



### JL-14 ESFR

- SIN RA1812
- K-Factor = 200 (14)
- See Bulletin 018



### JL-17 ESFR

- SIN RA1914
- K-Factor = 241.9 (16.8)
- Pendent Only
- See Bulletin 019



### JL-17 ESFR

- SIN RA 1914
- k-Factor = 241.9 (16.8)
- See Bulletin 019
- With Victaulic IGS™ V9 Coupling

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL JL-14 ESFR K14.0 (200) THREADS 3/4" (20MM) RA1812</b>					
DB16114298	JL141B	165°F	74°C	Bronze	S\$ 148.40
DB21114298	JL142B	212°F	100°C	Bronze	S\$ 148.40
<b>MODEL JL-14 ESFR K14.0 (200) BSPT THREADS 3/4" (20MM) RA1812</b>					
DB16114295	JL141BM	165°F	74°C	Bronze	S\$ 148.40
DB21114295	JL142BM	212°F	100°C	Bronze	S\$ 148.40
6880090000	WJ1	Requires Model J1 Sprinkler Wrench			S\$ 176.02
<b>MODEL S-3 ESFR SPRINKLER SHIELD 3.75, 3/4-14NPS</b>					
88709003	S3SHIELD	°F	°C	GALV	S\$ 17.45

\* The JL-14 ESFR has replaced our HL-14 ESFR  
 Victaulic® and IGS™ are trademarks of Victaulic Company  
 A complimentary installation bit is included in ea box of 25 sprinklers.

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL JL-17 ESFR K16.8 (240) THREADS 3/4" (20MM) RA1914</b>					
DB16114998	JL171B	165°F	74°C	Bronze	S\$ 77.73
DB21114998	JL172B	212°F	100°C	Bronze	S\$ 77.73
<b>MODEL JL-17 ESFR K16.8 (240) BSPT THREADS 3/4" (20MM) RA1914</b>					
DB16114995	JL171BM	165°F	74°C	Bronze	S\$ 77.73
DB21114995	JL172BM	212°F	100°C	Bronze	S\$ 77.73
6880090000	WJ1	Requires Model J1 Sprinkler Wrench			S\$ 176.02
<b>MODEL S-3 ESFR SPRINKLER SHIELD 3.75, 3/4-14NPS</b>					
88709003	S3SHIELD	°F	°C	GALV	S\$ 17.45
<b>MODEL JL-17 ESFR K16.8 (240) IGS GROOVED 1" (25 MM) RA1914</b>					
DB1611499G	JL171BG	165°F	74°C	Bronze	S\$ 152.11
DB1611499G	JL171BG	165°F	74°C	Bronze	S\$ 152.11
DB2111499G	JL172BG	212°F	100°C	Bronze	S\$ 152.11



### HL-22 ESFR

- K Factor 22.4
- **SIN# RA1011**
- See Bulletin 010

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL HL-22 ESFR PENDENT K22.4 (320) THREADS 1" (25MM) RA1011</b>					
DB16115391	HL221	165°F	74°C	Bronze	S\$205.60
DB21115391	HL222	212°F	100°C	Bronze	S\$205.60
<b>MODEL HL-22 ESFR PENDENT K22.4 (320) BSPT THREADS 1" INTERNATIONAL ONLY</b>					
DB16115393	HL221M	165°F	74°C	Bronze	S\$205.60
DB21115393	HL222M	212°F	100°C	Bronze	S\$205.60

6880050105 WW5 WRENCH,W5,FOR HL-22,N25,N252,TNL280 S\$ 176.02

<b>MODEL S-5 ESFR SPRINKLER SHIELD AND 22 GUARD</b>					
887G9010	S5SHIELD	MODEL S-5 SHIELD,4.5,1-11 1/2NPS, GALV		Galvanized	S\$ 17.45
6802641422	G22	22,GUARD,SP,1,FM,ZINC		Zinc	S\$ 45.63

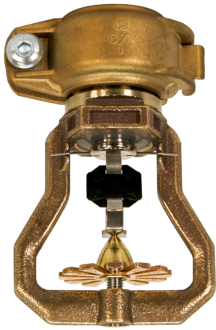


### N25 ESFR

- K Factor 25.2
- **SIN# RA0912**
- See Bulletin 909

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL N25 ESFR PENDENT K25.2 (362) THREADS 1" (25MM) RA0912</b>					
DB16116391	N251B	165°F	74°C	Bronze	S\$195.81
DB21116391	N252B	212°F	100°C	Bronze	S\$195.81
<b>MODEL N25 ESFR PENDENT K25.2 (362) BSPT THREADS 1" INTERNATIONAL ONLY RA0912</b>					
DB16116393	N251BM	165°F	74°C	Bronze	S\$195.81
DB21116393	N252BM	212°F	100°C	Bronze	S\$195.81
<b>MODEL S-5 ESFR SPRINKLER SHIELD AND 25 GUARD</b>					
887G9010	S5SHIELD	MODEL S-5 SHIELD,4.5,1-11 1/2NPS, GALV		Galvanized	S\$ 17.45
6802641425	G25	25,GUARD,SP,1,FM,ZINC		Zinc	S\$ 45.63

6880050105 WW5 WRENCH,W5,FOR HL-22,N25,N252,TNL280 S\$ 176.02



### HL-22 ESFR

- K Factor 22.4
- **SIN# RA1011**
- See Bulletin 010
- **With Victaulic® IGS™ Style V9 Coupling**



### N25 ESFR

- K Factor 25.2
- **SIN# RA0912**
- See Bulletin 909
- **With Victaulic® IGS™ Style V9 Coupling**

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL HL-22 ESFR PENDENT K22.4 (320) GROOVED 1" (25MM)</b>					
DB1611539G	HL221G	165°F	74°C	Bronze	S\$ 281.41
DB2111539G	HL222G	212°F	100°C	Bronze	S\$ 281.41
<b>MODEL N-25 ESFR PENDENT K25 (360) GROOVED 1" (25MM)</b>					
DB1611639G	N251BG	165°F	74°C	Bronze	S\$ 266.20
DB2111639G	N252BG	212°F	100°C	Bronze	S\$ 266.20
<b>ADDITIONAL INSTALLATION BITS</b>					
6880160021	BIT	BIT,DRIVER,HEX 3/16			S\$ 48.92
<b>VICTAULIC® IGS™ NO. 142 WELDED OUTLET</b>					
7M99004732	VIGS112515	VIC,#142,1"X1.25"-1.5",IGS OUTLET			S\$ 15.85
7M99004733	VIGS1152	VIC,#142,1"X1.5"-2",IGS OUTLET			S\$ 15.85
7M99004734	VIGS1225	VIC,#142,1"X2"-2.5",IGS OUTLET			S\$ 15.85
7M99004735	VIGS1253	VIC,#142,1"X2.5"-3",IGS OUTLET			S\$ 15.85
7M99004736	VIGS134	VIC,#142,1"X3"-4",IGS OUTLET			S\$ 15.85

**Notes:**

Victaulic® and IGS™ are trademarks of Victaulic Company.  
 One complimentary installation bit is included in each box of 25 sprinklers.



### GXLO UPRIGHT

- K-Factor = 11.2 (160)
- **SIN R2921 = Upright**
- See Bulletin 129



### GXLO PENDENT

- K-Factor = 11.2 (160)
- **SIN R2916=Pendent**
- See Bulletin 129



### GXLO INTERMEDIATE

- K-Factor = 11.2 (160)
- **SIN R2921 = Upright**
- See Bulletin 129

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL GXLO UPRIGHT K11.2 (160) THREADS 3/4" (20MM) R2921</b>					
1716114098	GUX1LB	165°F	74°C	Bronze	S\$ 81.35
1716214098	GUX1LC	165°F	74°C	Chrome	S\$118.02
1721114098	GUX2LB	212°F	100°C	Bronze	S\$ 81.35
1721214098	GUX2LC	212°F	100°C	Chrome	S\$118.02
1728114098	GUX3LB	286°F	141°C	Bronze	S\$ 81.35
1728214098	GUX3LC	286°F	141°C	Chrome	S\$118.02
<b>MODEL GXLO UPRIGHT K11.2 (160) BSPT THREADS 3/4" (20MM) R2921</b>					
1716114095	GUX1LBM	165°F	74°C	Bronze	S\$ 81.35
1721114095	GUX2LBM	212°F	100°C	Bronze	S\$ 81.35
1728114095	GUX3LBM	286°F	141°C	Bronze	S\$ 81.35
<b>MODEL GXLO UPRIGHT K11.2 (160) THREADS 1/2" (15MM) R2921 RETROFIT</b>					
5116113799	GUX1B	165°F	74°C	Bronze	S\$125.75
5116213799	GUX1C	165°F	74°C	Chrome	S\$131.11
5121113799	GUX2B	212°F	100°C	Bronze	S\$125.75
5121213799	GUX2C	212°F	100°C	Chrome	S\$131.11
5128113799	GUX3B	286°F	141°C	Bronze	S\$125.75
5128213799	GUX3C	286°F	141°C	Chrome	S\$131.11
<b>MODEL GXLO PENDENT K11.2 (160) THREADS 3/4" (20MM) R2916</b>					
5216114198	GPX1LB	165°F	74°C	Bronze	S\$ 81.35
5221114198	GPX2LB	212°F	100°C	Bronze	S\$ 81.35
5228114198	GPX3LB	286°F	141°C	Bronze	S\$ 81.35
<b>MODEL GXLO PENDENT K11.2 (160) BSPT THREADS 3/4" (20MM) R2916</b>					
5216114195	GPX1LBM	165°F	74°C	Bronze	S\$ 81.35
5221114195	GPX2LBM	212°F	100°C	Bronze	S\$ 81.35
5228114195	GPX3LBM	286°F	141°C	Bronze	S\$ 81.35
<b>MODEL GXLO INTERMEDIATE UPRIGHT K11.2 (160) THREADS 3/4" (20MM) R2921</b>					
1716114298	GUXI1LB	165°F	74°C	Bronze	S\$145.12
1721114298	GUXI2LB	212°F	100°C	Bronze	S\$145.12
1728114298	GUXI3LB	286°F	141°C	Bronze	S\$145.12
<b>MODEL GXLO INTERMEDIATE UPRIGHT K11.2 (160) BSPT THREADS 3/4" (20MM) R2921</b>					
1716114295	GUXI1LBM	165°F	74°C	Bronze	S\$145.12
1721114295	GUXI2LBM	212°F	100°C	Bronze	S\$145.12
1728114295	GUXI3LBM	286°F	141°C	Bronze	S\$145.12
6880070000	WH	Requires Model H Sprinkler Wrench			S\$ 176.02
<b>MODEL S2 SHIELD</b>					
88709002	S2SHIELD	MODEL S-2 SHIELD,3.25,3/4-14NPS, GALV		GALV	S\$ 17.45

**Notes:**

1. Intermediate upright sprinklers have a factory installed water shield.
2. For intermediate pendent sprinklers, install S-2 water shield onto pendent sprinkler.
3. Other guards and shields are available, see technical bulletin 132. When installing sprinklers with guard made on, Model JV wrench is required.



### J168

- K-Factor = 242 (16.8)
- **SIN RA1124**
- See Bulletin 011

Part Number	Short Code		Temperature		Finish	List Price
<b>MODEL J168 UPRIGHT K16.8 (240) THREADS 3/4" (20MM) RA1124</b>						
L3A2114998	J1681	Area Density	165°F	74°C	Bronze	S\$ 84.91
L3A4114998	J1682	Area Density	212°F	100°C	Bronze	S\$ 84.91
L3A5114998	J1683	Area Density	286°F	141°C	Bronze	S\$ 84.91

6880090000 WJ1 Area Density Requires Model J1 Sprinkler Wrench S\$176.02



### N252 EC

- K-Factor = 363 (25.2)
- **SIN RA0842**
- See Bulletins 008 & 908

Part Number	Short Code		Temperature		Finish	List Price
<b>MODEL N252 EC PENDENT K25.2 (360) THREADS 1" (25MM) RA0842</b>						
DB16116491	EC251B	165°F	74°C	Bronze	S\$ 196.02	
DB16216491	EC251C	165°F	74°C	Chrome	S\$ 201.78	
DB16876491	EC251W	165°F	74°C	White	S\$ 201.78	
DB21116491	EC252B	212°F	100°C	Bronze	S\$ 196.02	
DB21216491	EC252C	212°F	100°C	Chrome	S\$ 201.78	
DB21876491	EC252W	212°F	100°C	White	S\$ 201.78	
<b>MODEL N252 EC PENDENT K25.2 (360) BSPT THREADS 1" (25MM) RA0842</b>						
DB16116493	EC251BM	165°F	74°C	Bronze	S\$ 196.02	
DB16216493	EC251CM	165°F	74°C	Chrome	S\$ 201.78	
DB16876493	EC251WM	165°F	74°C	White	S\$ 201.78	
DB21116493	EC252BM	212°F	100°C	Bronze	S\$ 196.02	
DB21216493	N2522CM	212°F	100°C	Chrome	S\$ 201.78	
DB21876493	EC252WM	212°F	100°C	White	S\$ 201.78	
<b>REQUIRED ESCUTCHEONS</b>						
6801422100	FPCK	25mm (1")		Chrome	S\$ 27.97	
6801427200	FPWK	25mm (1")		White	S\$ 27.97	

6880170030 WN For Pendant & Recessed Use Model N Wrench S\$ 437.51  
 6880070001 WN1 for Non-Recessed Use Model N1Wrench S\$ 176.02



### G XLO

- K-Factor = 160 (11.2)
- **SIN R2921 = Upright**
- **SIN R2916 = Pendent**
- See Bulletin 129



### GL 112

- K-Factor = 160 (11.2)
- **SIN R3226 = Upright**
- **SIN R3216 = Pendent**
- See Bulletin 132



### G VELO PEND

- K-Factor = 200 (14.0)
- **SIN R4613**
- See Bulletin 146

Part Number	Short Code	Temperature	Finish	List Price
<b>MODEL GXLO UPRIGHT K11.2 (160) THREADS 3/4" (20MM) R2921</b>				
1716114098	GUX1LB	165°F 74°C	Bronze	S\$ 81.35
1716214098	GUX1LC	165°F 74°C	Chrome	S\$ 118.02
1721114098	GUX2LB	212°F 100°C	Bronze	S\$ 81.35
1721214098	GUX2LC	212°F 100°C	Chrome	S\$ 118.02
1728114098	GUX3LB	286°F 141°C	Bronze	S\$ 81.35
1728214098	GUX3LC	286°F 141°C	Chrome	S\$ 118.02
<b>MODEL GXLO UPRIGHT K11.2 (160) THREADS 1/2" (15MM) R2921</b>				
5116113799	GUX1B	165°F 74°C	Bronze	S\$ 125.75
5116213799	GUX1C	165°F 74°C	Chrome	S\$ 131.11
5121113799	GUX2B	212°F 100°C	Bronze	S\$ 125.75
5121213799	GUX2C	212°F 100°C	Chrome	S\$ 131.11
5128113799	GUX3B	286°F 141°C	Bronze	S\$ 125.75
5128213799	GUX3C	286°F 141°C	Chrome	S\$ 131.11
<b>MODEL GXLO PENDENT K11.2 (160) THREADS 3/4" (20MM) R2916</b>				
5216114198	GPX1LB	165°F 74°C	Bronze	S\$ 81.35
5221114198	GPX2LB	212°F 100°C	Bronze	S\$ 81.35
5228114198	GPX3LB	286°F 141°C	Bronze	S\$ 81.35
<b>MODEL GXLO PENDENT K11.2 (160) BSPT THREADS 3/4" (20MM) R2916</b>				
5216114195	GPX1LBM	165°F 74°C	Bronze	S\$ 81.35
5221114195	GPX2LBM	212°F 100°C	Bronze	S\$ 81.35
5228114195	GPX3LBM	286°F 141°C	Bronze	S\$ 81.35

6880070000 WH Requires Model H Sprinkler Wrench S\$ 176.02

Part Number	Short Code	Temperature	Finish	List Price
<b>MODEL GL112 UPRIGHT K11.2 (160) THREADS 3/4" (20MM) R3226</b>				
0116114098	GL112U1B	165°F 74°C	Bronze	S\$ 92.59
0121114098	GL112U2B	212°F 100°C	Bronze	S\$ 92.59
<b>MODEL GL112 UPRIGHT K11.2 (160) BSPT THREADS 3/4" (20MM) R3226</b>				
0116114095	GL112U1BM	165°F 74°C	Bronze	S\$ 92.59
0121114095	GL112U2BM	212°F 100°C	Bronze	S\$ 92.59
<b>MODEL GL112 PENDENT K11.2 (160) THREADS 3/4" (20MM) R3226</b>				
0216114098	GL112P1B	165°F 74°C	Bronze	S\$ 92.59
0221114098	GL112P2B	212°F 100°C	Bronze	S\$ 92.59
<b>MODEL GL112 PENDENT K11.2 (160) BSPT THREADS 3/4" (20MM) R3226</b>				
0216114095	GL112P1BM	165°F 74°C	Bronze	S\$ 92.59
0221114095	GL112P2BM	212°F 100°C	Bronze	S\$ 92.59

6880070000 WH Requires Model H Sprinkler Wrench S\$ 176.02

Part Number	Short Code	Temperature	Finish	List Price
<b>MODEL G PENDENT VELO K14.0 (200) THREADS 3/4" (20MM) R4613</b>				
5216114398	GPV1B	165°F 74°C	Bronze	S\$ 86.19
5216214398	GPV1C	165°F 74°C	Chrome	S\$ 118.02
5221114398	GPV2B	212°F 100°C	Bronze	S\$ 86.19
5221214398	GPV2C	212°F 100°C	Chrome	S\$ 118.02
5228114398	GPV3B	286°F 141°C	Bronze	S\$ 86.19
5228214398	GPV3C	286°F 141°C	Chrome	S\$ 118.02

6880070000 WH Requires Model H Sprinkler Wrench S\$ 176.02



**F1FR56  
 INTERMEDIATE**

- K-Factor = 5.6 (80)
- Upright = SIN RA3195
- Pendant = SIN RA1414
- See Bulletin 031

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL F1FR56 INTERMEDIATE UPRIGHT K5.6 (80) THREADS 1/2" (15MM) RA3195</b>					
BA131142R9	F1FR56UI0B	135°F	57°C	Bronze	S\$ 108.78
BA151142R9	F1FR56UI1B	155°F	68°C	Bronze	S\$ 108.78
BA171142R9	F1FR56UI5B	175°F	79°C	Bronze	S\$ 108.78
BA201142R9	F1FR56UI2B	200°F	93°C	Bronze	S\$ 108.78
BA281142R9	F1FR56UI3B	286°F	141°C	Bronze	S\$ 108.78
<b>MODEL F1FR INTERMEDIATE K8.0 (115) THREADS 3/4" (20MM) R7092</b>					
BA13114298	F1FRUI0LB	135°F	57°C	Bronze	S\$ 113.31
BA15114298	F1FRUI1LB	155°F	68°C	Bronze	S\$ 113.31
BA17114298	F1FRUI5LB	175°F	79°C	Bronze	S\$ 113.31
BA20114298	F1FRUI2LB	200°F	93°C	Bronze	S\$ 113.31
BA28114298	F1FRUI3LB	286°F	141°C	Bronze	S\$ 113.31



**F1FR  
 INTERMEDIATE**

- K-Factor = 8.0 (115)
- Upright = SIN R7092
- Pendant = SIN RA1414
- See Bulletin 031

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL F1FR56 INTERMEDIATE PENDENT K5.6 (80) THREADS 1/2" (15MM) RA1414</b>					
B213114299	F1FR56PI0B	135°F	57°C	Bronze	S\$108.78
B215114299	F1FR56PI1B	155°F	68°C	Bronze	S\$108.78
B217114299	F1FR56PI5B	175°F	79°C	Bronze	S\$108.78
B220114299	F1FR56PI2B	200°F	93°C	Bronze	S\$108.78
B228114299	F1FR56PI3B	286°F	141°C	Bronze	S\$108.78
<b>MODEL F1FR INTERMEDIATE PENDENT K8.0 (115) THREADS 3/4" (20MM) R3612</b>					
BB13114298	F1FRPI0LB	135°F	57°C	Bronze	S\$113.31
BB15114298	F1FRPI1LB	155°F	68°C	Bronze	S\$113.31
BB17114298	F1FRPI5LB	175°F	79°C	Bronze	S\$113.31
BB20114298	F1FRPI2LB	200°F	93°C	Bronze	S\$113.31
BB28114298	F1FRPI3LB	286°F	141°C	Bronze	S\$113.31

6880050100	WW2	Requires Model WW2 (UPRIGHT) Sprinkler Wrench	S\$ 145.27
6880060000	WGFR	Requires Model GFR2 (PEND) Sprinkler Wrench	S\$ 439.21



**F156  
 INTERMEDIATE**

- K-Factor = 5.6 (80)
- Upright = SIN RA3125
- Pendent = SIN RA1314
- See Bulletin 031

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL F156 INTERMEDIATE UPRIGHT K5.6 (80) THREADS 1/2" (15MM) RA3125</b>					
AA131142R9	F56UI0B	135°F	57°C	Bronze	S\$ 58.12
AA151142R9	F56UI1B	155°F	68°C	Bronze	S\$ 58.12
AA171142R9	F56UI5B	175°F	79°C	Bronze	S\$ 58.12
AA201142R9	F56UI2B	200°F	93°C	Bronze	S\$ 58.12
AA281142R9	F56UI3B	286°F	141°C	Bronze	S\$ 58.12
AA361142R9	F56UI6B	360°F	182°C	Bronze	S\$ 62.44
<b>MODEL F156 INTERMEDIATE PENDENT K5.6 (80) THREADS 1/2" (15MM) RA1314</b>					
A213114299	F56PI0B	135°F	57°C	Bronze	S\$ 58.12
A215114299	F56PI1B	155°F	68°C	Bronze	S\$ 58.12
A217114299	F56PI5B	175°F	79°C	Bronze	S\$ 58.12
A220114299	F56PI2B	200°F	93°C	Bronze	S\$ 58.12
A228114299	F56PI3B	286°F	141°C	Bronze	S\$ 58.12
A236114299	F56PI6B	360°F	182°C	Bronze	S\$ 62.44



**F1 INTERMEDIATE**

- K-Factor = 8.0 (115)
- Upright = SIN R7022
- Pendent = SIN R1712
- See Bulletin 170

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL F1 INTERMEDIATE UPRIGHT K8.0 (115) THREADS 3/4" (20MM) R7022</b>					
AA13114298	FUI0LB	135°F	57°C	Bronze	S\$ 64.50
AA15114298	FUI1LB	155°F	68°C	Bronze	S\$ 64.50
AA17114298	FUI5LB	175°F	79°C	Bronze	S\$ 64.50
		°F	°C		S\$ Call
AA28114298	FUI3LB	286°F	141°C	Bronze	S\$ 64.50
AA36114298	FUI6LB	360°F	182°C	Bronze	S\$ 69.23
<b>MODEL F1 INTERMEDIATE PENDENT K8.0 (115) THREADS 3/4" (20MM) R1712</b>					
AB13114298	FPI0LB	135°F	57°C	Bronze	S\$ 64.50
AB15114298	FPI1LB	155°F	68°C	Bronze	S\$ 64.50
AB17114298	FPI5LB	175°F	79°C	Bronze	S\$ 64.50
AB20114298	FPI2LB	200°F	93°C	Bronze	S\$ 64.50
AB28114298	FPI3LB	286°F	141°C	Bronze	S\$ 64.50
AB36114298	FPI6LB	360°F	182°C	Bronze	S\$ 69.23

6880050100	WW2	Requires Model WW2 (UPRIGHT) Sprinkler Wrench	S\$ 145.27
6880060000	WGFR	Requires Model GFR2 (PEND) Sprinkler Wrench	S\$ 439.21





**KFR56 UPRIGHT  
 INTERMEDIATE  
 LEVEL**

- K-Factor = 5.6 (80)
- **SIN RA3624**
- See Bulletin 042

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL KFR56 INTERMEDIATE UPRIGHT K5.6 (80) THREADS 1/2" (15MM) RA3624</b>					
MA16114299	KFR56UI1B	165°F	74°C	Bronze	S\$108.78
MA21114299	KFR56UI2B	212°F	100°C	Bronze	S\$107.76

6880050100 WW2 Requires Model WW2 (UPRIGHT) Sprinkler Wrench S\$ 145.27

<b>MODEL KFR80 INTERMEDIATE UPRIGHT K8.0 (115) THREADS 3/4" (20MM) RA5422</b>					
M1161142S8	KFR80UI1B	165°F	74°C	Bronze	S\$113.31

**KFR80 UPRIGHT  
 INTERMEDIATE  
 LEVEL**

- K Factor = 8.0 (115)
- **SIN RA5422**
- See Bulletin 054

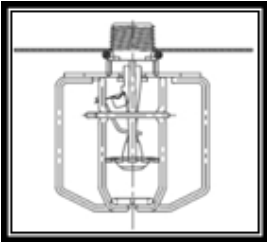
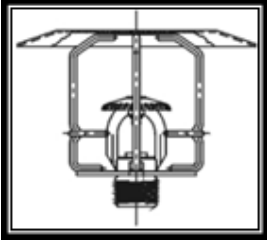


**KFR56 PENDENT  
 INTERMEDIATE  
 LEVEL**

- K-Factor = 5.6 (80)
- **SIN RA3614**
- See Bulletin 042

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL KFR56 INTERMEDIATE PENDENT K5.6 (80) THREADS 1/2" (15MM) RA3614</b>					
M216114299	KFR56PI1B	165°F	74°C	Bronze	S\$107.76
M221114299	KFR56PI2B	212°F	100°C	Bronze	S\$107.76

6880060000 WGFR Pendant requires Model GFR2 Sprinkler Wrench S\$ 439.21



### D3 & D5 GUARDS

- F1FR56 Int. Level Spk W/ Guard and Shield Assembled
- Thread Size = 1/2"
- See Bulletins 031 & 208

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL F1FR56 INTERMEDIATE UPRIGHT K5.6 (80) THREADS 1/2" (15MM)-D3</b>					
BA1A1142R9	F1FR56U0BD3	135°F	57°C	Bronze	S\$ 89.58
BA2A1142R9	F1FR56U1BD3	155°F	68°C	Bronze	S\$ 89.58
BA4A1142R9	F1FR56U5BD3	175°F	79°C	Bronze	S\$ 89.58
BA5A1142R9	F1FR56U2BD3	200°F	93°C	Bronze	S\$ 89.58
<b>MODEL F1FR56 INTERMEDIATE PENDENT K5.6 (80) THREADS 1/2" (15MM)-D5</b>					
B21A114299	F1FR56P0BD5	135°F	57°C	Bronze	S\$ 89.58
B22A114299	F1FR56P1BD5	155°F	68°C	Bronze	S\$ 89.58
B24A114299	F1FR56P5BD5	175°F	79°C	Bronze	S\$ 89.58
B25A114299	F1FR56P2BD5	200°F	93°C	Bronze	S\$ 89.58
<b>MODEL F1FR LO INTERMEDIATE PENDENT K8.0 (115) THREADS 3/4" (20MM)-D5</b>					
BB1A114298	F1FRP0LBD5	135°F	57°C	Bronze	S\$ 100.85
BB2A114298	F1FRP1LBD5	155°F	68°C	Bronze	S\$ 100.85
BB4A114298	F1FRP5LBD5	175°F	79°C	Bronze	S\$ 100.85
BB5A114298	F1FRP2LBD5	200°F	93°C	Bronze	S\$ 100.85

### Notes:

The above sprinklers come with a zinc guard and shield already attached to a bronze sprinkler. This eliminates the need for field attachment!

Sprinkler guards are listed and approved only for use with specific sprinklers. The use of any other guards on these sprinklers may impede their operation or distribution and negate all approvals and warranties.



## D1 SPK & GUARD ASSEMBLY

- For F1FR56 Sprinklers
- Thread Size = 1/2"
- See Bulletins 031 & 208
- For F1FR - See Bulletin 170

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL F1FR56 UPRIGHT K5.6 (80) THREADS 1/2" (15MM)</b>					
BA1A1132R9	F1FR56U0BD1	135°F	57°C	Bronze	S\$ 83.33
BA2A1132R9	F1FR56U1BD1	155°F	68°C	Bronze	S\$ 83.33
BA4A1132R9	F1FR56U5BD1	175°F	79°C	Bronze	S\$ 83.33
BA5A1132R9	F1FR56U2BD1	200°F	93°C	Bronze	S\$ 83.33
BA8A1132R9	F1FR56U3BD1	286°F	141°C	Bronze	S\$ 83.33
<b>MODEL F1FR56 PENDENT K5.6 (80) THREADS 1/2" (15MM)</b>					
B21A113299	F1FR56P0BD1	135°F	57°C	Bronze	S\$ 83.33
B22A113299	F1FR56P1BD1	155°F	68°C	Bronze	S\$ 83.33
B24A113299	F1FR56P5BD1	175°F	79°C	Bronze	S\$ 83.33
B25A113299	F1FR56P2BD1	200°F	93°C	Bronze	S\$ 83.33
B28A113299	F1FR56P3BD1	286°F	141°C	Bronze	S\$ 83.33
<b>MODEL F1FR UPRIGHT K8.0 (115) THREADS 3/4" (20MM)</b>					
BA1A113498	F1FRU0LBD1	135°F	57°C	Bronze	S\$ 94.13
BA2A113498	F1FRU1LBD1	155°F	68°C	Bronze	S\$ 94.13
BA4A113498	F1FRU5LBD1	175°F	79°C	Bronze	S\$ 94.13
BA5A113498	F1FRU2LBD1	200°F	93°C	Bronze	S\$ 94.13
BA8A113498	F1FRU3LBD1	286°F	141°C	Bronze	S\$ 94.13
<b>MODEL F1FR PENDENT K8.0 (115) THREADS 3/4" (20MM)</b>					
BB1A113498	F1FRP0LBD1	135°F	57°C	Bronze	S\$ 94.13
BB2A113498	F1FRP1LBD1	155°F	68°C	Bronze	S\$ 94.13
BB4A113498	F1FRP5LBD1	175°F	79°C	Bronze	S\$ 94.13
BB5A113498	F1FRP2LBD1	200°F	93°C	Bronze	S\$ 94.13
BB8A113498	F1FRP3LBD1	286°F	141°C	Bronze	S\$ 94.13
<b>GUARDS ONLY</b>					
6802251400	GC1	C-1 Universal		Zinc	S\$ 14.69
6802201400	GC2	C-2 Dry Pendent		Zinc	S\$ 20.38
6802251410	GD1	D-1 Universal		Zinc	S\$ 20.17
<b>GUARDS AND SHIELDS</b>					
6802501410	GD3	D-3 (Upright)		Zinc	S\$ 23.85
6802631412	GD51	D-5 (1/2" or 15mm)		Zinc	S\$ 45.79
6802631434	GD53	D-5 (3/4" or 20mm)		Zinc	S\$ 45.79
6802621412	GD41	D-4 (1/2" or 15mm)		Zinc	S\$ 51.31
6802621434	GD43	D-4 (3/4" or 20mm)		Zinc	S\$ 51.31
6802501400	GC3	C-3 (SU INT)		Zinc	S\$ 30.09
6802611412	GC51	C-5 (1/2" or 15mm)		Zinc	S\$ 42.04
6802611434	GC53	C-5 (3/4" or 20mm)		Zinc	S\$ 42.04

### Notes:

Sprinklers with D1 guards attached



- GFR INTERMEDIATE**
- K5.6 = SIN R3195
  - K8.0 = SIN R3197
  - See Bulletin 131

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL GFR INTERMEDIATE UPRIGHT K5.6 (80) THREADS 1/2" (15MM) R3195</b>					
0116114299	GFRUI1B	165°F	74°C	Bronze	S\$ 145.10
0116214299	GFRUI1C	165°F	74°C	Chrome	S\$ 161.27
<b>MODEL GFR INTERMEDIATE UPRIGHT K8.0 (115) THREADS 3/4" (20MM) R3197</b>					
0116114498	GFRUI1LB	165°F	74°C	Bronze	S\$ 158.99
0116214498	GFRUI1LC	165°F	74°C	Chrome	S\$ 165.45



- GFR INTERMEDIATE**
- K5.6 = SIN R3115
  - K8.0 = SIN R3117
  - See Bulletin 131

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL GFR INTERMEDIATE PENDENT K5.6 (80) THREADS 1/2" (15MM) R3115</b>					
0216114299	GFRPI1B	165°F	74°C	Bronze	S\$145.10
0216214299	GFRPI1C	165°F	74°C	Chrome	S\$161.27
<b>MODEL GFR INTERMEDIATE PENDENT K8.0 (115) THREADS 3/4" (20MM) R3117</b>					
0216114498	GFRPI1LB	165°F	74°C	Bronze	S\$158.99
0216214498	GFRPI1LC	165°F	74°C	Chrome	S\$165.45

6880050100	WW2	Requires Model WW2 (UPRIGHT) Sprinkler Wrench	S\$ 145.27
6880060000	WGFR	Requires Model GFR2 (PEND) Sprinkler Wrench	S\$ 439.21

**Notes:**  
 GFR Uprights have factory installed shields



### G INTERMEDIATE LEVEL

- K5.6 = SIN R1425
- K8.0 = SIN R1427
- See Bulletin 114

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL G INTERMEDIATE UPRIGHT K5.6 (80) THREADS 1/2" (15MM) R1425</b>					
5113114299	GUI0B	135°F	57°C	Bronze	S\$ 73.89
5116114299	GUI1B	165°F	74°C	Bronze	S\$ 73.89
5121114299	GUI2B	212°F	100°C	Bronze	S\$ 73.89
5128114299	GUI3B	286°F	141°C	Bronze	S\$ 73.89
<b>MODEL G INTERMEDIATE UPRIGHT K8.0 (115) THREADS 3/4" (20MM) R1427</b>					
5113114498	GUI0LB	135°F	57°C	Bronze	S\$ 81.37
5116114498	GUI1LB	165°F	74°C	Bronze	S\$ 81.37
5121114498	GUI2LB	212°F	100°C	Bronze	S\$ 81.37
5128114498	GUI3LB	286°F	141°C	Bronze	S\$ 81.37

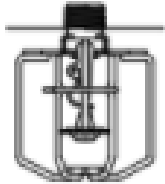


### G INTERMEDIATE LEVEL

- K5.6 = SIN R1015
- K8.0 = SIN R1017
- See Bulletin 114

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL G INTERMEDIATE PENDENT K5.6 (80) THREADS 1/2" (15MM) R1015</b>					
5213114299	GPI0B	135°F	57°C	Bronze	S\$ 73.89
5216114299	GPI1B	165°F	74°C	Bronze	S\$ 73.89
5221114299	GPI2B	212°F	100°C	Bronze	S\$ 73.89
5228114299	GPI3B	286°F	141°C	Bronze	S\$ 73.89
<b>MODEL G INTERMEDIATE PENDENT K8.0 (115) THREADS 3/4" (20MM) R1017</b>					
5213114498	GPI0LB	135°F	57°C	Bronze	S\$ 79.87
5221114498	GPI2LB	212°F	100°C	Bronze	S\$ 81.37
5228114498	GPI3LB	286°F	141°C	Bronze	S\$ 81.37

6880050100	WW2	Requires Model WW2 (UPRIGHT) Sprinkler Wrench		S\$ 145.27
6880100000	WRC	Requires Model RC1 Sprinkler Wrench (pendent)		S\$ 439.21



### D3 & D5 GUARDS

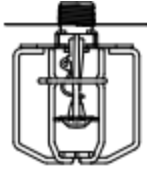
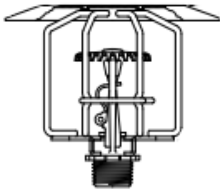
- F156 Int. Level Spk W/ Guard & Shield Assembled
- Thread Size = 1/2"
- See Bulletins 031 & 208

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL F156 INTERMEDIATE UPRIGHT K5.6 (80) THREADS 1/2" (15MM) RA3125</b>					
AA1A1142R9	F56U0BD3	135°F	57°C	Bronze	S\$ 60.24
AA2A1142R9	F56U1BD3	155°F	68°C	Bronze	S\$ 60.24
AA4A1142R9	F56U5BD3	175°F	79°C	Bronze	S\$ 60.24
AA5A1142R9	F56U2BD3	200°F	93°C	Bronze	S\$ 60.24
AA8A1142R9	F56U3BD3	286°F	141°C	Bronze	S\$ 60.24
AA9A1142R9	F56U6BD3	360°F	182°C	Bronze	S\$ 64.50
<b>MODEL F1 INTERMEDIATE UPRIGHT K8.0 (115) THREADS 3/4" (20MM) R7022</b>					
AA1A114298	FU0LBD3	135°F	57°C	Bronze	S\$ 67.13
AA2A114298	FU1LBD3	155°F	68°C	Bronze	S\$ 67.13
AA4A114298	FU5LBD3	175°F	79°C	Bronze	S\$ 67.13
AA5A114298	FU2LBD3	200°F	93°C	Bronze	S\$ 67.13
AA8A114298	FU3LBD3	286°F	141°C	Bronze	S\$ 67.13
AA9A114298	FU6LBD3	360°F	182°C	Bronze	S\$ 71.34
<b>MODEL F156 INTERMEDIATE PENDENT K5.6 (80) THREADS 1/2" (15MM) RA1314</b>					
A21A114299	F56P0BD5	135°F	57°C	Bronze	S\$ 60.24
A22A114299	F56P1BD5	155°F	68°C	Bronze	S\$ 60.24
A28A114299	F56P3BD5	286°F	141°C	Bronze	S\$ 60.24
<b>MODEL F1 INTERMEDIATE PENDENT K8.0 (115) THREADS 3/4" (20MM) R1712</b>					
AB1A114298	FP0LBD5	135°F	57°C	Bronze	S\$ 67.13
AB2A114298	FP1LBD5	155°F	68°C	Bronze	S\$ 67.13
AB4A114298	FP5LBD5	175°F	79°C	Bronze	S\$ 67.13
AB5A114298	FP2LBD5	200°F	93°C	Bronze	S\$ 67.13
AB8A114298	FP3LBD5	286°F	141°C	Bronze	S\$ 67.13
AB9A114298	FP6LBD5	360°F	182°C	Bronze	S\$ 67.90

### Notes:

The above sprinklers come with a zinc guard and shield already attached to a bronze sprinkler. This eliminates the need for field attachment!

Sprinkler guards are listed and approved only for use with specific sprinklers. The use of any other guards on these sprinklers may impede their operation or distribution and negate all approvals and warranties.



### D3 & D5 GUARDS

- G Int. Level Sprinkler & Guard Assembly
- UL, cUL & NYC MEA Approved! (C Guards FM Approved)
- See Bulletin 208

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL G INTERMEDIATE UPRIGHT K5.6 (80) THREADS 1/2" (15MM) R1425</b>					
511A114299	GU0BD3	135°F	57°C	Bronze	S\$ 74.99
513A114299	GU1BD3	165°F	74°C	Bronze	S\$ 74.99
516A114299	GU2BD3	212°F	100°C	Bronze	S\$ 74.99
518A114299	GU3BD3	286°F	141°C	Bronze	S\$ 74.99
<b>MODEL G INTERMEDIATE UPRIGHT K8.0 (115) THREADS 3/4" (20MM) R1427</b>					
511A114498	GU0LBD3	135°F	57°C	Bronze	S\$ 82.70
513A114498	GU1LBD3	165°F	74°C	Bronze	S\$ 82.70
516A114498	GU2LBD3	212°F	100°C	Bronze	S\$ 82.70
518A114498	GU3LBD3	286°F	141°C	Bronze	S\$ 82.70
<b>MODEL G INTERMEDIATE PENDENT K5.6 (80) THREADS 1/2" (15MM) R1015</b>					
521A114299	GP0BD5	135°F	57°C	Bronze	S\$ 74.99
523A114299	GP1BD5	165°F	74°C	Bronze	S\$ 74.99
526A114299	GP2BD5	212°F	100°C	Bronze	S\$ 74.99
528A114299	GP3BD5	286°F	141°C	Bronze	S\$ 74.99
<b>MODEL G INTERMEDIATE PENDENT K8.0 (115) THREADS 3/4" (20MM) R1017</b>					
521A114498	GP0LBD5	135°F	57°C	Bronze	S\$ 82.70
523A114498	GP1LBD5	165°F	74°C	Bronze	S\$ 82.70
526A114498	GP2LBD5	212°F	100°C	Bronze	S\$ 82.70
528A114498	GP3LBD5	286°F	141°C	Bronze	S\$ 82.70

### Notes:

The above sprinklers come with a zinc guard and shield already attached to a bronze sprinkler. This eliminates the need for field attachment!

Sprinkler guards are listed and approved only for use with specific sprinklers. The use of any other guards on these sprinklers may impede their operation or distribution and negate all approvals and warranties.



## D1 SPK & GUARD ASSEMBLY

- For F156 & F1 LO Sprinklers
- Thread Size = 1/2" & 3/4"
- See Bulletins 031 & 208

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL F156 UPRIGHT K5.6 (80) THREADS 1/2" (15MM)</b>					
AA1A1132R9	F56U0BD1	135°F	57°C	Bronze	S\$ 60.78
AA2A1132R9	F56U1BD1	155°F	68°C	Bronze	S\$ 60.78
AA4A1132R9	F56U5BD1	175°F	79°C	Bronze	S\$ 60.78
AA5A1132R9	F56U2BD1	200°F	93°C	Bronze	S\$ 60.78
AA8A1132R9	F56U3BD1	286°F	141°C	Bronze	S\$ 60.78
<b>MODEL F156 PENDENT K5.6 (80) THREADS 1/2" (15MM)</b>					
AB1A1132R9	F56P0BD1	135°F	57°C	Bronze	S\$ 60.78
AB2A1132R9	F56P1BD1	155°F	68°C	Bronze	S\$ 60.78
AB4A1132R9	F56P5BD1	175°F	79°C	Bronze	S\$ 60.78
AB5A1132R9	F56P2BD1	200°F	93°C	Bronze	S\$ 60.78
AB8A1132R9	F56P3BD1	286°F	141°C	Bronze	S\$ 60.78
<b>MODEL F1 UPRIGHT K8.0 (115) THREADS 3/4" (20MM)</b>					
AA1A113498	FU0LBD1	135°F	57°C	Bronze	S\$ 67.42
AA2A113498	FU1LBD1	155°F	68°C	Bronze	S\$ 67.42
AA4A113498	FU5LBD1	175°F	79°C	Bronze	S\$ 67.42
AA5A113498	FU2LBD1	200°F	93°C	Bronze	S\$ 67.42
AA8A113498	FU3LBD1	286°F	141°C	Bronze	S\$ 67.42
<b>MODEL F1 PENDENT K8.0 (115) THREADS 3/4" (20MM)</b>					
AB1A113498	FP0LBD1	135°F	57°C	Bronze	S\$ 67.42
AB2A113498	FP1LBD1	155°F	68°C	Bronze	S\$ 67.42
AB4A113498	FP5LBD1	175°F	79°C	Bronze	S\$ 67.42
AB5A113498	FP2LBD1	200°F	93°C	Bronze	S\$ 67.42
AB8A113498	FP3LBD1	286°F	141°C	Bronze	S\$ 67.42
<b>GUARDS ONLY</b>					
6802251400	GC1	C-1 Universal		Zinc	S\$ 14.69
6802201400	GC2	C-2 Dry Pendent		Zinc	S\$ 20.38
6802251410	GD1	D-1 Universal		Zinc	S\$ 20.17
<b>GUARDS AND SHIELDS</b>					
6802501410	GD3	D-3 (Upright)		Zinc	S\$ 23.85
6802631412	GD51	D-5 (1/2" or 15mm)		Zinc	S\$ 45.79
6802631434	GD53	D-5 (3/4" or 20mm)		Zinc	S\$ 45.79
6802621412	GD41	D-4 (1/2" or 15mm)		Zinc	S\$ 51.31
6802621434	GD43	D-4 (3/4" or 20mm)		Zinc	S\$ 51.31
6802501400	GC3	C-3 (SU INT)		Zinc	S\$ 30.09
6802611412	GC51	C-5 (1/2" or 15mm)		Zinc	S\$ 42.04
6802611434	GC53	C-5 (3/4" or 20mm)		Zinc	S\$ 42.04

### Notes:

Sprinklers Factory installed with D1 Guards





## D1 SPK & GUARD ASSEMBLY

- For Model G Sprinklers
- UL, cUL & NYC MEA Approved! (C Guards FM Approved)
- See Bulletin 208

Part Number	Short Code	Temperature		Finish	List Price
<b>MODEL G UPRIGHT K5.6 (80) THREADS 1/2" (15MM) R1025</b>					
511A113299	GU0BD1	135°F	57°C	Bronze	S\$ 73.89
513A113299	GU1BD1	165°F	74°C	Bronze	S\$ 73.89
516A113299	GU2BD1	212°F	100°C	Bronze	S\$ 73.89
518A113299	GU3BD1	286°F	141°C	Bronze	S\$ 73.89
<b>MODEL G PENDENT K5.6 (80) THREADS 1/2" (15MM) R1015</b>					
521A113299	GP0BD1	135°F	57°C	Bronze	S\$ 73.89
523A113299	GP1BD1	165°F	74°C	Bronze	S\$ 73.89
526A113299	GP2BD1	212°F	100°C	Bronze	S\$ 73.89
528A113299	GP3BD1	286°F	141°C	Bronze	S\$ 73.89
<b>MODEL G UPRIGHT K8.0 (115) THREADS 3/4" (20MM) R1027</b>					
511A113498	GU0LBD1	135°F	57°C	Bronze	S\$ 81.37
513A113498	GU1LBD1	165°F	74°C	Bronze	S\$ 81.37
516A113498	GU2LBD1	212°F	100°C	Bronze	S\$ 81.37
518A113498	GU3LBD1	286°F	141°C	Bronze	S\$ 81.37
<b>MODEL G PENDENT K8.0 (115) THREADS 3/4" (20MM) R1017</b>					
521A113498	GP0LBD1	135°F	57°C	Bronze	S\$ 81.37
523A113498	GP1LBD1	165°F	74°C	Bronze	S\$ 81.37
526A113498	GP2LBD1	212°F	100°C	Bronze	S\$ 67.42
528A113498	GP3LBD1	286°F	141°C	Bronze	S\$ 67.42
<b>GUARDS ONLY</b>					
6802251400	GC1	C-1 Universal		Zinc	S\$ 14.69
6802201400	GC2	C-2 Dry Pendent		Zinc	S\$ 20.38
6802251410	GD1	D-1 Universal		Zinc	S\$ 20.17
<b>GUARDS AND SHIELDS</b>					
6802501410	GD3	D-3 (Upright)		Zinc	S\$ 23.85
6802631412	GD51	D-5 (1/2" or 15mm)		Zinc	S\$ 45.79
6802631434	GD53	D-5 (3/4" or 20mm)		Zinc	S\$ 45.79
6802621412	GD41	D-4 (1/2" or 15mm)		Zinc	S\$ 51.31
6802621434	GD43	D-4 (3/4" or 20mm)		Zinc	S\$ 51.31
6802501400	GC3	C-3 (SU INT)		Zinc	S\$ 30.09
6802611412	GC51	C-5 (1/2" or 15mm)		Zinc	S\$ 42.04
6802611434	GC53	C-5 (3/4" or 20mm)		Zinc	S\$ 42.04

Sprinklers factory installed with D1 guards