

# VNIV.EX643 - Sprinklers, Automatic and Open

## Sprinklers, Automatic and Open

See General Information for Sprinklers, Automatic and Open

### VIKING CORP

EX643

210 INDUSTRIAL PARK DR  
HASTINGS, MI 49058-9706 USA

Sprinkler Identification Numbers (SIN) VK100, VK102, VK104, VK116, VK118, VK120, VK122, VK124, VK130, VK132, VK150, VK152, VK154, VK156, VK158, VK160, VK162, VK163, VK164, VK166, VK172, VK173, VK174, VK176, VK177, VK178, VK180, VK181, VK182, VK184, VK186, VK188, VK190, VK192, VK194, VK196, VK200, VK202, VK2503, VK2523, VK2543, VK2753, VK2773, VK2793, VK300, VK301, VK302, VK303, VK305, VK310, VK312, VK315, VK317, VK319, VK325, VK327, VK329, VK331, VK333, VK338, VK339, VK340, VK342, VK344, VK350, VK352, VK354, VK360, VK377, VK461, VK462, VK463, VK464, VK465, VK492, VK530, VK531, VK532, VK534, VK536, VK538, VK540, VK550, VK552, VK556, VK558, VK560, VK562, VK566, VK570, VK572, VK580, VK600, VK602, VK604, VK605, VK606, VK608, VK610, VK612, VK614, VK616, VK618, VK630, VK632, VK634, VK638, VK660, VK693, VK694, VK695, VK696, VK697, VK681, VK682, VK683, VK684, VK685, VK686, VK690, VK900, VK1001, VK1021, VK1181, VK1201, VK1202, VK2001, VK2002, VK2021, VK2022, VK3001, VK3021, VK3101, VK3501, VK3502, VK3521, VK3522, VK3541 and VK3542 glass bulb type. Decorative sprinklers identified by unpainted or plated pip cap or compression screw.

SIN VK006, VK008, VK108, VK110, VK112, VK204, VK206, VK307, VK311, VK316, VK318, VK320, VK326, VK328, VK330, VK332, VK334, VK341, VK343, VK346, VK351, VK353, VK355, VK533, VK535, VK537, VK551, VK567, VK567, VK595, VK601, VK603, VK609, VK611, VK613, VK615, VK901 fusible link type sprinklers. Decorative sprinklers identified by unpainted or plated pip cap or compression screw.

SIN VK282, VK2843, VK286, VK2883, VK290, VK2923, VK368, VK400, VK402, VK404, VK410, VK412, VK469, VK481, VK592, VK636, VK680 fusible link type sprinklers. Decorative sprinklers identified by unplated or painted area on the fusible link.

SIN VK426, VK427, VK650, VK651, and VK478 fusible element type sprinkler. Decorative sprinklers identified by unplated or painted area on the fusible element.

## UPRIGHT AND PENDENT STANDARD SPRAY SPRINKLERS NOMINAL 5.6 K - FACTOR

SIN	Response Type	Type	System Working Pressure, psig	Temp Rating, °F
VK302	QR	Pendent	175	135, 155, 175, 200, 286
VK317	QR	Pendent	250	135, 155, 175, 200, 286
VK318	QR	Pendent	250	165, 205, 280
VK300	QR	Upright	175	135, 155, 175, 200, 286
VK315	QR	Upright	250	135, 155, 175, 200, 286
VK316	QR	Upright	250	165, 205, 280
VK303	QR	Pendent	175	165, 205, 280
VK301	QR	Upright	175	165, 205, 280
VK3001	QR	Upright	250	135, 155, 175, 200, 286
VK3021	QR	Pendent	250	135, 155, 175, 200, 286
VK102	SR	Pendent	175	135, 155, 175, 200, 286, 360, 500
VK110	SR	Pendent	175	165, 220, 286, 360

VK132	SR	Pendent	175	135, 155, 175, 200, 286, 360
VK124	SR	Pendent	250	135, 155, 175, 200, 286, 360, 500
VK100	SR	Upright	175	135, 155, 175, 200, 286, 360, 500
VK108	SR	Upright	175	165, 220, 286, 360
VK130	SR	Upright	175	135, 155, 175, 200, 286, 360
VK122	SR	Pendent	250	135, 155, 175, 200, 286, 360, 500
VK1001	SR	Upright	250	135, 155, 175, 200, 286, 360
VK1021	SR	Pendent	250	135, 155, 175, 200, 286, 360

### NOMINAL 1.4 TO 4.2 K - FACTOR

SIN	Response Type	Type	Nom K-Factor	System Working Pressure, psig	Temp Rating, °F
VK329	QR	Pendent	2.8	175	135, 155, 175, 200, 286
VK330	QR	Pendent	2.8	175	165, 205, 286
VK342	QR	Pendent	2.8	250	135, 155, 175, 200, 286
VK343	QR	Pendent	2.8	250	165, 205, 280
VK331	QR	Pendent	4.2	175	165, 205, 286
VK332	QR	Pendent	4.2	175	165, 205, 280
VK325	QR	Upright	2.8	175	135, 155, 175, 200, 286
VK326	QR	Upright	2.8	175	165, 205, 280
VK340	QR	Upright	2.8	250	135, 155, 175, 200, 286
VK341	QR	Upright	2.8	250	165, 205, 280
VK327	QR	Upright	4.2	175	135, 155, 175, 200, 286
VK328	QR	Upright	4.2	175	165, 205, 280
VK008	SR	Pendent	4.2	175	165, 220, 286, 360
VK006	SR	Upright	4.2	175	165, 220, 286, 360

### NOMINAL 8.0 K - FACTOR

SIN	Response Type	Type	Inlet Thread NPT	System Working Pressure, psig	Temp Rating, °F
VK352	QR	Pendent	1/2, 3/4	175	135, 155, 175, 200, 286
VK353	QR	Pendent	1/2, 3/4	175	165, 205, 280
VK350	QR	Upright	1/2, 3/4	175	135, 155, 175, 200, 286
VK351	QR	Upright	1/2, 3/4	175	165, 205, 280
VK3501	QR	Upright	3/4	175	135, 155, 175, 200, 286

VK3502	QR	Upright	1/2	175	135, 155, 175, 200, 286
VK3521	QR	Pendent	3/4	175	135, 155, 175, 200, 286
VK3522	QR	Pendent	1/2	175	135, 155, 175, 200, 286
VK202	SR	Pendent	1/2, 3/4	175	135, 155, 175, 200, 286, 360, 500
VK206	SR	Pendent	1/2, 3/4	175	165, 220, 286, 360
VK200	SR	Upright	1/2, 3/4	175	135, 155, 175, 200, 286, 360, 500
VK204	SR	Upright	1/2, 3/4	175	165, 220, 286, 360
VK2001	SR	Upright	3/4	175	135, 155, 175, 200, 286, 360
VK2002	SR	Upright	1/2	175	135, 155, 175, 200, 286, 360
VK2021	SR	Pendent	3/4	175	135, 155, 175, 200, 286, 360
VK2022	SR	Pendent	1/2	175	135, 155, 175, 200, 286, 360
VK368	SR	Pendent	3/4	175	161, 205

## STANDARD SIDEWALL SPRAY SPRINKLERS

SIN	Response Type	Type	Nom K-Factor	System Working Pressure, psig	Temp Rating, °F
VK412+	QR	Flush HSW	5.6	175	165
VK333	QR	HSW	2.8	175	135, 155, 175, 200, 286
VK334	QR	HSW	2.8	175	165, 205, 280
VK307+	QR	HSW	5.6	175	165, 205, 280
VK319+	QR	HSW	5.6	250	135, 155, 175, 200, 286
VK320+	QR	HSW	5.6	250	165, 205, 280
VK344	QR	HSW	2.8	175	135, 155, 175, 200, 286
VK346	QR	HSW	2.8	250	165, 205, 280
VK305+, *	QR	HSW	5.6	175	135, 155, 175, 200, 286
VK104+	SR	HSW	5.6	175	135, 155, 175, 200, 286, 360
VK116+, *	SR	HSW	5.6	250	135, 155, 175, 200, 286, 360
VK112+	SR	HSW	5.6	175	165, 220, 286, 360
VK360+,*	QR	HSW	8.0	175	135, 155, 175, 200

+ Installed 4 to 12 in. below ceiling.

\* For light and ordinary hazard occupancies.

## FLUSH, RECESSED AND CONCEALED SPRINKLERS

SIN	Response Type	Type	Nom K-Factor	System Working Pressure, psig	Temp Rating, °F
					Cover Sprinkler

VK462# (a)	QR	Conc. Pendent	5.6	175	135, 165	155, 175, 200
VK492# (a)	SR	Conc. Pendent	5.6	175	135, 165	155, 175, 200
VK463	QR	Conc. Pendent	5.6	250	135, 165	155, 175, 200
VK464(a)	SR	Conc. Pendent	8.0	175	135, 165	155, 175, 200
VK464	QR	Conc. Pendent	8.0	175	135, 165	155, 175, 200
VK465#	QR	Conc. Pendent	4.2	175	135, 165	155, 175, 200
VK404	QR	Conc. Pendent	5.6	175	135, 165	165, 220
VK412+	QR	Flush HSW	5.6	175	—	165, 220
VK402	QR	Flush Pendent	5.6	175	—	165
VK410	QR	Flush Pendent	5.6	175	—	165
VK333	QR	Rec. HSW	2.8	175	—	135, 155, 175, 200, 286
VK334	QR	Rec. HSW	2.8	175	—	165, 205, 280
VK344	QR	Rec. HSW	2.8	250	—	135, 155, 175, 200, 286
VK346	QR	Rec. HSW	2.8	250	—	165, 205, 280
VK307	QR	Rec. HSW	5.6	175	—	165, 205, 280
VK329	QR	Rec. Pendent	2.8	175	—	135, 155, 175, 200
VK330	QR	Rec. Pendent	2.8	175	—	165, 205, 280
VK342	QR	Rec. Pendent	2.8	250	—	135, 155, 175, 200
VK343	QR	Rec. Pendent	2.8	250	—	165, 205, 280
VK302**	QR	Rec. Pendent, Concealed Pendent	5.6	175	—	135, 155, 175, 200
VK317**	QR	Rec. Pendent	5.6	250	—	155, 175, 200, 286
VK318**	QR	Rec. Pendent	5.6	250	—	165, 205, 280
VK303	QR	Rec. Pendent	5.6	175	—	165, 205, 280
VK352	QR	Rec. Pendent, Concealed Pendent	8.0	175	—	135, 155, 175, 200
VK353	QR	Rec. Pendent, Concealed Pendent	8.0	175	—	165, 205, 280
VK331	QR	Rec. Pendent	4.2	175	—	135, 155, 175, 200
VK332	QR	Rec. Pendent	4.2	175	—	165, 205, 280

VK3021	QR	Rec. Pendent	5.6	250	-	135, 155, 175, 200, 286
VK3521	QR	Rec. Pendent	8.0	175	-	135, 155, 175, 200, 286
VK3522	QR	Rec. Pendent	8.0	175	-	135, 155, 175, 200, 286
VK400	SR	Flush Pendent	5.6	175	—	165, 220
VK401	SR	Flush Pendent	5.6	175	—	165, 220
VK104	SR	Rec. HSW	5.6	175	—	135, 155, 175, 200
VK116+	SR	Rec. HSW	5.6	175	—	155, 175, 200, 286, 360
VK112+	SR	Rec. HSW	5.6	175	—	165, 200
VK008	SR	Rec. Pendent	4.2	175	—	165, 220
VK102	SR	Rec. Pendent, Concealed Pendent	5.6	175	—	135, 155, 175, 200
VK110	SR	Rec. Pendent	5.6	175	—	165, 220
VK202	SR	Rec. Pendent, Concealed Pendent	8.0	175	—	135, 155, 175, 200
VK206	SR	Rec. Pendent	8.0	175	—	135, 155, 175, 200
VK461#	QR	Conc. Pendent	2.8	175	135, 165	155, 175, 200
VK360+	QR	Rec. HSW	8.0	175	—	135, 155, 175, 200
VK469(a)	QR	Conc. Pendent	11.2	175	135, 165	165
VK469(a)	QR	Conc. Pendent	11.2	175	165	205
VK481+	QR	Concealed HSW	5.6	175	135, 165	165, 205, 220
VK478	QR	Flush Pendent	5.6	175	—	165, 205
VK426	QR	Flush Pendent	5.6	175	—	165, 205
VK427+	QR	Flush HSW	5.6	175	—	165, 205
VK1021	SR	Rec. Pendent	5.6	250	—	135, 155, 175, 200, 286
VK2021	SR	Rec. Pendent	8.0	175	—	135, 155, 175, 200, 286
VK2022	SR	Rec. Pendent	8.0	175	—	135, 155, 175, 200, 286

+ Installed 4 to 12 in. below ceiling.

\*\* Available with 1/2 or 3/4 in. N.P.T.

# May utilize a 1 in. adjustable feature with 1 in. male or female threads.

(a) May utilize a gasket/seal ring on the cover plate which makes the sprinkler assembly Standard Response.

**DRY SPRINKLERS**

<b>SIN</b>	<b>Response Type</b>	<b>Type</b>	<b>Max Length, In.</b>	<b>System Working Pressure, psig</b>	<b>Nom K-Factor</b>	<b>Temp Rating, °F</b>
VK178	QR	HSW	48	175	5.6	135, 155, 175, 200, 286
VK174	QR	HSW	48	175	5.6	135, 155, 175, 200, 286
VK176	QR	Pendent	48	175	5.6	135, 155, 175, 200, 286
VK172	QR	Pendent	48	175	5.6	135, 155, 175, 200, 286
VK182	QR	Rec. HSW	48	175	5.6	135, 155, 175, 200
VK180	QR	Rec. Pendent	48	175	5.6	135, 155, 175, 200
VK184	QR	Upright	48	175	5.6	135, 155, 175, 200, 286
VK156	SR	HSW	48	175	5.6	135, 155, 175, 200, 286
VK152	SR	HSW	48	175	5.6	135, 155, 175, 200, 286
VK154	SR	Pendent	48	175	5.6	135, 155, 175, 200, 286
VK150	SR	Pendent	48	175	5.6	135, 155, 175, 200, 286
VK162	SR	Rec. HSW	48	175	5.6	135, 155, 175, 200
VK163	SR	Rec. Pendent	48	175	8.0	135, 155, 175, 200
VK164	SR	Rec. Pendent	48	175	8.0	135, 155, 175, 200
VK166	SR	Rec. Pendent	48	175	8.0	135, 155, 175, 200
VK158	SR	Rec. Pendent	48	175	5.6	135, 155, 175, 200
VK160	SR	Upright	48	175	5.6	135, 155, 175, 200, 286
VK190#	SR	Concealed Pendent	48	175	5.6	155, 175, 200
VK192#	SR	Concealed Pendent	48	175	8.0	155, 175, 200
VK194#	QR	Concealed Pendent	48	175	5.6	155, 175, 200
VK163	SR	Pendent	48	175	8.0	135, 155, 175, 200, 286
VK164	SR	Pendent	48	175	8.0	135, 155, 175, 200, 286
VK166	SR	Pendent	48	175	8.0	135, 155, 175, 200, 286
VK173	QR	Pendent	48	175	8.0	135, 155, 175, 200, 286
VK177	QR	Pendent	48	175	8.0	135, 155, 175, 200, 286
VK181	QR	Rec Pendent	48	175	8.0	135, 155, 175, 200
VK2753+	QR	HSW	48	175	8.0	135, 155, 175, 200, 286
VK2773+	QR	HSW	48	175	8.0	135, 155, 175, 200, 286
VK2793+	QR	Rec HSW	48	175	8.0	135, 155, 175, 200

VK2503+	SR	HSW	48	175	8.0	135, 155, 175, 200, 286
VK2523+	SR	HSW	48	175	8.0	135, 155, 175, 200, 286
VK2543+	SR	Rec HSW	48	175	8.0	135, 155, 175, 200
VK282	QR	Pendent	48	175	8.0	165, 205, 280
VK2843+	QR	HSW	48	175	8.0	165, 205, 280
VK286	QR	Pendent	48	175	8.0	165, 205, 280
VK2883+	QR	HSW	48	175	8.0	165, 205, 280
VK290	QR	Rec Pendent	48	175	8.0	165, 205, 280
VK2923+	QR	Rec HSW	48	175	8.0	165, 205, 280
VK482	QR	Flush Pendent	48	175	5.6	165, 205
VK483	SR	Flush Pendent	48	175	5.6	286

# Utilizes 135 or 165°F coverplate

+ Installed 4 to 12 in. below ceiling.

### CONVENTIONAL (OLD STYLE) SPRINKLERS

SIN	Response Type	Nom K-Factor	Temp Rating, °F
VK310	QR	5.6	135, 155, 175, 200, 286, 360
VK311	QR	5.6	165, 205, 280
VK312	QR	5.6	135, 155, 175, 200, 286, 360
VK354	QR	8.0	135, 155, 175, 200, 286, 360
VK355	QR	8.0	165, 205, 280
VK118	SR	5.6	135, 155, 175, 200, 286, 360
VK120	SR	8.0	135, 155, 175, 200, 286, 360
VK1181	SR	5.6	135, 155, 175, 200, 286, 360
VK1201	SR	8.0	135, 155, 175, 200, 286, 360
VK1202	SR	8.0	135, 155, 175, 200, 286, 360
VK3101	QR	5.6	135, 155, 175, 200, 286
VK3541	QR	8.0	135, 155, 175, 200, 286
VK3542	QR	8.0	135, 155, 175, 200, 286

### STANDARD RESPONSE - (SR) - EXTENDED COVERAGE SPRINKLERS - LIGHT HAZARD

SIN	Type	Max Width (A) Ft	Max Length (B) Ft	Min Flow GPM	Nom K-Factor	Distance Below Ceiling In.	System Operating Pressure, psig	Temp Rating, °F
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VK186	Dry Pendent	20	20	40	5.6	—	175	155, 175
VK616*	Conc. Pendent	18	18	33	8.0	—	175	155
VK616*	Conc. Pendent	20	20	40	8.0	—	175	155
VK605**	HSW, Rec. HSW	16	20	32	5.6	6 to 12	175	155
VK609**	HSW, Rec. HSW	16	20	32	5.6	6 to 12	175	165
VK605	HSW, Rec. HSW	16	16	26	5.6	6 to 12	175	155
VK605	HSW, Rec. HSW	16	18	29	5.6	6 to 12	175	155
VK609	HSW, Rec. HSW	16	18	29	5.6	6 to 12	175	205
VK612	HSW, Rec. HSW	16	16	26	5.6	6 to 12	250	155
VK612	HSW, Rec. HSW	16	18	29	5.6	6 to 12	250	155
VK613	HSW, Rec. HSW	16	18	29	5.6	6 to 12	250	205
VK612	HSW, Rec. HSW	16	20	32	5.6	6 to 12	250	155
VK613	HSW, Rec. HSW	16	20	32	5.6	6 to 12	250	165, 205
VK600	Pendent	20	20	40	5.6	—	175	155, 175
VK601	Pendent	20	20	40	5.6	—	175	165, 205
VK603	Pendent	20	20	40	5.6	—	175	165, 205
VK604	Pendent, Rec. Pendent	20	20	40	5.6	—	175	155, 175**
VK610**	EC Pendent	18	18	33	5.6	—	250	155
VK611**	EC Pendent	18	18	33	5.6	—	250	165
VK610	EC Pendent	20	20	40	5.6	—	250	155, 175**
VK611	EC Pendent	20	20	40	5.6	—	250	165**
VK602	Pendent, Rec. Pendent	20	20	40	8.0	—	175	155, 175
VK608	Pendent, Rec. Pendent	20	20	40	11.2	—	175	155
VK188	Rec. Dry HSW	16	20	32	5.6	4 to 6	175	155, 175
VK186	Rec. Dry Pendent	20	20	40	5.6	—	175	155, 175
VK196*	Dry Concealed Pendent	18	18	33	5.6	—	175	155
VK196*	Dry Concealed Pendent	20	20	40	5.6	—	175	155
VK614*	Domed Conc. Pendent	18	18	33	5.6	—	175	155
VK614*	Domed Conc. Pendent	20	20	40	5.6	—	175	155
VK618*	ELO Conc. Pendent	18	18	33	11.2	—	175	155
VK618*	ELO Conc. Pendent	20	20	40	11.2	—	175	155

\* Utilizes 135°F coverplate.

# Utilizes 165°F coverplate.



\*\* Utilizes E-1 escutcheon only.

+ Available with 1/2 or 3/4 in. N.P.T.

(A) Dimension of wall on which sprinkler is installed.

(B) Dimension perpendicular to wall on which sprinkler is installed.

## QUICK RESPONSE (QR) - EXTENDED COVERAGE SPRINKLERS - LIGHT HAZARD

SIN	Type	Max Width (A) Ft	Max Length (B) Ft	Min Flow GPM	Nom K-Factor	Maximum Ceiling Incline In./Ft	Distance Below Ceiling In.	Temp Rating, °F
<b>Sloped Ceilings</b>								
VK605+	HSW, Rec. HSW	16	16	26	5.6	4/12	4 to 6	155
VK609+	HSW, Rec. HSW	16	16	26	5.6	4/12	4 to 6	165, 205
VK605+	HSW, Rec. HSW	16	18	29	5.6	4/12	4 to 6	155
VK609+	HSW, Rec. HSW	16	18	29	5.6	4/12	4 to 6	165
VK605+	HSW, Rec. HSW	16	20	32	5.6	4/12	4 to 6	135, 175

+ For use below smooth, flat, sloped ceilings with pitches between 2/12 to 4/12 (in./in.) at the minimum flow rates specified. The calculation to determine the design area in accordance with NFPA 13 shall not be credited for the quick response feature and not be debited for installation with slopes with pitches greater than 2/12 (in./in.).

## QUICK RESPONSE (QR) - EXTENDED COVERAGE SPRINKLERS - LIGHT HAZARD

SIN	Type	Max Width (A) Ft	Max Length (B) Ft	Min Flow GPM	System Working Pressure, psig	Nom K-Factor	Distance Below Ceiling In.	Temp Rating, °F
<b>Smooth Horizontal Ceilings (Pitches Not Greater Than 2/12 in./in.)</b>								
VK188	Dry HSW	16	16	26	175	5.6	4 to 6	155, 175
VK650	Flush Pendent	16	16	26	175	5.6	—	165, 205
VK651	Flush HSW	16	16	26	175	5.6	—	165, 205
VK616*	Conc. Pendent	16	16	26	175	8.0	—	135, 155
VK616#	Conc. Pendent	16	16	26	175	8.0	—	175
VK616*	Conc. Pendent	18	18	33	175	8.0	—	135
VK616#	Conc. Pendent	18	18	33	175	8.0	—	175
VK616*	Conc. Pendent	20	20	40	175	8.0	—	135
VK616#	Conc. Pendent	20	20	40	175	8.0	—	175
VK188	Dry HSW	16	18	29	175	5.6	4 to 6	155, 175
VK188	Dry HSW	16	20	32	175	5.6	4 to 6	155, 175
VK186	Dry Pendent, Rec. Pendent	16	16	26	175	5.6	—	155, 175
VK186	Dry Pendent, Rec. Pendent	18	18	33	175	5.6	—	155, 175

VK605	HSW, Rec. HSW	16	16	26	175	5.6	6 to 12	155
VK609	HSW, Rec. HSW	16	16	26	175	5.6	6 to 12	165, 205
VK612	HSW, Rec. HSW	16	16	26	250	5.6	6 to 12	155
VK613	HSW, Rec. HSW	16	16	26	250	5.6	6 to 12	165, 205
VK605	HSW, Rec. HSW	16	18	29	175	5.6	6 to 12	155
VK609	HSW, Rec. HSW	16	18	29	175	5.6	6 to 12	165
VK612	HSW, Rec. HSW	16	18	29	250	5.6	6 to 12	155
VK613	HSW, Rec. HSW	16	18	29	250	5.6	6 to 12	165
VK605	HSW, Rec. HSW	16	20	32	175	5.6	6 to 12	135, 175
VK612	HSW, Rec. HSW	16	20	32	250	5.6	6 to 12	135, 175
VK606**	HSW, Rec. HSW	16	16	26	175	8.0	4 to 12	135, 155, 175
VK606**	HSW, Rec. HSW	16	18	29	175	8.0	4 to 12	135, 155, 175
VK606**	HSW, Rec. HSW	16	20	32	175	8.0	4 to 12	135,155,175
VK606**	HSW, Rec. HSW	16	22	36	175	8.0	4 to 6	135, 155, 175
VK606**	HSW, Rec. HSW	16	22	38	175	8.0	6 to 12	135, 155, 175
VK600	Pendent	20	20	40	175	5.6	—	135
VK602	Pendent	20	20	40	175	8.0	—	135
VK600	Pendent, Rec. Pendent	16	16	26	175	5.6	—	135, 155, 175
VK601	Pendent, Rec. Pendent	16	16	26	175	5.6	—	165, 205
VK603	Pendent, Rec. Pendent	16	16	26	175	5.6	—	165, 205
VK604	Pendent, Rec. Pendent	16	16	26	175	5.6	—	135, 155, 175
VK600	Pendent, Rec. Pendent	18	18	33	175	5.6	—	135, 155, 175
VK601	Pendent, Rec. Pendent	18	18	33	175	5.6	—	165
VK603	Pendent, Rec. Pendent	18	18	33	175	5.6	—	165
VK604	Pendent, Rec. Pendent	18	18	33	175	5.6	—	135, 155, 175
VK604	Pendent, Rec. Pendent	20	20	40	175	5.6	—	135, 175
VK602	Pendent, Rec. Pendent	16	16	26	175	8.0	—	135, 155, 175
VK602	Pendent, Rec. Pendent	18	18	33	175	8.0	—	135, 155, 175
VK608	Pendent, Rec. Pendent	16	16	30	175	11.2	—	135, 155, 175
VK608	Pendent, Rec. Pendent	18	18	33	175	11.2	—	135, 155, 175
VK608	Pendent, Rec. Pendent	20	20	40	175	11.2	—	135, 175
VK196*	Dry Concealed Pendent	16	16	26	175	5.6	—	135, 155
VK196#	Dry Concealed Pendent	16	16	26	175	5.6	—	175

VK196*	Dry Concealed Pendent	18	18	33	175	5.6	—	135
VK196#	Dry Concealed Pendent	18	18	33	175	5.6	—	175
VK196*	Dry Concealed Pendent	20	20	40	175	5.6	—	135
VK196#	Dry Concealed Pendent	20	20	40	175	5.6	—	175
VK614*	Domed Conc. Pendent	16	16	26	175	5.6	—	135, 155
VK614#	Domed Conc. Pendent	16	16	26	175	5.6	—	175
VK614*	Domed Conc. Pendent	18	18	33	175	5.6	—	135
VK614#	Domed Conc. Pendent	18	18	33	175	5.6	—	175
VK614*	Domed Conc. Pendent	20	20	40	175	5.6	—	135
VK614#	Domed Conc. Pendent	20	20	40	175	5.6	—	175
VK618*	ELO Conc. Pendent	16	16	30	175	11.2	—	135, 155
VK618#	ELO Conc. Pendent	16	16	30	175	11.2	—	175
VK618*	ELO Conc. Pendent	18	18	33	175	11.2	—	135
VK618#	ELO Conc. Pendent	18	18	33	175	11.2	—	175
VK618*	ELO Conc. Pendent	20	20	40	175	11.2	—	135
VK618	ELO Conc. Pendent	20	20	40	175	11.2	—	175
VK630	HSW, Recessed HSW	14	24	34	175	8.0	4 to 6	135, 155, 175
VK630*	Concealed HSW	14	24	34	175	8.0	4 to 6	135
VK630	HSW, Recessed HSW	14	24	36	175	8.0	6 to 12	135, 155, 175
VK630*	Concealed HSW	14	24	36	175	8.0	6 to 12	135
VK630	HSW, Recessed HSW	14	26	38	175	8.0	4 to 6	135, 175
VK630*	Concealed HSW	14	26	39	175	8.0	4 to 6	135
VK630	HSW, Recessed HSW	14	26	46	175	8.0	6 to 12	135, 175
VK630#*	Concealed HSW	14	26	46	175	8.0	6 to 12	135, 175
VK630	HSW, Recessed HSW	16	16	26	175	8.0	4 to 12	135, 155, 175
VK630#*	Concealed HSW	16	16	26	175	8.0	4 to 12	135, 175
VK630	HSW, Recessed HSW	16	18	29	175	8.0	4 to 12	135, 155, 175
VK630#*	Concealed HSW	16	18	29	175	8.0	4 to 12	135, 175
VK630	HSW, Recessed HSW	16	20	32	175	8.0	4 to 12	135, 155, 175
VK630#*	Concealed HSW	16	20	32	175	8.0	4 to 12	135, 175
VK630	HSW, Recessed HSW	16	22	36	175	8.0	4 to 12	135, 175
VK630*	Concealed HSW	16	22	36	175	8.0	4 to 12	135
VK630	HSW, Recessed HSW	16	24	39	175	8.0	4 to 12	135, 175

VK630*	Concealed HSW	16	24	39	175	8.0	4 to 12	135
VK630	HSW, Recessed HSW	18	18	33	175	8.0	4 to 12	135, 175
VK630*	Concealed HSW	18	18	33	175	8.0	4 to 12	135
VK630	HSW, Recessed HSW	18	20	36	175	8.0	4 to 12	135, 175
VK630*	Concealed HSW	18	20	36	175	8.0	4 to 12	135
VK630	HSW, Recessed HSW	18	22	40	175	8.0	4 to 12	135, 175
VK630*	Concealed HSW	18	22	40	175	8.0	4 to 12	135
VK632*#	Conc. Pendent	16	16	26	175	5.6	—	135, 155, 175, 200
VK632*#	Conc. Pendent	18	18	33	175	5.6	—	135, 155, 175, 200
VK632*#	Conc. Pendent	20	20	40	175	5.6	—	135, 175
VK634*#	Conc. Pendent	16	16	26	175	8.0	—	135, 155, 175, 200
VK634*#	Conc. Pendent	18	18	33	175	8.0	—	135, 155, 175, 200
VK634*#	Conc. Pendent	20	20	40	175	8.0	—	135, 175
VK636\$#	Conc. Pendent	16	16	30	175	11.2	—	165
VK636#	Conc. Pendent	16	16	30	175	11.2	—	205
VK636\$#	Conc. Pendent	18	18	33	175	11.2	—	165
VK636#	Conc. Pendent	18	18	33	175	11.2	—	205
VK636\$#	Conc. Pendent	20	20	40	175	11.2	—	165
VK636#	Conc. Pendent	20	20	40	175	11.2	—	205
VK532	Upright	16	16	30	175	11.2	—	135, 155, 175
VK532	Upright	18	18	33	175	11.2	—	135, 155, 175
VK532	Upright	20	20	40	175	11.2	—	135, 175
VK534	Pendent, Rec. Pendent	16	16	30	175	11.2	—	135, 155, 175
VK534	Pendent, Rec. Pendent	18	18	33	175	11.2	—	135, 155, 175
VK534	Pendent, Rec. Pendent	20	20	40	175	11.2	—	135, 175
VK680*	Concealed HSW	14	22	31	175	8.0	4 to 12	165
VK680*	Concealed HSW	14	24	34	175	8.0	4 to 6	165
VK680*	Concealed HSW	14	24	35	175	8.0	6 to 12	165
VK680*	Concealed HSW	16	16	26	175	8.0	4 to 12	165
VK680*	Concealed HSW	16	18	29	175	8.0	4 to 12	165
VK680*	Concealed HSW	16	20	32	175	8.0	4 to 12	165
VK680*	Concealed HSW	16	22	36	175	8.0	4 to 12	165
VK680*	Concealed HSW	16	24	39	175	8.0	4 to 6	165

VK680*	Concealed HSW	16	24	40	175	8.0	6 to 12	165
VK680*	Concealed HSW	18	18	33	175	8.0	4 to 12	165
VK680*	Concealed HSW	18	20	36	175	8.0	4 to 12	165
VK680*	Concealed HSW	18	22	40	175	8.0	4 to 12	165
VK638	HSW, Recessed HSW	28	12	34	175	8.0	4 to 12	135, 155, 175, 200
VK638*#	Concealed HSW	28	12	34	175	8.0	4 to 12	135, 155, 175, 200
VK638	HSW, Recessed HSW	28	14	40	175	8.0	4 to 12	135, 155, 175, 200
VK638*#	Concealed HSW	28	14	40	175	8.0	4 to 12	135, 155, 175, 200

++ Available with 1/2 or 3/4 in. N.P.T.

\$ Utilizes 133°F cover plate.

\* Utilizes 135°F cover plate.

# Utilizes 165°F coverplate.

\*\* Model F1 escutcheon only.

(A) Dimension of wall on which sprinkler is installed.

(B) Dimension perpendicular to wall on which sprinkler is installed.

## STANDARD RESPONSE (SR) - EXTENDED COVERAGE SPRINKLERS - ORDINARY HAZARD

SIN	Type	Max Width x Length Ft x Ft	Ordinary Hazard Group	Min Sprinkler Flow Rate GPM	Nom K-Factor	Temp Rating, °F
VK534+	Pendent	16 x 16	1	39	11.2	155, 175, 200, 286
VK534+	Pendent	16 x 16	2	51	11.2	155, 175, 200, 286
VK534+	Pendent	18 x 18	1	49	11.2	155, 175, 200, 286
VK534+	Pendent	18 x 18	2	65	11.2	155, 175, 200, 286
VK534+	Pendent	20 x 20	1	60	11.2	155, 175, 200, 286
VK534+	Pendent	20 x 20	2	80	11.2	155, 175, 200, 286
VK534+	Rec. Pendent	16 x 16	1	39	11.2	155, 175, 200
VK534+	Rec. Pendent	16 x 16	2	51	11.2	155, 175, 200
VK534+	Rec. Pendent	18 x 18	1	49	11.2	155, 175, 200
VK534+	Rec. Pendent	18 x 18	2	65	11.2	155, 175, 200
VK534+	Rec. Pendent	20 x 20	1	60	11.2	155, 175, 200
VK534+	Rec. Pendent	20 x 20	2	80	11.2	155, 175, 200
VK537+	Pendent	16 x 16	1	39	11.2	165, 205
VK537+	Pendent	16 x 16	2	51	11.2	165, 205
VK537+	Pendent	18 x 18	1	49	11.2	165, 205

VK537+	Pendent	18 x 18	2	65	11.2	165, 205
VK537+	Pendent	20 x 20	1	60	11.2	165, 205
VK537+	Pendent	20 x 20	2	80	11.2	165, 205
VK537+	Rec. Pendent	16 x 16	1	39	11.2	165, 205
VK537+	Rec. Pendent	16 x 16	2	51	11.2	165, 205
VK537+	Rec. Pendent	18 x 18	1	49	11.2	165, 205
VK537+	Rec. Pendent	18 x 18	2	65	11.2	165, 205
VK537+	Rec. Pendent	20 x 20	1	60	11.2	165, 205
VK537+	Rec. Pendent	20 x 20	2	80	11.2	165, 205
VK532+	Upright	16 x 16	1	38	11.2	155, 175, 200, 286
VK532+	Upright	16 x 16	2	51	11.2	155, 175, 200, 286
VK532+	Upright	18 x 18	1	49	11.2	155, 175, 200, 286
VK532+	Upright	18 x 18	2	65	11.2	155, 175, 200, 286
VK532+	Upright	20 x 20	1	60	11.2	155, 175, 200, 286
VK532+	Upright	20 x 20	2	80	11.2	155, 175, 200, 286
VK535+	Upright	16 x 16	1	38	11.2	165, 205
VK535+	Upright	16 x 16	2	51	11.2	165, 205
VK535+	Upright	18 x 18	1	49	11.2	165, 205
VK535+	Upright	18 x 18	2	65	11.2	165, 205
VK535+	Upright	20 x 20	1	60	11.2	165, 205
VK535+	Upright	20 x 20	2	80	11.2	165, 205
VK570+	Upright	16 x 16	1	39	14.0	155, 175, 200, 286
VK570+	Upright	16 x 16	2	51	14.0	155, 175, 200, 286
VK570+	Upright	18 x 18	1	49	14.0	155, 175, 200, 286
VK570+	Upright	18 x 18	2	65	14.0	155, 175, 200, 286
VK570+	Upright	20 x 20	1	60	14.0	155, 175, 200, 286
VK570+	Upright	20 x 20	2	80	14.0	155, 175, 200, 286
VK572+	Pendent	16 x 16	1	39	14.0	155, 175, 200, 286
VK572+	Pendent	16 x 16	2	51	14.0	155, 175, 200, 286
VK572+	Pendent	18 x 18	1	49	14.0	155, 175, 200, 286
VK572+	Pendent	18 x 18	2	65	14.0	155, 175, 200, 286
VK572+	Pendent	20 x 20	1	60	14.0	155, 175, 200, 286
VK572+	Pendent	20 x 20	2	80	14.0	155, 175, 200, 286

VK572+	Rec. Pendent	16 x 16	1	39	14.0	155, 175, 200, 286
VK572+	Rec. Pendent	16 x 16	2	51	14.0	155, 175, 200, 286
VK572+	Rec. Pendent	18 x 18	1	49	14.0	155, 175, 200, 286
VK572+	Rec. Pendent	18 x 18	2	65	14.0	155, 175, 200, 286
VK572+	Rec. Pendent	20 x 20	1	60	14.0	155, 175, 200, 286
VK572+	Rec. Pendent	20 x 20	2	80	14.0	155, 175, 200, 286

+ These sprinklers are suitable for installation below noncombustible obstructed construction as describe in NFPA-13.

## QUICK RESPONSE (QR) - EXTENDED COVERAGE SPRINKLERS - ORDINARY HAZARD

SIN	Type	Max Width x Length Ft x Ft	Ordinary Hazard Group	Min Sprinkler Flow Rate GPM	Nom K-Factor	Temp Rating, °F
VK534+	Pendent, Rec. Pendent	14 x 14	1	30	11.2	155
VK534+	Pendent, Rec. Pendent	14 x 14	2	39	11.2	155
VK537+	Pendent	14 x 14	1	30	11.2	165, 205
VK537+	Pendent	14 x 14	2	39	11.2	165, 205
VK537+	Pendent, Rec. Pendent	14 x 14	1	30	11.2	155
VK537+	Pendent, Rec. Pendent	14 x 14	2	39	11.2	155
VK532+	Upright	14 x 14	1	30	11.2	155
VK532+	Upright	14 x 14	2	39	11.2	155
VK535+	Upright	14 x 14	1	30	11.2	165, 205
VK535+	Upright	14 x 14	2	39	11.2	165, 205
VK570+	Upright	14 x 14	1	39	14.0	155, 175, 200, 286
VK570+	Upright	14 x 14	2	39	14.0	155, 175, 200, 286
VK572+	Pendent, Rec. Pendent	14 x 14	1	39	14.0	155, 175, 200, 286
VK572+	Pendent, Rec. Pendent	14 x 14	2	39	14.0	155, 175, 200, 286
VK538	Concealed Pendent	14 x 14	1	30	11.2	165
VK538	Concealed Pendent	14 x 14	2	39	11.2	165
VK538	Concealed Pendent	16 x 16	1	39	11.2	165
VK538	Concealed Pendent	16 x 16	2	51	11.2	165
VK538	Concealed Pendent	18 x 18	1	49	11.2	165
VK538	Concealed Pendent	18 x 18	2	65	11.2	165
VK538	Concealed Pendent	20 x 20	1	60	11.2	165
VK538	Concealed Pendent	20 x 20	2	80	11.2	165

+ These sprinklers are suitable for installation below noncombustible obstructed construction as described in NFPA-13.

## CORROSION RESISTANT SPRINKLERS

SIN	Type	Nom K-Factor	Coating Type	Temp Rating, °F
VK333	HSW	2.8	Teflon, Polyester	135, 155, 175, 200, 286
VK329	Pendent	2.8	Teflon, Polyester	135, 155, 175, 200, 286
VK007	Pendent	2.8	Wax	160, 220
VK331	Pendent	4.2	Teflon, Polyester	135, 155, 175, 200, 286
VK008	Pendent	4.2	Wax	160, 220
VK132	Pendent	5.6	None	135, 155, 175, 200, 286, 360, 500
VK132	Pendent	5.6	Wax	155, 200
VK102	Pendent	5.6	Nickel Teflon, Teflon, Polyester	135, 155, 175, 200, 286
VK302	Pendent	5.6	Nickel Teflon, Teflon, Polyester	135, 155, 175, 200, 286
VK110	Pendent	5.6	Wax	160, 220
VK102	Pendent	5.6	Wax	135, 155, 175, 200
VK202	Pendent	8.0	Nickel Teflon, Teflon, Polyester	135, 155, 175, 200, 286
VK352	Pendent	8.0	Nickel Teflon, Teflon, Polyester	135, 155, 175, 200, 286
VK206	Pendent	8.0	Wax	160, 220
VK202	Pendent	8.0	Wax	135, 155, 175, 200
VK325	Upright	2.8	Teflon, Polyester	135, 155, 175, 200, 286
VK006	Upright	4.2	Teflon, Polyester	160, 220, 286, 360
VK008	Upright	4.2	Teflon, Polyester	160, 220, 286, 360
VK327	Upright	4.2	Teflon, Polyester	135, 155, 175, 200, 286
VK006	Upright	4.2	Wax	160, 220
VK130	Upright	5.6	None	135, 155, 175, 200, 286, 360, 500
VK130	Upright	5.6	Wax	155, 200
VK108	Upright	5.6	Teflon, Polyester	160, 220, 286, 360
VK110	Upright	5.6	Teflon, Polyester	160, 220, 286, 360
VK100	Upright	5.6	Nickel Teflon, Teflon, Polyester	135, 155, 175, 200, 286
VK300	Upright	5.6	Nickel Teflon, Teflon, Polyester	135, 155, 175, 200, 286
VK108	Upright	5.6	Wax	160, 220
VK100	Upright	5.6	Wax	135, 155, 175, 200
VK204	Upright	8.0	Teflon, Polyester	160, 220, 286, 360
VK206	Upright	8.0	Teflon, Polyester	160, 220, 286, 360



VK350	Upright	8.0	Nickel Teflon, Teflon, Polyester	135, 155, 175, 200, 286
VK204	Upright	8.0	Wax	160, 220
VK200	Upright	8.0	Nickel Teflon, Wax	135, 155, 175, 200
VK368	Pendent	8.0	Stainless Steel	161, 205
VK530	Upright	11.2	Teflon, Polyester, Nickel Teflon	155, 175, 200, 286
VK531	Upright	11.2	Nickel Teflon	155, 175, 200, 286
VK532	Upright	11.2	Nickel Teflon	155, 175, 200, 286
VK534	Pendent	11.2	Nickel Teflon	155, 175, 200, 286
VK536	Pendent	11.2	Nickel Teflon	155, 175, 200, 286
VK530	Upright	11.2	Wax	155, 175, 200
VK338	Upright	5.6	None	155, 175, 200
VK339	Pendent	5.6	None	155, 175, 200
VK150	Dry Pendent	5.6	Polyester, Nickel Teflon	135, 155, 175, 200, 286
VK152	Dry HSW	5.6	Polyester, Nickel Teflon	135, 155, 175, 200, 286
VK154	Dry Pendent	5.6	Polyester, Nickel Teflon	135, 155, 175, 200, 286
VK156	Dry HSW	5.6	Polyester, Nickel Teflon	135, 155, 175, 200, 286
VK158	Dry Rec Pendent	5.6	Polyester, Nickel Teflon	135, 155, 175, 200
VK160	Dry Upright	5.6	Polyester	135, 155, 175, 200, 286
VK162	Dry Rec HSW	5.6	Polyester, Nickel Teflon	135, 155, 175, 200
VK163	Dry Pendent	8.0	Polyester, Nickel Teflon	135, 155, 175, 200, 286
VK163	Dry Rec Pendent	8.0	Polyester, Nickel Teflon	135, 155, 175, 200
VK164	Dry Pendent	8.0	Polyester, Nickel Teflon	135, 155, 175, 200, 286
VK164	Dry Rec Pendent	8.0	Polyester, Nickel Teflon	135, 155, 175, 200
VK166	Dry Pendent	8.0	Polyester	135, 155, 175, 200, 286
VK166	Dry Rec Pendent	8.0	Polyester	135, 155, 175, 200
VK172	Dry Pendent	5.6	Polyester, Nickel Teflon	135, 155, 175, 200, 286
VK173	Dry Pendent	8.0	Polyester, Nickel Teflon	135, 155, 175, 200, 286
VK174	Dry HSW	5.6	Polyester, Nickel Teflon	135, 155, 175, 200, 286
VK176	Dry Pendent	5.6	Polyester, Nickel Teflon	135, 155, 175, 200, 286
VK177	Dry Pendent	8.0	Polyester, Nickel Teflon	135, 155, 175, 200, 286
VK178	Dry HSW	5.6	Polyester, Nickel Teflon	135, 155, 175, 200, 286
VK180	Dry Rec Pendent	5.6	Polyester, Nickel Teflon	135, 155, 175, 200
VK181	Dry Rec Pendent	8.0	Polyester, Nickel Teflon	135, 155, 175, 200

VK182	Dry Rec HSW	5.6	Polyester, Nickel Teflon	135, 155, 175, 200
VK184	Dry Upright	5.6	Polyester	135, 155, 175, 200, 286
VK186	Dry pendent	5.6	Polyester, Nickel Teflon	155, 175
VK186	Dry Rec Pendent	5.6	Polyester	155, 175
VK188	Dry HSW	5.6	Polyester	155, 175
VK188	Dry Rec HSW	5.6	Polyester	155, 175
VK2503+	Dry HSW	8.0	Polyester, Nickel Teflon	135, 155, 175, 200, 286
VK2523+	Dry HSW	8.0	Polyester, Nickel Teflon	135, 155, 175, 200, 286
VK2543+	Dry Rec HSW	8.0	Polyester, Nickel Teflon	135, 155, 175, 200
VK2753+	Dry HSW	8.0	Polyester, Nickel Teflon	135, 155, 175, 200, 286
VK2773+	Dry HSW	8.0	Polyester, Nickel Teflon	135, 155, 175, 200, 286
VK2793+	Dry Rec HSW	8.0	Polyester, Nickel Teflon	135, 155, 175, 200
VK116	Horizontal Sidewall	5.6	Nickel Teflon	135, 155, 175, 200, 286, 360
VK570	Upright	14.0	Nickel Teflon	155, 175, 200, 286
VK572	Pendent	11.2	Nickel Teflon	155, 175, 200, 286
VK608	Pendent	11.2	Nickel Teflon	135, 155, 175
VK630	Horizontal Sidewall	8.0	Nickel Teflon	135, 155, 175
VK196	Dry Concealed Pendent	5.6	Nickel Teflon	135, 155, 175
VK377	Pendent	11.2	Nickel Teflon	155, 175, 200, 286
VK305	Horizontal Sidewall	8	Nickel Teflon	135, 155, 175, 200, 286
VK319	Horizontal Sidewall	8	Nickel Teflon	135, 155, 175, 200, 286

+ Installed 4 to 12 in. below ceiling.

## HIGH TEMPERATURE, WAX COATED SPRINKLERS

SIN	Response Type	Type	Nom K-Factor	Max Ambient Temp, °F	Sprinkler Temp Rating, °F
VK102	Pendent	5.6	150	150	286
VK202	Pendent	8.0	150	150	286
VK100	Upright	5.6	150	150	286
VK200	Upright	8.0	150	150	286
VK530	Upright	11.2	150	150	286

## INTERMEDIATE LEVEL SPRINKLERS

<b>SIN</b>	<b>Response Type</b>	<b>Type</b>	<b>Nom K-Factor</b>	<b>Temp Rating, °F</b>
VK302+	QR	Pendent	5.6	135, 155, 175, 200, 286
VK317+	QR	Pendent	5.6	135, 155, 175, 200, 286
VK352+, *	QR	Pendent	8.0	135, 155, 175, 200, 286
VK551	QR	Upright	5.6	165, 205, 280
VK556+	QR	Upright	5.6	135, 155, 175, 200, 286
VK558+	QR	Upright	5.6	135, 155, 175, 200, 286
VK566+, *	QR	Upright	8.0	135, 155, 175, 200, 286
VK567	QR	Upright	8.0	165, 205, 280
VK102+	SR	Pendent	5.6	135, 155, 175, 200, 286
VK110+	SR	Pendent	5.6	165, 220, 286
VK202+, *	SR	Pendent	8.0	135, 155, 175, 200, 286
VK206+, *	SR	Pendent	8.0	165, 220, 286
VK550+	SR	Upright	5.6	135, 155, 175, 200, 286
VK552+	SR	Upright	5.6	165, 220, 286
VK560+, *	SR	Upright	8.0	135, 155, 175, 200, 286
VK562+, *	SR	Upright	8.0	165, 220, 286
VK301#	QR	Upright	5.6	165, 205, 280
VK303#	QR	Pendent	5.6	165, 205, 280
VK3021\$	QR	Pendent	5.6	135, 155, 175, 200, 286
VK1021\$	SR	Pendent	5.6	135, 155, 175, 200, 286, 360
VK3522\$	QR	Pendent	8.0	135, 155, 175, 200, 286
VK2022\$	SR	Pendent	8.0	135, 155, 175, 200, 286, 360
VK3521\$	QR	Pendent	8.0	135, 155, 175, 200, 286
VK2021\$	SR	Pendent	8.0	135, 155, 175, 200, 286, 360
VK3001\$	QR	Upright	5.6	135, 155, 175, 200, 286
VK1001\$	SR	Upright	5.6	135, 155, 175, 200, 286, 360
VK3502\$	QR	Upright	8.0	135, 155, 175, 200, 286
VK2002\$	SR	Upright	8.0	135, 155, 175, 200, 286, 360
VK3501\$	QR	Upright	8.0	135, 155, 175, 200, 286
VK2001\$	SR	Upright	8.0	135, 155, 175, 200, 286, 360

+ May use Model B-1 guard (upright) or Model C-1 guard (pendent).

\* Available with 1/2 or 3/4 in. N.P.T.

# May use Model D-1 guard

\$ May use Model XT1 guard

### SPRINKLERS FOR STORAGE PROTECTION ( CONTROL MODE DENSITY AREA)

SIN	Response Type	Type	Nom K-Factor	Temp Rating, °F
VK531	QR	Upright	11.2	155, 175, 200, 286
VK533	QR	Upright	11.2	165, 205, 280
VK530	SR	Upright	11.2	155, 175, 200, 286
VK580	SR	Upright	16.8	155, 175, 200, 286
VK377	QR	Pendent	11.2	155, 175, 200, 286
VK536	SR	Pendent	11.2	155, 175, 200, 286

### SPRINKLERS FOR STORAGE PROTECTION (CONTROL MODE SPECIFIC APPLICATION)

SIN	ResponseType	Type	Nom K-Factor	Temp Rating, °F
VK540	SR	Upright	11.2	155, 175, 200, 286
VK592	SR	Pendent	19.6	160, 205

### EXTENDED COVERAGE SPRINKLERS FOR STORAGE PROTECTION (AREA/DENSITY)

SIN	Max Width x Length, ft x ft	Type	Nom K-Factor	Temp Rating, °F
VK595	14 x 14	Upright	25.2	165, 214

### SPECIFIC APPLICATION SPRINKLERS

#### Concealed Space Sprinklers

Height of Space, In.

SIN	Response Type	Type	Min	Max	Max Coverage Area, Ft <sup>2</sup>	Nom K-Factor	Temp Rating, °F
VK900+ **	QR	Upright	12	36	144	4.2	175
VK900++ **	QR	Upright	6*	54	144	4.2	175
VK901+ **	QR	Upright	12	36	144	4.2	205
VK901++ **	QR	Upright	6*	54	144	4.2	205
VK696%	QR	Upright	6	480	120	4.2	200
VK697%	QR	Upright	6	480	120	5.6	200
VK950+**	QR	Upright	12	60	256	5.6	175, 200

VK950+ +**a	QR	Upright	6*	84	256	5.6	175, 200
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\* Minimum distance between upper and lower joists.

\*\* May be used for dry pipe systems using steel pipe only.

+ For use in light hazard flat concealed spaces incorporating noncombustible or wood truss construction. The Manufacturers Installation and Design Parameter Instructions should be consulted for specific installation parameters, obstruction criteria and hydraulic design requirements.

++ For use in combustibile solid wood and composite wood joist construction when designed with baffles at 1000 Ft<sup>2</sup>. The Manufacturers Installation and Design Parameter Instructions should be consulted for specific installation parameters, obstruction criteria and hydraulic design requirements.

% For use in attic areas outside the scope of application for the V-BB and V-SD sprinklers.

a- For use in combustibile solid wood joists. The Manufacturers Installation and Design Parameter Instructions should be consulted for specific installation parameters, obstruction criteria and hydraulic design requirements.

## SPECIFIC APPLICATION SPRINKLERS

### Attic Sprinklers

SIN	Response Type	Fire Risk	Roof Pitch, in./in.	Max Width, ft	Max Length, ft	Min Flow Rate, gpm	Nom K-Factor	Temp Rating, °F
VK690	QR	\$	2 1/2 to 6/12	8	24	20	5.6	200
VK660	QR	++	4/12 to 12/12	6	20	24	5.6	200
VK660	QR	++	4/12 to 12/12	6	28	34	5.6	200
VK693	QR	++	4/12 to 7/12	6	30	24	5.6	200
VK693	QR	++	4/12 to 7/12	6	40	36	5.6	200
VK694	QR	++	7/12 to 10/12	6	30	24	5.6	200
VK694	QR	++	7/12 to 10/12	6	40	35	5.6	200
VK695	QR	++	10/12 to 12/12	6	30	24	5.6	200
VK695	QR	++	10/12 to 12/12	6	40	35	5.6	200
VK681	QR	++	4/12 to 7/12	6	60	38	8.0	200
VK682	QR	++	7/12 to 10/12	6	60	38	8.0	200
VK683	QR	++	10/12 to 12/12	6	60	38	8.0	200
VK684	QR	++	4/12 to 7/12	6	40	24	5.6	200
VK685	QR	++	7/12 to 10/12	6	40	24	5.6	200
VK686	QR	++	10/12 to 12/12	6	40	24	5.6	200

++ For protection of light hazard attic spaces of wood truss or open wood joist construction with saddle-type roofs in buildings 20 to 60 ft. in width and not exceeding a protection area of 400 sq. ft. per sprinkler when installed in accordance with the Manufacturer's Installation and Design Parameter Instructions.

\$ - For protection of light hazard attic spaces of wood truss or open wood joist construction with saddle-type roofs in buildings 24 to 72 ft. in width and not exceeding a protection area of 400 sq. ft. per sprinkler when installed in accordance with the Manufacturer's Installation and Design Parameter Instructions.

### Window Sprinklers

<b>SIN</b>	<b>Response Type</b>	<b>Fire Risk</b>	<b>Type</b>	<b>Nom K-Factor</b>	<b>Distance Between Sprinklers, Ft</b>	<b>Min Flow Rate, gpm</b>	<b>Temp Rating, °F</b>
VK960	QR	*	VSW	5.6	6 to 12	15	155, 200
VK960	QR	*	VSW	5.6	+	15	155, 200
VK962	QR	*	HSW	5.6	6 to 8	20	155, 200
VK962	QR	*	HSW	5.6	++	20	155, 200

\*For use on heat-strengthened or tempered glass windows without horizontal mullions having a maximum height of 13 ft. Combustibles must be maintained at a minimum distance of 2 in. from the glass. This may be accomplished by use of a 3 ft. pony wall or any other method acceptable to the authority having jurisdiction when installed in accordance with the manufacturer's installation and design parameter instructions.

+ Located between Mullions and not greater than 12 ft apart.

++ Located between Mullions and not greater than 8 ft apart.

Authorities having jurisdiction shall be consulted to determine the hydraulic requirements for each installation.

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