

Victaulic Sprinkler Head Products



Industry Lingo - Styles



Pendent



Sideway



Upright



Recessed



Concealed

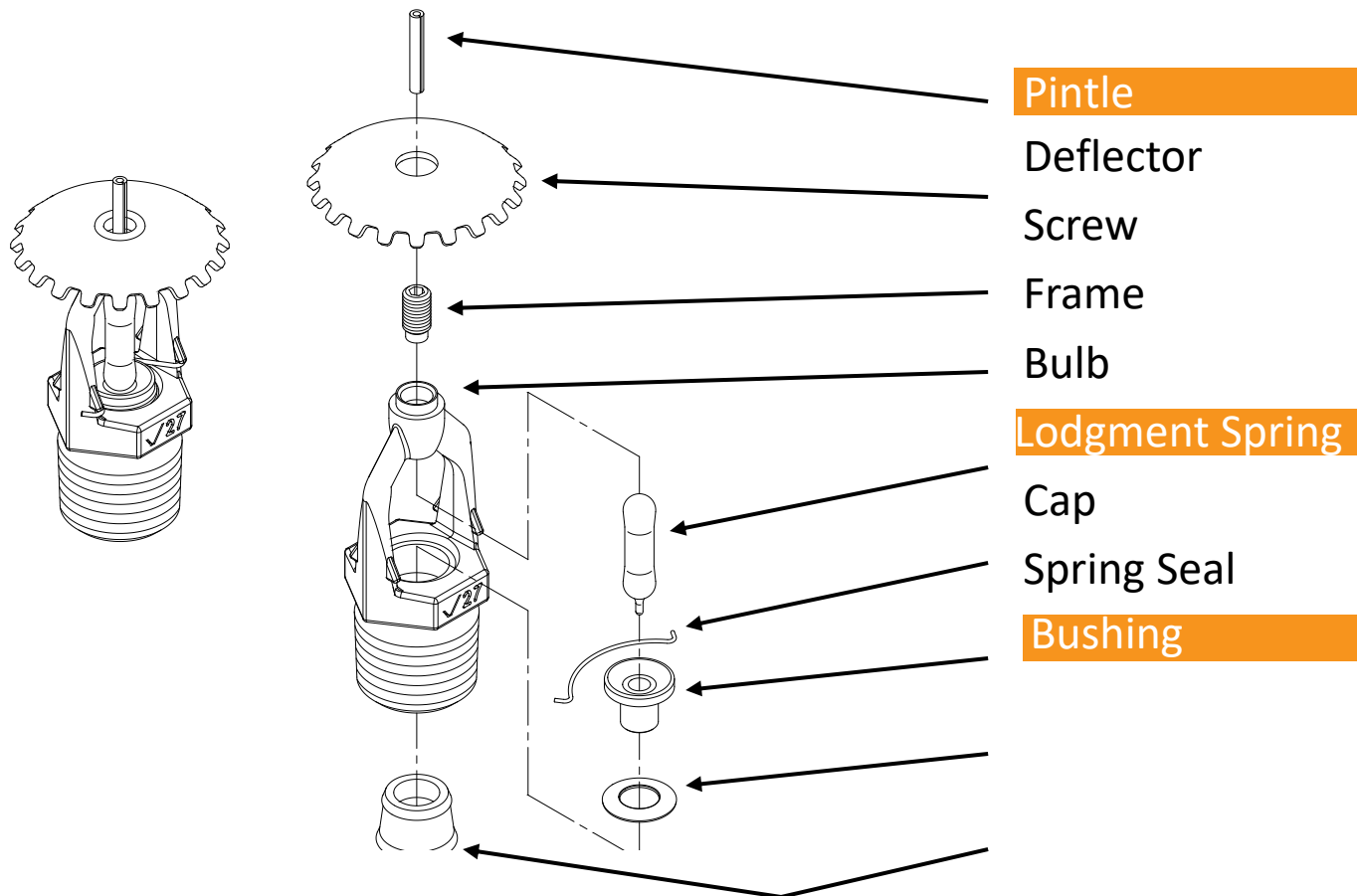


Flush





Anatomy (V27, Standard Upright, K2.8)





How They Work

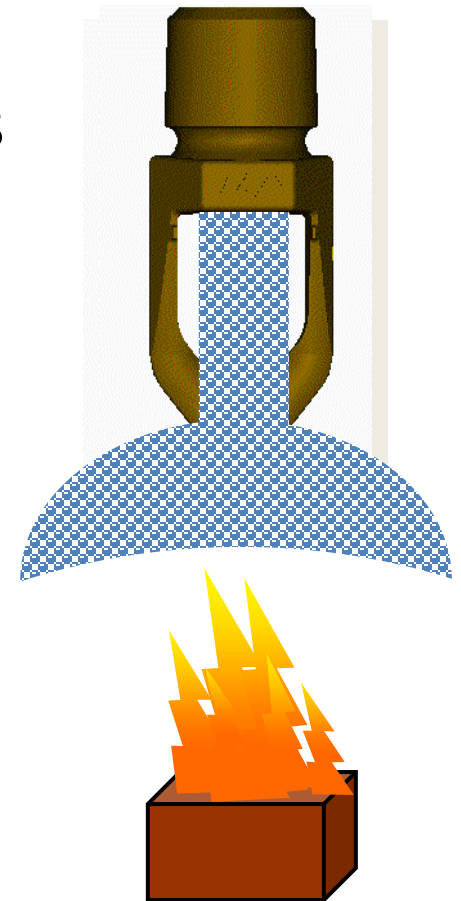
- Fire heats air at ceiling.

Bulb bursts when temperature reaches
Rating.

Spring pushes cap out.

Water Sprays on Fire.

*Each sprinkler operates
independently.*





How They Work

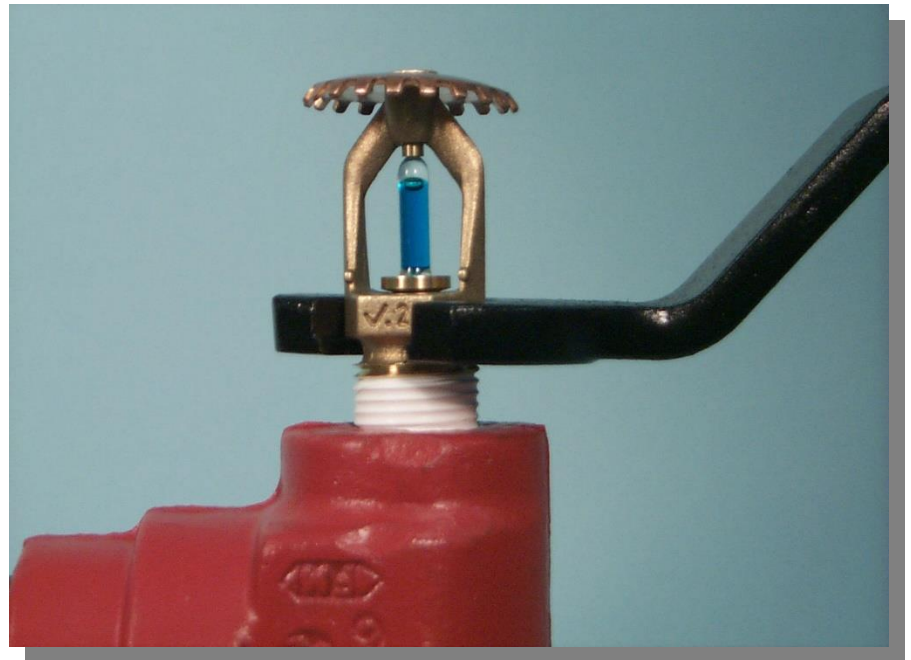
<https://www.youtube.com/watch?v=o-ylvugYc0w>





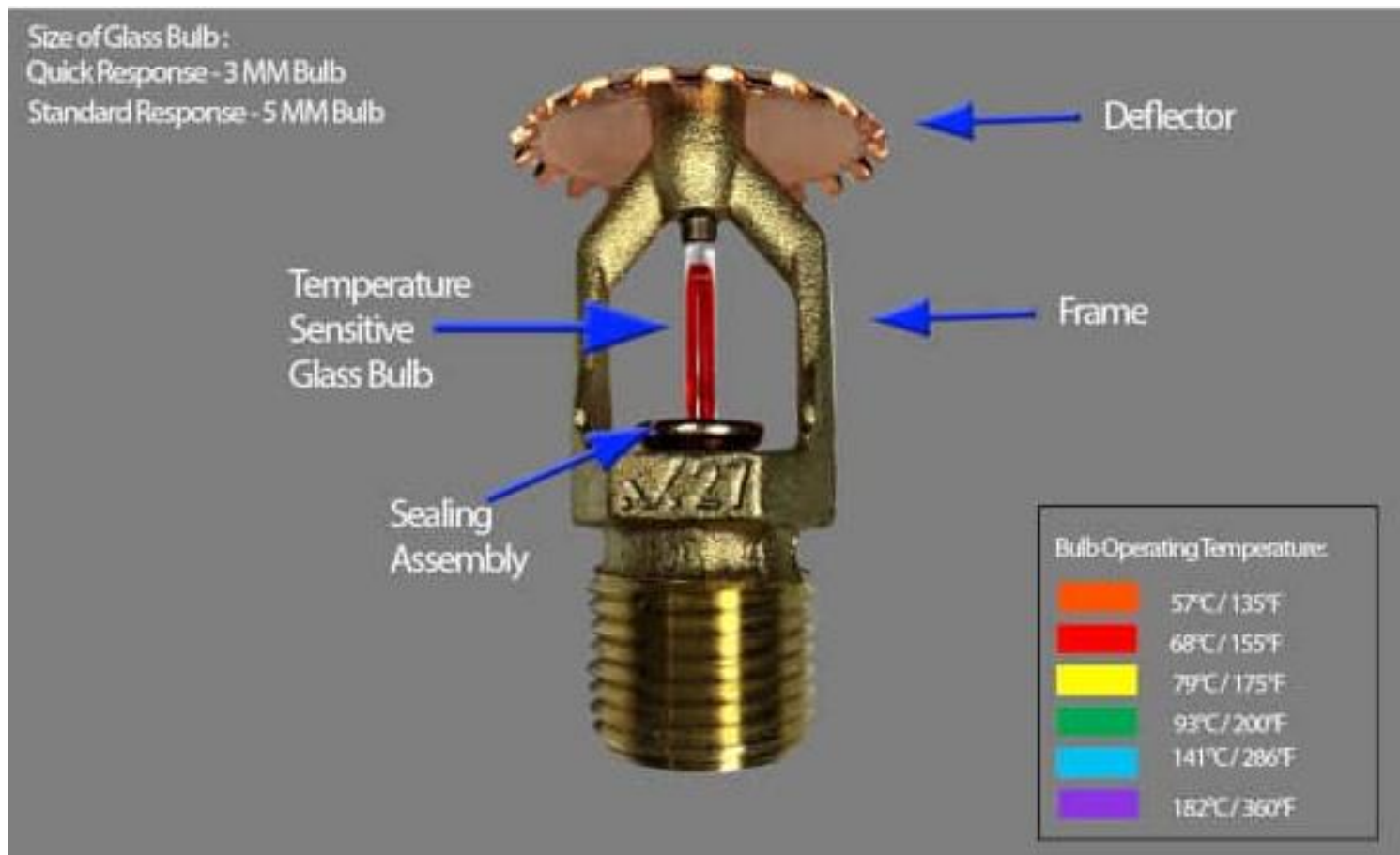
How They Are Used

- Ordinary Hazard
 - *Standard Upright, Pendent & Sidewall*
- Warehouse
 - *ESFR & ELO*
- Light Hazard
 - *Extended Coverage*
- Architectural
 - *Concealed Sprinklers*
- Dwelling
 - *Residential*





Temperature /Bulb Colour/ Bulb Size





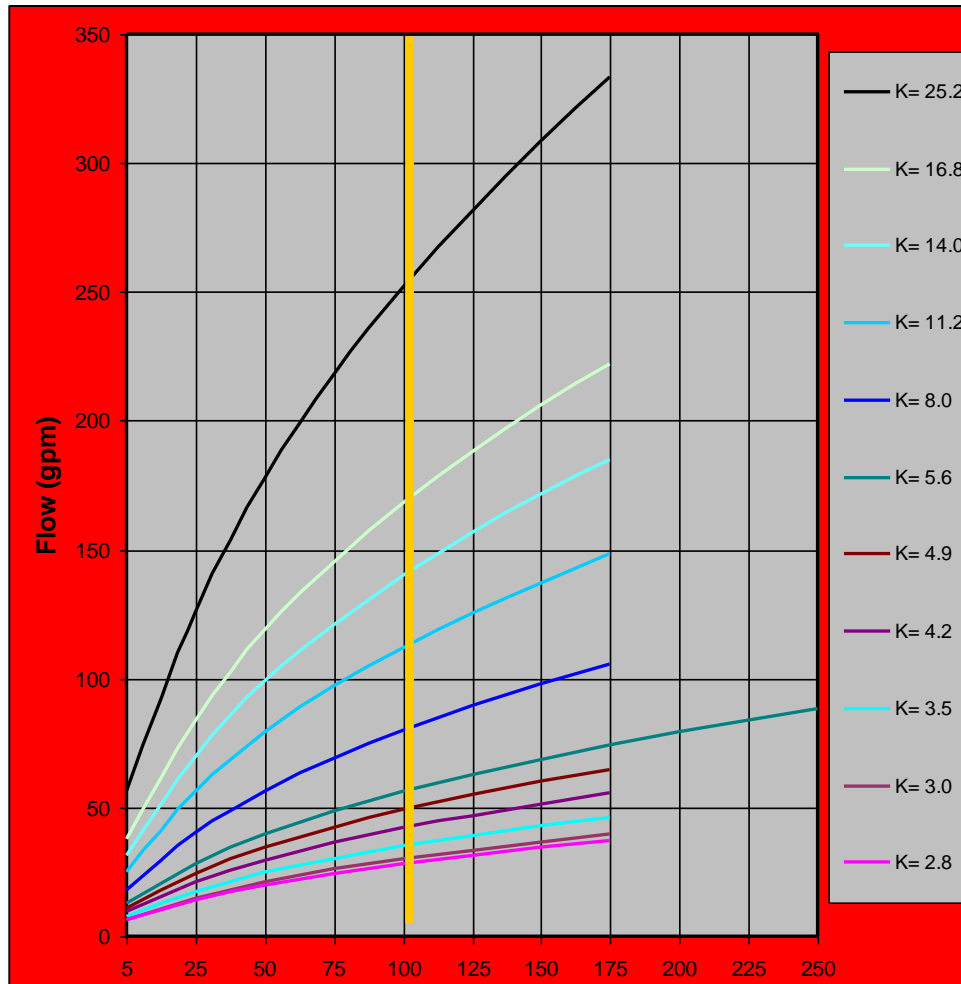
Victaulic Temperature Ratings

Maximum Ambient Temp. °C	Nominal Temp. Rating °C	Temperature Classification	Glass Bulb Color Code
38	57 (A)	Ordinary	Orange
38	68 (C)	Ordinary	Red
65	79 (E)	Intermediate	Yellow
65	93 (F)	Intermediate	Green
107	141 (J)	High	Blue
149	182 (K)	Extra High*	Mauve
-	Open (M)	- *	No Bulb

♦ * Standard Response only



K-Factor ($Q=K\sqrt{P}$)



Higher hazards need larger K.

At 100 psi supply:

* K5.6 = 56 gpm

* K14 = 140 gpm

Standard K Factors

* 5.6, 8.0

For more details refer to Submittal 40.03





K-factor & Orifice Size

- ◆ K2.8 (Orifice size = $3/8$ " , small orifice) – $1/2$ " NPT
- ◆ K5.6 (Orifice size = $1/2$ " , std orifice) – $1/2$ " NPT
- ◆ K8 (Orifice size = $3/4$ " , large orifice) – $3/4$ " NPT
- ◆ K11.2 (orifice size = $5/8$ " , extra large orifice) – $3/4$ " NPT
- ◆ K14 (orifice size = $3/4$ " . ESFR) – $3/4$ " NPT



K-factor Conversion

(Always confirm if customer is referring to Imperial or Metric)

IMPERIAL	METRIC
2.8	4
3	4.3
3.8	5.5
4	5.8
4.2	6
4.9	7.1
5.2	7.5
5.6	8.1
5.8	8.4
7.4	10.7
8	11.5
11.2	16.1
14	20.2
16.8	24.2
19.6	28.3
22.4	32
25.2	36.3
28	40.4



Frame/ Model Number

- ◆ Standard Commercial:
 - V27 (std. orifice), V34 (large orifice), V34 (extra large orifice)
- ◆ AS 1451 – ESFR
- ◆ V38 – Concealed
- ◆ V36 – Dry
- ◆ V10 – Window
- ◆ V26 – Open Foam Nozzle
- ◆ V29 - Residential



Sprinkler Markings

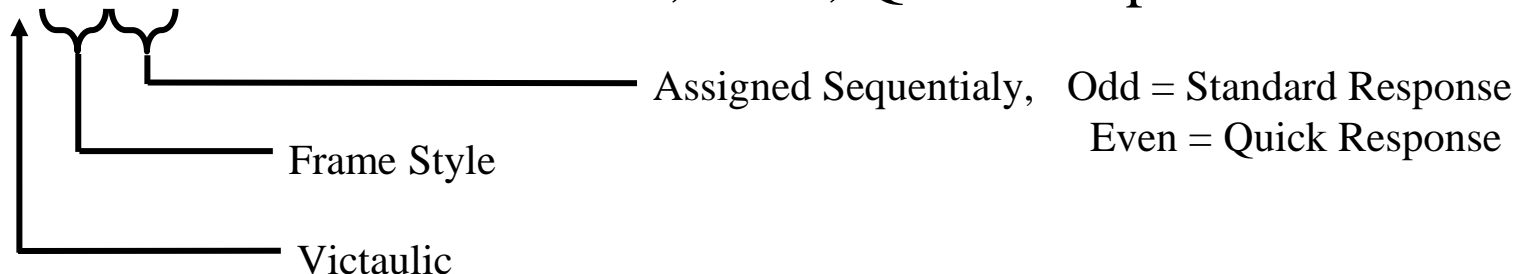
Example Model (SIN) Number

V2703 Standard Upright, K5.6, Standard Response.

V2704 Standard Upright, K5.6, Quick Response.

V2707 Standard Pendent, K5.6, Standard Response.

V2708 Standard Pendent, K5.6, Quick Response.





Part Numbers

S 2 7 - 1 B C - S 1 1 0 Assembly V27, 1/2 in. NPT, Standard Pendant, 155F, Standard Response, k=2.8, Plain Finish

Miscellaneous		A = 250 psi*
Finish		
K-Factor	1 = 2.8	1 = Plain
Response	2 = 3.0	2 = Chrome
Q = Quick	3 = 3.5	3 = Bright Brass
R = Fast*	4 = 5.6	4 = White
S = Standard	5 = 8.0	5 = Wax
* ESFR only	6 = 11.2	6 = Lead
	7 = 14.0	7 = Wax/Lead
	8 = 17.0	9 =
	9 = 25.0	B = Flat Black
	A = 4.2	9 = Custom**
	B = 4.1	0 = N/A
	C = 4.0	
	D = 3.9	
	E = 3.8	
	F = 2.0	
	G = 1.4	
	0 = N/A	
Temperature		
A = 135°F/57°C		
C = 155°F/68°C		
D = 165°F/74°C*		
E = 175°F/79°C		
F = 200°F/93°C		
J = 286°F/141°C		
K = 360°F/182°C		
L = Custom		
M = Open		
* Concealed cover only		
Deflector Coverage & Style		
1 = Window Sprinkler,		
2 = Foam Nozzle,		
3 = Spray Nozzle,		
A = STD UPR,		
B = STD PEND,		
C = STD HSW,		
D = STD VSW,		
E = ECOH UPR,		
F = ECOH PEND,		
G = ECLH PEND,		
H = ECLH HSW,		
J = ECLH Concealed,		
K = RES PEND,		
L = RES HSW,		
M = Res. Pend. Flush,		
N = Res. Concealed,		
P = STD Concealed,		
Q = Inter Lvl STD UPR,		
R = Inter Lvl STD PEND,		
S = ESFR Pendant,		
T = ESFR Upright,		
U = Std Pend Flush,		
V = ECLH Pend Flush,		
W = Conventional,		
X = ECOH HSW,		
Y = ECOH Pend Flush,		
Z = ECOH Concealed,		
Thread		
1 = 1/2 in. NPT		
2 = 3/4 in. NPT		
Style or Component		
10 = V10 Window Sprinklers		
26 = V26 Sprinklers		
27 = V27 Sprinklers		
28 = V28 Flush Type Sprinklers		
29 = V29 Flush Type Sprinklers		
34 = V34 Sprinklers		
35 = V35 Dry Type Sprinklers		
36 = V36 Dry Type Sprinklers		
38 = V38 Concealed Sprinklers		
39 = V39 Concealed Sprinklers		
40 = V40 Sprinklers		
44 = V44 Sprinklers		
45 = V45 Sprinklers		
K1 = K1 ESFR Pendant Sprinklers		
** = Use double digit numerals for Assy's, Sub-Assy's & Frames		
Product Class		
S = Fire Safety End Items		

* Not Available on all Models See Data Sheet



Accessories

- Recessed Escutcheons
 - V27, 1/2 NPT, 1/2 or 3/4 in. adjustment.
 - V34, 3/4 NPT, 1/2 or 3/4 in. adjustment.
 - Finishes of : Chrome, White or Custom.
- Flat Escutcheons
 - 1/2 or 3/4 NPT, push on type.
 - Finishes of : Chrome or White.
- Cabinets, for spare sprinklers, (4 sizes), Red only
 - 12, 6, 3 piece sizes, plus a 6 piece size for large frame sprinklers.





Intermediate sprinklers and guards

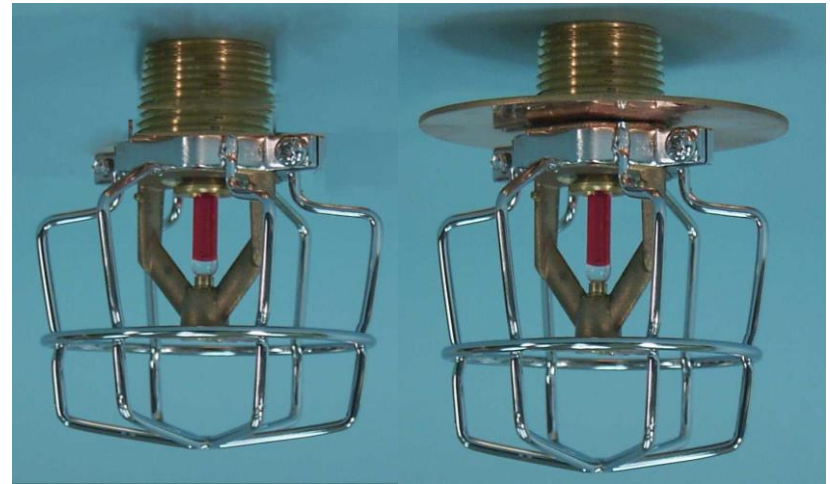


Upright with
guard



Upright with guard &
Shield

Intermediate level



Pendent with
guard


Pendent with guard &
shield

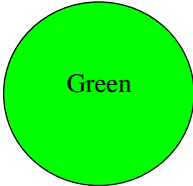
Intermediate level



Typical Victaulic - Packaging and Handling

01P


An ISO 9001 certified company




Green

S271AFS410

**V2703, STANDARD UPRIGHT
STANDARD RESPONSE
200°F/93°C
K=5.6, 1/2 NPT
PLAIN**

40.10

|||||**BAR CODE**|||||

  
LISTED
Automatic Sprinklers
50AL, 99ML
Approved

QTY 100