and replacements requirements.

Sprinklers removed from the system for testing or for any other purpose must be replaced according to section 4.

4. REMOVAL AND REPLACEMENT

⚠ WARNING

Removal and replacement of sprinklers by insufficiently qualified personnel poses the risk of fatal consequences in case of fire.

- Removal or replacement of sprinklers must be performed by qualified personnel familiar with safe practices and applicable and recognized design and installation standards issued, for example, by NFPA, FM, VdS, or LPCB, and trained how to properly perform the installation procedures.

⚠ WARNING

Removal and replacement of sprinklers will temporarily eliminate the fire protection capabilities of the sprinkler system.

- Consider the employment of a fire patrol in the affected area.
- Prior to proceeding, notify all AHJs.

⚠ WARNING

Re-installation of a removed sprinkler may compromise the operational safety of the sprinkler system.

- **NEVER** reinstall a removed sprinklers.
- **ALWAYS** use a new sprinkler for replacement.

1. Select new sprinklers with identical performance characteristics, as well as respective accessories, such as escutcheons, cover plates, and protective caps. A stocked spare sprinkler cabinet may be provided for this purpose on-site.
2. According to appropriate system description and/or valve instructions, remove the system from service, drain all water, and relieve all pressure on the piping.
3. Install the new sprinkler by following its Handling and Installation Instructions.
4. Place the system back in service and secure all valves.
5. Check for and repair all leaks.



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5. DISPOSAL

At end of use the product described here should be disposed of via the national recycling system.

6. CONTACT

The sprinklers are available through Viking distributors only. Contact your local Viking sales office, which can be found on our website:

Americas and Asia: www.vikinggroupinc.com/locations OR Europe, Middle East, Africa (EMEA):
www.viking-emea.com/contact

Distributor:

The Viking Corporation
5150 Beltway SE
Caledonia, MI 49316
Tel.: (800) 968-9501
Fax: 269-818-1680
Technical Services: 1-877-384-5464
techsvcs@vikingcorp.com

Distributor EU:

Viking S.A.
21, Z.I. Haneboesch
L-4562 Differdange / Niederkorn
Tel.: +352 58 37 37 – 1
Fax: +352 58 37 36
vikinglux@viking-emea.com

Distributor Asia Pacific (APAC):

The Viking Corporation (Far East) Pte. Ltd.
69 Tuas View Square
Westlink Techpark, Singapore 637621
Tel: (+65) 6 278 4061
Fax: (+65) 6 278 4609
vikingAPAC@vikingcorp.com