VIKING®

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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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) 26610 (Side B) 27829 (Side B)[2]	26595
	18493AE-TQ	205 °F				
VK510	**12080AC-TQ**	165 °F	1" NPT	ESFR, K25	24838 (1" side) 26610 (Side B) 27829 (Side B)[2]	
	12080AE-TQ	205 °F				
VK514	**22894AC-TQ**	165 °F	1" NPT	ESFR, K28	24838 (1" side) 26610 (Side B) 27829 (Side B)[2]	
	22894AE-TQ	205 °F				
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				
	19522AE-TQ	200 °F			26610 (Side B)	
	19522AG-TQ	286 °F				
VK5141	**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.

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.

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	**27205**XX	All finishes	All temperatures	1" NPT	Standard Response Upright	26676	26595
VK1023	**27204**XX	All finishes	All temperatures	1" NPT	Standard Response Pendent	26676	
VK2003	**27203**XX	All finishes	All temperatures	1" NPT	Standard Response Upright	26676	
VK2023	**27202**XX	All finishes	All temperatures	1" NPT	Standard Response Pendent	26676	
VK3003	**27109**XX	All finishes	All temperatures	1" NPT	Quick Response Upright	26676	
VK3023	**27108**XX	All finishes	All temperatures	1" NPT	Quick Response Pendent	26676	
VK3503	**27107**XX	All finishes	All temperatures	1" NPT	Quick Response Upright	26676	
VK3523	**27106**XX	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	**23875**XX	All finishes	All temperatures	3/4" NPT	Standard Response Upright	26676	26596
VK2021	**23876**XX	All finishes	All temperatures	3/4" NPT	Standard Response Pendent	26676	
VK3501	**23877**XX	All finishes	All temperatures	3/4" NPT	Quick Response Upright	26676	
VK3521	**23878**XX	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.

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.

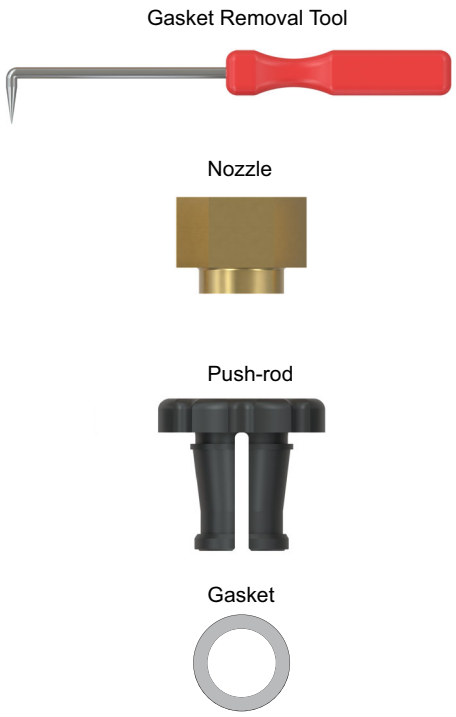


Figure – 1: Repair Kit Components