SPRINKLER APPLICATION CHART

One Family. One Industry.

One Source.

For ALL of your fire protection needs

NOTES

NEW = New Product
★ = Standard Coverage
X = SIN varies based on K-Factor
Std. = Standard
Conc. = Concealed

Approval Organizations

cULus - Underwriters Laboratories and Underwriters Laboratories of Canada
FM - FM Approvals
LPCB - Loss Prevention Certification Board
VdS - VdS Schadenverhütung GmbH
CE - European Conformity Certificate
LL - cULus Certified to NSF/ANSI Std. 61 Annex G (Less than 0.25% Lead Content)

See Technical Bulletins for complete approval information, including K-Factors and orientations approved by each Approval Organization.

Reliable®

www.reliablesprinkler.com

04/2017
P/N 9999970082

Model	Upright	Pendent				Horizontal Sidewall				Vertical Sidewall	Max Spacing ft. (meter)	Nominal K-Factor gpm/psi$^{1/2}$ (L/min/bar$^{1/2}$)	Nominal Thread Size NPT or ISO7-1	Response	Approvals (see notes)	Bulletin
		Std.	Recessed	Conical Conc.	Flat Conc.	Std.	Recessed	Conical Conc.	Flat Conc.							
STANDARD SPRAY - STANDARD RESPONSE																
F1 Series	RA132X	RA131X	RA131X			RA1335	RA1335			RA1385	★	2.8 (40), 4.2 (60), 5.6 (80)	½"	STD.	cULus	013
F156	RA1325	RA1314	RA1314			RA1335	RA1335			RA1385	★	5.6 (80)	½"	STD.	cULus, FM	013
F156	RA1325	RA1314	RA1314							RA1385	★	5.6 (80)	½"		cULus, FM, LPCB	013
F156	RA1325	RA1314	RA1314								★	5.6 (80)	½"	STD.	cULus, FM, LPCB, VdS, CE	013
F156-300	RA2525	RA2514	RA2514								★	5.6 (80)	½"	STD.	cULus	025
F1 LO	R1722	R1712	R1712								★	8.0 (115)	¾"	STD.	cULus, FM, LPCB,VdS, CE	117
F1-300	R5522	R5512	R5512								★	8.0 (115)	¾"	STD.	cULus	155
G	R1022	R1012									★	2.0 (29)	½"	STD.	cULus, VdS	110
G	R1021	R1011									★	2.8 (40)	½"	STD.	cULus, FM, VdS	110
G	R1023	R1013									★	4.2 (60)	½"	STD.	cULus, LPCB, VdS	110
G	R1025	R1015									★	5.6 (80)	½"	STD.	cULus, FM, LPCB, VdS, CE	110
G	R1027	R1017									★	8.0 (115)	½", ¾"	STD.	cULus, FM, LPCB, VdS, CE	110
G Recessed FP Escutcheon			R1X1X								★	2.8 (40), 4.2 (60), 5.6 (80), 8.0 (115)	½", 1"	STD.	cULus	111
G Recessed FP Escutcheon			R1015								★	5.6 (80)	½", 1"	STD.	cULus, FM, LPCB, CE	111
G Recessed F1 Escutcheon			R101X								★	2.8 (40), 4.2 (60), 5.6 (80), 8.0 (115)	½", ¾", R⅜	STD.	cULus, LPCB, VdS	120
G						R1235				R1285	★	5.6 (80)	½"	STD.	LPCB, FM	112
G4					R211X						★	2.8 (40), 4.2 (60), 5.6 (80)	½", 1"	STD.	cULus	121
G4-300					R6115						★	5.6 (80)	½", 1"	STD.	cULus	161
G5-28					RA3411						★	2.8 (40)	½"	STD.	FM	034
G5-56					RA3415						★	5.6 (80)	½"	STD.	FM, LPCB, VdS, CE	034
G5 Series with SR gasket cover					RA341X						★	2.8 (40), 4.2 (60), 5.6 (80), 8.0 (115)	½", ¾"	STD.	cULus	034
G5-56 300 with SR gasket cover					RA4014						★	5.6 (80)	½"	STD.	cULus	034
G4A Adjustable Concealed					R5418						★	5.6 (80)	1"	STD.	FM	154
STANDARD SPRAY - QUICK RESPONSE																
F1FR Series	RA142X	RA141X	RA141X	RA1414		RA1435	RA1435			RA1485	★	2.8 (40), 4.2 (60) , 5.6 (80)	½"	QUICK	cULus	014
F1FR LL Series		RA141X	RA141X	RA141X							★	4.2 (60), 5.6 (80)	½"	QUICK	cULus, LL	014
F1FR40		RA1418	RA1418								★	4.0 (57)	½"	QUICK	VdS, CE	014
F1FR56	RA1425	RA1414	RA1414			RA1435	RA1435			RA1485	★	5.6 (80)	½"	QUICK	cULus, FM	014
F1FR56	RA1425	RA1414	RA1414								★	5.6 (80)	½"	QUICK	cULus, LPCB, VdS, CE	014
F1FR56-300	RA2625	RA2614	RA2614	RA2614		RA2634	RA2634	RA2634			★	5.6 (80)	½"	QUICK	cULus	026
F1FR LO	R3622	R3612	R3612								★	8.0 (115)	¾"	QUICK	cULus, FM	136
F1FR LO	R3622	R3612									★	8.0 (115)	¾"	QUICK	cULus, FM, LPCB,VdS, CE	136
F1FR LO (International)	R3822	RA3812	RA3812								★	8.0 (115)	½"	QUICK	VdS, CE	038
F1FR-300	R5622	R5612									★	8.0 (115)	¾"	QUICK	cULus	156
KFR56	RA3524	RA3614	RA3614	RA3614		RA3634	RA3634				★	5.6 (80)	½"	QUICK	cULus	036
KFR56		RA3614	RA3614								★	5.6 (80)	½"	QUICK	cULus, FM	036
KFR56-300	RA3924	RA3914	RA3914	RA3914		RA3934	RA3934				★	5.6 (80)	½"	QUICK	cULus	039
GFR	R312X	R311X	R311X			R313X	R313X				★	2.8 (40), 4.2 (60), 5.6 (80), 8.0 (115)	½", ¾"	QUICK	cULus	131
GFR	R3127	R3117									★	8.0 (115)	¾"	QUICK	cULus, FM	131
G5 Series					RA341X						★	2.8 (40), 4.2 (60), 5.6 (80), 8.0 (115)	½", ¾"	QUICK	cULus	034
G4A Adjustable Concealed					R541X						★	4.2 (60), 5.6 (80)	1"	QUICK	cULus	154
NEW G6-56									RA5035		★	5.6 (80)	½"	QUICK	cULus	050
XL Flush Commercial		R4514				R4534					★	5.6 (80)	½"	QUICK	cULus, LPCB	145
EXTENDED COVERAGE - LIGHT HAZARD																
F1FR56 QREC		RA2845	RA2845	RA2845							20 X 20 (6.1 X 6.1)	5.6 (80)	½"	QUICK	cULus	028
F1FR56 QREC						RA2865	RA2865				16 X 20 (4.9 X 6.1)	5.6 (80)	½"	QUICK	cULus, FM	028
F1FR56-300 QREC		RA3045	RA3045	RA3045							20 X 20 (6.1 X 6.1)	5.6 (80)	½"	QUICK	cULus	030
F1FR QREC		R4842	R4842								20 X 20 (6.1 X 6.1)	8.0 (115)	¾"	QUICK	cULus, FM	148
F1FR QREC						R4862	R4862				14 X 26 (4.3 X 7.9) & 16 X 24 (4.9 X 7.3)	8.0 (115)	¾"	QUICK	cULus	148
F1FR QREC						R4862	R4862				16 X 24 (4.9 X 7.3)	8.0 (115)	¾"	QUICK	FM	148
F1FR QREC CCP				R4842							20 X 20 (6.1 X 6.1)	8.0 (115)	¾"	QUICK	cULus	151
F1FR-300 QREC		R5942	R5942								20 X 20 (6.1 X 6.1)	8.0 (115)	¾"	QUICK	cULus	159
F1FR-300 QREC-9						R5962	R5962				14 X 26 (4.3 X 7.9) & 16 X 24 (4.9 X 7.3)	8.0 (115)	¾"	QUICK	cULus	159
F1FR-300 QREC CCP				R5942							20 X 20 (6.1 X 6.1)	8.0 (115)	¾"	QUICK	cULus	167
DH56						RA1564	RA1564	RA1564			28 X 10 (8.5 X 3)	5.6 (80)	½"	QUICK	cULus	015
DH80						RA0362	RA0362	RA0362			28 X 14 (8.5 X 4.3)	8.0 (115)	¾"	QUICK	cULus	003
JL112	R7326	R7216	R7216								20 X 20 (6.1 X 6.1)	11.2 (160)	¾"	QUICK	cULus	172&173
J112	RA7326	RA7216	RA7216								20 X 20 (6.1 X 6.1)	11.2 (160)	¾"	QUICK	cULus	172&173
G6-80									RA4762		18 X 22 (5.5 X 6.7) & 16 X 24 (4.9 X 7.3)	8.0 (115)	¾"	QUICK	cULus	047
NEW G4 XLO QR ECLH/ECOH					R7146						20 X 20 (6.1 X 6.1)	11.2 (160)	¾"	QUICK	cULus	171
SWC								R5962			14 X 26 (4.3 X 7.9)	8.0 (115)	¾"	QUICK	cULus	163
MBEC-14						R6932					14 X 12.5 (4.3 X 3.8)	14.0 (200)	¾"	QUICK	FM	169
N252 EC		RA0842									14 X 14 (4.3 X 4.3)	25.2 (360)	1"	QUICK	FM	008
EXTENDED COVERAGE - ORDINARY HAZARD																
JL112	R7326	R7216	R7216								20 X 20 (6.1 x 6.1) & 14 X 14 (4.3 X 4.3)	11.2 (160)	¾"	STD. & QUICK	cULus	172&173
J112	RA7326	RA7216	RA7216								20 X 20 (6.1 x 6.1) & 14 X 14 (4.3 X 4.3)	11.2 (160)	¾"	STD. & QUICK	cULus	172&173
GFR VELO-ECOH Upright	R6553										20 X 20 (6.1 X 6.1)	14.0 (200)	¾"	STD.	cULus	165
GFR VELO-ECOH Pendent		R6043	R6043								20 X 20 (6.1 X 6.1)	14.0 (200)	¾"	STD.	cULus	160
NEW G4 XLO QR ECLH/ECOH					R7146						20 X 20 (6.1 X 6.1)	11.2 (160)	¾"	QUICK	cULus	171
MBEC-14						R6932					14 X 12.5 (4.3 X 3.8)	14.0 (200)	¾"	QUICK	FM	169
N252 EC		RA0842									14 X 14 (4.3 X 4.3)	25.2 (360)	1"	QUICK	FM	008
EXTENDED COVERAGE - EXTRA HAZARD																
MBEC-14						R6932					14 X 12.5 (4.3 X 3.8)	14.0 (200)	¾"	QUICK	FM	169
N252 EC		RA0842	RA0842								14 X 14 (4.3 X 4.3)	25.2 (360)	1"	STD.	cULus	008
N252 EC		RA0842									14 X 14 (4.3 X 4.3)	25.2 (360)	1"	QUICK	FM	008
RESIDENTIAL																
F1RES 30		R3511	R3511	R3511							16 X 16 (4.9 X 4.9)	3.0 (43.2)	½"	FAST	cULus	135
F1RES 30 LL		RA3311	RA3311	RA3311							16 X 16 (4.9 X 4.9)	3.0 (43.2)	½"	FAST	cULus, LL	033
F1RES 49		R3516	R3516	R3516							20 X 20 (6.1 X 6.1)	4.9 (70.6)	½"	FAST	cULus	135
F1RES 49 LL		RA3316	RA3316	RA3316							20 X 20 (6.1 X 6.1)	4.9 (70.6)	½"	FAST	cULus, LL	033
F1RES 44						R3531	R3531	R3531			16 X 20 (4.9 X 6.1)	4.4 (63)	½"	FAST	cULus	135
F1RES 44 LL						RA3331	RA3331	RA3331			16 X 20 (4.9 X 6.1)	4.4 (63)	½"	FAST	cULus, LL	033
F1RES 58		R3513	R3513	R3513		R3533	R3533				20 X 20 (6.1 X 6.1)	5.8 (83.5)	½"	FAST	cULus	135
F1RES 58 LL		RA3313	RA3313	RA3313		RA3333	RA3333				20 X 20 (6.1 X 6.1)	5.8 (83.5)	½"	FAST	cULus, LL	033
F1RES 58 HSWX						RA3533	RA3533				14 X 26 (4.3 X 7.9)	5.8 (83.5)	½"	FAST	cULus	135
F1RES 76		R7618	R7618	R7618							20 X 20 (6.1 X 6.1)	7.6 (109)	¾"	FAST	cULus	135
KRES 58 HSWX						RA3593	RA3593				14 X 26 (4.3 X 7.9)	5.8 (83.5)	½"	FAST	cULus	135
RFC30					RA0611						14 X 14 (4.3 X 4.3)	3.0 (43.2)	½"	FAST	cULus	006
RFC30 LL					RA3211						14 X 14 (4.3 X 4.3)	3.0 (43.2)	½"	FAST	cULus, LL	032
RFC43, RFC49					RA061X						20 X 20 (6.1 X 6.1)	4.3 (62), 4.9 (70.6)	½"	FAST	cULus	006
RFC43 LL, RFC49 LL					RA321X						20 X 20 (6.1 X 6.1)	4.3 (62)	½"	FAST	cULus, LL	032
NEW RFC58					RA0613						20 X 20 (6.1 X 6.1)	5.8 (84)	½"	FAST	cULus	006
NEW RFS42									RA4835		16 X 20 (4.9 X 6.1)	4.2 (60)	½"	FAST	cULus	048
STORAGE - CMDA																
GL 112	R3226	R3216									★	11.2 (160)	¾"	QUICK	FM	132
G XLO	R2921	R2916									★	11.2 (160)	½", ¾"	STD.	cULus, FM	129
GVELO		R4613									★	14.0 (200)	¾"	STD.	cULus, FM	146
J168	RA1124										★	16.8 (240)	¾"	STD.	cULus, FM	011
N252 EC		RA0842	RA0842								14 X 14 (4.3 X 4.3)	25.2 (360)	1"	STD.	cULus	008
N252 EC		RA0842									14 X 14 (4.3 X 4.3)	25.2 (360)	1"	QUICK	FM	008
STORAGE - INTERMEDIATE LEVEL																
F1FR56-INT. LEVEL	RA3195	RA1414									★	5.6 (80)	½"	QUICK	cULus, FM	031
F156-INT. LEVEL	RA3125	RA1314									★	5.6 (80)	½"	STD.	cULus, FM	031
F1FR-INT. LEVEL	R7092	R3612									★	8.0 (115)	¾"	QUICK	cULus, FM	170
F1-INT. LEVEL	R7022	R1712									★	8.0 (115)	¾"	STD.	cULus, FM	170
KFR56 INT. LEVEL	RA3624	RA3614									★	5.6 (80)	½"	QUICK	cULus	042
KFR56 INT. LEVEL		RA3614									★	5.6 (80)	½"	QUICK	FM	042
G-INT. LEVEL	R142X	R101X									★	5.6 (80), 8.0 (115)	½", ¾"	STD.	cULus, FM	114
GFR-INT. LEVEL	R319X	R311X									★	5.6 (80), 8.0 (115)	½", ¾"	QUICK	cULus	131
GL 112	R3226	R3216									★	11.2 (160)	¾"	QUICK	FM	132
G XLO	R2921	R2916									★	11.2 (160)	½", ¾"	STD.	cULus, FM	129
STORAGE - CMSA																
HL-22		RA1011									★	22.4 (320)	1"	FAST	cULus	010
N252 EC		RA0842									14 X 14 (4.3 X 4.3)	25.2 (360)	1"	QUICK	FM	008
STORAGE - ESFR																
JL-14		RA1812									★	14.0 (200)	¾"	FAST	cULus, FM, LPCB, VdS	018
JL-17		RA1914									★	16.8 (240)	¾"	FAST	cULus, FM, LPCB, VdS	019
HL-22		RA1011									★	22.4 (320)	1"	FAST	cULus, FM, LPCB, VdS	010
N25 ESFR		RA0912									★	25.2 (360)	1"	FAST	FM	909
SPECIAL																
KFR-CCS 56	RA4454										16 X 16 (4.9 X 4.9)	5.6 (80)	½"	QUICK	cULus	044
NEW DD56 Attic Sprinkler	RA56X4										6 X 40 (1.8 X 12)	5.6 (80)	½"	QUICK	cULus	056
NEW DD80 Attic Sprinkler	RA56X2										6 X 66 (1.8 X 20), 5 X 70 (1.5 X 21)	8.0 (115)	¾"	QUICK	cULus	056
NEW DS56 Attic Sprinkler	RA5625										6 X 40 (1.8 X 12)	5.6 (80)	½"	QUICK	cULus	056
NEW GP56 Attic Sprinkler	RA5695										10 X 15 (3.0 X 4.6)	5.6 (80)	½"	QUICK	cULus	056
NEW LT56 Series		RA5814	RA5814	RA5814	RA5994						28 X 10 (8.5 X 3)	5.6 (80)	½"	QUICK	cULus	058
XL Flush Institutional		R1314				R1334					★	5.6 (80)	½"	QUICK	cULus	113
XL Flush EC Institutional		R1344				R1364					16 X 16 (4.9 X 4.9)	5.6 (80)	½"	QUICK	cULus	113
F4FR-NF					RA0212						★	5.6 (80)	½"	QUICK	cULus	002
MBEC-14						R6932					14 X 12.5 (4.3 X 3.8)	14.0 (200)	¾"	STD.	cULus, FM	169
F1FR-FS Series Flat Spray		RA231X									12 X 12 (3.7 X 3.7)	5.6 (80), 4.2 (60)	½"	QUICK	VdS, CE	022
F1FR-FS LO Flat Spray		RA3712									10 X 10 (3 X 3)	8.0 (115)	½"	QUICK	VdS, CE	037
F1S5-FS Series Flat Spray		RA231X									12 X 12 (3.7 X 3.7)	5.6 (80), 4.2 (60)	½"	SPECIAL	VdS, CE	023
F1S5 Series Standard Spray	RA2414	RA2414	RA2414								12 X 12 (3.7 X 3.7)	5.6 (80), 8.0 (115)	½"	SPECIAL	VdS, CE	024
DRY																
F3-56		R5314	R5314	R5314		R5334	R5334				★	5.6 (80)	1", ¾"	STD.	cULus, FM, CE	153
F3QR56		R5714	R5714	R5714		R5734	R5734				★	5.6 (80)	1", ¾"	QUICK	cULus	157
F3QR56		R5714	R5714			R5734	R5734				★	5.6 (80)	1", ¾"	QUICK	FM	157
NEW F3-80		RA6012	RA6012	RA6012		RA6032	RA6032				★	8.0 (115)	1"	STD.	cULus	060
NEW F3QR80		RA6112	RA6112	RA6112		RA6132	RA6132				★	8.0 (115)	1"	QUICK	cULus	061
NEW G5-56 Dry					RA5114						★	5.6 (80)	1"	QUICK	cULus	051
NEW G5-56 Dry					RA5114						★	5.6 (80)	1"	STD.	FM	051
DH56 Dry						RA1664	RA1664	RA1664			28 X 10 (8.5 X 3)	5.6 (80)	1"	QUICK	cULus	016
NEW DH80 Dry						RA5532	RA5532	RA5532			28 X 14 (8.5 X 4.3)	8.0 (115)	1"	QUICK	cULus	055
NEW F3RES 44 Dry						RA5231	RA5231				16 X 20 (4.9 X 6.1)	4.4 (63)	1", ¾"	FAST	cULus	052
CONVENTIONAL																
F1	RA1375	RA1375									★	5.6 (80)	½"	STD.	LPCB,VdS, CE	013
F1 LO	R1772	R1772									★	8.0 (115)	¾"	STD.	LPCB, CE	117
G	R107X	R107X									★	4.2 (60), 5.6 (80), 8.0 (115)	½", ¾"	STD.	LPCB, VdS, CE	110
F1FR	RA1475	RA1475									★	5.6 (80)	½"	QUICK	LPCB,VdS, CE	014
F1FR LO	R3672	R3672									★	8.0 (115)	¾"	QUICK	LPCB, CE	136