VIKING

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Water Products

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Sprinklers | Standard Coverage

Standard Response | Bulb

	Pendent	Upright	Conventional	Pendent	Upright
	VK1021 [A]	**VK1001** [A]	**VK1181** [A]	**VK102** [B]	**VK100** [A]
K -5.6/80.6 ½"NPT/15mmBSP					
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 [A]	**VK2001** [A]	**VK1201** [A]	**VK202** [B]	**VK200** [B]
K - 8.0/ 115.2 ¾"NPT/20mmBSP					
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 [A]	**VK2002** [A]	**VK1202** [A]		
K - 8.0/ 115.2 ½"NPT/15mmBSP					
Temperature	57-141°C / 135-286°F	57-141°C / 135-286°F	57-141°C / 135-286°F		
Working Pressure	175 psi / 12 bar	175 psi / 12 bar	175 psi / 12 bar		
Wrench**	23559MB	23559MB	23559MB		
Tech Datasheet	F_110220	F_103120	F_102920		

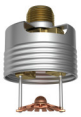
Notes:

250psi /17 bar pressure ratings are in accordance with UL Listing.

[A] Available in Brass, Chrome, White Polyester, Black Polyester or ENT Finish.

[B] Available in Brass, Chrome, White Polyester, Black Polyester, Wax Coated, Wax Over Polyester or ENT Finish.

** Refer to Technical data for more wrench options.

	Concealed Pendent	Horizontal Sidewall	Horizontal Sidewall	Vertical Sidewall	Stainless Steel Pendent	Stainless Steel Upright
	VK4921 [D]	**VK104** [B]	**VK116** [A]	**VK106** [C]	**VK132**	**VK130**
K- 5.6/80.6 ½"NPT/15mmBSP						
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
	VK202-D [D]					
K - 8.0/ 115.2 ¾"NPT/20mmBSP						
Temperature	68-93°C / 155-200°F					
Working Pressure	175 psi / 12 bar					
Wrench**	13577W/B					
Tech Datasheet	F_101912					

Notes:

250psi /17 bar pressure ratings are in accordance with UL Listing

[A] Available in Brass, Chrome, White Polyester, Black Polyester or ENT Finish.

[B] Available in Brass, Chrome, White Polyester, Black Polyester, Wax Coated, Wax Over Polyester or ENT Finish.

[C] Available in Brass or Chrome Finish.

[D] Available in Brass or ENT Finish.

** Refer to Technical data for more wrench options.

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Quick Response | Bulb

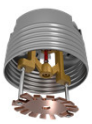
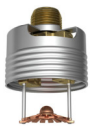
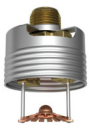
	Pendent	Upright	Conventional	Stainless Steel Pendent	Stainless Steel Upright
K- 5.6/80.6 ½"NPT/15mmBSP	**VK3021** [A] 	**VK3001** [A] 	**VK3101** [A] 	**VK339** 	**VK338** 
Temperature	57-141°C / 135-286°F	57-141°C / 135-286°F	57-141°C / 135-286°F	68-141°C / 155-286°F	68-141°C / 155-286°F
Working Pressure	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_110720	F_110420	F_111020	F_073107	F_073107
K - 8.0/115.2 ¾"NPT/20mmBSP	**VK3521** [A] 	**VK3501** [A] 	**VK3541** [A] 		
Temperature	57-141°C / 135-286°F	57-141°C / 135-286°F	57-141°C / 135-286°F		
Working Pressure	175 psi / 12 bar	175 psi / 12 bar	175 psi / 12 bar		
Wrench**	23559MB	23559MB	23559MB		
Tech Datasheet	F_111320	. F_111120	F_111620		
K - 8.0/115.2 ½"NPT/15mmBSP	**VK3522** [A] 	**VK3502** [A] 	**VK3542** [A] 		
Temperature	57-141°C / 135-286°F	57-141°C / 135-286°F	57-141°C / 135-286°F		
Working Pressure	175 psi / 12 bar	175 psi / 12 bar	175 psi / 12 bar		
Wrench**	23559MB	23559MB	23559MB		
Tech Datasheet	F_111420	F_111220	F_111720		
K - 11.2/ 161.2 ¾"NPT/20mmBSP	**VK377** [A] 				
Temperature	68-141°C / 155-286°F				
Working Pressure	175 psi / 12 bar				
Wrench**	05118CW/B				
Tech Datasheet	F_030993				

Notes:

250psi /17 bar pressure ratings are in accordance with UL Listing.

A Available in Brass, Chrome, White Polyester, Black Polyester or ENT Finish.

** Refer to Technical data for more wrench options.

	Concealed Pendent	Concealed Pendent (MRI)	Horizontal Sidewall	Horizontal Sidewall	Vertical Sidewall
K- 5.6/80.6 ½"NPT/15mmBSP	**VK4621** [C] 	**VK462 -MRI** [B] 	**VK319** [A] 	**VK305** [A] 	**VK306** [D] 
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
K - 8.0/ 115.2 ¾"NPT/20mmBSP	**VK464** [C] 	**VK464 -MRI** [B] 	**VK360** [A] 		
Temperature	68-93°C / 155-200°F	68-93°C / 155-200°F	57-93°C / 135-200°F		
Working Pressure	175 psi / 12 bar	175 psi / 12 bar	175 psi / 12 bar		
Wrench**	14047W/B	14047W/B	21475M/B		
Tech Datasheet	F_021606	F_062908	F_092508		

Notes:

250psi /17 bar pressure ratings are in accordance with UL Listing.

A Available in Brass, Chrome, White Polyester, Black Polyester or ENT Finish.

B Available in Brass only.

C Available in Brass or ENT Finish.

D Available in Brass or Chrome Finish.

** Refer to Technical data for more wrench options.

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Sprinklers | Standard Coverage

Standard Response | Fusible link

	Pendent	Upright	Stainless Steel Pendent	Concealed Horizontal Sidewall
K- 5.6/80.6 ½"NPT/15mmBSP	**VK110** [A] 	**VK108** [A] 		**VK481** [B] 
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
K - 8.0/ 115.2 ¾"NPT/20mmBSP	**VK206** [C] 	**VK204** [C] 	**VK368** 	
Temperature	74-141°C / 165-286°F	74-141°C / 165-286°F	74-96°C / 165-205°F	
Working Pressure	175 psi / 12 bar	175 psi / 12 bar	175 psi / 12 bar	
Wrench**	21475M/B	21475M/B	21475M/B	
Tech Datasheet	F_060514	F_060414	F_071917	

Notes:

250psi /17 bar pressure ratings are in accordance with UL Listing.

[A] Available in Brass, Chrome, White Polyester, Black Polyester or ENT Finish.

[B] Available in Brass only.

C Available in Brass, Chrome, White Polyester or Black Polyester Finish.

** Refer to Technical data for more wrench options.

Quick Response | Fusible link

	Pendent	Upright	Conventional	Pendent	Upright
K- 5.6/80.6 ½"NPT/15mmBSP	**VK303** [A] 	**VK301** [A] 	**VK311** [B] 	**VK318** [A] 	**VK316** [A] 
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
K - 8.0/ 115.2 ¾"NPT/20mmBSP	**VK353** [C] 	**VK351** [A] 	**VK355** [B] 		
Temperature	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		
Wrench**	21475M/B	21475M/B	21475M/B		
Tech Datasheet	F_071814	F_071714	F_071914		

Notes:

250psi /17 bar pressure ratings are in accordance with UL Listing.

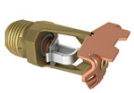
[A] Available in Brass, Chrome, White Polyester, Black Polyester or ENT Finish.

[B] Available in Brass, Chrome, White Polyester or Black Polyester Finish.

[C] Available in Brass, Chrome, White Polyester, Black Polyester or Black PTFE Finish.

[D] Available in Brass or Chrome Finish.

** Refer to Technical data for more wrench options.

	Horizontal Sidewall	Horizontal Sidewall	Vertical Sidewall	Concealed Horizontal Sidewall
K- 5.6/80.6 ½"NPT/15mmBSP	**VK307** [A] 	**VK320** [A] 	**VK309** [A] 	**VK481** [B] 
Temperature	74-138°C / 165-280°F	74-138°C / 165-280°F	74-138°C / 165-280°F	74-96°C / 165-205°F
Working Pressure	175 psi / 12 bar	250 psi / 17 bar	175 psi / 12 bar	175 psi / 12 bar
Wrench**	21475M/B	21475M/B	21475M/B	16208W/R
Tech Datasheet	F_062714	F_020307	F_020407	F_020312

Notes:

250psi /17 bar pressure ratings are in accordance with UL Listing.

[A] Available in Brass, Chrome, White Polyester, Black Polyester or ENT Finish.

[B] Available in Brass only

** Refer to Technical data for more wrench options.

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Pendent and Recessed Pendent

VK600 | EC/QREC | K5.6/80.6



Base part number	06778
Working Pressure	175psi/12.1bar
High Pressure Model	250psi/17.2bar (VK610)
Approvals	cULus, FM
Thread size & type	½"/15 mm NPT
Hazard	Light
Element	3mm glass bulb
Temperature	57°C, 68°C, 79°C
Wrench	21475M/B 13577W/B (recessed)
Datasheet	F_080988

Coverage Area ft / m	Flow gpm / lpm	Pressure 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:
Table based on cULus Listing for quick response.
See technical datasheet for expanded cULus & FM approval criteria.

VK602 | EC/QREC | K8.0/115.2



Base part number	18262
Working Pressure	175psi/12.1bar
Approvals	cULus, FM
Thread size & type	¾"/20 mm NPT
Hazard	Light
Element	3mm glass bulb
Temperature	57°C, 68°C, 79°C
Wrench	21475M/B 13577W/B (recessed)
Datasheet	F_102412

Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar
16x16 / 4.9x4.9	26 / 98.4	10.6 / 0.73
18x18 / 5.5x5.5	33 / 124.9	17.0 / 1.17
20x20 / 6.1x6.1	40 / 151.4	25.0 / 1.72

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

VK608 | EC/QREC | K11.2/161.3



Base part number	08339
Working Pressure	175psi/12.1bar
Approvals	cULus, FM
Thread size & type	¾"/20 mm NPT
Hazard	Light
Element	3mm glass bulb
Temperature	57°C, 68°C , 79°C
Wrench	05118CW/B 11663W/B (recessed)
Datasheet	F_052793

Coverage Area ft / m	Flow gpm / lpm	Pressure 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
Working Pressure	175psi/12.1bar
Approvals	cULus
Thread size & type	¾"/20 mm NPT
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_051393

Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar
Light Hazard		
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 / 1.98
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

Notes:
Table based on cULus listing for Ordinary Hazard Group 1.
See technical datasheet for expanded CULus listing criteria.

Available with ENT coating (Nickel PTFE) for corrosion resistance

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Pendent and Recessed Pendent

VK572 | EC/QREC | K14.0/202



Available with ENT coating (Nickel PTFE) for corrosion resistance

Base part number	13722
Working Pressure	175psi/12.1bar
Approvals	cULus, FM
Thread size & type	¾"/20 mm NPT
Hazard	Ordinary Hazards 1 & 2
Element	3mm glass bulb
Temperature	68°C, 79°C, 93°C, 141°C
Wrench	07297W/B 13032W/B(recessed)
Datasheet	F_072313

Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar
Ordinary Hazard Group 1		
16x16 / 4.9x4.9	39 / 147.6	7.8 / 0.54
18x18 / 5.5x5.5	49 / 185.5	12.3 / 0.85
20x20 / 6.1x6.1	60 / 227.1	18.4 / 1.27
Ordinary Hazard Group 2		
16x16 / 4.9x4.9	51 / 193.1	13.3 / 0.92
18x18 / 5.5x5.5	65 / 246.1	21.6 / 1.49
20x20 / 6.1x6.1	80 / 302.8	32.7 / 2.25

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

VK601 | EC/QREC | K5.6/80.6



Base part number	13969
Working Pressure	175psi/12.1bar
High Pressure Model	250psi/17.2bar (VK611)
Approvals	cULus, FM
Thread size & type	½"/15 mm NPT
Hazard	Light
Element	Fusible link
Temperature	74°C, 96°C
Wrench	21475M/B, 13655W/B (recessed)
Datasheet	F_072114

Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar
16x16 / 4.9x4.9	26 / 98.4	21.6 / 1.49
18x18 / 5.5x5.5	33 / 124.9	34.7 / 2.39

Notes:
See technical datasheet for expanded cULus listing criteria.

VK603 | QREC | K8.0/115.2



Base part number	18277
Working Pressure	175psi/12.1bar
Approvals	cULus, FM
Thread size & type	¾"NPT, 20 mm BSP
Hazard	Light
Element	Fusible link
Temperature	74°C, 96°C
Wrench	21475M/B 13655W/B (recessed)
Datasheet	F_0102512

Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar
16x16 / 4.9x4.9	26 / 98.4	10.6 / 0.73
18x18 / 5.5x5.5	33 / 124.9	17.0 / 1.17

Notes:
See technical datasheet for expanded cULus & FM approval criteria.

VK537 | EC/QREC | K11.2/161.3



Available with ENT coating (Nickel PTFE) for corrosion resistance

Base part number	14611
Working Pressure	175psi/12.1bar
Approvals	cULus
Thread size & type	¾"/20 mm NPT
Hazard	Ordinary
Element	Fusible link
Temperature	74°C, 96°C
Wrench	05118CW/B 11663W/B (recessed)
Datasheet	F_021907

Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar
Ordinary Hazard Group 1		
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 /1.98
Ordinary Hazard Group 2		
16x16 / 4.9x4.9	51 / 193.1	20.7 / 1.43
18x18 / 5.5x5.5	65 / 246.1	33.7 / 2.32
20x20 / 6.1x6.1	80 / 302.8	51.0 / 3.52

Notes:
See technical datasheet for expanded cULus listing criteria.

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



Available with ENT coating (Nickel PTFE) for corrosion resistance

Base part number	14141
Working Pressure	175psi/12.1bar
Approvals	cULus, FM
Thread size & type	¾"/20 mm NPT
Hazard	Light
Element	Fusible link
Temperature	74°C, 96°C
Wrench	05118CW/B 11663W/B (recessed)
Datasheet	F_021207

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

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

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Upright

VK532 | EC/QREC | K11.2/161.3



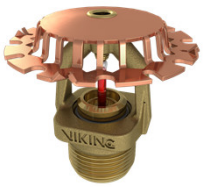
Available with ENT coating (Nickel PTFE) for corrosion resistance

Base part number	08687
Working Pressure	175psi/12.1bar
Approvals	cULus, FM
Thread size & type	¾"/20 mm NPT
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 | K14.0/202



Available with ENT coating (Nickel PTFE) for corrosion resistance

Base part number	13840
Working Pressure	175psi/12.1bar
Approvals	cULus, NYC
Thread size & type	¾"/20 mm NPT
Hazard	Ordinary
Element	3mm glass bulb
Temperature	68°C, 79°C, 93°C, 141°C
Wrench	07297W/B
Datasheet	F_010104

Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar
Ordinary Hazard Group 1		
12x12 / 3.7x3.7	39 / 147.6	7.8 / 0.54
14x14 / 4.3x4.3	39 / 147.6	7.8 / 0.54
16x16 / 4.9x4.9*	39 / 147.6	7.8 / 0.54
18x18 / 5.5x5.5*	49 / 185.5	12.3 / 0.85
20x20 / 6.1x6.1*	60 / 227.1	18.4 / 1.27

Notes:
* Standard Response
Table based on cULus Listing
See technical datasheet for expanded OH2, cULus & FM approval criteria.

VK535 | EC/QREC | K11.2/161.3



Available with ENT coating (Nickel PTFE) for corrosion resistance

Base part number	14139
Working Pressure	175psi/12.1bar
Approvals	cULus, FM
Thread size & type	¾"/20 mm NPT
Hazard	Ordinary
Element	Fusible link
Temperature	74°C, 96°C, 138°C
Wrench	05118CW/B
Datasheet	F_072014

Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar
Ordinary Hazard Group 1		
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 / 1.98
Ordinary Hazard Group 2		
14x14 / 4.3x4.3	39 / 147.7	12.1 / 0.84
16x16 / 4.9x4.9*	51 / 193.1	20.7 / 1.43
18x18 / 5.5x5.5*	65 / 246.1	33.7 / 2.32
20x20 / 6.1x6.1*	80 / 302.8	51.0 / 3.52

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



Available with ENT coating (Nickel PTFE) for corrosion resistance

Base part number	17114, 21358 (GB-China)
Working Pressure	175psi/12.1bar
Approvals	cULus, GB (China)
Thread size & type	¾"NPT /20 mm BSP
Hazard	Light
Element	Fusible Link
Temperature	74°C, 57°C (cover)
Cover Plate p/n	16207 (order separately)
Wrench	16208W/R
Datasheet	F_050611

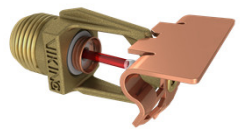
Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar
16x20 / 4.9x6.1	32 / 121.1	16.0 / 1.10
16x22 / 4.9x6.7	36 / 136.3	20.3 / 1.40
16x24 / 4.9x7.3	39 / 147.6	23.8 / 1.64
18x18 / 5.5x5.5	33 / 124.9	17.0 / 1.20
18x20 / 5.5x6.2	36 / 136.3	20.3 / 1.40
18x22 /5.5x6.7	40 / 151.4	25.0 / 1.72

Notes:
Table based on cULus Listing for some coverage areas only.
See technical datasheet for expanded cULus listing criteria.

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Horizontal Sidewall

VK605 | EC/QREC | K5.6/80.6

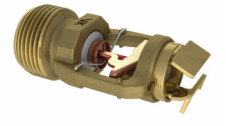


Base part number	12120
Working Pressure	175psi/12.1bar
High Pressure	250psi/17.2bar (VK612)
Approvals	cULus
Thread size & type	½"/15 mm NPT
Hazard	Light
Element	3mm glass bulb
Temperature	57°C, 68°C , 79°C
Wrench	21475M/B 13655W/B (recessed)
Datasheet	F_072414

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



VK630-D



Available with ENT coating (Nickel PTFE) for corrosion resistance

Base part number	13500
Working Pressure	175psi/12.1bar
Dome Concealed p/n	13500A-X (VK630-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
Wrench	21475M/B 13655W/B (recessed)
Datasheet	F_102905 F_102805 (VK630-D)

Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar
16x16 / 4.9x4.9	26 / 98.4	10.6 / 0.73
16x18 / 4.9x5.5	29 / 109.8	13.1 / 0.91
16x20 / 4.9x6.1	32 / 121.1	16.0 / 1.10
16x22 / 4.9x6.7	36 / 136.3	20.3 / 1.40
16x24 / 4.9x7.3	39 / 147.6	23.8 / 1.64
18x18 / 5.5x5.5	33 / 124.9	17.0 / 1.20
18x20 / 5.5x6.2	36 / 136.3	20.3 / 1.40
18x22 /5.5x6.7	40 / 151.4	25.0 / 1.73

Notes:
Table based on cULus Listing for QR and some coverage areas only.
See technical datasheet for expanded cULus & FM approval criteria.

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



VK638-D



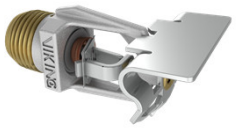
Available with ENT coating (Nickel PTFE) for corrosion resistance

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, 13655W/B (recessed)
Datasheet	F_081911, 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.

VK609 | EC/QREC | K5.6/80.6



Available with ENT coating (Nickel PTFE) for corrosion resistance

Base part number	13971
Working Pressure	175psi/12.1bar
High Pressure	250psi/17.2bar (VK613)
Approvals	cULus
Thread size & type	½"/15 mm NPT
Hazard	Light
Element	Fusible link
Temperature	74°C, 96°C
Wrench	21475M/B, 13655W/B (recessed)
Datasheet	F_072314

Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar
Light Hazard, Standard Response		
16x18 / 4.9x5.5	29 / 109.8	26.8 / 1.85
Light Hazard, Quick Response		
16x16 / 4.9x4.9	26 / 98.4	21.6 / 1.49
16x18 / 4.9x5.5	29 / 109.8	26.8 / 1.85

Notes:
See technical datasheet for expanded cULus listing criteria.

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Concealed Pendent

VK632 | QREC | K5.6/80.6



Available with ENT coating (Nickel PTFE) for corrosion resistance

Base part number	14613
Working Pressure	175psi/12.1bar
Approvals	cULus
Thread size & type	½"/15 mm NPT
Hazard	Light
Element	3mm glass bulb
Temperature	57°C, 68°C, 79°C, 93°C
Cover Plate (CP) p/n	23190, 23174 (push-on) 23447, 23463 (thread-on)
Wrench	14047W/B, 14412 (CP Install Tool) 14867 (CP Install Tool)
Datasheet	F_08017

Coverage Area ft / m	Flow gpm / lpm	Pressure 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.

VK634 | QREC | K8.0/115.2



Base part number	14535
Working Pressure	175psi/12.1bar
Approvals	cULus
Thread size & type	¾"/20 mm NPT
Hazard	Light
Element	3mm glass bulb
Temperature	57°C, 68°C, 79°C, 93°C
Cover Plate (CP) p/n	23190, 23174 (push-on) 23447, 23463 (thread-on)
Wrench	14047W/B, 14412 (CP Install Tool) 14867 (CP Install Tool)
Datasheet	F_08017

Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar
16x16 / 4.9x4.9	26 / 98.4	10.6 / 0.73
18x18 / 5.5x5.5	33 / 124.9	17.0 / 1.17
20x20 / 6.1x6.1	40 / 151.4	25.0 / 1.72

Notes:
See technical datasheet for expanded cULus listing criteria.

VK636 | QREC ELO | K11.2/161.3



Base part number	16102
Working Pressure	175psi/12.1bar
Approvals	cULus
Thread size & type	¾"/20 mm NPT
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.

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



Base part number	17115
Working Pressure	175psi/12.1bar
Approvals	cULus
Thread size & type	¾"/20 mm NPT
Hazard	Light / Ordinary
Element	Fusible link
Temperature	74°C, 96°C
Cover Plate p/n	23495 (thread-on), 15765 (push-on)
Wrench	15467W/B 14867 (CP Install tool)
Datasheet	F_050511

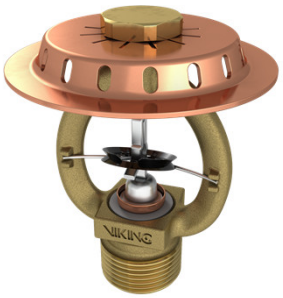
Coverage Area ft / m	Flow gpm / lpm	Pressure psi / bar
Ordinary Hazard Group 1		
14x14 / 4.3x4.3	30 / 113.6	7.2 / 0.50
16x16 / 4.9x4.9	38 / 143.9	11.5 / 0.79
18x18 / 5.5x5.5	49 / 185.5	19.1 / 1.32
20x20 / 6.1x6.1	60 / 227.1	28.7 / 1.98
Ordinary Hazard Group 2		
14x14 / 4.3x4.3	39 / 147.7	12.1 / 0.84
16x16 / 4.9x4.9	51 / 193.1	20.7 / 1.43
18x18 / 5.5x5.5	65 / 246.1	33.7 / 2.32
20x20 / 6.1x6.1	80 / 302.8	51.0 / 3.52

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

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Early Suppression Fast Response (ESFR)

VK520 | ESFR Upright | K14.0/202



Base part number	10625
Working pressure	175psi/12.1bar
Approvals	FM, NYC, GB (China)
Thread size & type	¾"/20 mm NPT
Element	Fusible link
Temperatures	74°C, 96°C
Finishes	Brass
Wrench	05118CW/B, 11663W/B
Tech Datasheet	F_060298

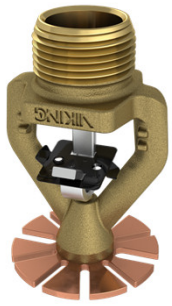
- Protects up to 10.7 m (35 ft) high buildings without using in-rack sprinklers
- Upright design provides more options for designing around obstructions
- Install directly onto system piping up to 3" (DN80) diameter pipe
- Easy to retrofit into existing upright sprinkler systems
- Can be installed on same branch line as K202 (14.0) ESFR pendent 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)[1]

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

[1] Required flow per sprinkler calculated using Q=K*(√p) multiplied by number of design sprinklers (12)

VK500 | ESFR Pendent | K14.0/202



Base part number	10284(NP)T, 21360(BSP)
Working pressure	175psi/12.1bar
Approvals	UL, FM, VdS
Thread size & type	¾"/20mm NPT & BSP
Element	Fusible link
Temperatures	74°C, 96°C
Finishes	Brass
Wrench	13635W/B (Side A)
Tech Datasheet	F_060198

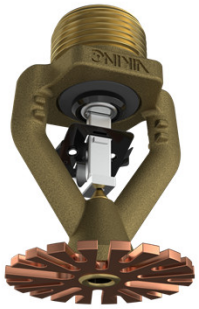
- Protects up to 10.7 m (35 ft) high buildings without using in-rack sprinklers
- Sprinklers may be spaced up to 3.7 m (12 ft) for buildings up to 9.1 m (30 ft)
- Coverage area per sprinkler may not exceed 9.3 m² (100 ft²)
- Available in 74°C and 96°C temperature ratings

NFPA 13 - Required minimum flow (LPM) - Single-row, double-row, and multi-row rack storage (without solid shelves)[1]

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
Exposed nonexpanded plastic										5,507	5,507	5,507	4,929	4,497	4,497	4,497

[1] Required flow per sprinkler calculated using Q=K*(√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	¾"/20mm NPT & BSP
Element	Fusible link
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 in-rack 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)[1]

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	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

[1] Required flow per sprinkler calculated using Q=K*(√p) multiplied by number of design sprinklers (12)

[2] Requires one row of in-rack sprinklers

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Early Suppression Fast Response (ESFR)

VK506 | ESFR Pendent | K22.4/320



Base part number	18493 (NPT),18494 (BSP)
Working pressure	175psi/12.1bar
Approvals	UL, FM
Thread size & type	1"/25 mm NPT & BSP
Element	Fusible link
Temperatures	74°C, 96°C
Finishes	Brass
Wrench	13635W/B (Side B)
Tech Datasheet	F_081612

- UL Listed to protect up to 12.2 m (40 ft) high piled storage without using in-rack sprinklers with ceilings up to 13.7 m (45 ft)
- FM Approved to protect up to 13.7m (45ft) high piled storage without using in-rack sprinklers with ceilings up to 15.2 m (50 ft)
- Successfully meets new UL1767 test standard and compliance programe for ESFR sprinklers installed in rack storage with ceilings greater than 6.1m (20ft).
- May reduce or eliminate the need for a fire pump
- 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)[1]

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	6,439	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

[1] Required flow per sprinkler calculated using Q=K*(√p) multiplied by number of design sprinklers (12)

VK510 | ESFR Pendent | K25.2/363



Base part number	12080 (NPT),2200 BSP)
Working pressure	175psi/12.1bar
Approvals	UL, FM, VdS, LPCB, GB (China)
Thread size & type	1"/25 mm NPT & BSP
Element	Fusible link
Temperatures	74°C, 96°C
Finishes	Brass
Wrench	13635W/B (Side B)
Tech Datasheet	F_100102

- 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)[1]

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	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] Required flow per sprinkler calculated using Q=K*(√p) multiplied by number of design sprinklers (12)

VK5101 | ESFR Pendent | K25.2/363



Base part number	22259(NPT),22570 (BSP)
Working pressure	175psi/12.1bar
Approvals	UL
Thread size & type	1"/25 mm NPT & BSP
Element	3mm glass bulb
Temperatures	68°C, 93°C
Finishes	Brass
Wrench	13635W/B (Side B)
Tech Datasheet	F_010715

- 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)[1]

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	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] Required flow per sprinkler calculated using Q=K*(√p) multiplied by number of design sprinklers (12)

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Early Suppression Fast Response (ESFR)

VK514 | ESFR Pendent | K28.0/404



Base part number	22894(NPT),22894(BSP)
Working pressure	175psi/12.1bar
Approvals	UL, FM
Thread size & type	1"/25 mm NPT & BSP
Element	Fusible link
Temperatures	74°C, 96°C
Finishes	Brass
Wrench	13635W/B (Side B)
Tech Datasheet	F_010715

- Larger K-factor of K404 (28.0) results in lower pressure requirement of 2.8 bar (40 psi)
- 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)
- 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)
- 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 – 15.2m/50ft storage).
- Available in 74°C and 96°C temperature ratings

NFPA 13 - Required minimum flow (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	

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Dry Pendent Early Suppression Fast Response (ESFR)

VK502 | ESFR Dry Pendent | K14.0/202



Working pressure	175psi/12.1bar
Approvals	UL, FM
Thread size & type	1½" NPT & BSP
Groove size	2"
Element	Fusible link
Temperature	74°C
Finishes	Brass
Wrench	Refer to tech datasheet
Tech Datasheet	F_042012

- Protects up to 10.7 m (35 ft) high buildings without using in-rack sprinklers
- INSTALL ON WET SYSTEMS ONLY (not approved for dry/preaction systems)
- Uses same design criteria as standard K202 (14.0) ESFR pendent
- Includes two dry sprinkler insulation boots (part no. 22089M/W)
- Offered with either a threaded or grooved connection
- Available in 74°C temperature rating

Sprinkler description		Base part number	Sprinkler description		Base part number
Overall length	Inlet style		Overall length	Inlet style	
18 5/8" (473 mm)	1½" Grooved	18702	30 5/8" (778 mm)	1½" Grooved	18710
18 5/8" (473 mm)	1½" NPT	18703	30 5/8" (778 mm)	1½" NPT	18711
18 5/8" (473 mm)	1½" / 40 mm BSP	18704	30 5/8" (778 mm)	1½" / 40 mm BSP	18712
24 5/8" (625 mm)	1½" Grooved	18706	36 5/8" (930 mm)	1½" Grooved	18176
24 5/8" (625 mm)	1½" NPT	18707	36 5/8" (930 mm)	1½" NPT	18177
24 5/8" (625 mm)	1½" / 40 mm BSP	18708	36 5/8" (930 mm)	1½" / 40 mm BSP	18178

NFPA 13 - Required minimum flow (LPM) - Single-row, double-row, and multi-row rack storage (without solid shelves)[1]																
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 non-expanded plastic										5,507	5,507	5,507	4,929	4,497	4,497	4,497
Cartoned expanded plastic														4,497	4,497	4,497
Exposed non-expanded plastic										5,507	5,507	5,507	4,929	4,497	4,497	4,497

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

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Dry Pendent Early Suppression Fast Response (ESFR)

VK504 | ESFR Dry Pendent | K16.8/242



Working pressure	175psi/12.1bar
Approvals	UL, FM
Thread size & type	1½" NPT & BSP
Groove size	1½"
Element	Fusible link
Temperatures	74°C, 96°C
Finishes	Brass
Wrench	Refer to tech datasheet
Tech Datasheet	F_062613

- Protects up to 10.7 m (35 ft) high piled storage without using in-rack sprinklers in buildings with 12.2 m (40 ft) high ceilings
- Includes two dry sprinkler insulation boots (part no. 22089M/W)
- INSTALL ON WET SYSTEMS ONLY (not approved for dry/preaction systems)
- Available in 74°C and 96°C temperature ratings

Sprinkler description		Base part number	Sprinkler description		Base part number
Overall length	Inlet style		Overall length	Inlet style	
19½" (495 mm)	1½" Grooved	19225	31½" (800 mm)	1½" Grooved	19233
18½" (470 mm)	1½" NPT	19226	30½" (775 mm)	1½" NPT	19234
18½" (470 mm)	1½" / 40 mm BSP	19227	30½" (775 mm)	1½" / 40 mm BSP	19235
25½" (648 mm)	1½" Grooved	19229	37½" (953 mm)	1½" Grooved	19015
24½" (622 mm)	1½" NPT	19230	36½" (927 mm)	1½" NPT	19016
24½" (622 mm)	1½" / 40 mm BSP	19231	36½" (927 mm)	1½" / 40 mm BSP	19017

NFPA 13 - Required minimum flow (LPM) - Single-row, double-row, and multi-row rack storage (without solid shelves)[1]

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	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 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
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

[1] Required flow per sprinkler calculated using Q=K*(√p) multiplied by number of design sprinklers (12)

[2] Requires one row of in-rack sprinklers

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VK512 | ESFR Dry Pendent | K25.2/363



Working pressure	175psi/12.1bar
Approvals	FM
Groove size	1½"
Element	Fusible link
Temperatures (°C)	74°C, 96°C
Finishes	Brass
Wrench	Refer to tech datasheet
Tech Datasheet	F_071221

- Protects up to 15.2 m (55 ft) high buildings without using in-rack sprinklers
- INSTALL ON WET SYSTEMS ONLY (not approved for dry/preaction systems)
- Available in 74°C or 96 °C temperature rating

Sprinkler description		Part number (74°C)	Sprinkler description		Part number (96°C)
Overall length	Connection		Overall length	Connection	
19½ "(495 mm)	1½" Grooved	24850AC	19½ "(495 mm)	1½" Grooved	24850AE
25½" (648 mm)		24853AC	25½" (648 mm)		24853AE
31½" (800 mm)		24856AC	31½" (800 mm)		24856AE
37½" (950 mm)		24859AC	37½" (950 mm)		24859AE

NFPA 13 - Required minimum flow (LPM) - Single-row, double-row, and multi-row rack storage (without solid shelves)[1]

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	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							

[1] Required flow per sprinkler calculated using Q=K*(√p) multiplied by number of design sprinklers (12)

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Note: Dry ELO Pendent Sprinklers (VK544,VK545, VK546, VK547, VK548l VK549) can be used for Storage applications.
Refer to page 17 to view these products

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Extended Coverage (EC)

VK595 | Extended Coverage Upright | K363 (25.2)



Base part number	16859 (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

- 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 density (mm/min)	Sprinkler spacing (m^2)	(Q) Flow rate / Sprinkler (LPM)	(P) Starting pressure (bar)	Example water demand (186 m^2 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
32.6	18.2	594	2.7	6,530

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Control Mode Specific Application (CMSA)

VK540 | CMSA Upright | K11.2/161.3



Base part number	13166 (½"), 13167 (¾")
Working pressure	175psi/12.1bar
Approvals	cULus, FM
Response	Standard
Thread size & type	½" NPT, ¾" NPT
Element	5 mm glass bulb
Temperatures	68°C, 93°C, 141°C
Finishes	Brass
Wrench	05118CW/B
Tech Datasheet	F_090595

- Provides protection from severe challenge fires by creating larger water drops that penetrate the fire plume and cool the storage commodity
- Approved for storage of class I-IV commodities, heavyweight rolled paper, and expanded and nonexpanded plastics (cartoned and exposed)
- VK540 is approved for wet, dry, and preaction systems
- Eliminates the need for in-rack sprinklers in certain storage scenarios
- Available in 63°C, 93°C and 141°C temperature ratings

NFPA 13 - Required minimum flow (LPM) - Single-row, double-row, and multi-row rack storage (without solid shelves)[1]															
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-II commodity						8,669[3]				4,240	3,180		4,240	3,180	
Class III commodity											3,180		3,180	3,180	
Class IV commodity											5,507		4,497	5,507	4,497
Cartoned nonexpanded plastic											7,344		4,497	7,344	4,497
Exposed plastic											7,344		4,497	7,344	4,497

[1] Required flow per sprinkler calculated using Q=K*(√p) multiplied by number of design sprinklers (12)

[2] Requires one row of in-rack sprinklers

[3] Dry systems only

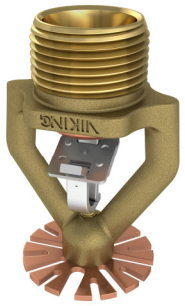
[4] Flows based on wet systems

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Control Mode Specific Application (CMSA)

VK592 | CMSA Pendent | K19.6/282.6



Base part number	14243 (NPT),15468 (BSP)
Working pressure	175psi/12.1bar
Approvals	UL, FM,VdS
Response	Standard
Thread size & type	1" /25 mm NPT & BSP
Element	Fusible link
Temperatures)	71°C, 96°C
Finishes	Brass
Wrench	13635W/B (Side B)
Tech Datasheet	F_033108

- Protects up to 12.2 m (40 ft) high buildings without using in-rack sprinklers
- Requires lower overall water usage than ESFRs and other CMSA products
- Overcomes many obstruction challenges that impact ESFR sprinklers
- 3.7 m (12 ft) spacing between sprinklers provides enhanced design flexibility
- Listed and approved for warehouses with aisles as narrow as 1.2 m (4 ft)
- UL Listed for concrete tee construction (prohibited for ESFR sprinklers)

NFPA 13 - Required minimum flow (LPM) - Single-row, double-row, and multi-row rack storage (without solid shelves)[1]

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

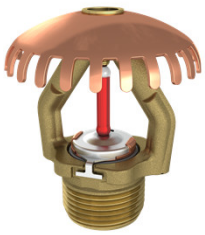
* Unless otherwise indicated, the above data is based on FM approval guidelines.

[1] Required flow per sprinkler calculated using Q=K*(√p) multiplied by number of design sprinklers (12)

[2] 40ft Ceiling height is UL listed only. FM approved for up to 35ft Ceiling height (30t of storage)

[3] Based on UL listed design criteria. VK592 is not FM approved at 40ft Ceiling heights.

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



Base part number	19522 (NPT), 19764 (BSP)
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°C
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°C, 79°C, 93°C and 141°C

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Control Mode Density Area (CMDA)

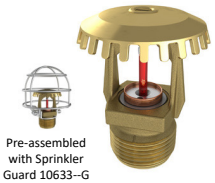
VK530 | Standard Response ELO Upright | K11.2/161.3



Base part number	09679 (NPT), 14819 (BSP)
Working pressure	175psi/12.1bar
Approvals	cULus, FM
Thread size & type	¾"/20mm NPT & BSP
Element	5 mm glass bulb
Wrench	05118CW/B
Tech Datasheet	F_010692

Example Density	Std CMDA Spk Spacing	(Q) Flow Rate / Sprinkler	(P) Starting Pressure	Example Water Demand (2,000 ft² design area)
0.3 gpm/ft²	100 ft²	30 gpm	7.2psi	600 gpm
0.4 gpm/ft²	100 ft²	40 gpm	12.8psi	800 gpm
0.5 gpm/ft²	100 ft²	50 gpm	19.9psi	1,000 gpm
0.6 gpm/ft²	100 ft²	60 gpm	28.7psi	1,200 gpm
0.7 gpm/ft²	100 ft²	70 gpm	39.1psi	1,400 gpm
0.8 gpm/ft²	100 ft²	80 gpm	51.0psi	1,600 gpm

VK531/VK5311 | Quick Response ELO Upright | K11.2/161.3



Pre-assembled with Sprinkler Guard 10633--G

*VK531 – cULus, FM
VK5311 – LPCB & VdS

Base part number	VK531- 10633 VK5311- 19304, 19305
Working pressure	175psi/12.1bar
Approvals*	cULus, FM, LPCB, VdS
Thread size & type	½"NPT, ¾"NPT
Element	3 mm glass bulb
Wrench	05118CW/B 11663W/B
Tech Datasheet	F_010699

Example Density	Std CMDA Spk Spacing	(Q) Flow Rate / Sprinkler	(P) Starting Pressure	Example Water Demand (2,000 ft² design area)
0.3 gpm/ft²	100 ft²	30 gpm	7.2psi	600 gpm
0.4 gpm/ft²	100 ft²	40 gpm	12.8psi	800 gpm
0.5 gpm/ft²	100 ft²	50 gpm	19.9psi	1,000 gpm
0.6 gpm/ft²	100 ft²	60 gpm	28.7psi	1,200 gpm
0.7 gpm/ft²	100 ft²	70 gpm	39.1psi	1,400 gpm
0.8 gpm/ft²	100 ft²	80 gpm	51.0psi	1,600 gpm

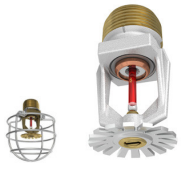
VK536 | Standard Response ELO Pendent | K11.2/161.3



Base part number	07961(NPT), 14820 (BSP)
Working pressure	175psi/12.1bar
Approvals	cULus, FM
Thread size & type	¾"/20mm NPT & BSP
Element	5 mm glass bulb
Wrench	05118CW/B, 11663W/B
Tech Datasheet	F_072213

Example Density	Std CMDA Spk Spacing	(Q) Flow Rate / Sprinkler	(P) Starting Pressure	Example Water Demand (2,000 ft² design area)
0.3 gpm/ft²	100 ft²	30 gpm	7.2psi	600 gpm
0.4 gpm/ft²	100 ft²	40 gpm	12.8psi	800 gpm
0.5 gpm/ft²	100 ft²	50 gpm	19.9psi	1,000 gpm
0.6 gpm/ft²	100 ft²	60 gpm	28.7psi	1,200 gpm
0.7 gpm/ft²	100 ft²	70 gpm	39.1psi	1,400 gpm
0.8 gpm/ft²	100 ft²	80 gpm	51.0psi	1,600 gpm

VK377 | Quick Response ELO Pendent | K11.2/161.3



Pre-assembled with Sprinkler Guard 08337--G

Base part number	08337 (¾"), 17489 (½")
Working pressure	175psi/12.1bar
Approvals	UL, FM, LPCB, VdS
Thread size & type	½"/15mm NPT, ¾"/20mm NPT
Element	3 mm glass bulb
Wrench	05118CW/B, 11663W/B
Tech Datasheet	F_030993

Example Density	Std CMDA Spk Spacing	(Q) Flow Rate / Sprinkler	(P) Starting Pressure	Example Water Demand (2,000 ft² design area)
0.3 gpm/ft²	100 ft²	30 gpm	7.2psi	600 gpm
0.4 gpm/ft²	100 ft²	40 gpm	12.8psi	800 gpm
0.5 gpm/ft²	100 ft²	50 gpm	19.9psi	1,000 gpm
0.6 gpm/ft²	100 ft²	60 gpm	28.7psi	1,200 gpm
0.7 gpm/ft²	100 ft²	70 gpm	39.1psi	1,400 gpm
0.8 gpm/ft²	100 ft²	80 gpm	51.0psi	1,600 gpm

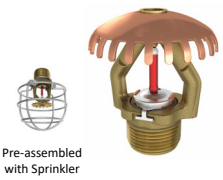
VK580 | Standard Response CMDA Upright | K16.8/242



Base part number	12739
Working pressure	175psi/12.1bar
Approvals	cULus FM
Thread size & type	¾"/20mm NPT
Element	5 mm glass bulb
Wrench	07297W/B
Tech Datasheet	F_041904

Example Density	Std CMDA Spk Spacing	(Q) Flow Rate / Sprinkler	(P) Starting Pressure	Example Water Demand (2,000 ft² design area)
0.45 gpm/ft²	100 ft²	45 gpm	7.2psi	900 gpm
0.5 gpm/ft²	100 ft²	50 gpm	8.9psi	1,000 gpm
0.6 gpm/ft²	100 ft²	60 gpm	12.8psi	1,200 gpm
0.7 gpm/ft²	100 ft²	70 gpm	17.4psi	1,400 gpm
0.8 gpm/ft²	100 ft²	80 gpm	22.7psi	1,600 gpm

VK598 | Standard Response CMDA Upright | K25.2/363



Pre-assembled with Sprinkler Guard 08337--G

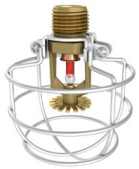
Base part number	19522 (NOT), 19764 (BSP)
Working pressure	175psi/12.1bar
Approvals	FM
Thread size & type	1"/25mm NPT & BSP
Element	5 mm glass bulb
Wrench	13635W/B (Side B)
Tech Datasheet	F_090414

Example Density	Std CMDA Spk Spacing	(Q) Flow Rate / Sprinkler	(P) Starting Pressure	Example Water Demand (2,000 ft² design area)
0.3 gpm/ft²	100 ft²	30 gpm	7.2psi	600 gpm
0.4 gpm/ft²	100 ft²	40 gpm	12.8psi	800 gpm
0.5 gpm/ft²	100 ft²	50 gpm	19.9psi	1,000 gpm
0.6 gpm/ft²	100 ft²	60 gpm	28.7psi	1,200 gpm
0.7 gpm/ft²	100 ft²	70 gpm	39.1psi	1,400 gpm
0.8 gpm/ft²	100 ft²	80 gpm	51.0psi	1,600 gpm

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Intermediate Level In-Rack | Pendent

VK102 | Standard Response | K5.6/80.6



Base part number	12987
Approvals	cULus, FM
Thread size & type	½"NPT
Finish	Brass
Tech Datasheet	F_012498

- Also available with fusible link (VK110, p/n 12972)
- Guard protects sprinkler from water discharge above

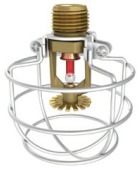
VK202 | Standard Response | K8.0/115.2



Base part number	18264
Approvals	cULus, FM
Thread size & type	¾"NPT
Finish	Brass
Tech Datasheet	F_012498

- Also available with fusible link (VK206, p/n 18254)
- Guard protects sprinkler from water discharge above

VK302 | Quick Response | K5.6/80.6



Base part number	12979
Approvals	cULus, FM
Thread size & type	½"NPT
Finish	Brass
Tech Datasheet	F_012498

- Available in 250psi (VK317, p/n 12282--G)
- Also available with fusible link (VK303, p/n 12275--G)

VK352 | Quick Response Pendent | K8.0/115.2



Base part number	18258
Approvals	cULus, FM
Thread size & type	¾"NPT
Finish	Brass
Tech Datasheet	F_012498

- Also available with fusible link (VK353, p/n 18274--G)

VK536 | Standard Response | K11.2/161.3



Base part number	07961 - - U,14820 - -U
Approvals	cULus, FM
Thread size & type	¾"/20mm NPT & BSP
Finish	Brass
Tech Datasheet	F_012498

NOTE:
- For preassembled with Water Shield, add 'U' suffix
- For preassembled with Sprinkler Guard, add 'G' suffix, water shield p/n 10323 (order separately)
- Preassembled guard protects sprinkler from damage
- Guard protects sprinkler from water discharge above

Intermediate Level In-Rack | Upright

VK550 | Standard Response | K5.6/80.6



Base part number	12986
Approvals	cULus, FM
Thread size & type	½"NPT
Finish	Brass
Wrench	21475M/B
Tech Datasheet	F_012498

- Also available with fusible link (VK552, p/n 12973)
- Shield protects sprinkler from water discharge above

VK560 | Standard Response | K8.0/115.2



Base part number	18263, 12868
Approvals	cULus, FM
Thread size & type	¾"NPT , ½"NPT
Finish	Brass
Wrench	21475M/B
Tech Datasheet	F_012498

- Also available with fusible link (VK562, p/n 18253)
- Shield protects sprinkler from water discharge above

VK556 | Quick Response | K5.6/80.6



Base part number	12978
Approvals	cULus, FM
Thread size & type	½"NPT
Finish	Brass
Wrench	21475M/B
Tech Datasheet	F_012498

- Available in 250psi (VK558, p/n 12281)
- Available with fusible link (VK551, p/n 12279)

VK566 | Quick Response | K8.0/115.2



Base part number	18257
Approvals	cULus, FM
Thread size & type	½"NPT
Finish	Brass
Wrench	21475M/B
Tech Datasheet	F_012498

- Available with fusible link (VK567, p/n 18275)

Notes:
- For preassembled with Water Shield, add 'U' suffix
- Shield protects sprinkler from water discharge above
- Shields are used where guards are not required
- For preassembled with Sprinkler Guard, add 'G' suffix

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Standard Coverage | Pendent, Recessed Pendent, Concealed Pendent

VK154, VK158, VK150 | Standard Response Pendent | K5.6/80.6





	Adjustable Standard		Adjustable Recessed		Plain Barrel	
	SIN	Base p/n	SIN	Base p/n	SIN	Base p/n
1" NPT	VK154	07740U	VK158	06530U	VK150	07852U
25mm BSP		07854U		07853U		07855U
LPCB	VK155	09341	VK159	09342	VK151	09343

Working Pressure	175psi/12.1bar
Approvals	cULus, FM, NYC, GB (China) LPCB – VK155, VK159, VK151
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	½" (VK154, VK155, VK150, VK151) ¼" (VK158, VK159)
Datasheet	F_071591

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




	Adjustable 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		-		10377U		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



	Base p/n
1" NPT	12421UA
25mm BSP	12429UA

	Cover Plate
Base p/n	12381
Finish	Polished Chrome , Painted White 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	¼"
Datasheet	F_092003

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





	Adjustable Standard		Adjustable Recessed		Plain Barrel	
	SIN	Base p/n	SIN	Base p/n	SIN	Base p/n
1" NPT	VK176	08383U	VK180	08385U	VK172	08387U
25mm BSP		16457U		16453U		16455U

Working Pressure	175psi/12.1bar
Approvals	cULus, FM, 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	½" (VK176, Vk172), ¼" (VK180)
Datasheet	F_031793

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Standard Coverage | Pendent, Recessed Pendent, Concealed Pendent

VK194 | Quick Response Concealed Pendent | K5.6/80.6



	Base p/n
1" NPT	12422UA
25mm BSP	12430UA

	Cover Plate
Base p/n	12381
Finish	Polished Chrome , Painted White Painted Ivory, Painted Black

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
Finish	Brass, Chrome, White Polyester, ENT
Wrench	07565W/B
Order Length Increment	¼"
Datasheet	F_092103

VK482 | Quick Response Flush Pendent | K5.6/80.6



Base p/n	18385

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	¼"
Datasheet	F_081512

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







	Adjustable Standard		Adjustable Recessed		Plain Barrel	
	SIN	Base p/n	SIN	Base p/n	SIN	Base p/n
1" NPT	VK163	12810U	VK164	12811U	VK166	12741U
25mm BSP		12813U		12814U		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	½" (VK163, VK166), ¼" (VK164)
Datasheet	F_090110

VK192 | Standard Response Concealed Pendent | K8.0/115.2



	Base p/n
1" NPT	12424UA
25mm BSP	12432UA

	Cover Plate
Base p/n	12381
Finish	Polished Chrome , Painted White 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	¼"
Datasheet	F_081311

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Standard Coverage | Pendent, Recessed Pendent, Concealed Pendent

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





	Adjustable Standard		Adjustable Recessed		Plain Barrel	
	SIN	Base p/n	SIN	Base p/n	SIN	Base p/n
1" NPT	VK177	13249U	VK181	13250U	VK173	13248U
25mm BSP		13252U		13253U		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	½" (VK172, VK173), ¼" (VK181)
Datasheet	F_010305

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





	Adjustable Standard		Adjustable Recessed		Plain Barrel	
	SIN	Base p/n	SIN	Base p/n	SIN	Base p/n
1" NPT	VK286	13255U	VK290	13256U	VK282	13254U
25mm BSP		13258U		13259U		13257U

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	½" (VK286, VK282), ¼" (VK290)
Datasheet	F_010505

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





	Adjustable Standard		Adjustable Recessed		Plain Barrel	
	SIN	Base p/n	SIN	Base p/n	SIN	Base p/n
1¼" NPT	VK546	19840	VK545	19835	VK544	19830
32mm BSP		19841		19836		19831

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_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	Base p/n	SIN	Base p/n	SIN	Base p/n
1¼" NPT	VK549	19838	VK548	19833	VK547	19828
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



	Base p/n	
1" NPT	08050	Plain Barrel
25mm BSP	08079	

Working Pressure	175psi/12.1bar
Approvals	cULus, FM, 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
Wrench	07297W/B
Order Length Increment	½"
Datasheet	F_033192

VK184 | Quick Response Upright | K5.6/80.6



Base p/n	08417U	Plain Barrel

Working Pressure	175psi/12.1bar
Approvals	cULus, NYC
Thread size & type	1" NPT / 25mm
Element	3mm glass bulb
Temperature	68°C , 79°C, 93°C , 141°C
Finish	Brass, White Polyester
Wrench	07297W/B
Order Length Increment	½"
Datasheet	F_031693

Standard Coverage | Sidewall

VK156, VK162, VK152 | Standard Response Horizontal Sidewall | K5.6/80.6



	Adjustable Standard		Adjustable Recessed		Plain Barrel	
	SIN	Base p/n	SIN	Base p/n	SIN	Base p/n
1" NPT	VK156	07857U	VK162	07856U	VK152	07858U
25mm BSP		07860U		07859U		07861U
GB (China)	-	-	-	-	VK152	20375U

Working Pressure	175psi/12.1bar
Approvals	cULus, FM, NYC, GB (China)
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	½" (VK156, VK152), ¼" (VK162)
Datasheet	F_073091

VK178, VK182, VK174 | Quick Response Horizontal Sidewall | K5.6/80.6



	Adjustable Standard		Adjustable Recessed		Plain Barrel	
	SIN	Base p/n	SIN	Base p/n	SIN	Base p/n
1" NPT	VK178	08384U	VK182	08386U	VK174	08388U
25mm BSP		16458U		16454U		16456U

Working Pressure	175psi/12.1bar
Approvals	cULus, FM, 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	½" (VK178, VK174), ¼" (VK182)
Datasheet	F_031993

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Standard Coverage | Sidewall

VK157, VK161, VK153 | Standard Response Vertical Sidewall | K5.6/80.6



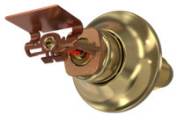


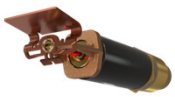
	Adjustable Standard		Adjustable Recessed		Plain Barrel	
	SIN	Base p/n	SIN	Base p/n	SIN	Base p/n
1" NPT	VK157	09123U	VK161	09124U	VK153	09125U
25mm BSP		08961U		08962U		08963U

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	Brass, Chrome, White Polyester
Wrench	07297W/B, 07565W/B (recessed)
Order Length Increment	½" (VK157, VK153), ¼" (VK161)
Datasheet	F_011194

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

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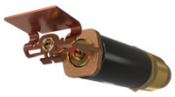
	Adjustable Standard		Adjustable Recessed		Plain Barrel	
	SIN	Base p/n	SIN	Base p/n	SIN	Base p/n
1" NPT	VK2523	21487U	VK2543	21481U	VK2503	21493U
25mm BSP		21488U		21482U		21494U

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	½" (VK2523, VK2503), ¼" (VK2543)
Datasheet	F_022817

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

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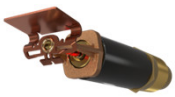
	Adjustable Standard		Adjustable Recessed		Plain Barrel	
	SIN	Base p/n	SIN	Base p/n	SIN	Base p/n
1" NPT	VK2773	21489U	VK2793	21483U	VK2753	21495U
25mm BSP		21490U		21484U		21496U

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	½" (VK2773, VK2753), ¼" (VK2793)
Datasheet	F_022617

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

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	Adjustable Standard		Adjustable Recessed		Plain Barrel	
	SIN	Base p/n	SIN	Base p/n	SIN	Base p/n
1" NPT	VK2883	21491U	VK2923	21485U	VK2843	21497U
25mm BSP		21492U		21486U		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	½" (VK2883, VK2843), ¼" (VK2923)
Datasheet	F_022717

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Extended Coverage

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



Base p/n	10541U

Coverage Area ftxft / mxm	Flow Required gpm / lpm	Pressure 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
Standard Response		
20x20 / 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	¼"
Datasheet	F_051498

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



Base p/n	10542U

	Cover Plate
Base p/n	12381
Finish	Polished Chrome , Painted White Painted Ivory, Painted Black

Coverage Area ftxft / mxm	Flow Required gpm / lpm	Pressure 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	¼"
Datasheet	F_051598

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



Base p/n	
1" NPT	12423UA
25mm BSP	12431UA

Coverage Area ftxft / mxm	Flow Required gpm / lpm	Pressure 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	¼"
Datasheet	F_092203

Ordering made easier, use the online VIKING Dry Sprinkler Order Form at:
https://webtools.vikingcorp.com/dry/

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Dry Sprinkler Order Form

Customer: _____ Ship to: _____

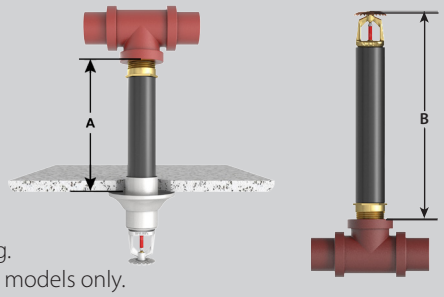
Date: _____ _____

PO#/Job: _____ _____

Dry 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.



Standard Adjustable

Pendent
- ☐ VK154 (SR)
- ☐ VK163 (SR LO)
- ☐ VK176 (QR)
- ☐ VK177 (QR LO)
- ☐ VK286 (QR LO*)

*Fusible Link
165° 205° 280°
(Circle temp)



ELO Pendent
- ☐ VK546 (SR ELO)*
- ☐ VK549 (QR ELO)*

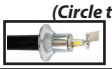
*Fusible Link
165° 205° 280°
Brass Chrome White
(Circle temp and finish)
Lengths in 6" increments, 12"-28"



Note: Insulating boot included.

Horizontal Sidewall
- ☐ VK156 (SR)
- ☐ VK2523 (SR OH)
- ☐ VK178 (QR)
- ☐ VK2773 (QR OH)
- ☐ VK2883 (QR OH*)

*Fusible Link
165° 205° 280°
(Circle temp)



Vertical Sidewall
- ☐ VK 157 (SR)*

*Available in Chrome only



Finish
- ☐ Chrome (F)
- ☐ White (M)
- ☐ White w/chrome escutcheon & sleeve (MF)
- ☐ ENT (JN)

Temperature
- ☐ 155°F (68°C) (B)
- ☐ 175°F (79°C) (D)
- ☐ 200 °F (93°C) (E)
- ☐ 286°F (141°C) (G)

Lengths in ½" increments

Recessed Flush

Pendent
- ☐ VK482 (QR)



Finish
- ☐ White Polyester (M-/W)

Temperature
- ☐ 165°F (74°C) (C)
- ☐ 205 °F (96°C) (E)

Lengths in ¼" increments

Recessed Adjustable

Pendent
- ☐ VK158 (SR)
- ☐ VK164 (SR LO)
- ☐ VK186 (SR**)
- ☐ VK169 (SR***)
- ☐ VK180 (QR)
- ☐ VK181 (QR LO)
- ☐ VK186 (QR**)
- ☐ VK290 (QR LO*)

*Fusible Link
165° 205°
**Ext. Coverage
155° 175°
(Circle temp)
***Stainless Steel



ELO Pendent
- ☐ VK545 (SR ELO)*
- ☐ VK548 (QR ELO)*

*Fusible Link
165° 205° 280°
Brass Chrome White
(Circle temp and finish)
Lengths in 6" increments, 12"-28"



Note: Insulating boot included.

Horizontal Sidewall
- ☐ VK162 (SR)
- ☐ VK2543 (SR OH)
- ☐ VK188 (SR**)
- ☐ VK182 (QR)
- ☐ VK2793 (QR OH)
- ☐ VK188 (QR**)
- ☐ VK2923 (QR OH*)

*Fusible Link
165° 205°
**Ext. Coverage
155° 175°
(Circle temp)



Vertical Sidewall
- ☐ VK161 (SR)



Finish
- ☐ Chrome (F)
- ☐ White (M)
- ☐ ENT (JN)

Temperature
- ☐ 155°F (68°C) (B)
- ☐ 175°F (79°C) (D)
- ☐ 200 °F (93°C (E)

Lengths in ¼" increments

Concealed

Pendent
- ☐ VK190 (SR)
- ☐ VK192 (SR LO)
- ☐ VK196 (SR**)
- ☐ VK194 (QR)
- ☐ VK196 (QR***)

**SR Ext Cov
155°
***QR Ext Cov
135° 155° 175°
(Circle temp)



Finish
- ☐ Chrome (F)
- ☐ White (M)
- ☐ Ivory (M-/I)
- ☐ Black (M-/B)

Temperature
Sprinklers
- ☐ 155°F (68°C) (B)
- ☐ 175°F (79°C) (D)
- ☐ 200 °F (93°C) (E)

Covers
- ☐ 135°F (57°C) (A)
- ☐ 165°F (74°C) (C)

Lengths in ¼" increments

Plain Barrel

Pendent
- ☐ VK150 (SR)
- ☐ VK166 (SR LO)
- ☐ VK168 (SR**)
- ☐ VK172 (QR)
- ☐ VK173 (QR LO)
- ☐ VK282 (QR LO*)

*Fusible Link
165° 205° 280°
(Circle temp)
**Stainless Steel



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.

Horizontal Sidewall
- ☐ VK152 (SR)
- ☐ VK2503 (SR OH)
- ☐ VK174 (QR)
- ☐ VK2753 (QR OH)
- ☐ VK2843 (QR OH*)

*Fusible Link (165°, 205°, 280°)
(Circle temp)



Vertical Sidewall
- ☐ VK153 (SR)



Upright
- ☐ VK160 (SR)*
- ☐ VK184 (QR)*

*Available in Brass only



Finish
- ☐ Chrome (F)
- ☐ Brass (A)
- ☐ ENT (JN)

Temperatures
- ☐ 155°F (68°C) (B)
- ☐ 175°F (79°C) (D)
- ☐ 200 °F (93°C) (E)
- ☐ 286°F (141°C) (G)

Lengths in ½" increments

A or B Dim:	Qty:

All part numbers listed are NPT thread size.

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Determining A and B Dimensions

Quantity	A / B Dimension	SIN

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.)



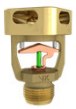
V-BB
VK684, VK685, VK686
5.6/80.6 K-factor



V-BB
VK681, VK682, VK683
8.0/115.2 K-factor



V-SD
VK693, VK694, VK695
8.0/115.2 K-factor



V-HIP
VK660
5.6/80.6 K-factor



Attic Upright
VK696
4.2/57.0 K-factor



Attic Upright
VK697
5.6/80.6 K-factor

c UL us LISTED

K Factors	4.2/57.0, 5.6/80.6, 8.0/115.2
Temperature Ratings	93°C / 200°F
Working Pressure	175psi / 12 bar
Thread Size	½" NPT / 15mm, ¾" NPT / 20mm
Orientation	Upright
Finishes	Brass or ENT
Wrenches	10896W/B 21475M/B (VK696, VK697)
Approvals	cULus
Technical Datasheets	F_092116 9VK660) F_042915 (VK681 – VK686) F_043015 (VK693 – VK695) F_042815 (VK696) F_042517 (VK697)

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

c UL us LISTED

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



VK427
QR, HSW
5.6/80.6 K-factor

VK651
QR EC, HSW
5.6/80.6 K-factor

c UL us LISTED

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
Technical Datasheet	F_032319

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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^2.
fire.



DS21-FM
Pendent
3.8/55 K-factor

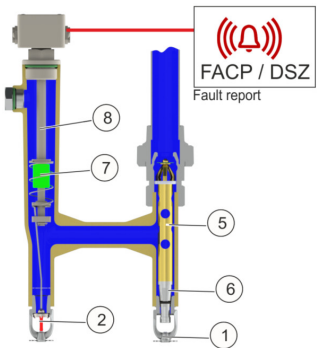
K Factors (Metric/Imperial)	55/3.8
Response	Fast Response
Response Sensitivity	Quick RTI <50
Temperature Rating	68°C / 155°F
Working Pressure	175psi / 12 bar
Minimum Operating Pressure	44psi / 3 bar
Orientation	Pendent
Finishes	Chrome
Approvals	VdS, CNBOP, FM

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.

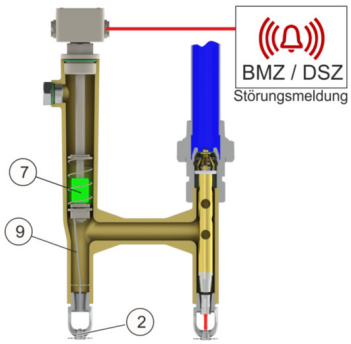
If only one sprinkler head is triggered, an acoustic or visual alarm signal is generated at the monitoring panel. This allows the operator to respond quickly and repair the damaged sprinkler head, avoiding the risk of water damage.

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.

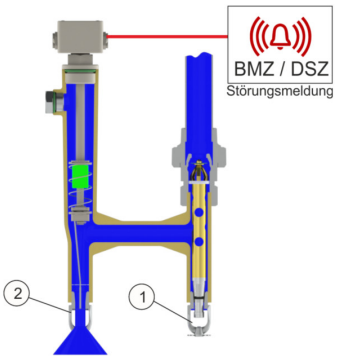
How does the DS21-FM preaction sprinkler work?



<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.



<u>When sprinkler 2 is activated</u>
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.

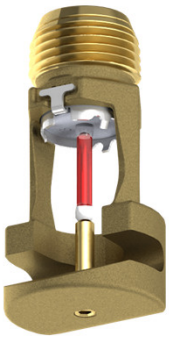


<u>When both sprinklers are activated</u>
When both sprinklers ① and rod ⑨ and float ⑦ are activated, the piston ⑤ drops and seals sprinkler ②.
At the same time the rod ⑨ and float ⑦ drops activating the float switch. A signal is sent to a monitoring device which gives out an audible alarm.
Water enters the preaction sprinkler and is discharged through sprinkler rod ⑨ and float ⑦

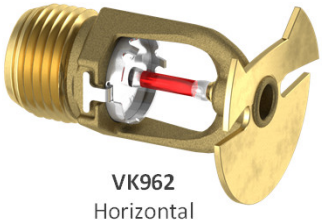
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Window Sprinklers

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.



VK960
Pendent Vertical Sidewall



VK962
Horizontal Sidewall

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.

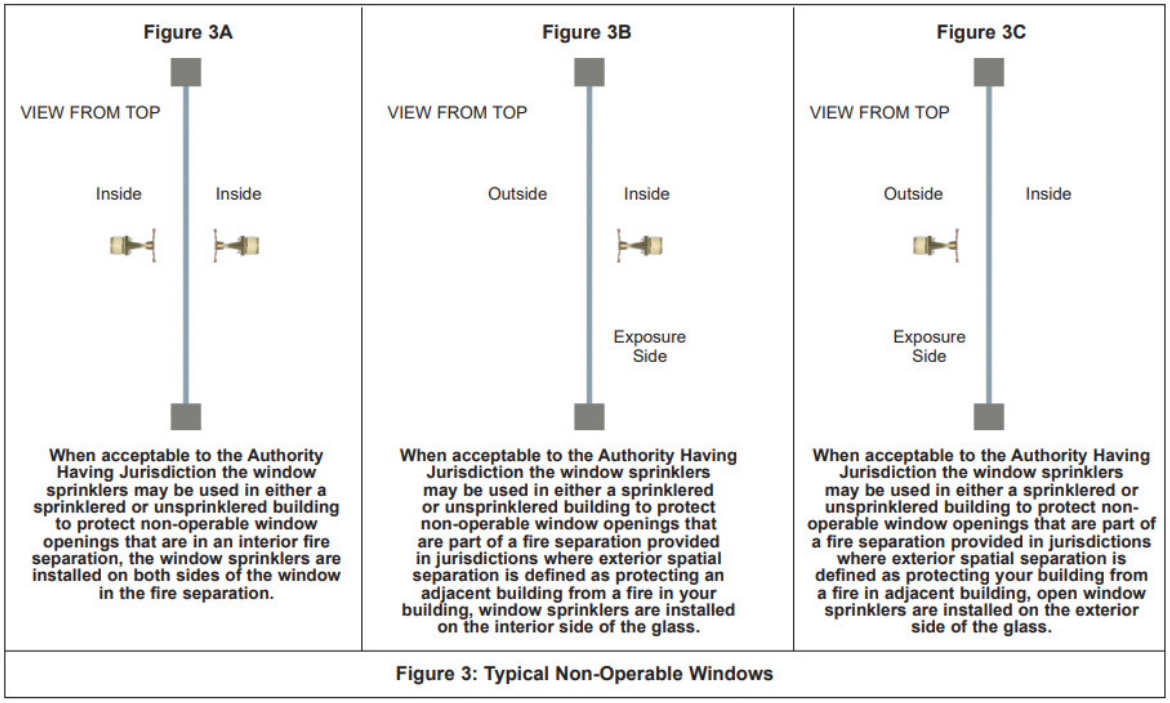


Figure 3: Typical Non-Operable Windows

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

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Sprinkler Guards & Shields

Accessory	Description	Applicable SIN	Options
	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:
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Refer to the relevant technical datasheets for more information.

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Concealed Sprinkler Cover Plates



Standard Finishes



Optional Custom Colours are available on request, UL Listed & FM Approved

Printable Flat Covers



Customize your flat cover plates with virtually any artwork, logo or design 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 / $3^1/_8$"	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 / $3^1/_8$"	13501	57°C / 135°F, 74°C / 165°F	B	VK630
Flat Pendent	70mm / $2^3/_4$"	23190 T 23447 P	57°C / 135°F, 74°C / 165°F	C	VK461 to VK465, VK464-MRI, VK632, VK634, VK492, VK4611, VK4621, VK4921, VK4651
Stainless Steel Flat Pendent	70mm / $2^3/_4$"	23193 T 23455 P	57°C / 135°F, 74°C / 165°F	No Finish	VK462, VK4611, VK4621, VK4921, VK4651
Flat Pendent (large Diameter)	84mm / $3^5/_{16}$"	23495 T 15765 P	57°C / 135°F, 74°C / 165°F	C	VK469, VK636, VK538
Stainless Steel Flat Pendent (large Diameter)	84mm / $3^5/_{16}$"	23504 T 21878 P	57°C / 135°F, 74°C / 165°F	No Finish	VK538
Flat HSW (large diameter)	84mm / $3^5/_{16}$"	16207	57°C / 135°F, 74°C / 165°F	C, Printable	VK481
		16207	57°C / 135°F	B	VK680
Flat Commercial (large diameter)	84mm / $3^5/_{16}$"	23174 T 23463 P	57°C / 135°F, 74°C / 165°F	C	VK461 to VK465, VK464-MRI, VK632, VK634, VK492, VK4611, VK4621, VK4921, VK4651
Stainless Steel Flat Commercial (large diameter)	84mm / $3^5/_{16}$"	23183 T 23473 P	57°C / 135°F, 74°C / 165°F	No Finish	VK462, VK4611, VK4621, VK4921, VK4651
Cleanroom Flat Commercial (large diameter)	84mm / $3^5/_{16}$"	23174-/CR T 23463-/CR P	57°C / 135°F, 74°C / 165°F	D	VK462 (QR), VK4621, VK464 (SR)
Cleanroom Flat Commercial (large diameter)	84mm / $3^5/_{16}$"	23495-/CR T 15765-/CR P	57°C / 135°F, 74°C / 165°F	D	VK469 (QR)
Stainless Steel Cleanroom Flat Commercial (large diameter)	84mm / $3^5/_{16}$"	23183-/CR T 23473-/CR P	57°C / 135°F	No Finish	VK462 (QR), VK4621
Square Flat Commercial (large)	84mm / $3^5/_{16}$" X 84mm / $3^5/_{16}$"	23179 T 23482 P	57°C / 135°F, 74°C / 165°F	C	VK461 to VK465, VK464-MRI, VK632, VK634, VK492, VK4611, VK4621, VK4921, VK4651

Notes:

T Thread-on style Cover Plate

P 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

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Spray Nozzles

Model E Spray Nozzles



SIN	Spray Angle
VK810	65°
VK811	80°
VK812	95°
VK813	110°
VK814	125°
VK815	140°
VK816	160°
VK817	180°

Minimum Operating Pressure	10 psi / 0.7 bar
Working Pressure	175psi / 12 bar
Thread Size	½“ NPT / 15mm
K - Factors	1.2/17.3, 1.8/25.9, 2.3/33.1, 3.2/46.1, 4.1/59.0, 5.6/80.6, 7.2/103.7
Approvals	cULus, FM, GB (China)
Technical Datasheet	F_062104

Model C-1 Window Sprinklers



SIN	K-Factor	Thread
VK790	1.5/21.6	½“ NPT / 15mm
VK791	2.1/30.3	
VK792	3.0/43.2	
VK793	4.3/62.0	
VK794	5.8/83.6	
VK795	7.3/105.2	¾“ NPT / 20mm
VK796	8.1/116.8	

Minimum Operating Pressure	7 psi / 0.5 bar
Working Pressure	175psi / 12 bar
Thread Size	½“ / 15mm NPT (VK790-VK794) ¾“ / 20mm NPT (VK795, VK796)
K - Factors	1.5/21.6 to 8.1/116.8
Approvals	cULus , FM, NYC
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



Thread Size	½“ NPT / 15mm
Finishes	Brass or ENT
Option	Polyethylene Cap (Dust Plug)
Approvals	cULus, FM, NYC, GB (China)
Technical Datasheet	F_030789

Model A-2		
SIN	**K-Factor**	**Spray Angle**
VK740	1.2/17.0	30°
VK741		60°
VK742		90°
VK743	1.4/20.0	120°
VK743	1.5/21.6	120°
VK744	1.4/20.0	140°

Model A-2X		
SIN	**K-Factor**	**Spray Angle**
VK750	2.0/29.0	30°
VK751		60°
VK752		90°
VK753	2.2/32.0	120°
VK754		140°

Model B-2		
SIN	**K-Factor**	**Spray Angle**
VK760	2.8/40.0	30°
VK761		60°
VK762		90°
VK763	3.3/47.5	120°
VK764		140°

Model C-2		
SIN	**K-Factor**	**Spray Angle**
VK770	3.3/47.5	30°
VK771		60°
VK772	3.8/54.7	90°
VK773	3.7/53.3	120°
VK774		140°

Model D-2		
SIN	**K-Factor**	**Spray Angle**
VK780	4.3/61.9	30°
VK781	4.6/69.1	60°
VK782	5.0/72.0	90°
VK783	4.9/70.6	120°
VK784		140°

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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
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

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Dry Valves | Model F-1 & F-2



Valve Sizes	3"/DN80, 4"/DN100, 6"/DN150,
Connection Types	Flange/Flange, Groove/ Groove, Flange/Groove
Connection Specifications	Flange: ANSI150*, PN10/16 Grooved: ANSI/AWWA C606
Pressure Rating	12.1bar/175psi water working pressure
Listings & Approvals	cULus, FM, NYC, CE, LPCB*, VdS*

* 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
Listings & Approvals	cULus, FM

Accelerators | Model D-2



The Viking Model D-2 Accelerator is a quick-opening device, with an integral anti-flood 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

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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
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

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



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



Valve Sizes	2"/DN50, 3"/DN80, 4"/DN100, 6"/DN150
Configurations	SI Preaction Electric, DI Preaction Electric/Pneu-Lectric, Surefire® Preaction – SI/DI
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	cULus, FM

* Note: Compatible with ANSI125

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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® 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® & Firecycle® 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.

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Flow Control Valves | Model J-1



Valve Sizes	1½”/DN40, 2"/DN50, 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, cULus, FM, ABS, NYC

Flow Control Valves | Halar Coated | Model J-2



Valve Sizes	1½”/DN40, 2"/DN50, 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, cULus, FM, ABS, NYC

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

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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



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.

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Water Flow Alarm Switches | VSR (With Retard)



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, 2.0Amps at 3-VDC Resistive, 10mAmps in. at 24VDC	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	300psi / 20.1bar 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, 2.0Amps at 3-VDC Resistive, 10mAmps in. at 24VDC	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, 2.0Amps at 3-VDC Resistive, 10mAmps in. at 24VDC	Flow Sensitivity: 4-10gpm / 15-38lpm
	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 125VAC resistive	Required flow for alarm: 10gpm / 38lpm
	Listings: UL, ULC, FM

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



NEMA 4/IP55 for indoor or outdoor	250psi / 17.2bar service pressure
Temp Range: 4.5°C to 49°C (40°F to 120°F)	Maximum Surge: 18fps / 5.5m/s
1 set of SPDT (Form C) Optional 2nd set	Required flow for alarm: 10gpm / 38lpm
	Listings: UL, cULus, CSFM, NYBSA, CE

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

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



Pressure Type Waterflow Alarm/Supervisory Switch	Two ½" knock outs for dual voltage applications
Pressure range: 4-15 psi (PS10), 5-30 psi (PS15), 10-60 psi (PS25 & PS40), 25-175psi (PS120)	5-year warranty
300 psi system pressure rated	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) $^1/_8$HP (ADPS)
25-300 psig adjustable operating range	
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 ½"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)



Valve shown for reference only.

NEMA 4 rated enclosure for indoor or outdoor use	Fits virtually any ½" - 2" ball valve
Monitors alarm line ball valves	Meets NFPA requirements 13, 2010, 18.17.1 and IBC/IFC 2009, 903.4
Perfect for backflow preventers 1" - 2"	
Mounts on standard & "T" style valves	Listings: UL, cUL, NYMEA and FM Approved

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Other Products| Explosion Proof Switches

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	Hazard: Class I, Div. 1&2, Groups C-D; Class II, Div. 1&2, Groups E,F,G
Water & dust tight and corrosion resistant	
1 set SPDT: 15Amp at 125VAC, 0.5Amps at 125VDC	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/IP66	Hazard: Class I Div. 1&2 Groups C,D; Class II Div. 1&2 Groups E,F,G; Class III Div. 1&2
Minimum flowrate for alarm: 10gpm / 38lpm	
Two sets of SPDT (Form C): 15.0 Amps at 125/250 VAC, 2.0 Amps at 30 VDC Resistive	Max System Pressure: 450psi / 31bar
	Listings: 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; Class II, Div. 1, Groups E,F,G; Class III Div. 1
Temp Range: -40°C to 60°C (-40°F to 140°F)	
Two sets of SPDT (Form C): 15.0 Amps at 125/250 VAC, 2.0 Amps at 30 VDC	Max System Pressure: 300psi / 20.7bar
	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; Class II, Div. 1, Groups E,F,G; Class III Div. 1
Temp Range: -40°C to 60°C (-40°F to 140°F)	
Two sets of SPDT (Form C): 15.0 Amps at 125/250 VAC, 2.0 Amps at 30 VDC	Max System Pressure: 300psi / 20.7bar
	Listings: UL, FM, ATEX/IEC EX, CE

Waterflow Switches | OSYSU-EX (OS&Y Valve Supervisory Switch)



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

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



NEMA 1, 3, 4, 4X, 6, 6P, 9, 13, IP66, 67	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)	
1 set of SPDT : 15.0 Amps at 125VAC, 0.5Amps at 125 VDC	Adjustable length trip rod
	Listings: UL, CSA, ATEX/IEC EX

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



NEMA 1, 7, 9	Hazard: Class I, Div. 1&2, Groups C,D; Class II, Div. 1&2, Groups E,F,G
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	Adjustable length trip rod
	Listings: UL, CSA, ATEX/IEC EX

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TOTALPAC® 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® venting device for continuous supply
- Available as an option (installed inside the TOTALPAC® N_2 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.



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Other Products | Corrosion Inhibiting Systems

Nitrogen Generators | Wall Mountable | INS100 (Wall Mountable)



- Potter's IntelliGen™ Controller (Patent Pending).
- Handles up to 675 gallons of total sprinkler system capacity.
- 10-gallon nitrogen tank.
- Integrated ¼HP oil-less air compressor included to meet NFPA 13.
- 30 minutes fill for 160-gallon system at 40 PSI.
- FM Approved.

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.
- Integrated ½HP oil-less air compressor included to meet NFPA 13.
- 30 minutes fill for 300-gallon system at 40 PSI.
- FM Approved.

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.
- Integrated 1HP oil-less air compressor included to meet NFPA 13.
- 30 minutes fill for 500-gallon system at 40 PSI.
- FM Approved.

Nitrogen Generators | Wall Mountable | INS600



- Potter's IntelliGen™ Controller (Patent Pending).
- Handles up to 2,350 gallons of total sprinkler system capacity.
- 20-gallon nitrogen tank.
- 2 Integrated ½HP oil-less air compressor included to meet NFPA 13.
- 30 minutes fill for 525-gallon system at 40 PSI.
- FM Approved.

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.
- Integrated 2HP oil-less air compressor included to meet NFPA 13.
- 30 minutes fill for 1,000-gallon system at 40 PSI.
- FM Approved.

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.
- 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.

Nitrogen Generators | Skid Mounted | INS2000



- Potter's IntelliGen™ Controller (Patent Pending).
- Handles up to 12,000 gallons of total sprinkler system capacity.
- 3 skids: 80-gallon tank mounted air compressor, nitrogen cabinet and 60-gallon nitrogen.
- 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.

Nitrogen Generators | Skid Mounted | INS2500



- Potter's IntelliGen™ 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.
- 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.

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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 pre-action 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* (L) @ 2.7bar	Model Number	Average lpm**	Motor (kw)	Voltage	Amperage		Recommended Wire Size (mm^2)			Unit Weight (kg)
					FLA	Start-up	8m run	15m run	30m run	
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.
# 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 available products:



Wall Mount Nitrogen Generators



Standard Nitrogen Generators



Nitro-G3® Nitrogen Generators

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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 Attachment To Steel



Fig. 825A
Sway Brace 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



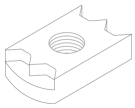
B2500
(TOLCO 310)
Light Duty Spot Insert



N2500
(TOLCO 310N)
Steel Insert Nut



B3014
(TOLCO 309)
Malleable Iron Spot Insert



B3014N
(TOLCO 309N)
Malleable Iron Insert Nut

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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
- Wet / Alarm
- Deluge & Preaction
- Dry Pipe
- Pressure Regulating
- Butterfly
- Gate
- Check

Flexible Sprinkler Hose
Escutcheons
Guards & Shields Test & Drain Multiple Jet Control
Wrenches & Adapters
Flow Meter & Proving Pipe Water Mist Systems



Fluorine Free Systems
Storage Tanks
- Vertical Bladder Tank
- Horizontal Bladder Tank
- Atmospheric Storage Tank
- Tank Accessories
- Pre-assembled Foam Bladder Tank

Discharge Devices
- Foam Generator
- Foam Sprinkler / Nozzle
- Grate Nozzle
- Tank Protection

Monitor Equipment
Foam Pump Products

Proportioning Devices
- ILBP / Balanced Proportioner
- In-line Eductor
- Ratio Controller
- Wide range Proportioner

Valves & Accessories
Foam Concentrates



CO2
- High Pressure
- Low Pressure

Clean Agent Systems
- FM-200® Systems
- Novec™ 1230 Systems

Pre-Engineered Systems
- FM-200® 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.

VIKING®

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