

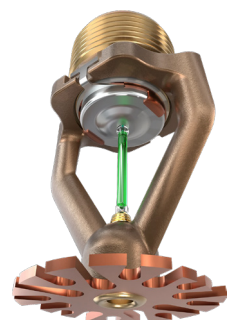


Trusted above all.



## Storage Sprinklers

Quick Reference Guide | EMEA





# Introduction to Storage Sprinklers

Viking is renowned for the development, manufacturing, sales and distribution of excellent fire protection technologies and has been a dependable partner in fire protection for many decades.

The broad product portfolio encompasses innovative and proven system components for water, foam and gas extinguishing systems as well as fire detection systems and is a reflection of Viking's unwavering focus on providing customers with the finest products and highest level of support.

Through Viking's dedicated and knowledgeable customer service, installers of fixed fire protection systems have access to those quality products and can place their trust in the professional and dedicated support services provided by Viking employees. From the smallest project to the largest endeavour, Viking is their single-point partner with the goal to provide the right material whenever and wherever needed.

Viking is passionate about fire protection and committed to the growth of the fixed fire protection industry. As Viking is completely focused and dedicated to this market, customers can have confidence that Viking has the expertise that they need to be successful. They can count on Viking's resources and technical expertise to help them whenever they have a challenge to overcome. And they can be sure to find the right product or solution for their project with the necessary approval or accreditation.

This quick reference guide provides an overview of Viking's comprehensive range of storage sprinklers. Besides access to those products, customers benefit from a market leading technical support team across Europe and the Middle East, which also holds regular technical training courses on water, foam, gas and detection systems, products and maintenance.

Learn more at [www.viking-emea.com](http://www.viking-emea.com).

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## How to order products stating a base part number:

How to order glass bulb sprinklers							
Base part number	+	Finish		+	Temperature (°C)	Bulb Colour	
XXXXX	+	Brass	A	+	57	A	Orange
		Chrome	F		68	B	Red
		White	M-/W		79	D	Yellow
		Black	M-/B		93	E	Green
		Wax	C		141	G	Blue
		ENT (Electroless nickel PTFE)	JN		182	H	Mauve
Examples:	13166AE = 13166 + Brass (A) + 93°C (E)						
	10633AD = 10633 + Brass (A) + 79°C (D)						

How to order fusible link sprinklers							
Base part number	+	Finish		+	Temperature (°C)	Colour Code	
XXXXX	+	Brass	A	+	74	C	None
					71		
					96		
					101	E	White
Example:	10284AC = 10284 + Brass (A) + 74°C (C)						

**For all applicable approvals, please refer to the technical documentation or contact your local Viking sales office.**

# Early Suppression Fast Response (ESFR) Sprinklers

## VK502 - ESFR dry pendent - K202 (14.0)



K-factor	202 (14.0)
Approvals	UL, FM, CE
Thread size & type	1-1/2" NPT & BSP
Groove size	2"
Element	Fusible link
SIN	VK502
Temperatures	74
Finishes	Brass

- 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		
Overall length	Inlet style	Overall length		Inlet style	Base part number	
18-5/8" (473 mm)	1-1/2" Grooved	18702	30-5/8" (778 mm)	1-1/2" Grooved	18710	
18-5/8" (473 mm)	1-1/2" NPT	18703	30-5/8" (778 mm)	1-1/2" NPT	18711	
18-5/8" (473 mm)	1-1/2" / 40 mm BSP	18704	30-5/8" (778 mm)	1-1/2" / 40 mm BSP	18712	
24-5/8" (625 mm)	1-1/2" Grooved	18706	36-5/8" (930 mm)	1-1/2" Grooved	18176	
24-5/8" (625 mm)	1-1/2" NPT	18707	36-5/8" (930 mm)	1-1/2" NPT	18177	
24-5/8" (625 mm)	1-1/2" / 40 mm BSP	18708	36-5/8" (930 mm)	1-1/2" / 40 mm BSP	18178	

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

## VK504 - ESFR dry pendent - K242 (16.8)



K-factor	242 (16.8)
Approvals	UL, FM, CE
Thread size & type	1-1/2" NPT & BSP
Groove size	1-1/2"
Element	Fusible link
SIN	VK504
Temperatures (°C)	74 & 96
Finishes	Brass

- 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		
Overall length	Inlet style	Overall length		Inlet style	Base part number	
19-1/2" (495 mm)	1-1/2" Grooved	19225	31-1/2" (800 mm)	1-1/2" Grooved	19233	
18-1/2" (470 mm)	1-1/2" NPT	19226	30-1/2" (775 mm)	1-1/2" NPT	19234	
18-1/2" (470 mm)	1-1/2" / 40 mm BSP	19227	30-1/2" (775 mm)	1-1/2" / 40 mm BSP	19235	
25-1/2" (648 mm)	1-1/2" Grooved	19229	37-1/2" (953 mm)	1-1/2" Grooved	19015	
24-1/2" (622 mm)	1-1/2" NPT	19230	36-1/2" (927 mm)	1-1/2" NPT	19016	
24-1/2" (622 mm)	1-1/2" / 40 mm BSP	19231	36-1/2" (927 mm)	1-1/2" / 40 mm BSP	19017	

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

## VK512 - ESFR dry pendent - K363 (25.2)



K-factor	363 (25.2)
Approvals	FM, CE
Groove size	1-1/2"
Element	Fusible link
SIN	VK512
Temperatures (°C)	74 & 96
Finishes	Brass

- 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

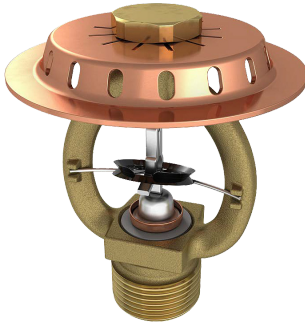
Sprinkler description		Base part number
Overall length	Inlet style	
19-1/2" (495 mm)	1-1/2" Grooved	24850A
25-1/2" (648 mm)		24853A
31-1/2" (800 mm)		24856A
37-1/2" (950 mm)		24859A

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



## Early Suppression Fast Response (ESFR) Sprinklers

### VK520 - ESFR upright - K202 (14.0)

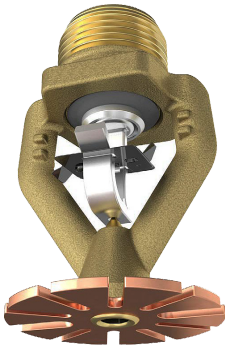


Base part number	10625
K-factor	202 (14.0)
Approvals	FM, CE
Thread size & type	3/4"/20 mm NPT
Element	Fusible link
SIN	VK520
Temperatures (°C)	74 & 96
Finishes	Brass

- 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)

### VK500 - ESFR pendent - K202 (14.0)

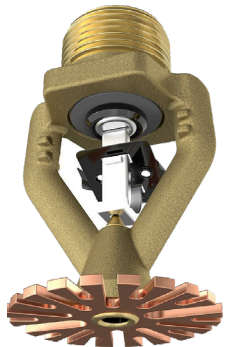


Base part number	10284, 11350
K-factor	202 (14.0)
Approvals	UL, FM, VdS, CE
Thread size & type	3/4"/20 mm NPT
Element	Fusible link
SIN	VK500
Temperatures (°C)	74 & 96
Finishes	Brass

- 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 m<sup>2</sup> (100 ft<sup>2</sup>)
- Available in 74°C and 96°C temperature ratings

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

### VK503 - ESFR pendent - K242 (16.8)

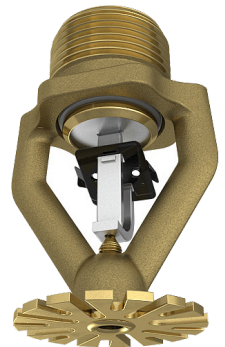


Base part number	14073 (NPT) 14818 (BSP)
K-factor	242 (16.8)
Approvals	UL, FM, CE
Thread size & type	3/4" NPT, 20 mm BSP
Element	Fusible link
SIN	VK503
Temperatures (°C)	74 & 96
Finishes	Brass

- 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

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

### VK506 - ESFR pendent - K320 (22.4)



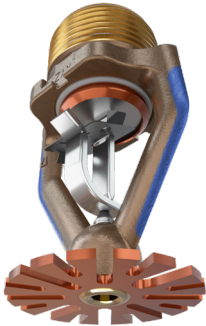
Base part number	18493 (NPT) 18494 (BSP)
K-factor	320 (22.4)
Approvals	UL, FM, CE
Thread size & type	1" / 25 mm (NPT) 1" / 25 mm (BSP)
Element	Fusible link
SIN	VK506
Temperatures	74 & 96
Finishes	Brass

- Protects up to 12.2 m (40 ft) high piled storage without using in-rack sprinklers with ceilings up to 13.7 m (45 ft)
- May reduce or eliminate the need for a fire pump
- Available in 74°C and 96°C temperature ratings

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

# Early Suppression Fast Response (ESFR) Sprinklers

## VK510 - ESFR pendent - K363 (25.2)



Base part number	12080 (NPT) 12200 (BSP)
K-factor	363 (25.2)
Approvals	UL, FM, VdS, CE
Thread size & type	1" (NPT), 25 mm (BSP)
Element	Fusible link
SIN	VK510
Temperatures (°C)	74 & 96
Finishes	Brass

- 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

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

## VK514 - ESFR pendent - K404 (28)

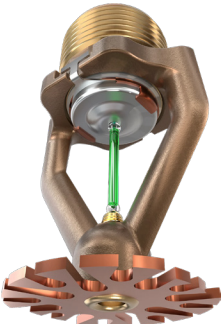


Base part number	22894 (NPT) 22958 (BSP)
K-factor	404 (28.0)
Approvals	UL, FM, CE
Thread size & type	1" (NPT), 25 mm (BSP)
Element	Fusible link
SIN	VK514
Temperatures (°C)	74 & 96
Finishes	Brass

- ESFR sprinkler specifically designed to suppress high-challenge storage fires, without the need for in-rack sprinklers
- Larger K-factor of K404 (28.0) results in lower pressure requirement of 2.8 bar (40 psi)
- UL Listed & FM Approved for aisle widths as narrow as 1.8 m (6 ft) respectively 2.4 m (8 ft) allows for greater racking flexibility and better utilisation of warehouse space
- UL Listed & FM Approved to protect Class I-IV commodities, as well as cartoned unexpanded plastics, stored in either single- or double-row racks
- Available in 74°C and 96°C temperature ratings

NFPA 13 - Required minimum flow (LPM)

## VK5141 - ESFR pendent - K404 (28)



Base part number	25247 (NPT) 25248 (BSP)
K-factor	404 (28.0)
Approvals	UL
Thread size & type	1" (NPT), 25 mm (BSP)
Element	3 mm glass bulb
SIN	VK5141
Temperatures (°C)	68 & 93
Finishes	Brass

- Allows storage to 13.1m with aisle is only 1.5m for maximized storage utilization
- ESFR sprinkler specifically designed to suppress high-challenge storage fires, without the need for in-rack sprinklers
- Larger K-factor of K404 (28.0) results in lower pressure requirement of 2.4 bar (35 psi)
- UL Listed to protect Class I-IV commodities, as well as cartoned unexpanded plastics, stored in either single- or double-row racks
- Available in 68 °C and 93 °C temperature ratings

NFPA 13 - Required minimum flow (LPM)

# Control Mode Specific Application (CMSA) Sprinklers

## VK540 - CMSA upright - K161 (11.2)



Base part number	13166, 13167
K-factor	161 (11.2)
Approvals	UL, FM
Response	Standard
Thread size & type	1/2" NPT, 3/4" NPT
Element	5 mm glass bulb
SIN	VK540
Temperatures (°C)	68, 93 & 141
Finishes	Brass

- 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)



# Control Mode Specific Application (CMSA) Sprinklers

## VK592 - CMSA pendent - K283 (19.6)



Base part number	14243 (NPT) 15468 (BSP)
K-factor	283 (19.6)
Approvals	UL, FM, VdS
Response	Standard
Thread size & type	1" (NPT), 25 mm (BSP)
Element	Fusible link
SIN	VK592
Temperatures (°C)	71 & 96
Finishes	Brass

- 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)
- Available in 71°C and 96°C temperature ratings

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

## VK598 - Storage-specific application upright - K363 (25.2)



Base part number	19522 (NPT) 19764 (BSP)
K-factor	363 (25.2)
Approvals	FM
Response	Standard
Thread size & type	1" (NPT), 25 mm (BSP)
Element	5 mm glass bulb
SIN	VK598
Temperatures (°C)	68, 79, 93 & 141
Finishes	Brass

- 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

# Extended Coverage (EC) Storage Sprinklers

## VK595 - Extended coverage upright - K363 (25.2)



Base part number	16859 (NPT) 16885 (BSP)
K-factor	363 (25.2)
Approvals	UL, FM
Response	Quick/Standard
Thread size & type	1" (NPT), 25 mm (BSP)
Element	Fusible link
SIN	VK595
Temperatures (°C)	74 & 101
Finishes	Brass

- 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 101°C temperature ratings

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

# Commercial Sprinklers for Storage - K80 (CMDA)

## VK300 - Quick response upright - K80 (5.6)



Base part number	12978
K-factor	80 (5.6)
Approvals	UL, FM
Response	Quick
Thread size & type	1/2" NPT / 15 mm BSP
Element	3 mm glass bulb
SIN	VK300
Temperatures (°C)	57, 68, 79, 93 & 141
Finishes	Brass, Chrome, White polyester, Black polyester & Electroless nickel (ENT)

## VK345 - Quick response upright - K80 (5.6)



Base part number	12984
K-factor	80 (5.6)
Approvals	FM, VdS, LPCB
Response	Quick
Thread size & type	1/2" NPT / 15 mm BSP
Element	3 mm glass bulb
SIN	VK345
Temperatures (°C)	57, 68, 79, 93, 141
Finishes	Brass, Chrome, White polyester & Black polyester

## MX3 SU - Quick response upright- K80 (5.6)

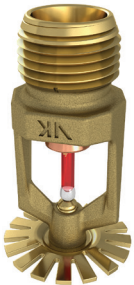


Part numbers	See table
K-factor	80 (5.6)
Approvals	VdS, FM
Response	Quick
Thread size & type	1/2" BSP
Element	3 mm Glass bulb
Model	MX3 SU
Temperatures (°C)	57, 68, 79, 93, 141
Finishes	Brass, Chrome

## MX3 SU - Quick response upright- K80 (5.6)

Thread	K-factor	Temperature (°C)	Part numbers	
			Brass	Chrome
1/2" BSP	80	57	843060	843055
		68	843061	843056
		79	843062	843057
		93	843063	843058
		141	843064	843059

## VK302 - Quick response pendent - K80 (5.6)



Base part number	12979
K-factor	80 (5.6)
Approvals	UL, FM, VdS, LPCB
Response	Quick
Thread size & type	1/2" NPT / 15 mm BSP
Element	3 mm glass bulb
SIN	VK302
Temperatures (°C)	57, 68, 79, 93, 141
Finishes	Brass, Chrome, White polyester, Black polyester & Electroless nickel (ENT)

## MX3 SP - Quick response pendent - K80 (5.6)



Part numbers	See table
K-factor	80 (5.6)
Approvals	VdS, FM
Response	Quick
Thread size & type	1/2" BSP
Element	3 mm glass bulb
Model	MX3 SP
Temperatures (°C)	57, 68, 79, 93, 141
Finishes	Brass, Chrome

Thread	K-factor	Temp. (°C)	Part numbers	
			Brass	Chrome
1/2" BSP	80	57	847945	847938
		79	-	847940
		93	847948	-
		141	847949	847943

## VK301 - Standard response upright - K80 (5.6)



Base part number	17535
K-factor	80 (5.6)
Approvals	UL, FM
Response	Standard
Thread size & type	1/2" NPT / 15 mm BSP
Element	Fusible link
SIN	VK301
Temperatures (°C)	74, 96 & 138
Finishes	Brass, Chrome, White polyester, Black polyester & Electroless nickel (ENT)

## VK303 - Standard response pendent - K80 (5.6)



Base part number	17536
K-factor	80 (5.6)
Approvals	UL, FM
Response	Standard
Thread size & type	1/2" NPT / 15 mm BSP
Element	Fusible link
SIN	VK303
Temperatures (°C)	74, 96 & 138
Finishes	Brass, Chrome, White polyester, Black polyester & Electroless nickel (ENT)



## Flat Spray Sprinklers for Storage - K80 (CMDA)

### MX3 FU - Quick response flat spray upright - K80 (5.6)



Part numbers	See table
K-factor	80 (5.6)
Approvals	VdS, CE, RU, GL
Response	Quick
Thread size & type	1/2" BSP
Element	3 mm glass bulb
Model	MX3 FU
Temperatures (°C)	57, 68, 79, 93, 141
Finishes	Brass, Chrome

### MX3 FP - Quick response flat spray pendent - K80 (5.6)



Part numbers	See table
K-factor	80 (5.6)
Approvals	VdS
Response	Quick
Thread size & type	1/2" BSP
Element	3 mm glass bulb
Model	MX3 FP
Temperatures (°C)	57, 68, 79, 93, 141
Finishes	Brass, Chrome

Thread	K-factor	Temperature (°C)	Part numbers	
			Brass	Chrome
1/2" BSP	80	57	843150	843145
		68	843151	843146
		79	843152	843147
		93	843153	843148
		141	843154	843149

Thread	K-factor	Temperature (°C)	Part numbers	
			Brass	Chrome
1/2" BSP	80	57	843120	843115
		68	843121	843116
		79	843122	843117
		93	843123	843118
		141	843124	843119

## Commercial Sprinklers for Storage - K115 (CMDA)

### VK350 - Quick response upright - K115 (8.0)



Base part number	18257 (3/4") 18259 (1/2")
K-factor	115 (8.0)
Approvals	UL, FM, VdS, LPCB
Response	Quick
Thread size & type	3/4" NPT 1/2" NPT / 15 mm BSP
Element	3 mm glass bulb
SIN	VK350
Temperatures (°C)	57, 68, 79, 93, 141
Finishes	Brass, Chrome, White polyester, Black polyester & Electroless nickel (ENT)

### MX3 SU - Quick response upright - K115 (8.0)



Part numbers	See table
K-factor	115 (8.0)
Approvals	VdS, FM
Response	Quick
Thread size & type	1/2" BSP
Element	3 mm glass bulb
Model	MX3 SU
Temperatures (°C)	57, 68, 79, 93, 141
Finishes	Brass, Chrome

Thread	K-factor	Temp. (°C)	Part numbers	
			Brass	Chrome
1/2" BSP	115	57	843070	843065
		68	843071	843066
		79	843072	843067
		93	843073	843068
		141	843074	843069

### VK352 - Quick response pendent - K115 (8.0)



Base part number	18258 (3/4") 18260 (1/2")
K-factor	115 (8.0)
Approvals	UL, FM, VdS, LPCB
Response	Quick
Thread size & type	3/4" NPT / 20 mm BSP 1/2" NPT / 15 mm BSP
Element	3 mm glass bulb
SIN	VK352
Temperatures (°C)	57, 68, 79, 93, 141
Finishes	Brass, Chrome, White polyester, Black polyester & Electroless nickel (ENT)

### MX3 SP - Quick response pendent - K115 (8.0)




Part numbers	See table
K-factor	115 (8.0)
Approvals	VdS, FM
Response	Quick
Thread size & type	1/2" BSP
Element	3 mm glass bulb
Model	MX3 SP
Temperatures (°C)	57, 68, 79, 93, 141
Finishes	Brass, Chrome

Thread	K-factor	Temp. (°C)	Part numbers	
			Brass	Chrome
1/2" BSP	115	68	845228	845223
		79	845229	-




# Commercial Sprinklers for Storage - K115 (CMDA)

**VK351 - Quick response upright - K115 (8.0)**



Base part number	18275
K-factor	115 (8.0)
Approvals	UL, FM
Response	Quick
Thread size & type	3/4" NPT / 20 mm BSP
Element	Fusible link
SIN	VK351
Temperatures (°C)	74, 96 & 138
Finishes	Brass, Chrome, White polyester & Black polyester


**VK353 - Standard response pendent - K115 (8.0)**



Base part number	18273 (1/2") 18274 (3/4")
K-factor	115 (8.0)
Approvals	UL
Response	Quick
Thread size & type	1/2" NPT / 15 mm BSP 3/4" NPT / 20 mm BSP
Element	Fusible link
SIN	VK353
Temperatures (°C)	74, 96 & 138
Finishes	Brass, Chrome, White polyester & Black polyester

# Flat Spray Sprinklers for Storage - K115 (CMDA)

**Quick response flat spray pendent - K115 (8.0)**




Part numbers	See table
K-factor	115 (8.0)
Approvals	VdS
Response	Quick
Thread size & type	1/2" BSP
Element	3 mm glass bulb
Model	MX3 FP
Temperatures (°C)	57, 68, 79, 93, 141
Finishes	Brass, Chrome

**Quick response flat spray pendent - K115 (8.0)**

Thread	K-factor	Temperature (°C)	Part numbers	
			Brass	Chrome
1/2" BSP	115 (8.0)	57	844593	844588
		68	844594	844589
		79	844595	844590
		93	844596	844591
		141	844597	844592


# Commercial Sprinklers for Storage - K161 (CMDA)

**VK531 & VK5311 - Quick response ELO upright - K161 (11.2)**




Base part number	VK531 - 10633 (3/4") VK5311 - 19304 (3/4") VK5311 - 19305 (1/2")
K-factor	161 (11.2)
Approvals	UL, FM, VdS, LPCB
Response	Quick
Thread size & type	3/4" NPT/20 mm BSP, 1/2" NPT/15 mm BSP
Element	3 mm glass bulb
SIN	VK531 / VK5311
Temperatures (°C)	68, 79, 93, 141
Finishes	Brass, Chrome, White polyester, Black polyester & Electroless nickel (ENT)

**VK377 - Quick response ELO pendent - K161 (11.2)**




Base part number	08337 (3/4") 17489 (1/2")
K-factor	161 (11.2)
Approvals	UL, FM, VdS, LPCB
Response	Quick
Thread size & type	3/4" NPT / 20 mm BSP 1/2" NPT / 15mm BSP
Element	Glass bulb
SIN	VK377
Temperatures (°C)	68, 79, 93, 141
Finishes	Brass, Chrome, White polyester, Black polyester & Electroless nickel (ENT)

**VK533 - Quick response ELO upright - K161 (11.2)**



Base part number	13978
K-factor	161 (11.2)
Approvals	UL
Response	Quick
Thread size & type	3/4" NPT, 20 mm BSP
Element	Fusible link
SIN	VK533
Temperatures (°C)	74, 96
Finishes	Brass, Chrome, White polyester, Black polyester & Electroless nickel (ENT)

**VK547, VK548, VK549 - Quick response ELO dry pendent - K161 (11.2)**



Base part number	VK547 - 19828, 19829 VK548 - 19833, 19834 VK549 - 19838, 19839
K-factor	161 (11.2)
Approvals	FM
Response	Quick
Thread size & type	1" NPT / 25 mm BSP
Element	Fusible link
SIN	VK547, VK548, VK549
Temperatures (°C)	74, 96, 138
Finishes	Brass, Chrome & White polyester
Length	300-1220 mm (12"-48")



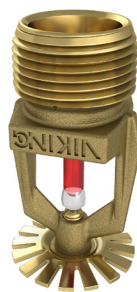
## Commercial Sprinklers for Storage - K161 (CMDA)

### VK530 - Standard response ELO upright - K161 (11.2)



Base part number	09679 (NPT) 14819 (BSP)
K-factor	161 (11.2)
Approvals	UL, FM
Response	Standard
Thread size & type	3/4" (NPT) / 20 mm (BSP)
Element	5 mm glass bulb
SIN	VK530
Temperatures (°C)	68, 79, 93 & 141
Finishes	Brass, Chrome, White polyester, Black polyester & Electroless nickel (ENT)

### VK536 - Standard response ELO pendent - K161 (11.2)



Base part number	07961 (NPT) 14820 (BSP)
K-factor	161 (11.2)
Approvals	UL, FM
Response	Standard
Thread size & type	3/4" (NPT) / 20 mm (BSP)
Element	5 mm glass bulb
SIN	VK536
Temperatures (°C)	68, 79, 93 & 141
Finishes	Brass, Chrome, White polyester, Black polyester & Electroless nickel (ENT)

### VK544, VK545, VK546 - Standard response ELO dry pendent - K161 (11.2)



Base part number	VK544 - 19830, 19831 VK545 - 19835, 19836 VK546 - 13940, 13941
K-factor	161 (11.2)
Approvals	FM
Response	Standard
Thread size & type	1" (NPT) / 25 mm (BSP)
Element	Fusible link
SIN	VK544, VK545, VK546
Temperatures (°C)	74, 96 & 138
Finishes	Brass, Chrome, White polyester
Length	300-1220 mm (12"-48")

## Commercial Sprinklers for Storage - K242 (CMDA)

### VK580 - Standard response upright - K242 (16.8)



Base part number	12739
K-factor	242 (16.8)
Approvals	UL, FM
Response	Standard
Thread size & type	3/4" (NPT) / 20 mm (BSP)
Element	5 mm glass bulb
SIN	VK580
Temperatures (°C)	68, 79, 93 & 141
Finishes	Brass



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