



TECHNICAL BULLETIN

INSTASEAL® WELDED SPRINKLER FITTINGS - COMPATIBLE SPRINKLERS AND ACCESSORIES

1. DESCRIPTION

This bulletin shows all Viking NPT sprinklers and associated accessories that are available to be used with the Model IS-W2 InstaSeal® Welded Sprinkler Fittings as well as the associated tools for aligning the sprinkler frame arms.

Always refer to the sprinkler's technical data page and the InstaSeal installation instructions for important installation information.



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- 3.1: 1" NPT Sprinklers
- 3.2: 1" NPT Sprinklers with Guards Factory-Installed
- 3.3: 3/4" NPT ESFR Sprinklers
- 3.4: 3/4" NPT ELO Sprinklers
- 3.5: 1" NPT Model XT1 Sprinklers (K5.6 & K8.0) (Tenant Fit-out Sprinklers)
- 3.6: 3/4" NPT Model XT1 Sprinklers (K8.0)
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- 3.9: Flexible Sprinkler and Hose Assemblies
- 3.10: IS-W2 Repair Kit

2. LISTINGS AND APPROVALS

For Listing and Approval specifications, refer to the applicable product's technical data sheet.

CAUTION

DO NOT USE sprinkler wrenches with the InstaSeal fittings.

NOTICE

NFPA 25 requires that one sprinkler wrench as specified by the sprinkler manufacturer shall be provided for each type of sprinkler installed to be used for the removal and installation of sprinklers in the system.

In order to meet this criteria, Viking recommends providing the applicable alignment tool in the sprinkler cabinet for each type of sprinkler installed in the InstaSeal fittings.



3. IS-W2 COMPATIBLE SPRINKLERS

Refer to the applicable category below for sprinklers that are compatible for installation into IS-W2 fittings.

3.1 1" NPT Sprinklers

SIN	Part Number (NPT)	Temperature	Thread Size	Description	Alignment Tool	Repair Kit Part Number ¹
VK506	18493AC-TQ	165 °F	1" NPT	ESFR, K22	24838 (1" side)	26595
	18493AE-TQ	205 °F			26610 (Side B) 27829 (Side B) ²	
VK510	12080AC-TQ	165 °F	1" NPT	ESFR, K25	24838 (1" side)	
	12080AE-TQ	205 °F			26610 (Side B) 27829 (Side B) ²	
VK514	22894AC-TQ	165 °F	1" NPT	ESFR, K28	24838 (1" side)	
	22894AE-TQ	205 °F			26610 (Side B) 27829 (Side B) ²	
VK526	23823AC	165 °F	1" NPT	Standard Response, Extended Coverage, CMDA, K28	27829 (Side B) ²	
	23823AE	205 °F				
VK592	14243AC-TQ	160 °F	1" NPT	CMSA, K19.6	24838 (1" side)	
	14243AE-TQ	205 °F			26610 (Side B)	
VK595	16859AC-TQ	165 °F	1" NPT	CMDA/ CMSA, 25.2	26834	
	16859AE-TQ	212 °F				
	16885AC-TQ	165 °F				
	16885AE-TQ	212 °F				
VK598	19522AB-TQ	155 °F	1" NPT	Standard, K25.2	24838 (1" side)	
	19522AD-TQ	175 °F			26610 (Side B)	
	19522AE-TQ	200 °F				
	19522AG-TQ	286 °F				
VK514 1	25247AB-TQ	155 °F	1" NPT	ESFR, K28	24838 (1" side)	
	25247AE-TQ	200 °F			26610 (Side B)	

¹ IS-W2 repair kit includes gasket removal tool (1), push-rod (1), nozzle (1), and 1" gaskets (6). Refer to Figure 1 below.

² Also for use with a sprinkler that has an ES series Water Shield installed.



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3.2 1" NPT Sprinklers with Guards Factory-Installed

For installation instructions, refer to document F_021223.

SIN	Part Number (NPT)	Temperature	Thread Size	Description	Alignment Tool	Repair Kit Part Number ¹
VK506	18493ACG	165 °F	1" NPT	ESFR, K22	--	26595
	18493AEG	205 °F				
VK510	12080ACG	165 °F	1" NPT	ESFR, K25		
	12080AEG	205 °F				
VK514	22894AC-G	165 °F	1" NPT	ESFR, K28		
	22894AEG	205 °F				
¹ IS-W2 repair kit includes gasket removal tool (1), push-rod (1), nozzle (1), and 1" gaskets (6). Refer to Figure 1 below.						

3.3 3/4" NPT ESFR Sprinklers

SIN	Part Number (NPT)	Temperature	Thread Size	Description	Alignment Tool	Repair Kit Part Number ¹
VK500	10284AC-TQ	165 °F	3/4" NPT	ESFR, K14	24838 (3/4" side)	26596
	10284AE-TQ	205 °F				
	27393AC-TQ	165 °F	3/4" NPT	ESFR, K14	26610 (Side C) 27829 (Side C) ²	
	27393AE-TQ	205 °F				
VK503	14073AC-TQ	165 °F	3/4" NPT	ESFR, K16.8	24838 (3/4" side)	
	14073AE-TQ	205 °F				
	27394AC-TQ	165 °F	3/4" NPT	ESFR, K16.8	26610 (Side C) 27829 (Side C) ²	
	27394AE-TQ	205 °F				
¹ IS-W2 repair kit includes gasket removal tool (1), push-rod (1), nozzle (1), and gaskets (6). Refer to Figure 1 below. ² For use with a sprinkler that has an ES series Water Shield installed.						



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3.4 3/4" NPT ELO Sprinklers

SIN	Base Part Number ¹ (NPT)	Finish	Temperature	Thread Size	Description	Alignment Tool	Repair Kit Part Number ²
VK377	08337XX-TQ	All finishes	All temperatures	3/4" NPT	ELO, Quick Response Pendent K11.2 CMDA	26677	26596
VK536	07961XX-TQ	All finishes except wax coated	All temperatures	3/4" NPT	ELO, Standard Response Pendent K11.2 CMDA	26677	
VK530	09679XX-TQ	All finishes except wax coated	All temperatures	3/4" NPT	ELO, Standard Response Upright K11.2 CMDA	26677	
VK531	10633XX-TQ	All finishes	All temperatures	3/4" NPT	ELO, Quick Response Upright K11.2 CMDA	26677	

¹ Where "XX" shows in the base part number, enter the suffixes for the desired finish and temperature. Refer to the applicable sprinkler's technical data.

² IS-W2 repair kit includes gasket removal tool (1), push-rod (1), nozzle (1), and gaskets (6). Refer to Figure 1 below.

3.5 1" NPT Model XT1 Sprinklers (K5.6 & K8.0) (Tenant Fit-out Sprinklers)

SIN	Base Part Number ¹ (NPT)	Finish	Temperature	Thread Size	Description	Alignment Tool	Repair Kit Part Number ²
VK1003	27205XX	All finishes	All temperatures	1" NPT	Standard Response Upright	26676	26596
VK1023	27204XX	All finishes	All temperatures	1" NPT	Standard Response Pendent	26676	
VK2003	27203XX	All finishes	All temperatures	1" NPT	Standard Response Upright	26676	
VK2023	27202XX	All finishes	All temperatures	1" NPT	Standard Response Pendent	26676	
VK3003	27109XX	All finishes	All temperatures	1" NPT	Quick Response Upright	26676	
VK3023	27108XX	All finishes	All temperatures	1" NPT	Quick Response Pendent	26676	
VK3503	27107XX	All finishes	All temperatures	1" NPT	Quick Response Upright	26676	
VK3523	27106XX	All finishes	All temperatures	1" NPT	Quick Response Pendent	26676	

¹ Where "XX" shows in the base part number, enter the suffixes for the desired finish and temperature. Refer to the applicable sprinkler's technical data.

² IS-W2 repair kit includes gasket removal tool (1), push-rod (1), nozzle (1), and 1" gaskets (6). Refer to Figure 1 below.

3.6 3/4" NPT Model XT1 Sprinklers (K8.0)

SIN	Base Part Number ¹ (NPT)	Finish	Temperature	Thread Size	Description	Alignment Tool	Repair Kit Part Number ²
VK2001	23875XX	All finishes	All temperatures	3/4" NPT	Standard Response Upright	26676	26596
VK2021	23876XX	All finishes	All temperatures	3/4" NPT	Standard Response Pendent	26676	
VK3501	23877XX	All finishes	All temperatures	3/4" NPT	Quick Response Upright	26676	
VK3521	23878XX	All finishes	All temperatures	3/4" NPT	Quick Response Pendent	26676	

¹ Where "XX" shows in the base part number, enter the suffixes for the desired finish and temperature. Refer to the applicable sprinkler's technical data.

² IS-W2 repair kit includes gasket removal tool (1), push-rod (1), nozzle (1), and gaskets (6). Refer to Figure 1 below.



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3.7 1/2" NPT Model XT1 Sprinklers (K5.6)

SIN	Base Part Number ¹ (NPT)	Finish	Temperature	Thread Size	Description	Alignment Tool	Repair Kit Part Number ²
VK1001	23867XX	All finishes	All temperatures	1/2" NPT	Standard Response Upright	26676	26597
VK1021	23868XX	All finishes	All temperatures	1/2" NPT	Standard Response Pendent	26676	
VK3001	23869XX	All finishes	All temperatures	1/2" NPT	Quick Response Upright	26676	
VK3021	23870XX	All finishes	All temperatures	1/2" NPT	Quick Response Pendent	26676	

¹ Where "XX" shows in the base part number, enter the suffixes for the desired finish and temperature. Refer to the applicable sprinkler's technical data.

² IS-W2 repair kit includes gasket removal tool (1), push-rod (1), nozzle (1), and gaskets (6). Refer to Figure 1 below.

3.8 Residential Sprinklers

SIN	Base Part Number ¹	Finish	Temperature	Thread Size	Description	Alignment Tool	Repair Kit Part Number ²
VK430	09530XX-TQ	All finishes	All temperatures	1/2" NPT	Residential Pendent, K4.3	27760	26597
VK466	13781XX-TQ	All finishes	All temperatures	1/2" NPT	Residential Pendent, K5.2		
VK468	13637XX-TQ	All finishes	All temperatures	1/2" NPT	Residential Pendent, K4.9		
VK470	17147XX-TQ	All finishes	All temperatures	1/2" NPT	Residential Pendent, K3.0		
VK471	25642XX-TQ	All finishes	All temperatures	1/2" NPT	Residential Pendent, K3.7		
VK472	16130XX-TQ	All finishes	All temperatures	1/2" NPT	Residential Pendent, K5.8		
VK460	13933XX-TQ	All finishes	All temperatures	1/2" NPT	Residential Horizontal Sidewall, K5.8		
VK479	19707XX-TQ	All finishes	All temperatures	1/2" NPT	Residential Horizontal Sidewall, K3.0		
VK486	17315XX-TQ	All finishes	All temperatures	1/2" NPT	Residential Horizontal Sidewall, K4.0		
VK458	13230XX-TQ	All finishes	All temperatures	3/4" NPT	Residential Pendent, K7.4	27760	26596

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SIN	Base Part Number ¹	Finish	Temperature	Thread Size	Description	Alignment Tool	Repair Kit Part Number ²
Lead Free Residential Sprinklers							
VK4660	16875XX-TQ	All finishes	All temperatures	1/2" NPT	Residential Pendent, K5.2	27760	26597
VK4700	17492XX-TQ	All finishes	All temperatures	1/2" NPT	Residential Pendent, K3.0		
VK4860	18089XX-TQ	All finishes	All temperatures	1/2" NPT	Residential Horizontal Sidewall, K4.0		
¹ Where “XX” shows in the base part number, enter the suffixes for the desired finish and temperature. Refer to the applicable sprinkler’s technical data.							
² IS-W2 repair kit includes gasket removal tool (1), push-rod (1), nozzle (1), and gaskets (6). Refer to Figure 1 below.							

3.9 Flexible Sprinkler and Hose Assemblies

SIN	Base Part Number ¹ (NPT)	Finish	Temperature	Thread Size	Description	Alignment Tool	Repair Kit Part Number ²
VK970	27173XX	All finishes	All temperatures	1" NPT	Quick Response Sprinkler and Flexible Hose Assembly	None	26595
VK971	27535XX	All finishes	All temperatures	1" NPT	Quick Response Concealed Sprinkler and Flexible Hose Assembly	None	
VK972	27663XX	All finishes	All temperatures	1" NPT	Standard Response Concealed Sprinkler and Hose Assembly	None	
SuperFlex® Hose	H36SFXX	All sizes		1" NPT	SuperFlex Hose	Not applicable	

¹ Where “XX” shows in the base part number, enter the suffixes for the desired finish and temperature and length. Refer to the applicable sprinkler’s technical data.

² IS-W2 repair kit includes gasket removal tool (1), push-rod (1), nozzle (1), and gaskets (6). Refer to Figure 1 below.

*SuperFlex is a registered trademark of ASC Engineered Solutions, LLC.

3.10 IS-W2 Repair Kit

NOTE: Item sizes vary by kit part number.

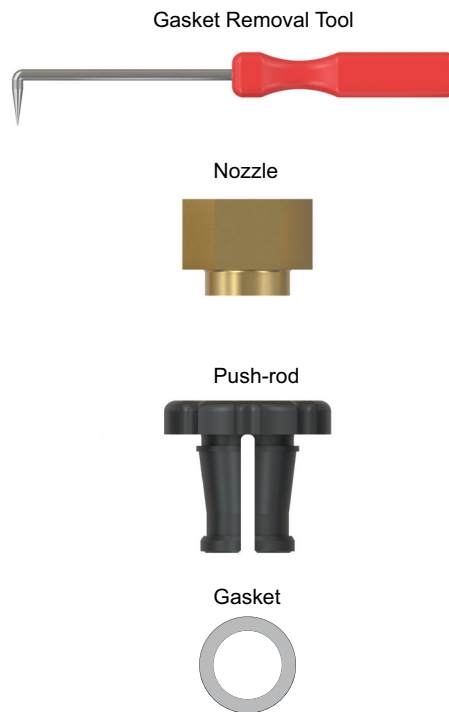


Figure – 1: Repair Kit Components