

Water Products | Asia

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## Standard Response | Bulb

	Pendent	Upright	Conventional	Pendent	Upright	
	VK1021 <sup>A</sup>	VK1001 <sup>A</sup>	VK1181 <sup>A</sup>	VK102 <sup>B</sup>	VK100 <sup>A</sup>	
K -5.6/80.6 ½"NPT/15mmBSP		00 20 20 20 20 20 20 20 20 20 20 20 20 2				
Temperature	57-141°C / 135-286°F	57-141°C / 135-286°F	57-141°C / 135-286°F	57-260°C / 135-500°F	57-260°C / 135-500°F	
Working Pressure	250 psi / 17 bar	250 psi / 17 bar	175 psi / 12 bar	175 psi / 12 bar	175 psi / 12 bar	
Wrench**	23559MB	23559MB	23559MB	21475M/B	21475M/B	
Tech Datasheet	F_102520	F_102420	F_102720	F_031414	F_052014	
	VK2021 <sup>A</sup>	VK2001 <sup>A</sup>	VK1201 <sup>A</sup>	VK202 <sup>B</sup>	VK200 <sup>B</sup>	
K - 8.0/ 115.2 ¾"NPT/20mmBSP					اب ۱۹ ۱۹ ۱۹ ۱۹	
Temperature	57-141°C / 135-286°F	57-141°C / 135-286°F	57-141°C / 135-286°F	57-260°C / 135-500°F	57-260°C / 135-500°F	
Working Pressure	175 psi / 12 bar	175 psi / 12 bar	175 psi / 12 bar	175 psi / 12 bar	175 psi / 12 bar	
Wrench**	23559MB	23559MB	23559MB	21475M/B	21475M/B	
Tech Datasheet	F_110120	F_103020	F_102820	F_032614	F_032814	
	VK2022 <sup>A</sup>	VK2002 <sup>A</sup>	VK1202 <sup>A</sup>			
K - 8.0/ 115.2 ½"NPT/15mmBSP					re ratings are in accordan Chrome, White Polyester,	•
Temperature	57-141°C / 135-286°F	57-141°C / 135-286°F	57-141°C / 135-286°F	<sup>B</sup> Available in Brass, C	hrome, White Polyester,	Black Polyester, Wax
Working Pressure	175 psi / 12 bar	175 psi / 12 bar	175 psi / 12 bar	Coated, Wax Over I	Polyester or ENT Finish.	• •
Wrench**	23559MB	23559MB	23559MB	** Pofor to Tochnical	data for more wrench op	tions
Tech Datasheet	F_110220	F_103120	F_102920		uata for more wrench op	uons.

	Concealed	Horizontal	Horizontal	Vertical	Stainless Steel	Stainless Steel
	Pendent	Sidewall	Sidewall	Sidewall	Pendent	Upright
	VK4921 <sup>D</sup>	VK104 <sup>B</sup>	VK116 <sup>A</sup>	VK106 <sup>c</sup>	VK132	VK130
K- 5.6/80.6 ½"NPT/15mmBSP			-Que	VS VS		(€ (™)
Temperature	68-93°C / 155-200°F	68-182°C / 155-360°F	57-182°C / 135-360°F	57-141°C / 135-286°F	68-260°C / 155-500°F	68-260°C / 155-500°F
Working Pressure	250 psi / 17 bar	175 psi / 12 bar	250 psi / 17 bar	175 psi / 12 bar	175 psi / 12 bar	175 psi / 12 bar
Wrench**	24339	21475M/B	21475M/B	21475M/B	21475M/B	21475M/B
Tech Datasheet	F_092221	F_033514	F_082014	F_052414	F_060691	F_060691
K - 8.0/ 115.2 ¾"NPT/20mmBSP	VK202-D <sup>D</sup>	Notes:         250psi /17 bar pressure ratings are in accordance with UL Listing         ^ Available in Brass, Chrome, White Polyester, Black Polyester or ENT Finish. <sup>B</sup> Available in Brass, Chrome, White Polyester, Black Polyester, Wax Coated, Wax Over Polyester or ENT Finish.				

Temperature68-93°C / 155-200°FWorking Pressure175 psi / 12 barWrench\*\*13577W/BTech DatasheetF\_101912

<sup>c</sup> Available in Brass or Chrome Finish.

 $^{\rm D}\,$  Available in Brass or ENT Finish.

\*\* Refer to Technical data for more wrench options.



## Quick Response | Bulb

K - 5.6/80.6 %"NPT/15mmBSP       VK3021 ^ WX3221 ^ C C S7-141°C / 135-286°F 250 psi / 17 bar       VK3001 ^ C C S7-141°C / 135-286°F 250 psi / 17 bar       VK301 ^ C C S7-141°C / 135-286°F 250 psi / 17 bar       VK3021 ^ S7-141°C / 135-286°F 175 psi / 12 bar       S6-141°C / 155-286°F 175 psi / 12 bar       S6-141°C / 155-286°F 175 psi / 12 bar       S6-141°C / 155-286°F 175 psi / 12 bar       S6-141°C / 155-286°F       S6-141°C / 135-286°F       S6-141°C / 135-286°F       S6-141°C / 135-286°F       S6-141°C / 135-286°F       S7-141°C / 135-286°F <t< th=""><th></th><th>Pendent</th><th>Upright</th><th>Conventional</th><th>Stainless Steel Pendent</th><th>Stainless Steel Upright</th></t<>		Pendent	Upright	Conventional	Stainless Steel Pendent	Stainless Steel Upright
K: 5.5/20.6 N*NPT/15mmBSP       Image: Constraint of the system of the sys		VK3021 <sup>A</sup>	VK3001 <sup>A</sup>	VK3101 <sup>A</sup>	VK339	
Working Pressure Wrench**         250 psi / 17 bar 23559MB         250 psi / 12 bar 23559MB         175 psi / 12 bar 21475M/B         175 psi / 12 bar 21475M/B         175 psi / 12 bar 21475M/B           K         8.0/115.2 WrNPT/20mmBSP         VK3521^A         VK3501^A         VK3501^A         VK3501^A         VK3541^A           Temperature Working Pressure Wrench**         57-141°C / 135-286°F 175 psi / 12 bar         57-141°C / 135-286°F 175 psi / 12 bar         57-141°C / 135-286°F         57-141°C / 135-286°F           K         8.0/115.2         57-141°C / 135-286°F         57-141°C / 135-286°F         57-141°C / 135-286°F         57-141°C / 135-286°F           K         8.0/115.2         57-141°C / 135-286°F         F_111120         F_111120         57-141°C / 135-286°F           K         8.0/115.2         S7-141°C / 135-286°F         S7-141°C / 135-286°F         S7-141°C / 135-286°F         S7-141°C / 135-286°F           Wrench**         F_111200         S7-141°C / 135-286°F         S7-141°C / 135-286°F         S7-141°C / 135-286°F           Wrench**         F_57-141°C / 135-286°F         S7-141°C / 135-286°F         S7-141°C / 135-286°F         S7-141°C / 135-286°F           Wrench**         F_57-141°C / 135-286°F         S7-141°C / 135-286°F         S7-141°C / 135-286°F         S7-141°C / 135-286°F           Wrench**         F_51/12 bar         S7-141°C / 135			₩ •	0(0) NS LISTED		
Working Pressure Wrench**         250 psi / 17 bar 23559MB         250 psi / 17 bar 23559MB         175 psi / 12 bar 23559MB         175 psi / 12 bar 21475M/B         175 psi / 12 bar 21475M/B           K - 8.0/115.2 X*NPT/20mmBSP         VK3521^A         VK3501^A         VK3501^A         VK3541^A           F - remperature Working Pressure Wrench**         57-141°C / 135-286°F 175 psi / 12 bar         57-141°C / 135-286°F         57-141°C / 135-286°F         57-141°C / 135-286°F           K - 8.0/115.2 X*NPT/20mmBSP         57-141°C / 135-286°F         57-141°C / 135-286°F         57-141°C / 135-286°F         57-141°C / 135-286°F           K - 8.0/115.2 X*NPT/15mmBSP         57-141°C / 135-286°F         57-141°C / 135-286°F         57-141°C / 135-286°F         57-141°C / 135-286°F           K - 8.0/115.2 X*NPT/15mmBSP         S7-141°C / 135-286°F         S7-141°C / 135-286°F         S7-141°C / 135-286°F         S7-141°C / 135-286°F           K - 8.0/115.2 X*NPT/15mmBSP         S7-141°C / 135-286°F         S7-141°C / 135-286°F         S7-141°C / 135-286°F         S7-141°C / 135-286°F           K - 8.0/115.2 X*NPT/15mmBSP         S7-141°C / 135-286°F         S7-141°C / 135-286°F         S7-141°C / 135-286°F         S7-141°C / 135-286°F           X*NPT/20mmBSP         S7-141°C / 135-286°F         S7-141°C / 135-286°F         S7-141°C / 135-286°F         S7-141°C / 135-286°F           X*NPT/20mmBSP         S7-141°C / 135-286°F<	Temperature	57-141°C / 135-286°F	57-141°C / 135-286°F	57-141°C / 135-286°F	68-141°C / 155-286°F	68-141°C / 155-286°F
Tech Datasheet         F_110720         F_110420         F_11120         F_073107         F_073107           K - 8.0/115.2 X*NPT/20mmBSP         VK3521^A VK3501^A         VK3501^A VK3501^A         VK3541^A VK3501^A         VK3541^A           Temperature Working Pressure Wrench**         57-141°C / 135-286°F 175 psi / 12 bar 23559MB         57-141°C / 135-286°F 175 psi / 12 bar         57-141°C / 135-286°F 175 psi / 12 bar         57-141°C / 135-286°F         57-141°C / 135-286°F           K - 8.0/115.2 X*NPT/15mmBSP         S7-141°C / 135-286°F 175 psi / 12 bar         S7-141°C / 135-286°F         VK3502 ^A         VK3542 ^A           Working Pressure Working Pressure Wrench**         S7-141°C / 135-286°F 175 psi / 12 bar         S7-141°C / 135-286°F         S7-141°C / 135-286°F         S7-141°C / 135-286°F           K - 11.2/ 161.2 X*NPT/20mmBSP         S7-141°C / 135-286°F         S7-141°C / 135-286°F         S7-141°C / 135-286°F         S7-141°C / 135-286°F           K - 11.2/ 161.2 X*NPT/20mmBSP         S68-141°C / 155-286°F         S7-141°C / 135-286°F         S7-141°C / 135-286°F         S7-141°C / 135-286°F           Yench**         E68-141°C / 155-286°F         S7-590M	Working Pressure	250 psi / 17 bar	250 psi / 17 bar	175 psi / 12 bar	175 psi / 12 bar	175 psi / 12 bar
K - 8.0/115.2 X"NPT/Z0mmBSP       VK3521 A Working Pressure       VK3501 A GG       VK3541 A GG         Temperature Working Pressure Wrench**       57-141°C / 135-286°F 175 psi / 12 bar 23559MB       57-141°C / 135-286°F 175 psi / 12 bar 23559MB       57-141°C / 135-286°F         K - 8.0/115.2 X"NPT/I5mmBSP       57-141°C / 135-286°F       57-141°C / 135-286°F       57-141°C / 135-286°F         K - 8.0/115.2 X"NPT/I5mmBSP       57-141°C / 135-286°F       57-141°C / 135-286°F       57-141°C / 135-286°F         K - 8.0/115.2 X"NPT/I5mmBSP       57-141°C / 135-286°F       VK3502 A       VK3502 A         Femperature Working Pressure Wrench**       57-141°C / 135-286°F       57-141°C / 135-286°F       57-141°C / 135-286°F         Temperature Wrench**       68-141°C / 155-286°F       175 psi / 12 bar       57-141°C / 135-286°F       175 psi / 12 bar         K - 11.2/ 161.2 3C NNPT/20mmBSP       GE       GE       VK377 A       GE       S595MB         F_111220       F_111220       F_111720       S759MB       F_111720       S759MB         K - 11.2/ 161.2 3C NNPT/20mmBSP       GE       GE       S595MB       F_111200       S759MB         F_111200       F_111200       F_111200       S759MB       F_111200       S759MB       S759MB         F_111200       F_111200       S759MB       F_111200       S7	Wrench**	23559MB	23559MB	23559MB	21475M/B	21475M/B
K - 8.0/115.2 x''NPT/20mmBSPNote: 1/15 psi / 12 bar 23559MB F_111320Note: FTemperature Wrench** Tech DatasheetVK327/a S7-141°C / 135-286°F 12 559MB F_111200VK3502/a S7-141°C / 135-286°F 12 559MB F_111200VK3502/a S7-141°C / 135-286°F 12 559MB F_111200K - 8.0/115.2 y''NPT/15mmBSPVK3522/a S7-141°C / 135-286°F 12 559MB F_111200VK3502/a S7-141°C / 135-286°F S7-141°C / 13	Tech Datasheet				F_073107	F_073107
K * 8.0/115.2       Image: Constraint of the		VK3521 <sup>A</sup>	VK3501 <sup>A</sup>	VK3541 <sup>A</sup>		
Working Pressure Wrench**       175 pi / 12 bar 23559MB       175 pi / 12 bar 23559MB       175 pi / 12 bar 23559MB         Fch Datasheet       F_111320       VK3502 A       VK3502 A         K - 8.0/115.2 3''NPT/15mmBSP       VK3522 A       VK3502 A       VK3502 A         Working Pressure Wrench**       57-141°C / 135-286°F 175 pi / 12 bar 23559MB       F-11120       VK3502 A         K - 11.2/161.2 3''NPT/20mmBSP       57-141°C / 135-286°F 175 pi / 12 bar 23559MB         K - 11.2/161.2 3''NPT/20mmBSP       K-11.2/161.2 A       VK377 A       Image: Comparison of the state of the s	,					
Wrench**       23559MB       23559MB       23559MB         Tech Datasheet       F_111320       VK3522A       VK3502A       VK3542A         Wrench**       Str.112       VK3522A       VK3502A       VK3542A         Wrench**       Str.141°C / 135-286°F       Str.141°C / 135-286°F       Str.141°C / 135-286°F       Str.112 bar       Str.112 bar         Krench**       Str.112 bar       Str.112 bar       Str.112 bar       Str.112 bar       Str.112 bar         Krench**       Str.112 bar       Str.112 bar       Str.112 bar       Str.112 bar       Str.112 bar         Krench**       Str.112 bar       Str.112 bar       Str.112 bar       Str.112 bar       Str.112 bar         Krench**       Str.112 bar       Str.112 bar       Str.112 bar       Str.112 bar       Str.112 bar         Krench**       Str.112 bar       Str.112 bar       Str.112 bar       Str.112 bar       Str.112 bar       Str.112 bar         Str.112 J 161.2       Str.112 bar       Str.112 bar       Str.112 bar       Str.112 bar       Str.112 bar       Str.112 bar         Kronig Pressure       Str.112 bar       Str.112 bar <th>Temperature</th> <th>57-141°C / 135-286°F</th> <th>57-141°C / 135-286°F</th> <th>57-141°C / 135-286°F</th> <th></th> <th></th>	Temperature	57-141°C / 135-286°F	57-141°C / 135-286°F	57-141°C / 135-286°F		
Tech DatasheetF_111320.F_111120F_111620K - 8.0/115.2 ½"NPT/15mmBSPVK3522A É É É S7-141°C / 135-286°FVK3502A É É É É É E S7-141°C / 135-286°FVK3502A É É É É É E S7-141°C / 135-286°FVK3502A É É É É É E S7-141°C / 135-286°FVK3502A É É É É E S7-141°C / 135-286°FTemperature Wrench** Tech Datasheet57-141°C / 135-286°F 175 psi / 12 bar 23559MB E _ 111220S7-141°C / 135-286°F 175 psi / 12 bar 23559MB E _ 111220Ntes: 23559MB E _ 111220K-11.2/161.2 % Wrench** Tech Datasheet68-141°C / 155-286°F 175 psi / 12 bar E E S0118CW/B E_03093Ntes: 250psi /17 bar pressure ratings are in accordance with UL Listing. A vailable in Brass, Chrome, White Polyester, Black Polyester or ENT Finish. * Refer to Technical data for more wrench options.	Working Pressure	175 psi / 12 bar	175 psi / 12 bar	175 psi / 12 bar		
K - 8.0/115.2       VK3522 A       VK3502 A       VK3502 A         ½"NPT/15mmBSP       Image: Constrained by the second	Wrench**	23559MB	23559MB	23559MB		
K - 8.0/115.2 X"NPT/15mmBSPImage: Constraint of the second secon	Tech Datasheet	F_111320	. F_111120			
Working Pressure Wrench**175 psi / 12 bar 23559MB175 psi / 12 bar 23559MB175 psi / 12 bar 23559MBTech DatasheetF_111420F_111220F_111720K - 11.2/ 161.2 % "NPT/20mmBSPImage: Comparison of the state		V//2577A	VK2502A	VK3542~		
Wrench**23559MB23559MB23559MBTech DatasheetF_111420F_111220F_111720K - 11.2/ 161.2 % "NPT/20mmBSPVK377 A % C C % C C <br< th=""><th></th><th></th><th>•@s •@s •@s •@s •@s •@s •@s •@s</th><th></th><th></th><th></th></br<>			•@s •@s •@s •@s •@s •@s •@s •@s			
Tech Datasheet       F_111420       F_111220       F_111720         K - 11.2/ 161.2       VK377 A       A       A       A         X"NPT/20mmBSP       E       E       A       Notes:       250psi /17 bar pressure ratings are in accordance with UL Listing.         Temperature Working Pressure Virench**       68-141°C / 155-286°F 175 psi / 12 bar 05118CW/B F_030993       Notes:       250psi /17 bar pressure ratings are in accordance with UL Listing.         Tech Datasheet       F_030993       Kefer to Technical data for more wrench options.       ENTER Available in Brass, Chrome, White Polyester, Black Polyester or ENT Finish.	½"NPT/15mmBSP	€€ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩	€			
K - 11.2/161.2       WK377 A         %"NPT/20mmBSP       Image: C C C C C C C C C C C C C C C C C C C	½"NPT/15mmBSP	€ € € € € € € € € € • • • • • • • • • • • • •	€ • • • • • • • • • • • • •	57-141°C / 135-286°F		
K - 11.2/ 161.2       Image: Constraint of the second	½"NPT/15mmBSP Temperature Working Pressure	هی           هی           هی           هی           ۲ <th>€ • • • • • • • • • • • • •</th> <th>57-141°C / 135-286°F 175 psi / 12 bar</th> <th></th> <th></th>	€ • • • • • • • • • • • • •	57-141°C / 135-286°F 175 psi / 12 bar		
Working Pressure     175 psi / 12 bar       Wrench**     05118CW/B       Tech Datasheet     F_030993	½"NPT/15mmBSP Temperature Working Pressure Wrench**	€	€ • • • • • • • • • • • • •	57-141°C / 135-286°F 175 psi / 12 bar 23559MB		
Working Pressure       175 psi / 12 bar         Wrench**       05118CW/B         Tech Datasheet       F_030993    A Available in Brass, Chrome, White Polyester, Black Polyester or ENT Finish. ** Refer to Technical data for more wrench options.	%"NPT/15mmBSP Temperature Working Pressure Wrench** Tech Datasheet K - 11.2/ 161.2	Image: Constraint of the second s	© 57-141°C / 135-286°F 175 psi / 12 bar 23559MB F_111220	57-141°C / 135-286°F 175 psi / 12 bar 23559MB		
Wrench**     05118CW/B       Tech Datasheet     F_030993   ** Refer to Technical data for more wrench options.	%"NPT/15mmBSP Temperature Working Pressure Wrench** Tech Datasheet K - 11.2/ 161.2 %"NPT/20mmBSP	Image: Second state st	Image: State of the state	57-141°C / 135-286°F 175 psi / 12 bar 23559MB F_111720	ice with UL Listing.	
Tech Datasileet P_050595	%"NPT/15mmBSP Temperature Working Pressure Wrench** Tech Datasheet K - 11.2/ 161.2 %"NPT/20mmBSP Temperature	Image: Second state of the second	Image: Strain of the strai	57-141°C / 135-286°F 175 psi / 12 bar 23559MB F_111720	-	inich
Concepted Concepted Herizontal Herizontal Vertical	%"NPT/15mmBSP Temperature Working Pressure Wrench** Tech Datasheet K - 11.2/ 161.2 %"NPT/20mmBSP Temperature Working Pressure	Image: Second state of the second	S7-141°C / 135-286°F           175 psi / 12 bar           23559MB           F_111220   Notes: 250psi /17 bar pressur A Available in Brass, C	57-141°C / 135-286°F 175 psi / 12 bar 23559MB F_111720	Black Polyester or ENT F	inish.
	%"NPT/15mmBSP Temperature Working Pressure Wrench** Tech Datasheet K - 11.2/ 161.2 %"NPT/20mmBSP Temperature Working Pressure Wrench**	Image: Second state of the second	S7-141°C / 135-286°F           175 psi / 12 bar           23559MB           F_111220   Notes: 250psi /17 bar pressur A Available in Brass, C	57-141°C / 135-286°F 175 psi / 12 bar 23559MB F_111720	Black Polyester or ENT F	inish.

	Concealed	Concealed	Horizontal	Horizontal	Vertical	
	Pendent	Pendent (MRI)	Sidewall	Sidewall	Sidewall	
	VK4621 <sup>C</sup>	VK462 -MRI <sup>B</sup>	VK319 <sup>A</sup>	VK305 <sup>A</sup>	VK306 D	
K- 5.6/80.6 ½"NPT/15mmBSP		(€	e@e			
Temperature	68-93°C / 155-200°F	68-93°C / 155-200°F	57-141oC / 135-286°F	57-141°C / 135-286°F	57-141°C / 135-286°F	
Working Pressure	250 psi / 17 bar	175 psi / 12 bar	250 psi / 17 bar	175 psi / 12 bar	175 psi / 12 bar	
Wrench**	24339	14047W/B	21475M/B	21475M/B	21475M/B	
Tech Datasheet	F_092121	F_062908	F_030103	F_060914	F_060614	
	VK464 <sup>C</sup>	VK464 -MRI <sup>B</sup>	VK360 <sup>A</sup>			
				Notes:		
K - 8.0/ 115.2		CE	Garro	250psi /17 bar pressu	re ratings are in accordan	
%"NPT/20mmBSP			and the second s	A Available in Brass, C Finish.	Chrome, White Polyester,	
				B Available in Brass of	nly.	
Temperature	68-93°C / 155-200°F	68-93°C / 155-200°F	57-93°C / 135-200°F	C Available in Brass or ENT Finish.		
Working Pressure	175 psi / 12 bar	175 psi / 12 bar	175 psi / 12 bar	D Available in Brass or Chrome Finish.		
Wrench**	14047W/B	14047W/B	21475M/B		data for more wrench op	
Tech Datasheet	F_021606	F_062908	F_092508			



## Standard Response | Fusible link

	Pendent	Upright	Stainless Steel Pendent	Concealed Horizontal Sidewall	
	VK110 <sup>A</sup>	VK108 <sup>A</sup>		VK481 <sup>B</sup>	
K- 5.6/80.6 ½"NPT/15mmBSP					
Temperature	74-141°C / 165-286°F	74-141°C / 165-286°F		68-93°C / 155-200°F	
Working Pressure	175 psi / 12 bar	175 psi / 12 bar		175 psi / 12 bar	
Wrench**	21475M/B	21475M/B		16208W/R	
Tech Datasheet	F_052314	F_052214		F_020312	
	VK206 <sup>c</sup>	VK204 <sup>c</sup>	VK368	Notes:	
K - 8.0/ 115.2 ¾"NPT/20mmBSP				250psi /17 bar pressure ratings are in accordance with UListing.	UL
74 W 17201111051		CE CE		<sup>A</sup> Available in Brass, Chrome, White Polyester, Black Pol or ENT Finish.	lyester
Temperature	74-141°C / 165-286°F	74-141°C / 165-286°F	74-96°C / 165-205°F	<sup>B</sup> Available in Brass only.	
Working Pressure	175 psi / 12 bar	175 psi / 12 bar	175 psi / 12 bar	C Available in Brass, Chrome, White Polyester or Black	
Wrench**	21475M/B	21475M/B	21475M/B	Polyester Finish.	
Tech Datasheet	F_060514	F_060414	F_071917	** Refer to Technical data for more wrench options.	

## Quick Response | Fusible link

	Pendent	Upright	Conventional	Pendent	Upright	
	VK303 <sup>A</sup>	VK301 <sup>A</sup>	VK311 <sup>B</sup>	VK318 <sup>A</sup>	VK316 <sup>A</sup>	
K- 5.6/80.6 ½"NPT/15mmBSP			*****	• <u>@</u> ••	·@	
Temperature	74-138°C / 165-280°F	74-138°C / 165-280°F	74-138°C / 165-280°F	74-138°C / 165-280°F	74-138°C / 165-280°F	
Working Pressure	175 psi / 12 bar	175 psi / 12 bar	175 psi / 12 bar	250 psi / 17 bar	250 psi / 17 bar	
Wrench**	21475M/B	21475M/B	21475M/B	21475M/B	21475M/B	
Tech Datasheet	F_062514	F_062414	F_022614	F_062914	F_062814	
	VK353 <sup>C</sup>	VK351 <sup>A</sup>	VK355 <sup>B</sup>			
K - 8.0/ 115.2 %"NPT/20mmBSP				<ul> <li><sup>A</sup> Available in Brass, C ENT Finish.</li> <li><sup>B</sup> Available in Brass, C</li> </ul>	e ratings are in accordar hrome, White Polyester, hrome, White Polyester	
Temperature	74-138°C / 165-280°F	74-138°C / 165-280°F	74-138°C / 165-280°F	Finish. <sup>c</sup> Available in Brass, Chrome, White Polyester, Black Polyester		
Working Pressure	175 psi / 12 bar	175 psi / 12 bar	175 psi / 12 bar	Black PTFE Finish.		
Wrench**	21475M/B	21475M/B	21475M/B	<sup>D</sup> Available in Brass or Chrome Finish.		
Tech Datasheet	F_071814	F_071714	F_071914	** Refer to Technical of	data for more wrench op	





FM

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LISTED

## Pendent and Recessed Pendent

VICEOO		VE 6/00 6
VLOUU	EC/QREC	1 ND.0/00.0

21475M/B

F\_080988

57°C, 68°C, 79°C

13577W/B (recessed)

VK602 | EC/QREC | K8.0/115.2

Base part number

Working Pressure High Pressure Model

Thread size & type

Approvals

Hazard

Element

Wrench

Datasheet

Temperature

06778	Coverage Area	Flow	Pressure
175psi/12.1bar	ft / m	gpm / lpm	psi / bar
250psi/17.2bar (VK610)	16x16 / 4.9x4.9	26 / 98.4	21.6 / 1.49
cULus, FM	18x18 / 5.5x5.5	33 / 124.9	34.7 / 2.39
1⁄2"/15 mmNPT	20x20/6.1x6.1	40 / 151.4	51.0 / 3.52
Light			
3mm glass bulb	<b>.</b>		

#### Notes:

Table based on cULus Listing for quick response. See technical datasheet for expanded cULus & FM approval criteria.



	Base part number	18262	Coverage Area	Flow	Pressure		
	Working Pressure	175psi/12.1bar	ft / m	gpm / lpm	psi / bar		
	Approvals	cULus, FM	16x16 / 4.9x4.9	26 / 98.4	10.6 / 0.73		
	Thread size & type	<sup>3</sup> / <sub>4</sub> "/20 mm NPT	18x18 / 5.5x5.5	33 / 124.9	17.0 / 1.17		
	Hazard	Light	20x20 / 6.1x6.1	40 / 151.4	25.0 / 1.72		
	Tiazaru	Light					
	Element	3mm glass bulb					
 FM>	Temperature         57°C, 68°C, 79°C		Notes:				
	Wrench	21475M/B 13577W/B (recessed)	Table based on cULus Listing for quick response. See technical datasheet for expanded cULus & FM approval crit				
LISTED	Datasheet	F_102412					

#### VK608 | EC/QREC | K11.2/161.3

DNIMING	

	Base part number
	Working Pressure
	Approvals
	Thread size & type
	Hazard
A WED Dus	Element
	Temperature
	Wrench
	Datasheet

08339
175psi/12.1bar
cULus, FM
¾"/20 mm NPT
Light
3mm glass bulb
57°C, 68°C , 79°C
05118CW/B 11663W/B (recessed)
F_052793

#### Flow Pressure Coverage Area ft/m gpm / lpm psi / bar 16x16 / 4.9x4.9 30/113.6 7.2 / 0.5 18x18 / 5.5x5.5 33 / 124.9 8.7 / 0.6 20x20/6.1x6.1 40/151.4 12.8 / 0.88

Notes:

Table based on cULus Listing for quick response. See technical datasheet for expanded cULus & FM approval criteria.

#### VK534 | EC/QREC | K11.2/161.3

	Base part number	08340	Coverage Area	Flow	Pressure	
	Working Pressure	175psi/12.1bar	ft / m	gpm / lpm	psi / bar	
	3		Light Hazard			
	Approvals	cULus	16x16 / 4.9x4.9	38 / 143.9	11.5 / 0.79	
	Thread size & type	3⁄4″/20 mm NPT	18x18 / 5.5x5.5	49 / 185.5	19.1 / 1.32	
	Hazard	Light / Ordinary	20x20 / 6.1x6.1	60 / 227.1	28.7 / 1.98	
	Element	3mm glass bulb	Ordinary Hazard Group 1			
	Temperature	57°C, 68°C, 79°C, 93°C,	12x12 / 3.7x3.7	30 / 113.6	7.2 / 0.50	
c(UL)us	remperature	141°C	14x14 / 4.3x4.3	30 / 113.6	7.2 / 0.50	
LISTED	Wrench	05118CW/B 11663W/B (recessed)	Notes: Table based on cULus listing for Ordinary Hazard Group 1. See technical datasheet for expanded CULus listing criteria.			
	Datasheet	F_051393				

Available with ENT coating (Nick	el PTFE
or corrosion resistance	

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#### Pendent and Recessed Pendent

VK572   EC/QREC   K14.0/202					
	Base part number	13722	Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar
	Working Pressure Approvals	175psi/12.1bar cULus, FM	C		
	Thread size & type	34"/20 mm NPT	16x16 / 4.9x4.9 18x18 / 5.5x5.5	39 / 147.6 49 / 185.5	7.8 / 0.54 12.3 / 0.85
FM	Hazard	Ordinary Hazards 1 & 2	20x20 / 6.1x6.1	60 / 227.1	18.4 / 1.27
	Element	3mm glass bulb		Ordinary Hazard Group 2	
c(VL)us	Temperature	68°C, 79°C, 93°C, 141°C	16x16 / 4.9x4.9	51 / 193.1	13.3 / 0.92
LISTED	·	07297W/B	18x18 / 5.5x5.5	65 / 246.1	21.6 / 1.49
Available with ENT coating (Nickel PTFE)	Wrench	rench 13032W/B(recessed)	20x20 / 6.1x6.1	80 / 302.8	32.7 / 2.25
for corrosion resistance	Datasheet	F_072313	Notes: Table based on cULus Li	sting for Ordinary Hazar	d Group 1.

Table based on cULus Listing for Ordinary Hazard Group 1. See technical datasheet for expanded cULus & FM approval criteria.

Flow

gpm / lpm

26 / 98.4

33 / 124.9

Pressure psi / bar

21.6 / 1.49

34.7 / 2.39

Pressure

psi / bar

10.6 / 0.73

17.0 / 1.17



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	Base part number
	Working Pressure
	High Pressure Model
	Approvals
	Thread size & type
	Hazard
	Element
`	Temperature
	Wrench
s	wrench
	Datasheet

Base part number

ber	13969
ure	175psi/12.1bar
Model	250psi/17.2bar (VK611)
	cULus, FM
ype	1⁄2"/15 mm NPT
	Light
	Fusible link
	74°C, 96°C
	21475M/B,
	13655W/B (recessed)
	F_072114

Notes:

Coverage Area

ft/m

16x16 / 4.9x4.9

18x18 / 5.5x5.5

Coverage Area

ft/m

16x16 / 4.9x4.9

18x18 / 5.5x5.5

See technical datasheet for expanded cULus listing criteria.



Working Pressure Approvals Thread size & type Hazard Element Temperature Wrench Datasheet

	18277
	175psi/12.1bar
	cULus, FM
5	¾"NPT, 20 mm BSP
	Light
	Fusible link
	74°C, 96°C
	21475M/B
	13655W/B (recessed)
	F_0102512

#### Notes:

See technical datasheet for expanded cULus & FM approval criteria.

Flow

gpm / lpm

26 / 98.4

33 / 124.9





Available with ENT coating (Nickel PTFE) for corrosion resistance

Available with ENT coating (Nickel PTFE

for corrosion resistance

#### VK537 | EC/QREC | K11.2/161.3

VK603 | QREC | K8.0/115.2

Base part number	14611	Coverage Area	Flow	Pressure	
Working Pressure	175psi/12.1bar	ft / m	gpm / lpm	psi / bar	
Approvals	cULus	Ordinary Hazard Group 1			
••		16x16 / 4.9x4.9	38 / 143.9	11.5 / 0.79	
Thread size & type	¾"/20 mmNPT	18x18 / 5.5x5.5	49 / 185.5	19.1 / 1.32	
Hazard	Ordinary	20x20 / 6.1x6.1	60 / 227.1	28.7 / 1.98	
Element	Fusible link	Ordinary Hazard Group 2			
Temperature	74°C, 96°C	16x16 / 4.9x4.9	51 / 193.1	20.7 / 1.43	
	05118CW/B	18x18 / 5.5x5.5	65 / 246.1	33.7 / 2.32	
Wrench		20x20 / 6.1x6.1	80 / 302.8	51.0 / 3.52	
	11663W/B (recessed)	Notes:			
Datasheet	F_021907	See technical datasheet for expanded cULus listing criteria.			
		See technical uatasheet	TOT Expanded COLUS list	ing cincina.	

#### VK617 | EC/QREC ELO | K11.2/161.3

	Base part number	14141	Coverage Area
	Working Pressure	175psi/12.1bar	ft / m
	Approvals	cULus, FM	16x16 / 4.9x4.9
_	Thread size & type	3/4//20 mm NPT	18x18 / 5.5x5.5
	Hazard	Light	10/10 / 5.5/5.5
	Element	Fusible link	
US	Temperature	74°C, 96°C	Notes:
E)	Wrench	05118CW/B 11663W/B (recessed)	Table based on cULu See technical datash
	Datasheet	F_021207	

able based on cULus Listing for quick response. ee technical datasheet for expanded cULus & FM approval criteria.

Flow

gpm / lpm

30/113.6

33 / 124.9

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Pressure

psi / bar

7.2 / 0.50

8.7 / 0.60



## Upright

#### VK532 | EC/QREC | K11.2/161.3

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Available with ENT coating (Nickel PTFE) for corrosion resistance

Base part number	08687
Working Pressure	175psi/12.1bar
Approvals	cULus, FM
Thread size & type	3⁄4"/20 mmNPT
Hazard	Light / Ordinary
Element	3mm glass bulb
Temperature	57°C, 68°C, 79°C, 93°C, 141°C
Wrench	05118CW/B 11663W/B (recessed)
Datasheet	F_053114

Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar
	Ordinary Hazard Group	1
12x12 / 3.7x3.7	30 / 113.6	7.2 / 0.50
14x14 / 4.3x4.3	30 / 113.6	7.2 / 0.50
16x16 / 4.9x4.9*	38 / 143.9	11.5 / 0.79
18x18 / 5.5x5.5*	49 / 185.5	19.1 / 1.32
20x20 / 6.1x6.1*	60 / 227.1	28.7 / 2.98

Notes:

\* Standard Response

Table based on cULus Listing

See technical datasheet for expanded Light, OH2, cULus & FM approval criteria.

		VK570   EC/QREC   K14.0/2	202			
-	Base part number	13840	Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar	
strong and the	Working Pressure	175psi/12.1bar		ordinary Hazard Group		
	Approvals	cULus, NYC	12x12 / 3.7x3.7	39 / 147.6	7.8 / 0.54	
	Thread size & type	<sup>3</sup> / <sub>4</sub> "/20 mm NPT	14x14 / 4.3x4.3	39 / 147.6	7.8 / 0.54	
	, i	Quality and	16x16 / 4.9x4.9*	39 / 147.6	7.8 / 0.54	
NIKING	Hazard	Ordinary	18x18 / 5.5x5.5*	49 / 185.5	12.3 / 0.85	
Buildings	Element	3mm glass bulb	20x20 / 6.1x6.1*	60 / 227.1	18.4 / 1.27	
c(UL)us	Temperature	68°C, 79°C, 93°C, 141°C	Notes:			
LISTED Available with ENT coating (Nickel PTFE)	Wrench	07297W/B	* Standard Response Table based on cULus Listing			
for corrosion resistance	Datasheet	F_010104		See technical datasheet for expanded OH2, cULus & FM approval		
			criteria.			

VK535   EC/QREC   K11.2/161.3						
	Base part number	14139	Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar	
and the second s	Working Pressure	175psi/12.1bar		gpm / ipm ordinary Hazard Group '		
	Approvals	cULus, FM	14x14 / 4.3x4.3	30 / 113.6	7.2 / 0.50	
4-17	Thread size & type	<sup>3</sup> / <sub>4</sub> "/20 mm NPT	16x16 / 4.9x4.9*	38 / 143.9	11.5 / 0.79	
	in cua size a type	,.,,20	18x18 / 5.5x5.5*	49 / 185.5	19.1 / 1.32	
E CENTRA	Hazard	Ordinary	20x20 / 6.1x6.1*	60 / 227.1	28.7 / 1.98	
APPROVED	Element	Fusible link	C	Ordinary Hazard Group 2		
	Element	rusible link	14x14 / 4.3x4.3	39 / 147.7	12.1 / 0.84	
c UL us	Temperature	74°C, 96°C, 138°C	16x16 / 4.9x4.9*	51 / 193.1	20.7 / 1.43	
LISTED	Wrench	05118CW/B	18x18 / 5.5x5.5*	65 / 246.1	33.7 / 2.32	
Available with ENT coating (Nickel PTFE)	wiench	05116CW/D	20x20 / 6.1x6.1*	80 / 302.8	51.0 / 3.52	
for corrosion resistance	Datasheet	F 072014	Notes:			
		-	*Standard Response			

Table based on cULus Listing See technical datasheet for expanded cULus & FM approval criteria.

#### Flat Plate Concealed Horizontal Sidewall

#### VK680 | QREC | K8.0/115.2

	Base part number Working Pressure	17114, 21358 (GB-China) 175psi/12.1bar	Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar
	Approvals	cULus, GB (China)	16x20 / 4.9x6.1	32 / 121.1	16.0 / 1.10
	Thread size & type	3/4"NPT /20 mm BSP	16x22 / 4.9x6.7 16x24 / 4.9x7.3	36 / 136.3 39 / 147.6	20.3 / 1.40 23.8 / 1.64
	Hazard	Light	18x18 / 5.5x5.5	33 / 124.9	17.0 / 1.20
	Element	Fusible Link	18x20 / 5.5x6.2	36 / 136.3	20.3 / 1.40
c (UL) us	Temperature	74°C, 57°C (cover)	18x22 /5.5x6.7	40 / 151.4	25.0 / 1.72
LISTED	Cover Plate p/n	16207 (order separately)	Notes:		
Available with ENT coating (Nickel PTFE)	Wrench	16208W/R	Table based on cULus Listing for some coverage areas only See technical datasheet for expanded cULus listing criteria		,
for corrosion resistance	Datasheet	F_050611	see technical datasneet for expanded COLUS listing Chiefla.		

for corrosion resistance



#### Horizontal Sidewall

#### VK605 | EC/QREC | K5.6/80.6

|--|

Base part number	12120
Working Pressure	175psi/12.1bar
High Pressure	250psi/17.2bar (VK612)
Approvals	cULus
Thread size & type	1/2"/15 mm NPT
Hazard	Light
Element	3mm glass bulb
Temperature	57°C, 68°C, 79°C
Wrench	21475M/B 13655W/B (recessed)
Datasheet	F_072414

Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar
16x16 / 4.9x4.9	26 / 98.4	21.6 / 1.49
16x18 / 4.9x5.5	29 / 109.8	26.8 / 1.85
16x20 / 4.9x6.1	32 / 121.1	32.7 / 2.25

#### Notes:

Table based on cULus Listing for quick response.

See technical datasheet for expanded cULus listing criteria.



#### VK630 | QREC | K8.0/115.2

	Base part number	13500	Coverage Area	Flow	Pressure
	Working Pressure	175psi/12.1bar	ft / m	gpm / lpm	psi / bar
	Dome Concealed p/n	13500A-X (VK630-D)	16x16 / 4.9x4.9	26 / 98.4	10.6 / 0.73
	Cover Plate base p/n	13501	16x18 / 4.9x5.5	29 / 109.8	13.1 / 0.91
35	Approvals	cULus	16x20 / 4.9x6.1	32 / 121.1	16.0 / 1.10
VK630-D	Thread size & type	3⁄4"/20 mm NPT	16x22 / 4.9x6.7	36 / 136.3	20.3 / 1.40
	Hazard	Light	16x24 / 4.9x7.3	39 / 147.6	23.8 / 1.64
	Element	3mm glass bulb	18x18 / 5.5x5.5	33 / 124.9	17.0 / 1.20
( <b>[</b> ]	Temperature	57°C, 68°C, 79°C	18x20 / 5.5x6.2	36 / 136.3	20.3 / 1.40
		21475M/B	18x22 /5.5x6.7	40 / 151.4	25.0 / 1.73
LISTED	Wrench	13655W/B (recessed)	Notes:		
Available with ENT coating (Nickel PTFE) for corrosion resistance	Datasheet	F_102905 F_102805 (VK630-D)	Table based on cULus Li See technical datasheet		

#### VK638 | Corridor Sprinkler | QREC | K8.0/115.2



Available with ENT coating (Nickel PTFE) for corrosion resistance

Base part number	17375
Working Pressure	175psi/12.1bar
Dome Concealed p/n	17375A-X (VK638-D),
Cover Plate base p/n	13501
Approvals	cULus
Thread size & type	¾"/20 mm NPT
Hazard	Light
Element	3mm glass bulb
Temperature	57°C, 68°C, 79°C, 93°C
Wrench	21475M/B,
WIEIICH	13655W/B (recessed)
Datasheet	F_081911,
Datasneet	F_082211 (VK638-D)

Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar
28x12 / 8.5x3.7	34 / 128.7	18.1 / 1.24
28x14 / 8.5x4.3	40 / 151.4	25.0 / 1.73

#### Notes:

See technical datasheet for expanded cULus listing criteria.

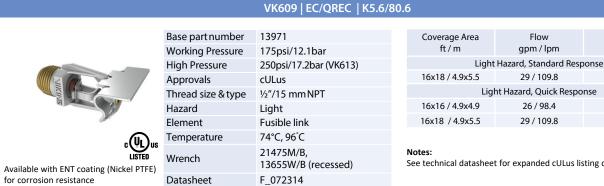
Pressure

psi / bar

26.8 / 1.85

21.6 / 1.49

26.8 / 1.85



See technical datasheet for expanded cULus listing criteria.



#### **Concealed Pendent**

#### VK632 | QREC | K5.6/80.6

Thread size & type Hazard Element Temperature Cover Plate (CP) p/n Wrench Available with ENT coating (Nickel PTFE) Datasheet

Approvals

Base part number

Working Pressure

Base part number 14535

175psi/12.1bar cULus 1/2"/15 mm NPT Light 3mm glass bulb 57°C, 68°C, 79°C, 93°C 23190, 23174 (push-on) 23447, 23463 (thread-on) 14047W/B, 14412 (CP Install Tool) 14867 (CP Install Tool) F 08017

VK634 | QREC | K8.0/115.2

14613

#### Flow Pressure Coverage Area ft/m gpm / lpm psi / bar 16x16 / 4.9x4.9 26/98.4 21.6 / 1.49 18x18 / 5.5x5.5 33 / 124.9 34.7 / 2.39 20x20 / 6.1x6.1 40 / 151.4 51.0 / 3.52

#### Notes:

See technical datasheet for expanded cULus listing criteria.

Flow

Pressure psi / bar 10.6 / 0.73 17.0 / 1.17 25.0 / 1.72

for corrosion resistance

U	5	1		

	base partnumber	14555	Coverage Area	FIOW	Pres
	Working Pressure	175psi/12.1bar	ft / m	gpm / lpm	psi /
	Approvals	cULus	16x16 / 4.9x4.9	26 / 98.4	10.6 /
	Thread size & type	3/4/20 mm NPT	18x18 / 5.5x5.5	33 / 124.9	17.0 /
	Hazard	Light	20x20 / 6.1x6.1	40 / 151.4	25.0/
	Element	3mm glass bulb	Notes:		
	Temperature	57°C, 68°C, 79°C, 93°C	See technical datasheet	for expanded cULus list	ing criteria.
	Cover Plate (CP) p/n	23190, 23174 (push-on) 23447, 23463 (thread-on)			0
us	Wrench	14047W/B, 14412 (CP Install Tool) 14867 (CP Install Tool)			
)	Datasheet	F_08017			

#### VK636 | QREC ELO | K11.2/161.3



Base part number	16102
Working Pressure	175psi/12.1bar
Approvals	cULus
Thread size & type	¾"/20 mmNPT
Hazard	Light
Element	Fusible link
Temperature	74°C, 96°C
Cover Plate (CP) p/n	23495 (thread-on), 15765 (push-on)
Wrench	15467W/B 14867 (CP Install tool)
Datasheet	F_121009

Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar
16x16 / 4.9x4.9	30 / 113.6	7.2 / 0.50
18x18 / 5.5x5.5	33 / 124.9	8.7 / 0.60
20x20 / 6.1x6.1	40 / 151.4	12.8 / 0.88

Notes:

See technical datasheet for expanded cULus listing criteria.



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## VK538 | EC/QREC ELO | K11.2/161.3



Base part number	17115 175 nci/12 1 hor	Coverage Area ft / m	Flow gpm / Ipm					
Working Pressure	175psi/12.1bar cULus	(	Ordinary Hazard Group 1					
Approvals	34"/20 mm NPT	14x14 / 4.3x4.3	30 / 113.6					
Thread size & type Hazard		16x16 / 4.9x4.9	38 / 143.9					
Element	Light / Ordinary Fusible link	18x18 / 5.5x5.5	49 / 185.5					
	74°C, 96°C	20x20 / 6.1x6.1	60 / 227.1					
Temperature		Ordinary Hazard Group 2						
Cover Plate p/n	23495 (thread-on), 15765 (push-on)	14x14 / 4.3x4.3	39 / 147.7					
	15467W/B	16x16 / 4.9x4.9	51 / 193.1					
Wrench	14867 (CP Install tool)	18x18 / 5.5x5.5	65 / 246.1					
Datasheet	F 050511	20x20 / 6.1x6.1	80 / 302.8					

#### Notes:

orage Area

Table based in Ordinary Hazard Group 1, quick response. See technical datasheet for expanded cULus listing criteria.

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Pressure

psi / bar

7.2 / 0.50

11.5 / 0.79

19.1 / 1.32

28.7 / 1.98

12.1 / 0.84

20.7 / 1.43

33.7 / 2.32

51.0 / 3.52



#### Early Suppression Fast Response (ESFR)



Base part number	10625	<ul> <li>Protects up to 10.7 m (35 ft) high buildings without using in-rack</li> </ul>
Working pressure	175psi/12.1bar	sprinklers
Approvals	FM, NYC, GB (China)	<ul> <li>Upright design provides more options for designing around</li> </ul>
Thread size & type	¾"/20 mm NPT	obstructions
Element	Fusible link	<ul> <li>Install directly onto system piping up to 3" (DN80) diameter pipe</li> </ul>
Temperatures	74°C, 96°C	<ul> <li>Easy to retrofit into existing upright sprinkler systems</li> </ul>
Finishes	Brass	<ul> <li>Can be installed on same branch line as K202 (14.0) ESFR</li> </ul>
Wrench	05118CW/B, 11663W/B	pendent sprinklers
Tech Datasheet	F_060298	<ul> <li>Available in 74°C and 96°C temperature ratings</li> </ul>



	NFPA 13 - Required minimum flow (LPM) - Single-row, double-row, and multi-row rack storage (without solid shelves) <sup>1</sup>																
	Ceiling height (m) > 13.7				12.2				10.7			9.8 9.1		7.6			
	Storage height (m) >	12.2	10.7	9.1	7.6	6.1	10.7	9.1	7.6	6.1	9.1	7.6	6.1	7.6	7.6	6.1	6.1
	Class I-IV commodity										5,507	5,507	5,507	4,929	4,497	4,497	4,497
>	Cartoned nonexpanded plastic										5,507	5,507	5,507	4,929	4,497	4,497	4,497
	Cartoned expanded plastic														4,497	4,497	4,497
	<sup>1</sup> Required flow per sprinkler calculated	d usina	O=K*()	/p) mu	ltiplied	by nur	nber of	desia	n sprink	ders (1	2)						

VK500 | ESFR Pendent | K14.0/202

VK520 | ESFR Upright | K14.0/202



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FM

APPROVED

VdS

Base part number Working pressure Approvals Thread size & type Element Temperatures Finishes Wrench Tech Datasheet	10284(NP)T,21360(BSP) 175psi/12.1bar UL, FM, VdS ¾"/20mmNPT&BSP Fusiblelink 74°C, 96°C Brass 13635W/B (Side A) F 060198	<ul> <li>Protects up to 10.7 m (35 ft) high buildings without using in-rac sprinklers</li> <li>Sprinklers may be spaced up to 3.7 m (12 ft) for buildings up to 9.1 m (30 ft)</li> <li>Coverage area per sprinkler may not exceed 9.3 m<sup>2</sup> (100 ft<sup>2</sup>)</li> <li>Available in 74°C and 96°C temperature ratings</li> </ul>
--	---	---

NFPA 13 - Required minimum flow (LPM) - Single-row, double-row, and multi-row rack storage (without solid shelves)<sup>1</sup>

	Ceiling height (m) >			13.7				12	.2			10.7		9.8	9.	1	7.6
	Storage height (m) >	12.2	10.7	9.1	7.6	6.1	10.7	9.1	7.6	6.1	9.1	7.6	6.1	7.6	7.6	6.1	6.1
	Class I-IV commodity										5,507	5,507	5,507	4,929	4,497	4,497	4,497
	Cartoned nonexpanded plastic										5,507	5,507	5,507	4,929	4,497	4,497	4,497
us	Cartoned expanded plastic														4,497	4,497	4,497
1	Exposed nonexpanded plastic										5,507	5,507	5,507	4,929	4,497	4,497	4,497
				1													

<sup>1</sup>Required flow per sprinkler calculated using  $Q=K^*(\sqrt{p})$  multiplied by number of design sprinklers (12)

#### VK503 | ESFR Pendent | K16.8/242





Base part number	14073 (NPT), 14818 (BSP)
Working pressure	175psi/12.1bar
Approvals	UL, FM, NYC, GB (China)
Thread size & type	3/4"/20mm NPT & BSP
Element	Fusiblelink
Temperatures	74°C, 96°C
Finishes	Brass
Wrench	13635W/B (Side A)
Tech Datasheet	F_120106

 Protects up to 10.7 m (35 ft) high piled storage without using inrack sprinklers in buildings with 12.2 m (40 ft) high ceilings

 Requires lower starting pressures than VK500 K202 (14.0) ESFR pendent

- Approved for up to 13.7 m (45 ft) ceilings with one row of in-rack sprinklers
- Available in 74°C and 96°C temperature ratings

NFPA 13 - Required minimum flow (LPM) - Single-row, double-row, and multi-row rack storage (without solid shelves)<sup>1</sup>

Ceiling height (m) >	13.7						12	.2			10.7	10.7 9.8 9.1			.1	7.6
Storage height (m) >	12.2	10.7	9.1	7.6	6.1	10.7	9.1	7.6	6.1	9.1	7.6	6.1	7.6	7.6	6.1	6.1
Class I-IV commodity	6,057	6,057	6,057	6,057	6,057	5,507	5,507	5,507	5,507	5,507	5,507	5,507	4,948	4,516	4,516	4,516
Cartoned nonexpanded plastic	6,057	6,057	6,057	6,057	6,057	5,507	5,507	5,507	5,507	5,507	5,507	5,507	4,948	4,516	4,516	4,516
Cartoned expanded plastic													4,948	4,516	4,516	4,516
Exposed nonexpanded plastic	6,057	6,057	6,057	6,057	6,057	5,507	5,507	5,507	5,507	5,507	5,507	5,507	4,948	4,516	4,516	4,516
<sup>1</sup> Required flow per sprinkler calcula	ted usir	ng Q=K	(√p) m	nultiplie	ed by n	umber	of desig	gn sprii	nklers (	12)						
<sup>2</sup> Requires one row of in-rack sprink	lers															



#### Early Suppression Fast Response (ESFR)







JFPA 13 - Required minimum flow (LPM) - Single-row, double-row, and multi-row rack storage (without solid shelves) <sup>1</sup>															
Ceiling height (m) >		13.7				12	2.2			10.7	9	.1	7.6		
Storage height (m) >	12.2	10.7	9.1	7.6	6.1	10.7	9.1	7.6	6.1	9.1	7.6	6.1	7.6	6.1	6.1
Class I-IV commodity	6,439	6,439	6,439	6,439	6,439	6,439	6,439	6,439	6,439	6,023	6,023	6,023	5,088	5,088	5,088
Cartoned nonexpanded plastic	6,439	6,439	6,439	6,439	6,439		6,439	6,439	6,439	6,023	6,023	6,023	5,088	5,088	5,088
Exposed nonexpanded plastic						7,196	7,196	7,196	6,439	6,023	6,023	6,023	5,088	5,088	5,088

<sup>1</sup> Required flow per sprinkler calculated using  $Q=K^*(\sqrt{p})$  multiplied by number of design sprinklers (12)

VK506 | ESFR Pendent | K22.4/320

#### VK510 | ESFR Pendent | K25.2/363

12080 (NPT), 2200 BSP)

175psi/12.1bar



FM

APPROVED

VdS

(VL)<sub>us</sub>

LISTER

Approvals	UL, FM, VdS, LPCB, GB (China)
Thread size & type	1"/25 mm NPT & BSP
Element	Fusiblelink
Temperatures	74°C, 96°C
Finishes	Brass
Wrench	13635W/B (Side B)
Tech Datasheet	F_100102

Base part number

Working pressure

- Protects up to 13.7 m (45 ft) high buildings without using in-rack sprinklers
- May reduce or eliminate the need for a fire pump
- UL Listed with deflector installed 102-457 mm (6"-18") below ceiling for ceiling heights up to 12.2 m (40 ft), 102-356 mm (6"-14") up to
- 13.7 m (45 ft) heights
- Available in 74°C and 96°C temperature ratings

#### NFPA 13 - Required minimum flow (LPM) - Single-row, double-row, and multi-row rack storage (without solid shelves)

		,	,		, .								.,		
Ceiling height (m) >		13.7					12	2.2		10.7 9.1				.1	7.6
Storage height (m) >	12.2	10.7	9.1	7.6	6.1	10.7	9.1	7.6	6.1	9.1	7.6	6.1	7.6	6.1	6.1
Class I-IV commodity	7,241	7,241	7,241	7,241	7,241	5,724	5,724	5,724	5,724	5,118	5,118	5,118	4,433	4,433	4,433
Cartoned nonexpanded plastic	7,241	7,241	7,241	7,241	7,241	5,724	5,724	5,724	5,724	5,118	5,118	5,118	4,433	4,433	4,433
Exposed nonexpanded plastic						8,097	8,097	8,097							

<sup>1</sup> Required flow per sprinkler calculated using  $Q=K^*(\sqrt{p})$  multiplied by number of design sprinklers (12)

#### VK5101 | ESFR Pendent | K25.2/363



Base part number	22259(NPT),22570(BSP)	<ul> <li>Protects up to 13.7 m (45 ft) high buildings without using in-rack</li> </ul>
Working pressure	175psi/12.1bar	sprinklers
Approvals	UL	<ul> <li>May reduce or eliminate the need for a fire pump</li> </ul>
Thread size & type	1"/25 mm NPT & BSP	UL Listed with deflector installed 102-457 mm (6"-18") below
Element	3mm glass bulb	ceiling for ceiling heights up to 12.2 m (40 ft), 102-356 mm (6"-14") up to
Temperatures	68°C, 93°C	<ul> <li>13.7 m (45 ft) heights</li> </ul>
Finishes	Brass	<ul> <li>Available in 74°C and 96°C temperature ratings</li> </ul>
Wrench	13635W/B (Side B)	
Tech Datasheet	F_010715	



NFPA 13 - Required minimum flo	w (LPM	) - Sing	le-row,	double	e-row, a	ind mu	lti-row	rack sto	orage (\	vithout	solid	shelves	;) <sup>1</sup>		
Ceiling height (m) >		13.7				12	2.2			10.7		9.1		7.6	
Storage height (m) >	12.2	10.7	9.1	7.6	6.1	10.7	9.1	7.6	6.1	9.1	7.6	6.1	7.6	6.1	6.1
Class I-IV commodity	7,241	7,241	7,241	7,241	7,241	5,724	5,724	5,724	5,724	5,118	5,118	5,118	4,433	4,433	4,433
Cartoned nonexpanded plastic	7,241	7,241	7,241	7,241	7,241	5,724	5,724	5,724	5,724	5,118	5,118	5,118	4,433	4,433	4,433
Exposed nonexpanded plastic						8,097	8,097	8,097							
1 Deguired flow per sprinkler calculated	Dequired flow per enviption coloridated using $O_{K}/(n)$ multiplied by number of design enviptions (12)														

Required flow per sprinkler calculated using  $Q=K^*(\sqrt{p})$  multiplied by number of design sprinklers (12)



#### Early Suppression Fast Response (ESFR)

AIKING

Base part number	22894(NPT),22894 <i>(</i> BSP)	Larger K-factor of K404 (28.0) results in lower pressure requirement
Working pressure	175psi/12.1bar	of 2.8 bar (40 psi)
Approvals	UL, FM	<ul> <li>UL Listed to protect up to 13.1 m (43 ft) high piled storage without using in-rack sprinklers with ceilings up to 14.6 m (48 ft)</li> </ul>
Thread size & type	1"/25 mm NPT & BSP	5 1 51 ( )
Element	Fusible link	<ul> <li>FM Approved to protect up to 15.2m (50ft) high piled storage without using in-rack sprinklers with ceilings up to 16.8 m (55 ft)</li> </ul>
Temperatures	74°C, 96°C	
Finishes	Brass	<ul> <li>Listed to utilize a minimum aisle width of 1.8m/6ft (UL – 13.1m/43ft storage or FM – 13.5m/45ft storage) or 2.4m/8ft (FM –</li> </ul>
Wrench	13635W/B (Side B)	15.2m/50ft storage).
Tech Datasheet	F_010715	<ul> <li>Available in 74°C and 96°C temperature ratings</li> </ul>

VK514 | ESFR Pendent | K28.0/404



NFPA 13 - Required minimum flov	v (LPM)
Ceiling height (m) >	all ceilings up to 14.6 m (UL)   15.2 m @ 2.8 bar (40 psi) & 16.7 m @ 5.5 bar (80 psi) (FM)
Storage height (m) >	all storage heights up to 13.1 m (UL)   13.5 m @ 2.8 bar (40 psi) and 15.2 m @ 5.5 bar (40 psi) (FM)
Class I-IV commodity	7,536
Cartoned nonexpanded plastic	7,536
Exposed nonexpanded plastic	
Exposed nonexpanded plastic	

## Dry Pendent Early Suppression Fast Response (ESFR)

	VK	502	ESI	RDr	y Per	nden	t   K1	4.0/	202											
Working pressure	1	75psi,	/12.1	bar		1.1	Prote	ects u	p to 1	0.7 m	า (35 ft	) high k	ouilding	gs with	out usi	ing in-i	rack			
Approvals	U	IL, FM					sprin	klers												
Thread size & type	e 11	1∕2″ NP	Т&В	SP		1.1	INST	ALL C	N WE	T SYS	STEMS	ONLY (I	not app	proved	for dry	/preac	tion			
Groovesize	2	"					systems)													
Element	F	Fusible link					<ul> <li>Uses same design criteria as standard K202 (14.0) ESFR pendent</li> </ul>													
Temperature	7	4°C					<ul> <li>Includes two dry sprinkler insulation boots (part no. 22089M/W)</li> </ul>													
Finishes	В	rass					<ul> <li>Offered with either a threaded or grooved connection</li> <li>Available in 74°C temperature rating</li> </ul>													
Wrench	R	efer to	o tecl	h data	sheet		Avaii	able	in 74	C ten	nperati	ure ratii	ng							
Tech Datasheet	F,	_0420	)12																	
Sprinklei	rdescr	ription			Bac	a nart	numbe	r		Sp	orinkler	descripti	on		Baco	nartnu	mbor			
Overalllength			et style		Dase	•				alllen	5		nletstyle		Dase					
18 <sup>5</sup> / <sub>8</sub> "(473 mm)		11/2" Grooved					18702 30 <sup>5</sup> / <sub>8</sub> "(778)						" Groove							
18 <sup>5</sup> / <sub>8</sub> "(473 mm)		11⁄2" NPT					18703 30 <sup>5</sup> / <sub>8</sub> "(778 r						1⁄2″ NPT				8710 8711 8712 8176 8177			
18 <sup>5</sup> / <sub>8</sub> "(473 mm)	1	11⁄2" / 40 mm BSP					18704 30 <sup>5</sup> / <sub>8</sub> ″(778						40 mm			Base part number 18710 18711 18712 18176 18177 18178				
24 <sup>5</sup> / <sub>8</sub> "(625 mm)			Groov			187			36 <sup>5</sup> / <sub>8</sub> " (930 mm) 36 <sup>5</sup> / <sub>8</sub> " (930 mm)											
24 <sup>5</sup> / <sub>8</sub> "(625 mm)			2″ NPT			187							11/2" NPT							
24 <sup>5</sup> / <sub>8</sub> "(625 mm)	1	1⁄2″ / 4	0 mm	BSP		187	'08		365/8	" (930 r	nm)	11/2" /	′ 40 mm	BSP		18178				
NFPA 13 - Required	minin	num fle	ow (Lf	PM) - Si	nale-ro	ow, do	ouble-ro	ow, ar	d mul	ti-row	rack sto	orage (w	ithout s	olid she	lves)1					
Ceiling height (m) >				13.7	5-	,			2.2			10.7		9.8	9	.1	7.6			
Storage height (m)		12.2	10.7	9.1	7.6	6.1	10.7	9.1	7.6	6.1	9.1	7.6	6.1	7.6	7.6	6.1	6.1			
Class I-IV commodit											5,507	5,507	5,507	4,929	4,497		4,497			
Cartoned non-expa plastic											5,507	5,507	5,507	4,929	·	4,497				
Cartoned expanded plastic	ł														4,497	4,497	4,497			
Exposed non-expar	I non-expanded										5,507	5,507	5,507	4,929	4,497	4,497	4,497			



#### Dry Pendent Early Suppression Fast Response (ESFR)

#### VK504 | ESFR Dry Pendent | K16.8/242

	Working pressure	175	psi/12	2.1bar							•	, ,		torage		using			
	Approvals	UL,	FM						•	klers ir	n build	ings wi	th 12.2	m (40 ft	:) high				
	Thread size & type	11/2"	'NPT &	&BSP				eilings											
	Groovesize	11/2'	,											ots (part			,		
	Element	Fus	iblelin	ık			<ul> <li>INSTALL ON WET SYSTEMS ONLY (not approved for dry/preaction systems)</li> <li>Available in 74°C and 96°C temperature ratings</li> </ul>												
	Temperatures	74°	C, 96°	С															
	Finishes	Bras	SS																
	Wrench	Ref	er to te	ech d	atash	eet													
	Tech Datasheet	F_0	62613	3															
	Sprinkler	descrip	otion				Base				Sprink	erdescri	ption			Paca			
	Overall length		Inlet	style		pa		tnumber Overall length Inlet style						tyle		Base part number			
	19½" (495 mm)		1½″ Gr	ooved	I		19225		3	1½″ (80	0 mm)		11/2" Gro	oved		19233	j		
	18½" (470 mm)		11⁄2" NPT				19226		3	01⁄2″(77	5 mm)		1½″ N			19234			
	18½"(470 mm)		1½" / 40 mm BSP				19227			01⁄2″ (77		11	∕₂″ / 40 n			19235			
	25½" (648 mm)		11/2" Grooved				19229			71⁄2″ (95	,		11/2" Gro			19015 19016			
	24½″ (622 mm)		.,=	NPT								1½″N							
	24½" (622 mm)	11	⁄₂″ / 40	mm B	SP		19231         36½" (927 mm)         1½" / 40 mm BSP         19017												
	NFPA 13 - Required m	inimur	n flow	(LPM)	- Singl	e-row,	double	e-row, a	and m	ulti-row	rack sto	orage (w	ithout so	olid shel	ves)1				
	Ceiling height (m) >			13.7				12	2.2			10.7		9.8	9	.1	7.6		
	Storage height (m) >	12,2	10.7	9.1	7.6	6.1	10.7	9.1	7.6	6.1	9.1	7.6	6.1	7.6	7.6	6.1	6.1		
	Class I-IV commodity	6,057	6,057 6,057 6,057 6,0			6,057	5,507	5,507	5,507	5,507	5,507	5,507	5,507	4,948	4,516	4,516	4,516		
	Cartoned non- expanded plastic	6,057	7 6,057 6,057 6,057 6,		6,057	5,507	5,507	5,507	5,507	5,507	5,507	5,507	4,948	4,516	4,516	4,516			
	Cartoned expanded plastic												4,948	4,516	4,516	4,516			
	Exposed non-expanded plastic	6,057	6,057	6,057	6,057	6,057	5,507	5,507	5,507	5,507	5,507	5,507	5,507	4,948	4,516	4,516	4,516		
PPROVED LISTED	<sup>1</sup> Required flow per sprink	ler calcu	lated us	sing Q=	K*(√p) ı	multipli	ed by nu	umber o	of desig	n sprinkl	ers (12)								
	<sup>2</sup> Requires one row of in-ra	ack sprir	nklers																

#### VK512 | ESFR Dry Pendent | K25.2/363

Working pressure	175psi/12.1bar	<ul> <li>Protects up to 15.2 m (55 ft) high buildings without using in-rack</li> </ul>
Approvals	FM	sprinklers
Groove size	11⁄2″	•
Element	Fusible link	<ul> <li>INSTALL ON WET SYSTEMS ONLY (not approved for dry/preaction</li> </ul>
Temperatures (°C)	74°C, 96°C	systems)
Finishes	Brass	Augilable in 74% or 06 % toronowature ration
Wrench	Refer to tech datasheet	<ul> <li>Available in 74°C or 96 °C temperature rating</li> </ul>
Tech Datasheet	F_071221	

Sprinkler d	Sprinkler description			Part number			Spr	inkler d	escriptio	on		Part number			
Overall length	Co	onnectio	on		(74°C)		Ove	rall leng	th	Cor	nnectio	n	(96°C)		
19½ "(495 mm)				2	4850A0	2	19½	"(495 m	m)				2	24850AI	Ξ
251⁄2" (648 mm)	114	″ Groov	od	2	4853A0	2	25½	"(648 m	m)	11//"	Groove	d	24853AE		
31½" (800 mm)	172 GIOOVEU		24856AC			31½	2″(800 mm)			/2 0100760		24856AE			
37½" (950mm)				24859AC			37½′	' (950 m	im)				24859AE		1
NFPA 13 - Required minimum flow (LPM) - Single-row, double-row, and multi-row rack storage (without solid shelves) <sup>1</sup> Ceiling height (m) >       13.7       12.2       10.7       9.1       7.6															
5 5 ( )	12.2	107		76	6.1	107			6.1	0.1		6.1			
Storage height (m) >	12.2	10.7	9.1	7.6	6.1	10.7	9.1	7.6	6.1	9.1	7.6	6.1	7.6	6.1	6.1
Class I-IV commodity	7,241	7,241	7,241	7,241	7,241	5,724	5,724	5,724	5,724	5,118	5,118	5,118	4,433	4,433	4,433
Cartoned non- expanded plastic	7,241	7,241	7,241	7,241	7,241	5,724	5,724	5,724	5,724	5,118	5,118	5,118	4,433	4,433	4,433
Exposed non- expanded plastic						8,097	8,097	8,097							
<sup>1</sup> Required flow per sprinkl	er calcula	ted using	g Q=K*(√	p) multip	lied by n	umber of	f design s	prinklers	(12)						

Note: Dry ELO Pendent Sprinklers (VK544, VK545, VK546, VK547, VK548 VK549) can be used for Storage applications.

Refer to page 17 to view these products

**FM** APPROVED



## Extended Coverage (EC)

#### VK595 | Extended Coverage Upright | K363 (25.2)



Base part number	16889 (NPT) 16885 (BSP)						
Working pressure	175psi/12.1bar						
Approvals	cULus, FM						
Response	Quick						
Thread size & type	1" (NPT), 25 mm(BSP)						
Element	Fusible link						
Temperatures	74°C, 100°C						
Finishes	Brass						
Wrench	16888M/B						
Tech Datasheet	F_121610						

16950 (NDT)

- 4.3 m x 4.3 m maximum coverage area (14 ft x 14 ft)
- Suitable for "unobstructed" and certain "non-combustible obstructed" construction
- FM Approved as a quick response, extended coverage sprinkler for both storage and non-storage applications
- Available in 74°C and 100°C temperature ratings

Example de (mm/mi		(Q) Flow rate / Sprinkler (LPM)	(P) Starting pressure (bar)	Example water demand (186 m <sup>2</sup> design area) (LPM)
12.2	18.2	252	0.5	2,778
16.3	18.2	297	0.7	3,267
20.4	18.2	371	1.0	4,081
24.4	18.2	445	1.5	4,898
28.5	9.3	265	0.5	5,300
28.5	18.2	519	2.0	5,712
32.6	9.3	303	0.7	6,057
<b>S</b> 32.6	18.2	594	2.7	6,530

#### Control Mode Specific Application (CMSA)

ssure 1 stype 1/2 ss 6 bs 6		.1ba 'NPT ssbu 2, 141	r		w cc A p e V	ater o ommo opprov aper, xpose K540	red for s and exp d) is appro	at per torag bande	netrate e of cla ed and	e the f ass I-I	ìre plu / comi	me an	d coo es, he	l the st avywei	ight ro	olled							
type ½ ss 6 0	ULus, FM Standard 2″ NPT, ¾″ 5 mm glas 58°C, 93°C Brass 95118CW/	'NPT ssbu 2, 141	lb		CC A P e	ommo opprov aper, xpose K540	edity ed for s and exp d) is appro	torag bande	e of cla d and	ass I-I	/ comi	moditie	es, he	avywei	ight ro	olled							
type ½ ss 6 0	6tandard 42″ NPT, 34″ 5 mm glas 68°C, 93°C 8rass 95118CW/	'NPT ssbu 2, 141	lb		p e • V	aper, xpose K540	and exp d) is appro	bande	d and				,		5								
type ½ 5 s 6 B 0	2″ NPT, ¾″ 5 mm glas 58°C, 93°C 8rass 05118CW/	ssbu 2, 141	lb		p e • V	aper, xpose K540	and exp d) is appro	bande	d and				,		5								
5 s 6 B 0	5 mm glas 58°C, 93°C Brass 05118CW/	ssbu 2, 141	lb		e V	xpose K540	d) is appro			none	храпи	eu pia:		Carton	eu an	u							
es 6 B 0	58°C, 93°C Brass 95118CW/	2, 141			- V	K540	is appro	ved f	or wet						paper, and expanded and nonexpanded plastics (cartoned and exposed)								
B 0	Brass Brass		1°C				•••	ved f	or wet														
0	)5118CW/	/B			• E			<ul> <li>VK540 is approved for wet, dry, and preaction systems</li> </ul>															
-		/B			<ul> <li>Eliminates the need for in-rack sprinklers in certain storage scenarios</li> </ul>									storaç	je								
eet F	090595		05118CW/B				OS																
	F_090595				<ul> <li>Available in 63°C, 93°C and 141°C temperature ratings</li> </ul>																		
ired minim	num flow (I	(LPM)	- Singl	e-row,	double	e-row, a	and mult	i-row ı	ack sto	rage (v	vithout	solid s	helves	)1									
m) >				13.7	12.2				10.7			9.1		7.6									
(m) >	1	2.2	10.7	9.1	7.6	6.1	10.7	9.1	7.6	6.1	9.1	7.6	6.1	7.6	6.1	6.1							
odity							8,6693				4,240	3,180		4,240	3,180								
dity												3,180		3,180	3,180								
dity												5,507		4,497	5,507	4,49							
xpanded p	olastic											7,344		4,497	7,344	4,4							
:												7,344		4,497	7,344	4,4							
Exposed plastic 7,344 4,497 7,344 4,497 7,344 4,497 <sup>1</sup> Required flow per sprinkler calculated using Q=K*(\p) multiplied by number of design sprinklers (12)																							
dit dit xpa	y y	y y anded plastic	y y anded plastic	y y anded plastic	y y anded plastic	y y anded plastic	y y anded plastic	y y anded plastic	y y anded plastic	y y anded plastic	y y anded plastic	y y anded plastic	y 3,180 y 5,507 anded plastic 7,344	y 3,180 y 5,507 anded plastic 7,344 7,344	y 3,180 3,180 y 5,507 4,497 anded plastic 7,344 4,497 7,344 4,497	y         3,180         3,1							



#### Control Mode Specific Application (CMSA)



Base part number	14243 (NPT),15468 (BSP)	<ul> <li>Protects up to 12.2 m (40 ft) high buildings without using in-rack</li> </ul>
Working pressure	175psi/12.1bar	sprinklers
Approvals	UL, FM,VdS	<ul> <li>Requires lower overall water usage than ESFRs and other CMSA</li> </ul>
Response	Standard	products
Thread size & type	1"/25 mm NPT & BSP	<ul> <li>Overcomes many obstruction challenges that impact ESFR sprinklers</li> </ul>
Element	Fusible link	<ul> <li>3.7 m (12 ft) spacing between sprinklers provides enhanced design</li> </ul>
Temperatures)	71°C, 96°C	flexibility
Finishes	Brass	• Listed and approved for warehouses with aisles as narrow as 1.2 m (4
Wrench	13635W/B (Side B)	ft)
Tech Datasheet	F_033108	<ul> <li>UL Listed for concrete tee construction (prohibited for ESFR sprinklers)</li> </ul>
		Sprinkers/

NFPA 13 - Required minimum flow (LPM) - Single-row, double-row, and multi-row rack storage (without solid shelves)<sup>1</sup>

VK592 | CMSA Pendent | K19.6/282.6

	•	, - J	/		, .								·		
Ceiling height (m) >		13.7				12.2			10.7			9.1		7.6	
Storage height (m) >	12.2	10.7	9.1	7.6	6.1	10.7	9.1	7.6	6.1	9.1	7.6	6.1	7.6	6.1	6.1
Class I-IV commodity						6,095	6,095	6,095	6,095	5,565	5,565	5,565	4,452	4,452	4,452
Cartoned nonexpanded plastic						6,095	6,095	6,095	6,095	5,565	5,565	5,565	4,452	4,452	4,452
* Unloss otherwise indicated the above	o data ic	bacad a	л ГМ ал	nroual a	uidalina										

<sup>6</sup> Unless otherwise indicated, the above data is based on FM approval guidelines.



<sup>1</sup> Required flow per sprinkler calculated using Q=K\*(\p) multiplied by number of design sprinklers (12)
<sup>2</sup>40ft Ceiling height is UL listed only. FM approved for up to 35ft Ceiling height (30t of storage)

<sup>3</sup>Based on UL listed design criteria. VK592 is not FM approved at 40ft Ceiling heights.

#### VK598 | Storage-Specific Application Upright | K25.2/363

(BSP)

°C

PPROVE

Base part number	19522 (NPT), 19764
Working pressure	175psi/12.1bar
Approvals	FM
Response	Standard
Thread size & type	1"/25 mm NPT & BSP
Element	5 mm glass bulb
Temperatures	68°C, 79°C, 93°C, 141
Finishes	Brass
Wrench	13635W/B (Side B)
Tech Datasheet	F_090414

. . . . . . . . .

- FM Approved to protect Class I-III commodities, when used in a dry or pre-action system (also approved for use on wet systems)
- Designed for greater flows at lower pressures to protect higher ceiling and storage heights—maximum storage height of 12.2 m (40 ft) with ceiling height of 13.7 m (45 ft)
- K-factor of 363 (25.2) can offer design pressures as low as 1.03 bar (15 psi) for dry and pre-action systems, and 0.49 bar (7 psi) for wet systems, which can often allow reduced pipe sizes and the elimination of a fire pump
- Eliminates the need for in-rack sprinklers
- Maximum sprinkler spacing of 3x3 m (10x10 ft)
- Available in ordinary, intermediate, and high temperature ratings  $68^\circ C, 79^\circ C, 93^\circ C$  and  $141^\circ C$





#### Control Mode Density Area (CMDA)

Dusc partneringer 05055 (11 1), riots (051) Example Sta CMDA (Q) Flow Rate / (P) Starting De	Example Water emand (2,000 ft <sup>2</sup> design area) 600 gpm
Working pressure       175psi/12.1bar       Density       Spk Spacing       Sprinkler       Pressure       Density       Spk Spacing       Sprinkler       Density	design area) 600 gpm
Approvals       cULus, FM       0.3 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 30 gpm       7.2psi         Image: Street	600 gpm
Thread size & type         ¾"/20mm NPT & BSP         0.4 gpm/ft²         100 ft²         40 gpm         12.8 psi           Element         5 mm glass bulb         0.5 gpm/ft²         100 ft²         50 gpm         19.9 psi           Wrench         05118CW/B         0.7 gpm/ft²         100 ft²         60 gpm         28.7 psi           The D to be to b	
Wrench         05118CW/B         0.5 gpm/ft²         100 ft²         50 gpm         19.9psi           Wrench         05118CW/B         0.7 gpm/ft²         100 ft²         60 gpm         28.7psi           Wrench         05118CW/B         0.7 gpm/ft²         100 ft²         70 gpm         39.1psi	800 gpm
Month         Use of the second s	1,000 gpm
APPROVED T L D L L L F G G G G G G G G G G G G G G G G	1,200 gpm
Tech Datasheet $F_010692$ $0.8 \text{ gpm/ft}^2$ $100 \text{ ft}^2$ $80 \text{ gpm}$ $51.0 \text{ psi}$	1,400 gpm
	1,600 gpm
VK531/VK5311   Quick Response ELO Upright   K11.2/161.3	
	Example Water emand (2,000 ft <sup>2</sup>
Working pressure 175psi/12.1bar	design area)
LPCB         Approvals*         cULus, FM, LPCB, VdS         0.3 gpm/ft²         100 ft²         30 gpm         7.2psi	600 gpm
Pre-assembled Thread size & type 1/2"/NPT, 3/2"/NPT 0.4 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 40 gpm 12.8psi Element 3 mm glass bulb 0.5 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 50 gpm 19.9psi	800 gpm
with Spinkler USTED DITIL 2 CW//P 0.6 appm/ft2 100 ft2 60 appm 72 72 rei	1,000 gpm 1,200 gpm
Cual 10033-0 Viench 11663W/B 0.7 gpm/ft2 100 ft2 70 gpm 39 1psi	1,400 gpm
*VK531 – cULus, FM Tech Datasheet F 010699 0.8 gpm/ff <sup>2</sup> 100 ff <sup>2</sup> 80 gpm 51.0psi	1,600 gpm
VK5311-LPCB & VdS	
VK536   Standard Response ELO Pendent   K11.2/161.3	
Example Std CMDA (Q) Flow Rate / (P) Starting	Example Water
Working pressure 173 ps/ 12.10an Density Spk spacing Sprinkler Pressure	emand (2,000 ft <sup>2</sup> design area)
Approvals cULus,FM 0.3 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 30 gpm 7.2psi	600 gpm
Thread size & type 3/4"/20mm NPT & BSP 0.4 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 40 gpm 12.8psi	800 gpm
Element 5 mm glass bulb 0.5 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 50 gpm 19.9psi	1,000 gpm
Wrench 05118CW/B, 0.6 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 60 gpm 28.7psi	1,200 gpm
λήγημα το μαριά ματά το στοποίο 0.7 gpm/π <sup>2</sup> 100 π <sup>2</sup> 70 gpm 39.1psi	1,400 gpm
Tech Datasheet         F_072213         0.8 gpm/ft²         100 ft²         80 gpm         51.0psi	1,600 gpm
VK377   Quick Response ELO Pendent   K11.2/161.3	
Example Std ( MU)A ( ()) Flow Rate / (P) Starting	Example Water
Working pressure 175psi/12.1bar Density Spk Spacing Sprinkler Pressure De	emand (2,000 ft <sup>2</sup> design area)
Approvals UL, FM, LPCB, VdS 0.3 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 30 gpm 7.2psi	600 gpm
Thread size & type ½"/15mm NPT, ¾"/20mm NPT 0.4 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 40 gpm 12.8psi	800 gpm
Element 3 mm glass bulb 0.5 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 50 gpm 19.9psj	1,000 gpm
Image: Strain and Str	
Pre-assembled with Sprinkler         Wrench         05118CW/B, 11663W/B         0.6 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 50 gpm         19.9psi           0.7 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 50 gpm         3 mm glass bulb         0.5 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 60 gpm         28.7psi	1,000 gpm 1,200 gpm 1,400 gpm
Pre-assembled         Wrench         05118CW/B, 11663W/B         0.5 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 50 gpm         120 psi           Pre-assembled         Image: Strate Str	1,000 gpm 1,200 gpm
Pre-assembled with Sprinkler         Wrench         05118CW/B, 11663W/B         0.6 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 50 gpm         19.9psi           0.7 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 50 gpm         3 mm glass bulb         0.5 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 60 gpm         28.7psi	1,000 gpm 1,200 gpm 1,400 gpm
Pre-assembled with Sprinkler Guard 08337-G       Wrench       05118CW/B, 11663W/B       0.5 gpm/ft²       100 ft²       50 gpm       19.9psi         VK580       Standard Response CMDA Upright       K16.8/242	1,000 gpm 1,200 gpm 1,400 gpm 1,600 gpm Example Water
Pre-assembled with Sprinkler Guard 08337-G       Wrench       05118CW/B, 11663W/B       0.5 gpm/ft²       100 ft²       50 gpm       19.9psi         VK580       Standard Response CMDA Upright       K16.8/242	1,000 gpm 1,200 gpm 1,400 gpm 1,600 gpm Example Water remand (2,000 ft <sup>2</sup>
Image: Standard Response CMDA Upright   K16.8/242         Image: Standard Response CMDA Upright	1,000 gpm 1,200 gpm 1,400 gpm 1,600 gpm Example Water lemand (2,000 ft <sup>2</sup> design area)
Image: Standard Response CMDA Upright       Std CMDA (Q) Flow Rate / Pressure       (P) Starting Pressure	1,000 gpm 1,200 gpm 1,400 gpm 1,600 gpm Example Water temand (2,000 ft <sup>2</sup> design area) 900 gpm
Image: State of the system	1,000 gpm 1,200 gpm 1,400 gpm 1,600 gpm Example Water lemand (2,000 ft <sup>2</sup> design area)
Image: Standard Response CMDA Upright   K16.8/242         Image: Standard Response CMDA Upright   Standard Response CMDA Upright   Standard Response	1,000 gpm 1,200 gpm 1,400 gpm 1,600 gpm 1,600 gpm Example Water remand (2,000 ft <sup>2</sup> design area) 900 gpm 1,000 gpm
Image: Standard Response CMDA Upright K16.8/242	1,000 gpm 1,200 gpm 1,400 gpm 1,600 gpm 1,600 gpm Example Water remand (2,000 ft <sup>2</sup> design area) 900 gpm 1,000 gpm 1,200 gpm
Wrench       3 mm glass bulb       0.5 gpm/ft2       100 ft2       50 gpm       19.9psi         Wrench       05118CW/B,       0.6 gpm/ft2       100 ft2       60 gpm       28.7psi         Guard 08337-G       Wrench       11663W/B       0.7 gpm/ft2       100 ft2       70 gpm       39.1psi         VK580       Standard Response CMDA Upright       K16.8/242         VK580       Standard Response       CMDA (Q) Flow Rate / (P) Starting Pressure       Pressure         Approvals       CULus FM       CULus FM       0.45 gpm/ft2       100 ft2       45 gpm       7.2psi         Stage for the start       5 mm glass bulb       Wrench       07297W/8       0.6 gpm/ft2       100 ft2       60 gpm <td>1,000 gpm 1,200 gpm 1,400 gpm 1,600 gpm 1,600 gpm Example Water emand (2,000 ft<sup>2</sup> design area) 900 gpm 1,000 gpm 1,200 gpm 1,200 gpm</td>	1,000 gpm 1,200 gpm 1,400 gpm 1,600 gpm 1,600 gpm Example Water emand (2,000 ft <sup>2</sup> design area) 900 gpm 1,000 gpm 1,200 gpm 1,200 gpm
Image: State of the symmetry of	1,000 gpm 1,200 gpm 1,400 gpm 1,600 gpm 1,600 gpm Example Water emand (2,000 ft <sup>2</sup> design area) 900 gpm 1,000 gpm 1,200 gpm 1,400 gpm 1,600 gpm
Image: State of the symmetry of	1,000 gpm 1,200 gpm 1,400 gpm 1,600 gpm 2,600 gpm 2,000 gpm 1,000 gpm 1,200 gpm 1,200 gpm 1,400 gpm 1,600 gpm 2,600 gpm 2,600 gpm
With Sprinker Guard 08337-G       With Sprinker (With Sprinker Guard 08337-G       With Sprinker (With Sprinker Guard 08337-G       Standard Response CMDA Upright   K16.8/242         With Sprinker Guard 08337-G       With Sprinker (With Sprinker Guard 08337-G       Nm glass bulb (With Sprinker Guard 08337-G       0.5 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 50 gpm       28.7psi (0.7 gpm/ft <sup>2</sup> )       0.6 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 60 gpm       28.7psi (0.7 gpm/ft <sup>2</sup> )       0.6 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 80 gpm       39.1psi (0.8 gpm/ft <sup>2</sup> )       0.6 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 80 gpm       51.0psi         VK580   Standard Response CMDA Upright   K16.8/242         Working pressure       12739 Working pressure       175psi/12.1bar Approvals       Example Spk Spacing       Std CMDA Sprinkler       (P) Starting Pressure       Develope Pressure       Develope Sprinkler       Pressure       Develope Pressure       0.45 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 45 gpm       7.2psi (0.5 gpm/ft <sup>2</sup> )       0.6 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 80 gpm       2.7psi (0.5 gpm/ft <sup>2</sup> )       0.6 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 80 gpm       2.27psi (0.8 gpm/ft <sup>2</sup> )       0.6 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 80 gpm       2.27psi (0.8 gpm/ft <sup>2</sup> )       0.6 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 80 gpm       2.27psi (0.8 gpm/ft <sup>2</sup> )       0.8 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 80 gpm       2.27psi (0.8 gpm/ft <sup>2</sup> )       0.8 gpm/ft <sup>2</sup>	1,000 gpm 1,200 gpm 1,400 gpm 1,600 gpm 1,600 gpm Example Water design area) 900 gpm 1,000 gpm 1,200 gpm 1,200 gpm 1,400 gpm 1,600 gpm
Wressembled with Sprinkler cuard 08337-6       Element       3 mm glass bulb       0.5 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 50 gpm       19.9psi       19.9psi         Wrench       05118CW/B, 11663W/B       0.5 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 60 gpm       28.7psi       0.7 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 60 gpm       28.7psi       0.7 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 60 gpm       28.7psi       0.7 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 60 gpm       28.7psi       0.7 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 60 gpm       28.7psi       0.7 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 70 gpm       39.1psi       0.8 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 80 gpm       51.0psi       0.8 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 80 gpm       51.0psi       0.8 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 80 gpm       51.0psi       0.8 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 80 gpm       51.0psi       0.6 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 50 gpm       8.9psi       0.6 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 50 gpm       8.9psi       0.6 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 50 gpm       8.9psi       0.6 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 50 gpm       8.9psi       0.6 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 50 gpm       12.8psi       0.7 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 60 gpm       12.8psi       0.7 gpm/ft <sup>2</sup> 100 ft <sup>2</sup> 80 gpm       22.7psi       0.8 gpm/ft <sup>2</sup> <td< td=""><td>1,000 gpm 1,200 gpm 1,400 gpm 1,600 gpm 1,600 gpm Example Water design area) 900 gpm 1,000 gpm 1,200 gpm 1,200 gpm 1,400 gpm 1,600 gpm Example Water temand (2,000 ft<sup>2</sup> design area) 600 gpm</td></td<>	1,000 gpm 1,200 gpm 1,400 gpm 1,600 gpm 1,600 gpm Example Water design area) 900 gpm 1,000 gpm 1,200 gpm 1,200 gpm 1,400 gpm 1,600 gpm Example Water temand (2,000 ft <sup>2</sup> design area) 600 gpm
We seemided with Spinkler Guard 0837-G       Winch       0518CW/B, 1663W/B       0.5 gpm/ft2       100 ft2       50 gpm       19.9psii       100 gpm         We seemided guard 0837-G       Winch       05118CW/B, 11663W/B       0.7 gpm/ft2       100 ft2       50 gpm       39.1psi       0.6 gpm/ft2       100 ft2       50 gpm       39.1psi       0.7 gpm/ft2       100 ft2       80 gpm       51.0psi         VK580   Standard Response CMDA Upright   K16.8/242         Working pressure       177.9psi/12.1bar         Approvals       CULus FM       0.45 gpm/ft2       100 ft2       50 gpm       8.9psi       0.6 gpm/ft2       100 ft2       50 gpm       8.9psi       6.0 gpm/ft2       100 ft2       50 gpm       8.9psi       6.0 gpm/ft2       100 ft2       50 gpm       8.9psi       6.0 gpm       7.2psi       6.0 gpm/ft2       100 ft2       50 gpm       8.9psi       6.0 gpm/ft2       100 ft2       50 gpm       7.2psi       0.5 gpm/ft2       100 ft2       80 gpm       2.7psi       0.5 gpm/ft2       100 ft2 <t< td=""><td>1,000 gpm 1,200 gpm 1,400 gpm 1,600 gpm 1,600 gpm Example Water design area) 900 gpm 1,000 gpm 1,200 gpm 1,200 gpm 1,400 gpm 1,600 gpm</td></t<>	1,000 gpm 1,200 gpm 1,400 gpm 1,600 gpm 1,600 gpm Example Water design area) 900 gpm 1,000 gpm 1,200 gpm 1,200 gpm 1,400 gpm 1,600 gpm
Weight of the second of th	1,000 gpm 1,200 gpm 1,400 gpm 1,600 gpm 1,600 gpm 200 gpm 1,000 gpm 1,200 gpm 1,200 gpm 1,200 gpm 1,400 gpm 1,600 gpm 2,200 ft <sup>2</sup> design area) 600 gpm 800 gpm
Were assembled with Spinker       Wire nch       11663W/B       0.5 gpm/ft2       100 ft2       50 gpm       120pai         Wrench       05118CW/B,       0.6 gpm/ft2       100 ft2       50 gpm       28.7psi       0.7 gpm/ft2       100 ft2       50 gpm       39.1psi       0.8 gpm/ft2       100 ft2       70 gpm       39.1psi       0.8 gpm/ft2       100 ft2       70 gpm       39.1psi       0.8 gpm/ft2       100 ft2       80 gpm       51.0psi       0.8 gpm/ft2       100 ft2       50 gpm       8.9psi       0.6 gpm/ft2       100 ft2       50 gpm       7.2psi       0.5 gpm/ft2       100 ft2       50 gpm <td>1,000 gpm 1,200 gpm 1,400 gpm 1,600 gpm 1,600 gpm 2,000 ft<sup>2</sup> design area) 900 gpm 1,000 gpm 1,200 gpm 1,200 gpm 1,400 gpm 1,600 gpm 2,000 ft<sup>2</sup> design area) 600 gpm 800 gpm 1,000 gpm</td>	1,000 gpm 1,200 gpm 1,400 gpm 1,600 gpm 1,600 gpm 2,000 ft <sup>2</sup> design area) 900 gpm 1,000 gpm 1,200 gpm 1,200 gpm 1,400 gpm 1,600 gpm 2,000 ft <sup>2</sup> design area) 600 gpm 800 gpm 1,000 gpm



Intermediate Level In-Rack | Pendent

VK102	Standard Response	K5.6/80.6	VK202   Standard Response   K8.0/115.2
	Base part number	12987	Base part number 18264
2 PB	Approvals	cULus, FM	Approvals cULus, FM
	Thread size & type	1/2"NPT	Thread size & type 34"NPT
	Finish	Brass	Finish Brass
	Tech Datasheet	F_012498	Tech Datasheet F_012498
UL US FM ISTED APPROVED	<ul> <li>Also available with fusible</li> <li>Guard protects sprinkler from</li> </ul>		Also available with fusible link (VK206, p/n 18254)     Guard protects sprinkler from water discharge ab
VK302	l   Quick Response   K	5.6/80.6	VK352   Quick Response Pendent   K8.0/115.2
	Base part number	12979	Base part number 18258
1	Approvals	cULus, FM	Approvals cULus, FM
CUS	Thread size & type	1/2"NPT	Thread size & type 34"NPT
	Finish	Brass	Finish Brass
K S	Tech Datasheet	F_012498	Tech Datasheet F_012498
	<ul> <li>Available in 250psi (VK317,</li> </ul>		<ul> <li>Also available with fusible link (VK353, p/n 18274)</li> </ul>
TED US FM	<ul> <li>Also available with fusible</li> </ul>	link (VK303, p/n 12275G)	
VK536   S	Standard Response   K	(11.2/161.3	
	Base part number	07961 U,14820U	
9	Approvals	cULus, FM	
	Thread size & type	¾"/20mm NPT & BSP	NOTE:
	Finish	Brass	<ul> <li>For preassembled with Water Shield, add 'U' suffix</li> <li>For preassembled with Sprinkler Guard, add 'G' suffix, water</li> </ul>
K X	Tech Datasheet	F_012498	shield p/n 10323 (order separately)
			<ul> <li>Preassembled guard protects sprinkler from damage</li> </ul>
			<ul> <li>Guard protects sprinkler from water discharge above</li> </ul>
STED APPROVED			

#### Intermediate Level In-Rack | Upright

VK55U	Standard Response	K5.0/80.0	VK500	Standard Response   H	\8.0/115.2
-	Base part number	12986		Base part number	18263, 12868
	Approvals	cULus, FM		Approvals	cULus, FM
	Thread size & type	1⁄2"NPT	Company D	Thread size & type	34"NPT , 1⁄2"NPT
	Finish	Brass		Finish	Brass
	Wrench	21475M/B		Wrench	21475M/B
	Tech Datasheet	F_012498		Tech Datasheet	F_012498
s FM APPROVED	<ul> <li>Also available with fusible</li> <li>Shield protects sprinkler f</li> </ul>	, , , , ,	CULUSTED US APPROVED	<ul> <li>Also available with fusible</li> <li>Shield protects sprinkler from the sprinkle</li></ul>	, ,,, ,
VK55	6   Quick Response   K	5.6/80.6	VK566	Quick Response   K8	.0/115.2
	Base part number	12978	-	Base part number	18257
4	Approvals	cULus, FM	1 ( 1 ( ) ) ,	Approvals	cULus, FM
	Thread size & type	1⁄2"NPT		Thread size & type	1⁄2"NPT
	Finish	Brass		Finish	Brass
	Wrench	21475M/B		Wrench	21475M/B
	Tech Datasheet	F_012498	THE	Tech Datasheet	F_012498
IS FM APPROVED	<ul> <li>Available in 250psi (VK558</li> <li>Available with fusible link</li> </ul>		CUU US CINAPHONED	<ul> <li>Available with fusible link (</li> </ul>	VK567, p/n 18275)
	Notes	:			
		preassembled with Water Sh			
		eld protects sprinkler from w			
		elds are used where guards a			
	For	preassembled with Sprinkler	Guard, add 'G' suffix		



## Standard Coverage | Pendent, Recessed Pendent, Concealed Pendent

		30.6							
	IF CERTIFY	4		ſ		4		Working Pressure	175psi/12.1bar
DAL PHI VER	-PCB	6		1		1		Approvals	cULus, FM, NYC, GB (China) LPCB – VK155, VK159, VK151
Board of	Randardia and Appeals						-	Thread size & type	1" NPT or 25mm BSP
_							2	Element	5mm glass bulb
AF	FM	-	TAX.	-	N.S.	-	TER	Temperature	68°C, 79°C, 93°C, 141°C
)ء	U)us	Adjustabl	e Standard	Adjustable	e Recessed	Plain Barrel		Finish	Brass, Chrome, White Polyester, ENT
	STED	SIN	Base p/n	SIN	Base p/n	SIN	Base p/n	Wrench	07297W/B, 07565W/B (recessed)
	1" NPT	VK154	07740U	VK158	06530U	VK150	07852U	Order Length Increment	<sup>1</sup> / <sub>2</sub> " (VK154, VK155, VK150, VK151)
	25mm BSP	VICIDE	07854U	VICIDO	07853U	VICIOU	07855U		¼" (VK158, VK159)
	LPCB	VK155	09341	VK159	09342	VK151	09343	Datasheet	F_071591

#### VK169, VK168 | Standard Response Pendent | K5.6/80.6



	Adjustable	e Standard	Adjustable Recessed		Plain Barrel		
	SIN	Base p/n	SIN	Base p/n	SIN	Base p/n	
1" NPT		-	VK169	10360U	VK168	09798U	
25mm BSP	-	-		VICIOS	10377U	VICTOO	09799U

Working Pressure	175psi/12.1bar
Approvals	-
Thread size & type	1" NPT or 25mm BSP
Element	5mm glass bulb
Temperature	68°C, 79°C, 93°C, 141°C
Finish	Stainless Steel
Wrench	07297W/B, 07565W/B (recessed)
Order Length Increment	½″ (VK168), ¼″ (VK169)
Datasheet	F_060796

VK190 | Standard Response Concealed Pendent | K5.6/80.6

Baard of Baard Execution	EVENT BSB 12420UA			Cover Plate
LIST		Base p/n	Base p/n	12381
	1″ NPT	12421UA		Polished Chrome , Painted White
	25mm BSP	12429UA	Finish	Painted Ivory, Painted Black

Working Pressure	175psi/12.1bar
Approvals	cULus, NYC
Thread size & type	1" NPT or 25mm BSP
Element	5mm glass bulb
Temperature	68°C, 79°C, 93°C
Finish	Brass
Wrench	07565W/B
Order Length Increment	1⁄4″
Datasheet	F_092003

Barrel of Stardar Executive	$\triangleright$						
ູ (ປ	Dus	Adjustable	e Standard	Adjustable	e Recessed	Plain	Barrel
LIST	/	SIN	Base p/n	SIN	Base p/n	SIN	Base p/n
	1" NPT	VK176	08383U	VK180	08385U	VK172	08387U
	25mm BSP	VKI70	16457U	VICTOO	16453U	VR1/2	16455U

#### VK176, VK180, VK172 | Quick Response Pendent | K5.6/80.6

175psi/12.1bar
cULus, FM, NYC
1" NPT or 25mm BSP
3mm glass bulb
68°C, 79°C, 93°C, 141°C
Brass, Chrome, White Polyester, ENT
07297W/B, 07565W/B (recessed)
½″ (VK176, Vk172), ¼″ (VK180)
F_031793

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#### Standard Coverage | Pendent, Recessed Pendent, Concealed Pendent

			VI	K 194   Quick Response Concea	led Pendent   K5.6/80.6		
					Working Pressure	175psi/12.1bar	
					Approvals	cULus, NYC	
				Thread size & type	1" NPT or 25mm BSP		
		Gi			Element	3mm glass bulb	
Board of Stands Executive	re Bossice					Temperature	68°C, 79°C, 93°C
۵.	Dus		4164		Cover Plate	Finish	Brass, Chrome, White Polyester, ENT
	STED	Base p/n	Base p/n	12381	Wrench	07565W/B	
	1″ NPT	12422UA	Finish	Polished Chrome , Painted White	Order Length Increment	1⁄4″	
			Datasheet	F_092103			



Working Pressure	175psi/12.1bar
Approvals	UL
Thread size & type	1″ NPT / 25mm
Element	Fusible link
Temperature	74°C, 96°C
Finish	White Polyester
Wrench	18315
Order Length Increment	1⁄4″
Datasheet	F_081512

VK163, VK164, VK166 | Standard Response Pendent | K8.0/115.2

		Adjustable	e Standard	Adjustable	e Recessed	Plain	Barrel
LIST	ED	SIN	Base p/n	SIN	Base p/n	SIN	Base p/n
	1″ NPT	VK163	12810U	VK164	12811U	VK166	12741U
	25mm BSP	VICIOS	12813U	VICTO	12814U	VI(100	12812U

Working Pressure	175psi/12.1bar
Approvals	cULus, NYC
Thread size & type	1" NPT or 25mm BSP
Element	5mm glass bulb
Temperature	68°C, 79°C, 93°C, 141°C
Finish	Brass, Chrome, White Polyester, ENT
Wrench	07297W/B, 07565W/B (recessed)
Order Length Increment	1⁄2" (VK163, VK166), 1⁄4" (VK164)
Datasheet	F_090110

VK192 | Standard Response Concealed Pendent | K8.0/115.2 175psi/12.1bar Working Pressure Approvals cULus, NYC Thread size & type 1" NPT or 25mm BSP Element 5mm glass bulb Temperature 68°C , 79°C, 93°C Finish Brass Cover Plate Wrench 07565W/B Base p/n Base p/n 12381 Order Length Increment 1⁄4″ 1″ NPT 12424UA Polished Chrome, Painted White Finish 25mm BSP 12432UA Painted Ivory, Painted Black Datasheet F\_081311

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Standard Coverage | Pendent, Recessed Pendent, Concealed Pendent

#### VK177, VK181, VK173 | Quick Response Pendent | K8.0/115.2

C C C DEC DE							
ب¢،	L) us	Adjustable	e Standard	Adjustable	e Recessed	Plain	Barrel
LISTED		SIN	Base p/n	SIN	Base p/n	SIN	Base p/n
	1" NPT	VK177	13249U	VK181	13250U	VK173	13248U
	25mm BSP	VKI//	13252U		13253U	VN1/3	13251U

Working Pressure	175psi/12.1bar
Approvals	cULus, NYC, CE
Thread size & type	1" NPT or 25mm BSP
Element	3mm glass bulb
Temperature	68°C , 79°C, 93°C, 141°C
Finish	Brass, Chrome, White Polyester, ENT
Wrench	07297W/B, 07565W/B (recessed)
Order Length Increment	1⁄2" (VK172, VK173), 1⁄4" (VK181)
Datasheet	F_010305

#### VK286, VK290, VK282 | Quick Response Pendent | K8.0/115.2

Bart of Encode								
°(n	L) us	Adjustable Standard		Adjustable Recessed		Plain Barrel		
LIST	ED	SIN	Base p/n	SIN	Base p/n	SIN	Base	
	1" NPT	VK286	13255U	VK290	13256U	VK282	1325	
	25mm BSP	VI\200	13258U	VI(290	13259U	VI\202	1325	

Working Pressure	175psi/12.1bar
Approvals	cULus, NYC
Thread size & type	1" NPT or 25mm BSP
Element	Fusible link
Temperature	74°C, 96°C, 138°C
Finish	Brass, Chrome, White Polyester
Wrench	07297W/B, 07565W/B (recessed)
Order Length Increment	1⁄2" (VK286, VK282), 1⁄4" (VK290)
Datasheet	F_010505

VK546, VK545, VK544 | Standard Response ELO Pendent | K11.2/161.3

Base p/n 13254U 13257U



#### Working Pressure 175psi/12.1bar Approvals FM Thread size & type 1¼" NPT or 32mm BSP Element Fusible link Temperature 74°C, 96°C, 138°C Brass, Chrome, White Polyester Finish Wrench 19748W/B Order Length Increment 6" (NPT), 153mm (BSPT) Datasheet F\_040815

Note: Dry ELO Pendent Sprinklers can be used for Storage applications.

VK549, VK548, VK547 | Quick Response ELO Pendent | K11.2/161.3 Adjustable Standard Adjustable Recessed Plain Barrel SIN SIN Base p/n Base p/n SIN Base p/n 1¼" NPT 19838 19833 19828 VK549 VK548 VK547 32mm BSP 19839 19834 19829

Working Pressure	175psi/12.1bar
Approvals	FM
Thread size & type	1¼" NPT or 32mm BSP
Element	Fusible link
Temperature	74°C, 96°C, 138°C
Finish	Brass, Chrome, White Polyester
Wrench	19748W/B
Order Length Increment	6" (NPT), 153mm (BSPT)
Datasheet	F_040915

Note: Dry ELO Pendent Sprinklers can be used for Storage applications.

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## Standard Coverage | Upright

			VK160   Standard Response Upright   K5.6/80.6	
			Working Pressure 17	75psi/12.1bar
	1		Approvals cU	ULus, FM, NYC
			Thread size & type 1"	" NPT or 25mm BSP
			Element 5m	mm glass bulb
		1	Temperature 68	8°C , 79°C, 93°C , 141°C
			Finish Bra	rass, Chrome, White Polyes
E	Base	p/n	Wrench 07	7297W/B
08050		Plain Barrel	Order Length Increment 1/2"	2″
08079				
			Datasheet F_ VK184   Quick Response Upright   K5.6/80.6	_033192
			VK184   Quick Response Upright   K5.6/80.6	_
			VK184   Quick Response Upright   K5.6/80.6 Working Pressure 17	- 175psi/12.1bar
		₹	VK184   Quick Response Upright   K5.6/80.6 Working Pressure 17 Approvals cL	– 175psi/12.1bar :ULus, NYC
			VK184   Quick Response Upright   K5.6/80.6 Working Pressure 17 Approvals cL Thread size & type 1″	– 175psi/12.1bar :ULus, NYC 1″ NPT / 25mm
			VK184   Quick Response Upright   K5.6/80.6 Working Pressure 17 Approvals CL Thread size & type 1" Element 3r	– 175psi/12.1bar :ULus, NYC 1″ NPT / 25mm 3mm glass bulb
			VK184   Quick Response Upright   K5.6/80.6       17         Working Pressure       17         Approvals       CL         Thread size & type       1"         Element       3r         Temperature       68	– 175psi/12.1bar 2ULus, NYC 1″ NPT / 25mm 3mm glass bulb 58°C , 79°C, 93°C , 141°C
			VK184   Quick Response Upright   K5.6/80.6       17         Approvals       17         Approvals       17         Element       37         Temperature       68         Finish       Br	- 175psi/12.1bar CULus, NYC 1″ NPT / 25mm 3mm glass bulb 58°C , 79°C, 93°C , 141°C 3rass, White Polyester
09417		Die Porri	VK184   Quick Response Upright   K5.6/80.6         Working Pressure       17         Approvals       CL         Thread size & type       1"         Element       3r         Temperature       68         Finish       Br         Wrench       07	- I75psi/12.1bar CULus, NYC I″ NPT / 25mm Bmm glass bulb 58°C , 79°C, 93°C , 141°C Brass, White Polyester D7297W/B
1		Plain Barrel	VK184   Quick Response Upright   K5.6/80.6       17         Working Pressure       17         Approvals       CL         Thread size & type       1"         Element       3r         Temperature       68         Finish       Br         Wrench       07         Order Length Increment       ½	- I75psi/12.1bar CULus, NYC I″ NPT / 25mm Bmm glass bulb 58°C , 79°C, 93°C , 141°C Brass, White Polyester D7297W/B

## Standard Coverage | Sidewall

		_	VK1	56, VK16	2, VK152	Standar	d Respon	se Horizontal Sidewall   I	K5.6/80.6
		-						Working Pressure	175psi/12.1bar
NV	c	20	m)	Fer		201		Approvals	cULus, FM, NYC, GB (China)
and of Standard Executive 1	as and Appeals Session			-J				Thread size & type	1" NPT or 25mm BSP
(FM)	$\geq$							Element	5mm glass bulb
APPROV	1							Temperature	68°C , 79°C, 93°C, 141°C
	jus D	,	e Standard	,	e Recessed		Barrel	Finish	Brass, Chrome, White Polyester, ENT
	1″ NPT	SIN	Base p/n 07857U	SIN	Base p/n 07856U	SIN	Base p/n 07858U	Wrench	07297W/B, 07565W/B (recessed)
	25mm BSP	VK156	07860U	VK162	078590	VK152	078500 07861U	Order Length Increment	1/2" (VK156, VK152), 1/4" (VK162)
	GB (China)	-	-	-	-	VK152	20375U	Datasheet	F 073091
			VK <sup>.</sup>	178, VK1	82, VK174			Horizontal Sidewall   K5	-
			VK.	178, VK1	82, VK174			Horizontal Sidewall   K5	.6/80.6
			VK	178, VK1	82, VK174			Horizontal Sidewall   K5 Working Pressure	.6/80.6 175psi/12.1bar
			VK	178, VK1	82, VK174			Horizontal Sidewall   K5	.6/80.6
u ef Staasland Dacoutive	CC V	100	VK	178, VK1	82, VK174			Horizontal Sidewall   K5 Working Pressure Approvals	.6/80.6 175psi/12.1bar cULus, FM, NYC
	RC Hard Associations Sectors HD	100	VK	178, VK1	82, VK174			Horizontal Sidewall   K5 Working Pressure Approvals Thread size & type	.6/80.6 175psi/12.1bar cULus, FM, NYC 1" NPT or 25mm BSP
	€ in and feaset ED ) us	Adjustable	VK Official e Standard	La	82, VK174	Quick		Horizontal Sidewall   K5 Working Pressure Approvals Thread size & type Element	.6/80.6 175psi/12.1bar cULus, FM, NYC 1" NPT or 25mm BSP 3mm glass bulb
E LISTE	The formation the formation of the forma	Adjustable SIN	D	La		Quick	Response	Horizontal Sidewall   K5 Working Pressure Approvals Thread size & type Element Temperature	.6/80.6 175psi/12.1bar cULus, FM, NYC 1" NPT or 25mm BSP 3mm glass bulb 68°C , 79°C, 93°C, 141°C
APPRIV LISTE	The formation the formation of the forma	,	e Standard	Adjustabl	e Recessed	Quick	Response	Horizontal Sidewall   K5 Working Pressure Approvals Thread size & type Element Temperature Finish	.6/80.6 175psi/12.1bar cULus, FM, NYC 1" NPT or 25mm BSP 3mm glass bulb 68°C , 79°C, 93°C, 141°C Brass, Chrome, White Polyester, ENT 07297W/B, 07565W/B (recessed)

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## Standard Coverage | Sidewall

VK157, VK161, VK153   Standard Response Vertical Sidewall   K5.6/80.6								
	4						Working Pressure	175psi/12.1bar
							Approvals	-
							Thread size & type	1" NPT or 25mm BSP
	1	2	d Adjustable Recessed		Plain Barrel		Element	5mm glass bulb
	-	-					Temperature	68°C , 79°C, 93°C , 141°C
	Adjustable	e Standard					Finish	Brass, Chrome, White Polyester
	SIN Base p/n SIN Base p/n		SIN	Base p/n	Wrench	07297W/B, 07565W/B (recessed)		
1″ NPT		09123U		09124U		09125U	Order Length Increment	1⁄2" (VK157, VK153), 1⁄4" (VK161)
25mm BSP	VK157	08961U	VK161	08962U VK153		08963U	Datasheet	F_011194

VK2523, VK2543, VK2503 | Standard Response Horizontal Sidewall | K8.0/115.2

	YCC divide an Agounta We tacatar	29.0				29.0	
ب)،	Dus	Adjustable	e Standard	Adjustable	Recessed	Plain	Barrel
LIS	TED	SIN	Base p/n	SIN	Base p/n	SIN	Base p/n
	1" NPT	VK2523	21487U	VK2543	21481U	VK2503	21493U
	25mm BSP		21488U		21482U		21494U

Working Pressure	175psi/12.1bar
Approvals	cULus, NYC
Thread size & type	1" NPT or 25mm BSP
Element	5mm glass bulb
Temperature	68°C , 79°C, 93°C , 141°C
Finish	Brass, Chrome, White Polyester, ENT
Wrench	07297W/B, 07565W/B (recessed)
Order Length Increment	1⁄2" (VK2523, VK2503), 1⁄4" (VK2543)
Datasheet	F_022817

VK2773, VK2793, VK2753 | Quick Response Horizontal Sidewall | K8.0/115.2

	XC Intel and Against We feature	and a		A CONTRACT				
°(h	L)us	Adjustable Standard		Adjustable Recessed		Plain Barrel		
LIST	ED	SIN	Base p/n	SIN	Base p/n	SIN	Base p/n	
	1" NPT	VK2773	21489U	VK2793	21483U	VK2753	21495U	
	25mm BSP	VI\2//J	21490U	VI\2/93	21484U	VI\2/33	21496U	

Working Pressure	175psi/12.1bar
Approvals	cULus, NYC
Thread size & type	1" NPT or 25mm BSP
Element	3mm glass bulb
Temperature	68°C , 79°C, 93°C , 141°C
Finish	Brass, Chrome, White Polyester, ENT
Wrench	07297W/B, 07565W/B (recessed)
Order Length Increment	1/2" (VK2773, VK2753), 1/4" (VK2793)
Datasheet	F_022617

VK2883, VK2923, VK2843 | Quick Response Horizontal Sidewall | K8.0/115.2

	YCC Indi av Apash			C.		29.0	
<u>ب</u>	Dus	Adjustable	e Standard	Adjustable	Recessed	Plain	Barrel
LIST	ED	SIN	Base p/n	SIN	Base p/n	SIN	Base p/n
	1" NPT	VK2883	21491U	VK2923	21485U	VK2843	21497U
	25mm BSP	112005	21492U	VILZJZJ	21486U	112045	21498U

Working Pressure	175psi/12.1bar
Approvals	cULus, NYC
Thread size & type	1" NPT or 25mm BSP
Element	Fusible link
Temperature	74°C, 96°C, 138°C
Finish	Brass, Chrome, White Polyester
Wrench	07297W/B, 07565W/B (recessed)
Order Length Increment	1/2" (VK2883, VK2843), 1/4" (VK2923)
Datasheet	F_022717

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#### **Extended** Coverage

#### VK186 | EC/QREC Pendent | K5.6/80.6

_			Coverage Area ftxft / mxm	Flow Requ gpm / lp
Based of Standards and Appendix Function Mentals		SGID		Quick Res
6			16x16 / 4.9x4.9	26 / 98
<u>وں</u>	Uus	091	18x18 / 5.5x5.5	33 / 124
LIG	STED			Standard Re
	Base p/n	10541U	20x20 / 6.1x6.1	40 / 15

Overage Area	Flow Required	Pressure
ftxft / mxm	gpm / lpm	psi / bar
	Quick Response	
6x16 / 4.9x4.9	26 / 98.4	21.6 / 1.49
8x18 / 5.5x5.5	33 / 124.9	34.7 / 2.39
	Standard Response	2
0x20/6.1x6.1	40/151.4	51.0 / 3.52

Working Pressure	175psi/12.1bar
Approvals	cULus, NYC
Thread size & type	1"/25mm NPT (BSP available on request)
Element	3mm glass bulb
Temperature	68°C , 79°C
Finish	Chrome, White Polyester, ENT
Wrench	07565W/B
Order Length Increment	1/4″
Datasheet	F_051498

#### VK188 | EC/QREC Horizontal Sidewall | K5.6/80.6

с <b>(</b>	Us STED	
	Base p/n	10542U

	Cover Plate				
Base p/n	12	381			
Finish	Polished Chrome , Painted White Painted Ivory, Painted Black				
Coverage Ar	ea	Flow Required	Pressure		
ftxft / mxm		gpm / lpm	psi / bar		
Quick Response					
16x16 / 4.9x4.9 26 / 98.4 21.6 / 1.49					
16x18 / 4.9x5.5 29 / 109.8			26.8 / 1.85		
Standard Response					
16x20 / 4.9x6.1 32 / 121.1 32.7 / 2.25					

Working Pressure	175psi/12.1bar
Approvals	cULus
Thread size & type	1" NPT / 25mm (BSP available on request)
Element	3mm glass bulb
Temperature	68°C , 79°C
Finish	Chrome, White Polyester, ENT
Wrench	07565W/B
Order Length Increment	1/4″
Datasheet	F_051598

#### VK196 | EC/QREC Domed Concealed Pendent | K5.6/80.6

Based at B Co	
	Base p/n

STED		18x18/5
		20x20/6
Ba	se p/n	
1″ NPT	12423UA	18x18/5
25mm BSP	12431UA	20x20/6

Coverage Area	Flow Required	Pressure		
ftxft / mxm	gpm / lpm	psi / bar		
	Quick Response			
16x16 / 4.9x4.9	26 / 98.4	21.6 / 1.49		
18x18 / 5.5x5.5	33 / 124.9	34.7 / 2.39		
20x20 / 6.1x6.1	40 / 151.4	51.0 / 3.52		
Standard Response				
18x18 / 5.5x5.5	33 / 124.9	34.7 / 2.39		
20x20 / 6.1x6.1	40 / 151.4	51.0 / 3.52		

Working Pressure	175psi/12.1bar
Approvals	cULus, NYC
Thread size & type	1" NPT or 25mm BSP
Element	3mm glass bulb
Temperature	57°C , 68°C, 79°C
Finish	Brass, ENT
Cover Plate Finish	Polished Chrome , Painted White Painted Ivory, Painted Black
Wrench	07565W/B
Order Length Increment	1/4″
Datasheet	F_092203

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# Sprinklers | Dry

			Dry Spri	inkler Order For	m			
Cu	stomer:			Ship to:				
Da	te:							
	#/Job:							
10								
<ul> <li>PI</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>A</li> </ul>	Pry sprinklers are custom made and NOT RETURNABLE.         Please follow these steps to ensure an accurate order         1. Check the desired SIN (Sprinkler Identification Number).         2. Check desired sprinkler finish and temperature. (Circle temp and finish for fusible link models.)         3. Enter A or B dimensions - see page 2 for dimensional references.         4. Enter order quantity.         A Dimension is the distance from the face of the fitting (tee) to desired finished surface of ceiling.         B Dimension is the distance from the face of the fitting (tee) to the top of the deflector - upright models only.         Pendent       VK154 (SR)         VK154 (SR)         VK154 (SR)         VK156 (SRLO)         VK177 (QR LO)         VK288 (QR LO?*)         VK288 (QR LO?*)         VK288 (QR LO?*)         VK177 (QR LO)         VK177 (QR LO)         VK288 (QR LO?*)         VK288 (QR LO?*)         VK288 (QR LO?*)					ure		
Standaı	□ VK286 (QR LO*) 'Fusible Link 165° 205° 280° (Circle temp) Lengths in ½" increments	12"-28" Note: Insulating boot included.	□ VK2883 (QR OH*) *Fusible Link 165° 205° 280° (Circle temp)		□ ENT (JN)         Image: Constraint of the system         Image: Consystem	Lengths in ¼" increme	□ 165°F ( □ 205 °F	
	Pendent	ELO Pendent	Horizontal Sidewall	Vertical Sidewall	Finish	Pendent	Finish	
djustable	□ VK158 (SR) □ VK164 (SR LO) □ VK186 (SR**) □ VK169 (SR***)	□ VK545 (SR ELO)* □ VK548 (QR ELO)* *Fusible Link 165° 205° 280° Brass Chrome White (Circle temp and finish)	<ul> <li>VK162 (SR)</li> <li>VK2543 (SR OH)</li> <li>VK188 (SR**)</li> <li>VK182 (QR)</li> </ul>	□ VK161 (SR)	□ Chrome (F) □ White (M) □ ENT (JN)	<ul> <li>VK190 (SR)</li> <li>VK192 (SR LO)</li> <li>VK196 (SR**)</li> <li>VK194 (QR)</li> </ul>	Chrom  Chrom  White  Ivory  Black	(M) M-/I)
Recessed Adjus	<ul> <li>VK180 (QR)</li> <li>VK181 (QR LO)</li> <li>VK186 (QR**)</li> <li>VK290 (QR LO*)</li> <li>*Fusible Link 165° 205°</li> <li>**Ext. Coverage 155° 175° (<i>Circle temp</i>)</li> <li>***Stainless Steel</li> </ul>	Lengths in 6" increments, 12"-28" Note: Insulating boot included.	<ul> <li>VK2793 (QR OH)</li> <li>VK188 (QR**)</li> <li>VK2923 (QR OH*)</li> <li>*Fusible Link 165° 205°</li> <li>**Ext. Coverage 155° 175° (Circle temp)</li> </ul>		Temperature         Official           155°F (68°C) (B)         175°F (79°C) (D)           200 °F (93°C (E)         Official           Lengths in         ¼" increments	**SR Ext Cov 155° ***QR Ext Cov 135° 155° 175 (Circle temp)	☐ 200 °F <i>Covers</i> ☐ 135°F ( ☐ 165°F (	s (68°C) (B) (79°C) (D) (93°C) (E) (57°C) (A)
	Pendent	ELO Pendent	Horizontal Sidewall	Vertical Sidewall	Upright	Lengths in ¼" increme	A or B Dim:	Otv:
Plain Barrel	<ul> <li>VK150 (SR)</li> <li>VK166 (SR LO)</li> </ul>	ELO Pendent VK544 (SR ELO)* VK547 (QR ELO)* *Fusible Link 165° 205° 280° Brass Chrome White (Circle temp and finish) Lengths in 6" increments, 12"-48" Note: Insulating boot included.	<ul> <li>VK152 (SR)</li> <li>VK2503 (SR OH)</li> <li>VK174 (QR)</li> <li>VK2753 (QR OH)</li> </ul>	VK153 (SR)	Upright UK160 (SR)* VK184 (QR)* Available in Brass only	Chrome (F) Brass (A) ENT (JN)	A or B Dim:	Qty: 

All part numbers listed are NPT thread size.



#### Determining A and B Dimensions

Quantity	A / B Dimension	SIN

Dry sprinklers are customer specific products and are NOT RETURNABLE. Any changes made after order submission are subject to charges for manufacturing processes completed at the time of change or cancellation. These charges could be equal to the value of the original order. Please check the information carefully before ordering. Refer to Viking Technical Data for detailed product information.

Authorized by:

(Customer Signature)

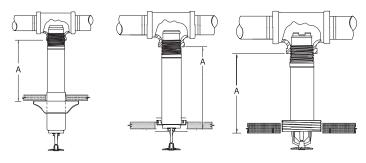
#### For "A" Dimension:

#### Plain Barrel Pendent and HSW

- 1. Determine distance from face of the tee to the base of the sprinkler.
- 2. Round up to next highest ½" (13 mm) increment between 3" (76 mm) and 47" (1194 mm).



#### Standard Adjustable, Recessed Adjustable, Domed Concealed Pendent and HSW

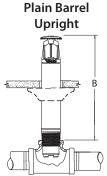


#### For "A" Dimension:

- 1. Determine the distance from the face of tee to the surface of finished ceiling or wall.
- 2. For Standard Adjustable round to the nearest 1/2" (13 mm) between 1-1/2" and 45-1/2" (38 mm and 1156 mm).
  - For Recessed Adjustable round to the nearest 1/4" (6 mm) between 3-1/4" and 47-1/2" (83 mm and 1207mm).
  - For Domed Concealed round to the nearest 1/4" (6 mm) between 4" and 48-1/4" (102 mm and 1226 mm).

#### For "B" Dimension:

- 1. Determine the distance from the face of the tee to the top of the sprinkler deflector.
- 2. Round to the nearest ½" (13 mm) increment between 4-½" and 48-½" (114 mm and 1232 mm).





#### Attic Sprinklers

Viking Specific Application Attic Sprinklers are designed to provide superior fire protection in combustible and non-combustible sloped attic spaces when compared to standard spray attic protection. The attic sprinklers are UL Listed for both wet and dry pipe systems in combustible and non-combustible sloped attic spaces and can be installed with steel or CPVC piping. (CPVC is allowed on wet pipe systems only.)



#### Interstitial Space Sprinklers

Viking QR COIN® Sprinklers are quick response specific application sprinklers for combustible interstitial (concealed) spaces (e.g. between floors, as well as low pitch attics that meet the criteria shown in the figures in this data page). These upright sprinklers are designed for use in specific light hazard combustible, as well as non-combustible, concealed spaces requiring sprinkler protection.



COIN® VK950

5.6/80.6 K-factor



COIN® VK900 4.2/57.0 K-factor



COIN® VK901 4.2/57.0 K-factor



K Factors	4.2/57.0, 5.6/80.6
Working Pressure	175psi / 12 bar
Thread Size	½" NPT / 15mm
Orientation	Upright
Finishes	Brass or ENT
Wrench	21475M/B
Approvals	cULus
Technical Datasheets	F_081216 (VK950) F_110503 (VK900) F_021607 (VK901)

#### Institutional Sprinklers

Viking Institutional Style Sprinklers are small, flush, solder link and lever sprinklers made with tamper-resistant construction. The sprinklers are quick response and specifically designed for use with concealed piping in institutional mental health occupancies, correctional facilities, or anywhere a likelihood of tampering with fire sprinklers by the occupants may exist.



VK426 QR, Pendent 5.6/80.6 K-factor

VK650 QR EC, Pendent 5.6/80.6 K-factor



QR EC, HSW 5.6/80.6 K-factor 5.6/80.6 K-factor

	K Factors	5.6/80.6
	Coverage	Standard Coverage (VK426, VK427) Extended Coverage (VK650, VK651)
	Temperature Ratings	74°C / 165°F, 96°C / 205°F
	Working Pressure	175psi / 12 bar
	Thread Size	½" NPT / 15mm
	Finishes	Chrome, Painted White, Painted Grey
	Wrench	22847MB
	Approvals	cULus
S	Technical Datasheet	F_032319



#### DS-21 Preaction Sprinkler

Viking DS21-FM Preaction Sprinkler is used in wet systems in areas where the risk of water damage is high and the need to prevent accidental discharge due to a damage sprinkler. The DS21-FM is an assembly whereby the activation of either one of the sprinkler will trigger an alarm. Water will only be released when the other sprinkler is activated.

The DS21-FM is highly recommended for small rooms of up to 6 Preaction Sprinklers and can be retrofitted to existing sprinkler system. Each DS21-FM has a coverage of 9m<sup>2</sup>. fire.

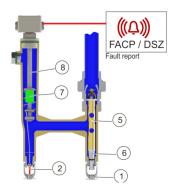


The DS21-FM preaction sprinkler unit consists of a housing with two separate sprinkler heads. Before water is released, both sprinkler heads in the unit must be triggered.

If only one sprinkler head is triggered, an acoustic or visual alarm signal is generated at the monitoring panel. This allows the operator to respond quickly and repair the damaged sprinkler head, avoiding the risk of water damage.

The DS21-FM preaction sprinkler for dry systems is equipped with an additional pressure switch. When the left sprinkler head is triggered, compressed air flows into the preaction sprinkler housing and activates the pressure switch generating an alarm signal at the monitoring panel.

#### How does the DS21-FM preaction sprinkler work?



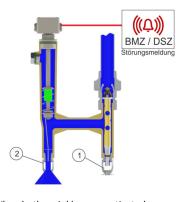
<u>When sprinkler 1 is activated</u> When the glass bulb of the sprinkler (1) bursts, the piston (5) drops, sealing (6) the sprinkler.

As the water flows into the sprinkler, the float ⑦ rises and activates the float switch ⑧. A signal is sent to a monitoring device which gives out an audible alarm.



When sprinkler 2 is activated

When the glass bulb of the sprinkler (2) bursts, the rod (9) and float (7) drops, sealing the sprinkler opening. Water does not enter the preaction sprinkler. The float activates the float switch. A signal is sent to a monitoring device which gives out an audible alarm.



 $\frac{When \ both \ sprinklers \ are \ activated}{When \ both \ sprinklers \ (1) \ and \ rod \ (9) \ and \ float \ (7) \ are \ activated, \ the \ piston \ (5) \ drops$ 

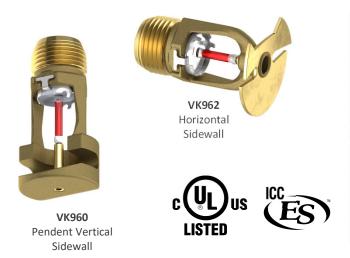
and seals sprinkler (2). At the same time the rod (9) and float (7) drops activating the float switch. A signal is sent to a monitoring device which gives out an audible alarm.

Water enters the preaction sprinkler and is discharged through sprinkler rod 9 and float 7



#### Window Sprinklers

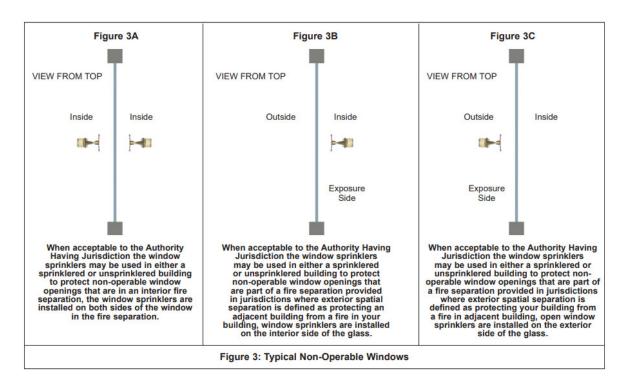
Viking's specific application window sprinklers are used with fixed glazed assemblies to provide an alternative to a fire resistance rated wall assembly. The sprinklers feature a unique spray pattern that coats the surface of the glass with water, reducing the risk of cracking or shattering in the event of a fire.



SIN	VK960, VK962
Base Part Numbers	23832, 23829 (VSW) 23834,23831 (HSW)
K Factor	5.6 / 80.6
Temperature Rating	68°C / 155°F, 93°C / 200°F
Working Pressure	175psi / 12 bar
Thread Size	½" NPT , 15mm BSP
Finishes	Brass, Chrome, White Polyester Black Polyester, ENT
Wrench	23559MB
Approvals	cULus, ICC-ES
Technical Datasheet	F_042519

#### Features and advantages of Viking's window sprinklers:

- Available in both pendent vertical sidewall (VK960) and horizontal sidewall (VK962) models.
- The VK960 is Listed for up to 12 ft / 3.7 m spacing between sprinklers, along with 7 ft / 2.1 m maximum distance from vertical mullions.
- The VK960 is also listed at 15 gpm / 56.8 lpm at all spacings up to 12 ft / 3.7 m.
- Both pendent vertical sidewall and horizontal sidewall models offer a maximum pressure rating of 175 psi in all approved applications.



**Note:** For Model C-1 Window Sprinkler, please refer to the Nozzles Section.



## Sprinkler Guards & Shields

Accessory	Description	Applicable SIN	Options
<b>R</b>	XG Sprinkler Guard	VK1001, VK1021, VK3001, VK3021, VK2002, VK2022, VK3502, VK3522, VK2001, VK2021, VK3501, VK3521	½"/15mm or ¾"/20mm. Steel
	XWU Water Shield *	VK1001, VK3001, VK2002, VK3502, VK2001, VK3501	86mm Diameter Steel
-	F-1 Pendent Water Shield	VK1021, VK3021, VK2022, VK3521, VK2021, VK3522	75mm Diameter. ½"/15mm or ¾"/20mm. Steel
	A-1 Sprinkler Guard	VK100, VK102, VK108, VK110 , VK130, VK132, VK200, VK202, VK206, VK300, VK302, VK350, VK352	½"/15mm or ¾"/20mm. Steel
	B-1 Guard with shield	VK100, VK108,VK200, VK300, VK350	½"/15mm. Steel
	Model C-1 Guard with shield	VK102, VK110, VK202, VK206, VK302, VK352	½"/15mm or ¾"/20mm. Steel
	Model C-1 Guard	VK102, VK110, VK202, VK206, VK302, VK352	½"/15mm or ¾"/20mm. Steel
	Model C-1 Water Shield	VK102, VK110, VK202, VK206, VK302, VK352	½"/15mm or ¾"/20mm. Steel
	D-1 Sprinkler Guard	VK001, VK003, VK100, VK102, VK108, VK110, VK122, VK124, VK130, VK132, VK200, VK202, VK204, VK206, VK300, VK301, VK302, VK303, VK350, VK352, VK377, VK536	
	Dry Sprinkler Guard	For VIKING Dry Upright, Pendent and Vertical Sidewall models only	
	NP-1 Slip-on Escutcheon	Suitable for most VIKING Sprinklers with thread size ½"/15mm or ¾"/20mm . Refer to Sprinkler Technical Datasheets	78mm Diamter. ½"/15mm or ¾"/20mm. Steel or Stainless Steel
	NP-2 Threaded Escutcheon	Suitable for most VIKING Sprinklers with thread size ½"/15mm or ¾"/20mm . Refer to Sprinkler Technical Datasheets	78mm Diameter. ½"/15mm or ¾"/20mm. Steel Only
-	Flat Surface Mount Escutcheon	Suitable for most VIKING Sprinklers with thread size ½"/15mm or ¾"/20mm . Refer to Sprinkler Technical Datasheets	70mm, 78mm, 84mm Diameter. ½"/15mm or ¾"/20mm. Steel Only
	E-1 Slip-on Escutcheon	Suitable for most VIKING Sprinklers with thread size ½"/15mm or ¾"/20mm . Refer to Sprinkler Technical Datasheets	78mm Diameter. ½"/15mm or ¾"/20mm. Steel or Stainless Steel
	E-2 Threaded Escutcheon	Suitable for most VIKING Sprinklers with thread size ½"/15mm or ¾"/20mm . Refer to Sprinkler Technical Datasheets	79mm Diameter. ½"/15mm or ¾"/20mm. Steel Only
	G-1 Recessed Escutcheon	Suitable for most VIKING Sprinklers with thread size ½"/15mm or ¾"/20mm . Refer to Sprinkler Technical Datasheets	102mm Diameter. ½"/15mm or ¾"/20mm. Steel Only
	EG-100 ESFR Sprinkler Guard	VK506, VK510, VK514	Chrome or Red Finish

#### Notes:

Images shown are for illustration purposes only and may not accurately represent the actual physical product.

Refer to the relevant technical datasheets for more information.

## Concealed Sprinkler Cover Plates



		Optional Custom Col	ours are available on rec	uest, UL Listed	& FM Approved UL Listed and FM Approved.		
Cover Type	Diameter or Length x Width	Base Part Number	Temperature Ratings	Finishes	For Sprinkler Models		
Domed Pendent / Dry Pendent	80mm/ 3 <sup>1</sup> / <sub>8</sub> "	12381	57°C / 135°F, 74°C / 165°F	A	VK102, VK190, VK192, VK194, VK196, VK202, VK302, VK352, VK353, VK614, VK616,VK618		
Domed Sidewall	80mm / 3 <sup>1</sup> / <sub>8</sub> "	13501	57°C / 135°F, 74°C / 165°F	В	VK630		
Flat Pendent	70mm / 2 <sup>3</sup> / <sub>4</sub> "	23190 <sup>T</sup>	57°C/135°F,	с	VK461 to VK465, VK464-MRI, VK632, VK634,		
	7011117 274	23447 <sup>P</sup>	74°C / 165°F	C	VK492, VK4611, VK4621, VK4921, VK4651		
Stainless Steel Flat	70mm / 2 <sup>3</sup> / <sub>4</sub> "	23193 <sup>T</sup>	57°C / 135°F,	No Finish	VK462, VK4611, VK4621, VK4921, VK4651		
Pendent	7011117 274	23455 <sup>P</sup>	74°C / 165°F	NO TITIST	VR402, VR4011, VR4021, VR4321, VR4031		
Flat Pendent	84mm / 3 <sup>5</sup> / <sub>16</sub> "	23495 <sup>⊤</sup>	57°C/135°F,	С			
(large Diameter)	0411111/ 5/ <sub>16</sub>	15765 <sup>P</sup>	74°C / 165°F	C	VK469, VK636, VK538		
Stainless Steel Flat Pendent	84mm / 3⁵/ <sub>16</sub> "	23504 <sup>T</sup> 57°C / 135°F,		No Finish	VK538		
(large Diameter)	84mm/ 3/ <sub>16</sub>	21878 <sup>P</sup>	74°C / 165°F	NO FINISN	V730		
Flat HSW (large diameter)	84mm / 3 <sup>5</sup> / <sub>16</sub> "	16207	57°C / 135°F, 74°C / 165°F	C, Printable	VK481		
	-	16207	57°C / 135°F	В	VK680		
Flat Commercial	84mm / 3 <sup>5</sup> / <sub>16</sub> "	23174 <sup>⊤</sup>	57°C/135°F,	с	VK461 to VK465, VK464-MRI, VK632, VK634,		
(large diameter)	041111/ 0716	23463 <sup>P</sup>	74°C / 165°F	C	VK492, VK4611, VK4621, VK4921, VK4651		
Stainless Steel Flat Commercial	84mm / 3 <sup>5</sup> / <sub>16</sub> "	23183 <sup>T</sup>	57°C/135°F,	No Finish	VK462, VK4611, VK4621, VK4921, VK4651		
(large diameter)	04mm/ 5/16	23473 <sup>P</sup>	74°C / 165°F	NOTIMIST	VR402, VR4011, VR4021, VR4021, VR4031		
Cleanroom Flat Commercial	84mm / 3 <sup>5</sup> / <sub>16</sub> "	23174-/CR <sup>T</sup>	57°C/135°F,	D	VK462 (QR), VK4621, VK464 (SR)		
(large diameter)	0411117 5 / 16	23463-/CR <sup>P</sup>	74°C / 165°F				
Cleanroom Flat Commercial	84mm / 3 <sup>5</sup> / <sub>16</sub> "	23495-/CR <sup>T</sup>	57°C / 135°F,	D	VK469 (QR)		
(large diameter)		15765-/CR <sup>P</sup>	74°C / 165°F				
Stainless Steel Cleanroom Flat Commercial	84mm / 3 <sup>5</sup> / <sub>16</sub> "	23183-/CR <sup>T</sup>	57°C / 135°F	No Finish	VK462 (QR), VK4621		
(large diameter)		23473-/CR <sup>P</sup>					
Square Flat Commercial	84mm / 3 <sup>5</sup> / <sub>16</sub> " X	23179 <sup>T</sup>	57°C/135°F,	С	VK461 to VK465, VK464-MRI, VK632, VK634,		
(large)	^ 84mm / 3⁵/ <sub>16</sub> "	23482 <sup>P</sup>	74°C / 165°F		VK492, VK4611, VK4621, VK4921, VK4651		

Notes:

<sup>T</sup> Thread-on style Cover Plate

<sup>P</sup> Push-on style Type Cover Plate

#### Finishes

A: Polished Chrome, Brass, Painted White, Painted Ivory, Painted Black

B: Polished Chrome, Painted White, Painted Ivory, Painted Black

C: Polished Chrome, Brushed Chrome, Brass, Antique Brass, Brushed Brass, Brushed Copper, Painted White, Painted Ivory, Painted Black

D: Polished Chrome, Bright Brass, Painted White, Painted Ivory



#### Model E Spray Nozzles

		SIN	Spray Angle	Minimum Operating Pressure	10 psi / 0.7 bar	
		VK810	65°			
		VK811	80°	Working Pressure	175psi / 12 bar	
		VK812	95°	Thread Size	½" NPT / 15mm	
	LISTED	VK813	110°		1.2/17.3, 1.8/25.9, 2.3/33.1, 3.2/46.1,	
NIKINA		VK814	125°	K - Factors	4.1/59.0, 5.6/80.6, 7.2/103.7	
	<fm></fm>	VK815	140°	Approvals	cULus, FM, GB (China)	
	APPBOVED	VK816	160°			
		VK817	180°	Technical Datasheet	F_062104	

#### Model C-1 Window Sprinklers

		SIN	K-Factor	Thread	Minimum Operating Pressure	7 psi / 0.5 bar
	NYC	VK790	1.5/21.6		Working Pressure	175psi / 12 bar
	Buildings	VK791	2.1/30.3	½" NPT / 15mm		1/ " / 15 mm NDT (\/// 700 \/// 704)
	c(UL)us	VK792	3.0/43.2		Thread Size	½" / 15mm NPT (VK790-VK794) ¾" / 20mm NPT (VK795, VK796)
	LISTED	VK793	4.3/62.0		K - Factors	1.5/21.6 to 8.1/116.8
T		VK794	5.8/83.6		K Tuctors	1.5/21.0 to 0.1/110.0
and the second second	<fm></fm>				Approvals	cULus , FM, NYC
A A A	$\sim$	VK795 7.3/105.2	3⁄4" NPT /			
	APPROVED	VK796	8.1/116.8	20mm	Technical Datasheet	F_051800

#### Model M Frame Style Spray Nozzles



Minimum Operating Pressure	7 psi / 0.5 bar
Working Pressure	175psi / 12 bar
Thread Size	½" NPT / 15mm
K - Factors	1.4/20, 1.9/27, 2.8/40, 4.2/60, 5.6/80
Temperature Range	135-286°F / 57-141°C
Spray Angles	60°, 90°, 120°, 150°
Finishes	Brass or Black PTFE
Approvals	cULus, NYC
Technical Datasheet	F_011594

#### Solid Cone High Velocity Spray Nozzles

Vuccous (II)		ть	Thread Size		½" NPT / 15mm				Model A-2					
			Thread Size			/2 1011/15/11/1			SIN	K-Fact	or Spray	Angle		
	5	ւար	IS Fir	Finishes			Brass or ENT			VK740	1	3	0°	
		LISTED								VK741	1.2/17	7.0 6	0°	
	)		Op	otion		Polyethylene Cap (Dust Plug)			Plug)	VK742		9	0°	
		< FM	>	provals		cULus, FM, NYC, GB (China)			na)	VK743	1.4/20	0.0 12	20°	
	APPROVED					00 Luo,, o, 00 (0u,			,	VK743	1.5/22	L.6 12	20°	
			Те	Technical Datasheet		F_030789			VK744	1.4/20	0.0 14	10°		
	Model A-	2X		Model B-2			Model C-2			N		Model D	Vodel D-2	
SIN	K-Factor	Spray Angle	SIN	K-Factor	Spray An	Igle	SIN	K-Factor	Spray A	Angle	SIN	K-Factor	Spray Angle	
VK750		30°	VK760		30°		VK770	2 2/47 5	30	0	VK780	4.3/61.9	30°	
VK751	2.0/29.0	60°	VK761	2.8/40.0	2.8/40.0 60°		VK771	3.3/47.5	60	o	VK781	4.6/69.1	60°	
VK752		90°	VK762		90°		VK772	3.8/54.7	90	0	VK782	5.0/72.0	90°	
VK753	2 2/22 0	120°	VK763	2 2/47 5	120°		VK773	27/522	120	)°	VK783	40/700	120°	
VK754	2.2/32.0	140°	VK764	3.3/47.5	140°		VK774	3.7/53.3	140	)°	VK784	4.9/70.6	140°	



#### Alarm Check Valves | Model J-1



Valve Sizes	3"/DN80, 4"/DN100, 6"/DN150, 8"/DN200
Connection Types	Flange/Flange, Groove/ Groove, Flange/Groove
Connection Specifications	Flange: ANSI150*, PN10/16 Grooved: ANSI/AWWA C606
Pressure Rating	20.7bar/300psi water working pressure
Listings & Approvals	cULus, FM, LPCB, VdS, CE, CCC, ABS, NYC

## Swing Check Valves | Model E-1 & F-1





	Valve Sizes	3"/DN80, 4"/DN100, 6"/DN150, 8"/DN200
	Connection Types	Flange/Flange, Groove/ Groove, Flange/Groove
	Connection Specifications	Flange: ANSI150*, PN10/16 Grooved: ANSI/AWWA C606
	Pressure Rating	20.7bar/300psi water working pressure
US	Listings & Approvals	cULus, FM, CE, CCC, ABS, NYC, VNIIPO

#### Check Valves | Model M-2





The Viking 4" Model M-2 Check Valve is a general-purpose rubber-faced check valve approved for use in fire service systems.

#### Retard Chambers | Model C-1





The Viking Model C-1 Retard Chamber is a surge tank used with Viking Alarm Check Valves to reduce the possibility of false alarms due to changes in the water supply pressure.

#### Spring Loaded In-line Check Valve | Model K-1, L-1





The Viking Spring Loaded In-Line Check Valve is a general-purpose rubber-faced check valve approved for use in fire-service systems and may be installed vertically or horizontally.

#### Swing Check Valves | Model D-1, G-1

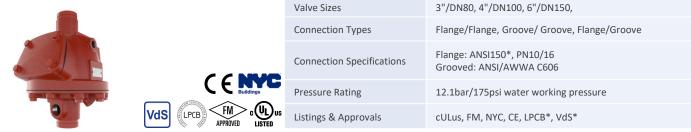


Valve Sizes	2½"/DN65, 3"/DN80, 4"/DN100, 6"/DN150, 8"/DN200
Connection Types	Flange/Flange, Groove/ Groove
Connection Specifications	Flange: ANSI150*, PN10/16 Grooved: ANSI/AWWA C606
Pressure Rating	20.7bar/300psi water working pressure
Listings & Approvals	cULus, FM, NYC
Technical Datasheet	F_102688

\* Note: Compatible with ANSI125



## Dry Valves | Model F-1 & F-2



\* Only for Model F-1

#### Dry Valves | Model VXR





	Valve Sizes	2½"/DN65, 3"/DN80, 4"/DN100, 6"/DN150
	Connection Types	Groove/ Groove
	Connection Specifications	Grooved: ANSI/AWWA C606
	Pressure Rating	17.2bar/250psi water working pressure
)us n	Listings & Approvals	cULus, FM

#### Accelerators | Model D-2





The Viking Model D-2 Accelerator is a quick-opening device, with an integral antiflood assembly, used to increase the operating speed of a differential type dry pipe valve.

#### Accelerators | Model E-1





The Viking Model E-1 Accelerator is a quick-opening device. When installed with the required external Anti-flood Device, the assembly is designed to increase the operating speed of Viking Model F Dry Pipe Valves.

## Anti-flood Device | Model B-1





The Model B-1 Anti-flood Device is required when Viking accelerators are installed on dry systems according to Viking Model E-1 Accelerator Trim Charts.

#### Dehydrator



The Dehydrator is a manually regenerated desiccant-type air dryer. The desiccant acts as a moisture indicator by changing color, and is visible through the sight gauge.

\* Note: Compatible with ANSI125



## Deluge Valves | Model FSX-A





	Valve Sizes	2"/DN40, 3"/DN80, 4"/DN100, 6"/DN150, 8"/DN200
	Connection Types	Flange/Flange, Groove/ Groove, Flange/Groove
	Connection Specifications	Flange: ANSI150*, PN10/16 Grooved: ANSI/AWWA C606
	Pressure Rating	16.0bar/232psi water working pressure
US	Listings & Approvals	cULus, FM

## Deluge Valves | Model F-1





Valve Sizes	1½"/DN40, 2"/DN50, 2½"/DN65, 3"/DN80, 4"/DN100, 6"/DN150, 8"/DN200
Connection Types	Threaded, Flange/Flange, Groove/ Groove, Flange/Groove
Connection Specifications	Threaded: NPT Flange: ANSI150*, PN10/16 Grooved: ANSI/AWWA C606
Pressure Rating	17.2bar/250psi water working pressure
Listings & Approvals	UL, C-UL, FM, ABS, NYC, CE

1½"/DN40, 2"/DN50, 2½"/DN65, 3"/DN80, 4"/DN100,

## Deluge Valves | Halar Coated | Model F-2

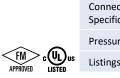




Valve Sizes	1½"/DN40, 2"/DN50, 2½"/DN65, 3"/DN80, 4"/DN100, 6"/DN150, 8"/DN200
Connection Types	Threaded, Flange/Flange, Groove/ Groove, Flange/Groove
Connection Specifications	Threaded: NPT Flange: ANSI150*, PN10/16 Grooved: ANSI/AWWA C606
Pressure Rating	17.2bar/250psi water working pressure
Listings & Approvals	UL, FM, CE, ABS, NYC

## Deluge Valves | Model VXD





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Valve Sizes	1½"/DN40, 2"/DN50, 2½"/DN65, 3"/DN80, 4"/DN100, 6"/DN150, 8"/DN200, 10"/DN250
Connection Types	Flange/Flange (3"-10"), Groove/ Groove
Connection Specifications	Flange: ANSI150*, PN16 Grooved: ANSI/AWWA C606
Pressure Rating	17.2bar/250psi water working pressure
Listings & Approvals	cULus, FM

## Preaction Valve Assemblies | Model G





lve Sizes	2"/DN50, 3"/DN80, 4"/DN100, 6"/DN150
onfigurations	SI Preaction Electric, DI Preaction Electric/Pneu-Lectric, Surefire® Preaction – SI/DI
onnection Types	Threaded, Flange/Flange, Groove/ Groove, Flange/Groove
onnection ecifications	Threaded: NPT Flange: ANSI150*, PN10/16 Grooved: ANSI/AWWA C606
essure Rating	17.2bar/250psi water working pressure
stings & Approvals	cULus, FM

\* Note: Compatible with ANSI125



## Valves | Deluge & Preaction Systems

## Trim Assemblies | TRIMPAC®



MODELS	CONFIGURATION
B-1 & B-1B	Deluge System with Electric Release
B-2, B-2 & B-2S	Deluge System with Pneumatic Release
B-3 & B-3B	Single Interlock Preaction with Electric Release
B-5 & B-5B	Double Interlock Preaction Systems with Electric Pneumatic Release
B-6 & B-6B	Double Interlock Preaction Systems with Electric Pneu-lectric Release
D-1 & D-1B	Surefire Single Interlock Preaction Systems
D-2 & D-2B	Surefire Double Interlock Preaction Systems
B-11 LPCB Type 1	Single Interlock Preaction with Electric/Pneumatic Release

## Components | Thermostatic Release | Model C-1 & C-2



The Viking Models C-1 & C-2 Thermostatic Release is a rate-of-rise releasing device for use on hydraulic and pneumatic release systems controlling operation of Viking deluge valves on deluge or preaction systems.

#### Components | HP Temperature Release | VK800





The Viking MicrofastHP<sup>®</sup> Fixed Temperature Release is a fixed-temperature, heat-responsive device. It is designed for use on pilot line release systems to activate deluge and preaction systems.

#### Components | Control Panel | Model VFR400





Viking VFR400 is a microprocessor based multi-hazard releasing control panel for use on preaction, deluge, Surefire<sup>®</sup> & Firecycle<sup>®</sup> multicycle sprinkler systems, VSN1230 Fire Extinguishing System & VSN200 Fire Extinguishing System.

#### Components | Pressure Operated Relief Valve | Model C-1

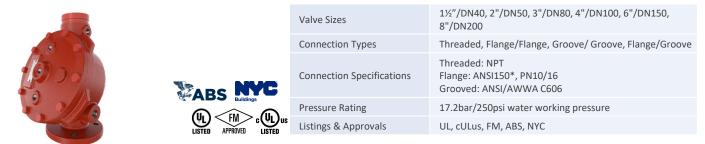




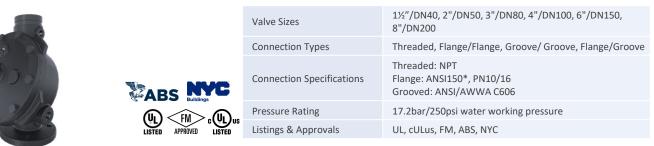
The Viking Model C-1 Pressure Operated Relief Valve (PORV) is used in Viking Deluge Systems when automatically resetting releases are used. Once tripped, it maintains a positive vent to prevent the deluge valve from automatically resetting prematurely.



## Flow Control Valves | Model J-1



#### Flow Control Valves | Halar Coated | Model J-2



#### System Components | Pneumatic Actuator | Model H-1 & R-1



The Viking Pneumatic Actuator is a spring loaded to open, rolling diaphragm, piston operated valve. It is used wherever a separation is required between the detection and operating systems.

#### System Components | Solenoid Valve | 250psi/17bar





The solenoid valve is a pack-less, internal pilot operated valve, suitable for use in releasing water pressure from the priming chamber of Viking Model E & F Series Deluge Valves and Viking Model H & J Series Flow Control Valves.

#### System Components | High Pressure Solenoid Valve | 300psi/21bar





The high pressure solenoid valve is a pack-less, internal pilot operated valve, suitable for use in releasing water pressure from the priming chamber of Viking Model E & F Series Deluge Valves and Viking Model H & J Series Flow Control Valves.

\* Note: Compatible with ANSI125



## Valves | System Components

#### Float Check Valve Assembly | Model B-1 & B-2





The Viking Float Check Valve Assembly protects pneumatic devices from water columns and reset due to system pressure, used in Dry Pipe systems with Model E Accelerator, HP Dry Systems, EZ Trim riser mounted and TotalPac2, Double interlock Preaction both Electric/Pneumatic and Pneumatic/Pneumatic Systems.

#### Air Pressure Maintenance Device | Model D-2



The Viking Model D-2 Air Pressure Maintenance Device is a pressure regulator that automatically reduces the supply air pressure to a preset requirement when connected to a constantly maintained air supply.

#### Anti Column Device | Model LD-1





The Viking Model D-2 Air Pressure Maintenance Device is a pressure regulator that automatically reduces the supply air pressure to a preset requirement when connected to a constantly maintained air supply.

#### Emergency Release | Model C-1 & C-2





The Viking Emergency Release operates as a manual tripping device for use on Deluge and Flow Control Valve Trim and on hydraulic and pneumatic release systems controlling operation of Viking Deluge and Flow Control Valves.

#### Water Motor Alarm | Model F-2



The Viking water motor alarm mechanical device actuated by a flow of Water and designed to sound a continuous alarm while a sprinkler system operates.

#### Pilot Pressure Regulating Valve | Model C-2



APPROVED LISTED

The Viking Model C-2 Pilot Pressure Regulating Valve automatically reduces higher inlet pressure to a lower delivery pressure, maintaining that pressure within a close limit regardless of fluctuations in the higher pressure inlet line.



## Other Products | Switches

#### Water Flow Alarm Switches | VSR (With Retard)



	4/1054	c .				
NEMA	4/1254	tor	indoor	or	outdoor	

Temp Range: 4.5°C to 49°C (40°F to 120°F)

Two sets of SPDT (Form C): 10Amps at 125/250VAC, 2.0Amps at 3-VDC Resistive, 10mAmps in. at 24VDC

450psi / 31bar service pressure Maximum Surge: 18fps / 5.5m/s Flow Sensitivity: 4-10gpm / 15-38lpm Listings: cULus, FM, LPCB, CSFM, CE

#### Water Flow Alarm Switches | VSR-S (For Small Pipe)



NEMA 4/IP54 for indoor or outdoor

Temp Range: 4.5°C to 49°C (40°F to 120°F) Two sets of SPDT (Form C): 10Amps at 125/250VAC, 2.0Amps at 3-VDC Resistive, 10mAmps in. at 24VDC 300psi / 20.1bar service pressure Maximum Surge: 18fps / 5.5m/s Required flow for alarm: 10gpm / 38lpm Listings: UL, cUL, FM, LPCB, CSFM, NYMEA, and CE

#### Water Flow Alarm Switches | VSR-AT (Electronic Retard, Auto Test Feature)



NEMA 4/IP54 for indoor or outdoor	450psi / 31bar service pressure
Temp Range: 4.5°C to 49°C (40°F to 120°F)	Maximum Surge: 18fps / 5.5m/s
Two sets of SPDT (Form C): 10Amps at 125/250VAC,	Flow Sensitivity: 4-10gpm / 15-38lpm
2.0Amps at 3-VDC Resistive, 10mAmps in. at 24VDC	Listings: cULus, FM, CE

#### Auto Test Control Switch (For Remote Operation)



Initiates Auto Test feature in VSR-AT	Key switch to enable/disable the push button	
Momentary push button test switch	LED indicator	

#### Water Flow Alarm Switches | VSR-FE2 (Electronic Retard)



NEMA 4 Rated Enclosure	450psi / 31bar service pressure
Temp Range: 4.5°C to 49°C (40°F to 120°F)	Maximum Surge: 18fps / 5.5m/s
Two sets of SPDT (Form C): 2 Amps at 30VDC or	Required flow for alarm: 10gpm / 38lpm
125VAC resistive	Listings: UL, ULC, FM

250psi / 17.2bar service pressure

Maximum Surge: 18fps / 5.5m/s Required flow for alarm: 10gpm / 38lpm

Listings: UL, cULus, CSFM, NYBSA, CE

#### Water Flow Alarm Switches | VS-SP (Small Pipe, Without Retard)



NEMA 4/IP55 for indoor or outdoor Temp Range: 4.5°C to 49°C (40°F to 120°F) 1 set of SPDT (Form C) Optional 2<sup>nd</sup> set

#### Water Flow Alarm Switches | VSG (Low Flow)



NEMA 4/IP54 for indoor or outdoor	450psi / 31bar service pressure
Temp Range: 4.5°C to 49°C (40°F to 120°F)	Maximum Surge: 18fps / 5.5m/s
2 sets of SPDT (Form C): 2 Amps at 30VDC or 125VAC resistive	Required flow for alarm: 3gpm / 11.4lpm
	Listings: cULus, CSFM, CE



## Other Products | Switches

#### Pressure Switches | PS Series (Pressure Type Waterflow Alarm / Supervisory Switch)



Pressure Type Waterflow Alarm/Supervisory Switch

Pressure range: 4-15 psi (PS10), 5-30 psi (PS15), 10-60 psi (PS25 & PS40), 25-175psi (PS120)

300 psi system pressure rated

Two  $\ensuremath{\mathcal{V}}''$  knock outs for dual voltage applications 5-year warranty

Listings: UL, cUL, CSFM, FM, LPC, NYMEA, and CE 'VdS' is listed with UL, FM, VdS, CUL, LPCB, and CSFM

#### Pressure Switches | PCS/ADPS (Pump Control Adjustable Deadband Switch)



Pump Control/Adjustable Deadband Pressure Switch	Independent set and reset points
NEMA 4X enclosure for indoor or outdoor use	Horsepower rating: $1/_2$ HP (PCS)
25-300 psig adjustable operating range	<sup>1</sup> / <sub>8</sub> HP (ADPS)
12 psi minimum deadband	Listings: UL, CE and CSA

#### Supervisory Switches | PCVS-2 (Control Valve Supervisory Switch)



NEMA 6P (Submersible)	½" male NPT fitting
Factory installed neoprene gasket	Two sets of SPDT (Form C)
Fully adjustable stainless steel trip rod	5-year warranty
Installs on BFV or PIV in any position	Listings: UL, cUL, FM, LPCB, CSFM, NYMEA, and CE

#### OS&Y Valve Supervisory Switch | OSYSU-1 & 2 (OS&Y Supervisory Switch)



NEMA 6P (Submersible)	Adjustable stainless steel trip rod
Factory installed neoprene gasket	Installs on OS&Y valves in any position
SPDT (Form C): 1 set (OSYSU-1), 2sets (OSYSU-2)	5-year warranty
Fits 1/2" to 12" valve sizes	Listings: UL, cUL, FM, LPCB, CSFM, NYMEA, and CE

#### Supervisory Switches | PTS-C (Plug Type Supervisory Switch)



NEMA 6P (Submersible)	For non-rising stem valves and special applications
Factory installed neoprene gasket	SPDT cover tamper 250mA at 28 VDC/AC
SPDT contacts 100mA at 28 VDC/AC, 250mA at 12 VDC/AC	5-year warranty
	Listings: UL, cUL, FM, NYMEA, and CSFM

#### Tank Water Level | WLS (Water Level Switch)



NEMA 4 solid metal enclosure	Maximum pressure 175 psi
Detection range before 3" rise/ before 3" fall of water level	Suitable for steel or wooden tanks
	Works on pressure or gravity tanks
Detection of 12" drop in water level	Listings: UL, NYMEA, and CSFM

#### Retrofit Ball Valve Switch | RBVS (Retrofit Ball Valve Switch)



NEMA 4 rated enclosure for indoor or outdoor use	Fits virtually any $\frac{1}{2}$ " - 2" ball valve
Monitors alarm line ball valves	Meets NFPA requirements 13, 2010, 18.17.1 and
Perfect for backflow preventers 1" - 2"	IBC/IFC 2009, 903.4
Mounts on standard & "T" style valves	Listings: UL, cUL, NYMEA and FM Approved

#### Supervisory Switches | PIVSU-EX-O (Outdoor Post Indicator and Butterfly Valve Supervisory Switch)



NEMA 1, 3, 4, 4X, 6, 6P, 9 & 13 IP66 and 67

Water & dust tight and corrosion resistant

1 set SPDT: 15Amp at 125VAC, 0.5Amps at 125VDC Hazard: Class I, Div. 1&2, Groups C-D; Class II, Div. 1&2, Groups E,F,G

Temp Range: -25°C to 85°C (-13°F to 185°F) Listings: UL, CSA, ATEX/IEC EX

#### Waterflow Switches | VSR-FEX Series (Vane Type Waterflow Switch)



NEMA 4/IP66Hazard: Class I Div. 1&2 Groups C,D;Minimum flowrate for alarm: 10gpm / 38lpmClass II Div. 1&2 Groups E,F,G;Two sets of SPDT (Form C): 15.0 Amps at 125/250 VAC,<br/>2.0 Amps at 30 VDC ResistiveMax System Pressure: 450psi / 31barListings: UL, FM, ATEX/IEC EX, CE

#### Pressure Switches | PS40-EX (Low/High Pressure Supervisory Switch for Dry Valves)



IP66/NEMA 4,9	Hazard: Class I, Div. 1, Groups B,C,D;
Temp Range: -40°C to 60°C (-40°F to 140°F)	Class II, Div. 1, Groups E,F,G; Class III Div. 1
Two sets of SPDT (Form C): 15.0 Amps at 125/250 VAC,	Max System Pressure: 300psi / 20.7bar
2.0 Amps at 30 VDC	Listings: UL, FM, ATEX/IEC EX, CE

## Pressure Switches | PS10-EX (Pressure Type Waterflow Switch for Sprinkler Systems)



IP66/NEMA 4,9	Hazard: Class I, Div. 1, Groups B,C,D;
Temp Range: -40°C to 60°C (-40°F to 140°F)	Class II, Div. 1, Groups E,F,G; Class III Div. 1
Two sets of SPDT (Form C): 15.0 Amps at 125/250 VAC,	Max System Pressure: 300psi / 20.7bar
2.0 Amps at 30 VDC	Listings: UL, FM, ATEX/IEC EX, CE
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#### Waterflow Switches | OSYSU-EX (OS&Y Valve Supervisory Switch)



NEMA 1, 7, 9	Hazard: Class I Div. 1&2 Groups C,D;
Temp Range: -40°C to 60°C (-40°F to 140°F)	Class II Div. 1&2 Groups E,F,G
1 set of SPDT : 15.0 Amps at 125VAC,	Adjustable length trip rod
0.5Amps at 125 VDC	Listings: UL, CSA, ATEX/IEC EX

#### Pressure Switches | OSYSU-EX-O (Outdoor OS&Y Valve Supervisory Switch)



Temp Range: -25°C to 85°C (-13°F to 185°F) Class	rd: Class I, Div. 1&2, Groups C,D; II, Div. 1&2, Groups E,F,G
1 set of SPDT : 15.0 Amps at 125VAC, Adjus	stable length trip rod
0.5Amps at 125 VDC Listing	gs: UL, CSA, ATEX/IEC EX

#### Pressure Switches | PIVSU-EX (Post Indicator Valve Switch)



NEMA 1, 7, 9
Temp Range: -40°C to 60°C (-40°F to 140°F)
1 sets of SPDT : 15.0 Amps at 125 VAC,
0.5 Amps at 125 VDC

Hazard: Class I, Div. 1&2, Groups C,D; Class II, Div. 1&2, Groups E,F,G Adjustable length trip rod Listings: UL, CSA, ATEX/IEC EX



#### TOTALPAC<sup>®</sup> N2 Cabinet

TOTALPAC® N2 cabinets are fully programmed and factory tested making onsite installation and commissioning a fairly easy task. The FireFlex® cabinets are of the freestanding type and are made of robust 14 gauge steel with an oven-baked on a phosphate base and finished off with a corrosion resistant powder coated fire red. The two locked frontal doors that are removable without special tools, reducing space requirements for ease of installation and maintenance. Furthermore, all doors are provided with a neoprene gasket to reduce vibrations.

- Uses the Viking Model F-1 Deluge valve
- Optional Viking VFR-400 releasing control panel
- Compact, aesthetic and easy to move
- Neoprene gasket on all doors to eliminate vibrations
- No open drain cup inside unit
- · Separate unlocked access hatch to emergency manual release
- Serial number on every unit for easy reference
- · User-friendly standardized owner's manual with every unit

#### Protector Dry SMART Vent

- Installed inside the cabinet, no remote installation required
- Facilitates patented «fill and purge» breathing process
- Pressure regulator prevents system depressurization
- Float valve prevents water discharge
- Requires no plumbing to drain
- Optional real-time nitrogen concentration monitored inside the cabinet

#### Protector Dry SMART Gas Analyser (SGA-1)

- Provides Continuous real-time gas concentration of the system
- Multiple signal outputs: contact closure, 0-5V DC & 4-20mA
- Can be monitored by fire alarm or building management systems
- Paired with ECS<sup>®</sup> venting device for continuous supply
- Available as an option (installed inside the TOTALPAC® N<sub>2</sub> cabinet)

#### ECS® In-Line Corrosion Detector (ILD)

- Provides Continuous real-time corrosion monitoring of system pipework
- UL Listed
- Provides 360° surface area to detect internal corrosion
- Thin wall section monitored by UL Listed/FM Approved pressure switch
- Available as an option

#### Protector Handheld Gas Analyser (PHGA-1)

- Battery operated device verifies nitrogen purity
- Measures gas concentration at vent sampling port or nitrogen generator discharge
- 1 button self calibration

#### Releasing Circuit Disconnect Switch

- Require by NFPA72 (2010 Edition)
- Prevents the accidental discharge during maintenance or inspection.
- Key switch disconnects the release circuit wiring, causing a trouble
- signal at the releasing control panel.















## Other Products | Corrosion Inhibiting Systems

#### Nitrogen Generators | Wall Mountable | INS100 (Wall Mountable)

- 10.100
- Potter's IntelliGen<sup>™</sup> Controller (Patent Pending). Handles up to 675 gallons of total sprinkler system
- capacity.
- 10-gallon nitrogen tank.

## Nitrogen Generators | Wall Mountable | INS250



- Potter's IntelliGen™ Controller (Patent Pending).
- Handles up to 1,000 gallons of total sprinkler system capacity.
- 10-gallon nitrogen tank.

## Nitrogen Generators | Skid Mounted | INS500



- Potter's IntelliGen™ Controller (Patent Pending).
- Handles up to 1,850 gallons of total sprinkler system capacity.
- 20-gallons air tank and 20-gallon nitrogen tank.

## Nitrogen Generators | Wall Mountable | INS600

- Potter's IntelliGen<sup>™</sup> Controller (Patent Pending). Handles up to 2,350 gallons of total sprinkler system capacity.
- 20-gallon nitrogen tank.

## Nitrogen Generators | Skid Mounted | INS1000



- Potter's IntelliGen™ Controller (Patent Pending).
- Handles up to 3,400 gallons of total sprinkler system capacity.
- 20-gallon air tank and 20-gallon nitrogen tank.

## Nitrogen Generators | Skid Mounted | INS1500



- Potter's IntelliGen™ Controller (Patent Pending).
- Handles up to 6,200 gallons of total sprinkler system capacity.
- 3 skids: 80-gallon tank mounted air compressor, nitrogen cabinet and 60-gallon nitrogen.

Potter's IntelliGen<sup>™</sup> Controller (Patent Pending).

Handles up to 12,000 gallons of total sprinkler

## Nitrogen Generators | Skid Mounted | INS2000



#### system capacity. 3 skids: 80-gallon tank mounted air compressor, nitrogen cabinet and 60-gallon nitrogen.

## Nitrogen Generators | Skid Mounted | INS2500

- Potter's IntelliGen<sup>™</sup> Controller (Patent Pending).
- Handles up to 24,000 gallons of total sprinkler system capacity
- 3 skids: 80-gallon tank mounted air compressor, nitrogen cabinet and 120-gallon nitrogen.

- Integrated ¼HP oil-less air compressor included to meet NFPA 13.
- 30 minutes fill for 160-gallon system at 40 PSI.
- FM Approved.
- Integrated ½HP oil-less air compressor included to meet NFPA 13.
- 30 minutes fill for 300-gallon system at 40 PSI.
- FM Approved.
- Integrated 1HP oil-less air compressor included to meet NFPA 13.
- 30 minutes fill for 500-gallon system at 40 PSI.
- FM Approved.
- 2 Integrated ½HP oil-less air compressor included to meet NFPA 13.
- 30 minutes fill for 525-gallon system at 40 PSI.
- FM Approved.
- Integrated 2HP oil-less air compressor included to meet NFPA 13.
- 30 minutes fill for 1,000-gallon system at 40 PSI.
- FM Approved.
- 7.5 HP lubricated tank mounted air compressor included to meet NFPA 13.
- 30 minutes fill for 2,000-gallon system at 40 PSI.
- FM Approved.
- 7.5 HP lubricated tank mounted air compressor included to meet NFPA 13.
- 30 minutes fill for 2,400-gallon system at 40 PSI.
- FM Approved.
- 7.5 HP lubricated tank mounted air compressor included to meet NFPA 13.
- 30 minutes fill for 2,400-gallon system at 40 PSI.
- FM Approved.

VIKING WATER | Potter | 15-7-2022 Rev 1.1 | Page 4/4





# **Other Products | Air Compressors**

Oil-Less, Riser Mount | OL Plus Series (For Dry Pipe & Preaction Systems)

OL Plus Series Oil-Less Riser Mount Fire Protection Air Compressors are specifically designed to fill dry pipe and preaction fire sprinkler systems to 2.7 BAR within 30 minutes per NFPA 13.



- 50Hz Oil-Less Piston Compressor
- UL Listed, Pre-Set Pressure Switch
- Permanently lubricated bearings
- Fully Automatic, Direct Drive
- ASME Pressure Safety Valve
- Bubble Tight Air Check Valve
- Pre-Wired & Pre-Tested
- Riser mounting bracket included
- 762mm stainless steel flexible hose & union included

System Capacity*	Model	Average	Motor	Motor Voltage (kw)	Amperage		Recommended Wire Size (mm <sup>2</sup> )			Unit
(L) @ 2.7bar	Number	lpm**	(kw)		FLA	Start- up	8m run	15m run	30m run	Weight (kg)
362	OLR12016AC-50	33	0.12	220-240	2.2	14	3	3	3	13.0
785	OLR25033AC-50	71	0.25		3.4	24	3	3	3	15.0
1,257	OLR40050AC-50	114	0.56		7.5	53	3	3	3	21.0
1,350	OLR43075AC-50	123	0.75		5.0	35	3	3	5	22.0
1,965	OLR615100AC-50 #	178	1.2		6.0	42	3	3	5	22.0
2,870	OLR915150AC-50 #	260	1.5		6.3	44	3	3	6	27.0
3,840	OLR1225200AC-50 #	348	2.0		8.8	62	3	3	6	32.0

\* System Capacity based on 30min fill at 2.7 BARG and 21°C system temperature.

\*\* LPM is based on the average free air delivery as the system fills from 0 to 2.7 BARG.

<sup>#</sup> Compressor has a capacity above 160 LPM at 0.7 BARG. Air Maintenance Device required per NFPA 13.

All of our OL Plus single phase standard units and low pressure units are UL 1450-VDUR listed for fire protection, fully automatic, and virtually maintenance free. Available in 3 phase, and 50 Hz. The supplied 30" braided stainless steel flex hose and a riser mounting kit allow for a fast and easy installation, the compressors can also be wall or floor mounted..





## Other Products | Seismic Bracing

#### Sway Braces, Clamps & Attachments



Fig. 75 Swivel Attachment



Fig. 98B Rod Siffener with Break-Off Bolt head



Fig. 4A Pipe Clamp For Sway Bracing



Fig. 4L Longtidunal 'Inline' Sway Brace Attachment



Fig. 4LA Longtidunal 'Inline' Sway Brace Attachment



Fig. 800 Adjustable Sway Brace Attachment To Steel



Fig. 825 Sway Brace



Sway Brace Attachment To Steel Attachment To Steel



Fig. 828 **Universal Sway Brace** Attachment To Steel

Fig. 906 Sway Brace Mutli-Fastener To Steel



Fig. 907 Mutli-Angle Attachment



Fig. 909 No-Thread Swivel Sway Brace Attachment



Fig. 910 Threaded Swivel Sway Brace Attachment



Fig. 975 Straight Sway Brace Fitting



Fig. 980 Universal Sway Brace Attachment



Fig. 1000 Fast Clamp Sway Brace Attachment



Fig. 1001 Sway Brace Attachment



Fig. 1001 Sway Brace Attachment

**Concrete Inserts** 



Fig. 109A **Concrete Deck** Insert

Fig. 109F Concrete Insert



B2500 (TOLCO 310) Light Duty Spot Insert



N2500 (TOLCO 310N) Steel Insert Nut



B3014 (TOLCO 309) Malleable Iron Spot Insert



B3014N (TOLCO 309N) Malleable Iron Insert Nut

Note: This page contains basic product information for reference only. Users must always refer to the technical datasheet on www.vikinggroupinc.com or contact your local VIKING Sales Representative. Certificates, test reports and approvals may be published in the OEM name. Images used on this page are purely for illustration only and may not accurately represent the actual physical products. The contents of this publication are subject to change without prior notice. All rights reserved.

# **PRODUCTS & SOLUTIONS**

To address a wide spectrum of fire risk and challenges, Viking offers a broad and comprehensive range of products, systems and solutions classified into these four product groups:

- Water Water based fire suppression technologies
- **Foam** Foam based fire suppression technologies
- Gas Gaseous and clean agent based fire suppression technologies
- Fire Alarm & Detection Fire detection and warning technologies

Fire Sprinklers Standard Coverage Extended Coverage Storage Dry Special Residential Nozzles	Valves <ul> <li>Wet / Alarm</li> <li>Deluge &amp; Preaction</li> <li>Dry Pipe</li> <li>Pressure Regulating</li> <li>Butterfly</li> <li>Gate</li> <li>Check</li> </ul>	Flexible Sprinkler Hose Escutcheons Guards & Shields Test & Drain Multiple Jet Control Wrenches & Adapters Flow Meter & Proving Pipe Water Mist Systems
Fluorine Free Systems StorageTanks • Vertical Bladder Tank • Horizontal Bladder Tank • Atmospheric StorageTank • Tank Accessories • Pre-assembled Foam BladderTank	Discharge Devices • Foam Generator • Foam Sprinkler / Nozzle • Grate Nozzle • Tank Protection Monitor Equipment Foam Pump Products	<ul> <li>Proportioning Devices</li> <li>ILBP / Balanced Proportioner</li> <li>In-line Eductor</li> <li>Ratio Controller</li> <li>Wide range Proportioner</li> <li>Valves &amp; Accessories</li> <li>Foam Concentrates</li> </ul>
CO2 • High Pressure • Low Pressure Clean Agent Systems • FM-200® Systems • Novec™ 1230 Systems	Pre-Engineered Systems • FM-200 <sup>®</sup> Systems • Novec™ 1230 Systems Cabinet Protection System Server Rack Protection System	Inert Gas Systems • IG-01 • IG-100 • IG-55 • IG-541
Control Panels • Addressable • Conventional • Extinguishing • Mimic	Detectors • Smoke • Heat • Flame • Infra Red • Beam	Manual Call Points Strobes Sounders Bells Interface Modules I.S. / Explosion Proof Devices Marine Application Field Devices

# VIKING ASIA NETWORK

Viking relies on a vast network of distributors and resellers across Asia to eVectively serve the market. Contact the Viking OfIce nearest to you and we shall connect you with a distributor nearest your location.



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