Global Fire Sprinkler Application Chart

tyco

STANDARD COVERAGE

MODEL (1)	SPRINKLER ID NUMBER (SIN)	TYPE	RESPONSE (4)	HAZARD (1,3)	K FACTOR	ELEMENT	THREAD SIZE	DATA SHEET	TEMPERATURE° F (1)	MAX. PRESSURE (PSI)	MAX. SPACING (1)	MIN. SPACING	SPRINKLER FINISH (1,2)	APPROVALS (1)	WRENCH	RECESSED WRENCH	RECESSED ESCUTCHEON AVAIL. (1)
TY-L	TY3111	Upright	SR	All	5.6	Solder	½"	TFP110	165, 212, 280	175	Per NFPA	6'-0"	B, C, W, L, WOL	UL, C-UL, FM, LPCB	W9		
TY-L	TY3211	Pendent	SR	All	5.6	Solder	½"	TFP110	165, 212, 280	175	Per NFPA	6'-0"	B, C, W, L, WOL	UL, C-UL, FM, LPCB	W9	W10	YES
TY-L	TY3311	Horizontal Sidewall	SR	LH/OH	5.6	Solder	½"	TFP120	165, 212, 280, Open	175	Per NFPA	6'-0"	B, C, W, L, WOL	UL, C-UL, FM	W9		
TY-L	TY4111	Upright	SR	All	8.0	Solder	¾"	TFP110	165, 212, 280	175	Per NFPA	6'-0"	B, C, W, L, WOL	UL, C-UL, FM, LPCB	W9		
TY-L	TY4211	Pendent	SR	All	8.0	Solder	¾"	TFP110	165, 212, 280	175	Per NFPA	6'-0"	B, C, W, L, WOL	UL, C-UL, FM, LPCB	W9	W10	YES
TY-L	TY4811	Upright	SR	All	8.0	Solder	½"	TFP110	165, 212, 280	175	Per NFPA	6'-0"	B, C, W, L, WOL	UL, C-UL, FM, LPCB	W9		
TY-L	TY4911	Pendent	SR	All	8.0	Solder	½"	TFP110	165, 212, 280	175	Per NFPA	6'-0"	B, C, W, L, WOL	UL, C-UL, FM, LPCB	W9	W10	YES
TY-FRL	TY1121	Upright	QR	LH	2.8	Solder	½"	TFP130	165, 212	175	Per NFPA	6'-0"	B, C	UL, C-UL, NYC	W9		
TY-FRL	TY1221	Pendent	QR	LH	2.8	Solder	½"	TFP130	165, 212	175	Per NFPA	6'-0"	B, C	UL, C-UL, NYC	W9	W12	YES
TY-FRL	TY3121	Upright	QR	LH/OH	5.6	Solder	½"	TFP130	165, 212	175	Per NFPA	6'-0"	B, C	UL, C-UL, FM, NYC, LPCB	W9		
TY-FRL	TY3221	Pendent	QR	LH/OH	5.6	Solder	½"	TFP130	165, 212	175	Per NFPA	6'-0"	B, C	UL, C-UL, FM, NYC, LPCB	W9	W12	YES
TY-FRL	TY3321	Horizontal Sidewall	QR	LH/OH	5.6	Solder	½"	TFP140	165, 212	175	Per NFPA	6'-0"	B, C	UL, C-UL, FM, NYC	W9		
TY-FRL	TY4121	Upright	QR	LH/OH	8.0	Solder	¾"	TFP130	165, 212	175	Per NFPA	6'-0"	B, C	UL, C-UL, FM, NYC	W9		
TY-FRL	TY4221	Pendent	QR	LH/OH	8.0	Solder	¾"	TFP130	165, 212	175	Per NFPA	6'-0"	B, C	UL, C-UL, FM, NYC	W9		
TY-B	TY1151	Upright	SR	All	2.8	5 mm Bulb	½"	TFP151	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	B, C, SW, W, L, WOL	UL, C-UL, FM	W6		
TY-B	TY1251	Pendent	SR	All	2.8	5 mm Bulb	½"	TFP151	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	B, C, SW, W, L, WOL	UL, C-UL, FM	W6		
TY-B	TY315	Upright	SR	All	5.6	5 mm Bulb	½"	TFP152	135, 155, 175, 200, 286, 360, Open	250	Per NFPA	6'-0"	B, C, SW, JB	UL, C-UL, FM, LPCB, VdS, CE	W6		
TY-B	TY325	Pendent	SR	All	5.6	5 mm Bulb	½"	TFP152	135, 155, 175, 200, 286, 360, Open	250	Per NFPA	6'-0"	B, C, SW, JB	UL, C-UL, FM, LPCB, VdS, CE	W6	W7	YES
TY-B	TY3451	Vertical Sidewall	SR	LH/OH	5.6	5 mm Bulb	½"	TFP161	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	B, C, SW, W, L, WOL, JB	UL, C-UL, FM, LPCB, NYC	W6		
TY-B	TY3351	Horizontal Sidewall	SR	LH/OH	5.6	5 mm Bulb	½"	TFP161	135, 155, 175, 200, 286, 360, Open	250	Per NFPA	6'-0"	B, C, SW, W, L, WOL, JB	UL, C-UL, FM, LPCB, NYC	W6	W7	YES
TY-B	TY4851	Upright	SR	All	8.0	5 mm Bulb	½"	TFP151	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	B, C, SW	UL, C-UL, FM, LPCB, NYC, VdS	W6		
TY-B	TY4951	Pendent	SR	All	8.0	5 mm Bulb	½"	TFP151	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	B, C, SW	UL, C-UL, FM, LPCB, NYC, VdS	W6		
TY-B	TY4151	Upright	SR	All	8.0	5 mm Bulb	¾"	TFP151	135, 155, 175, 200, 286, 360, Open	175	Per NFPA	6'-0"	B, C, SW, W, L, WOL, JB	UL, C-UL, FM, LPCB, NYC, VdS	W6		
TY-B	TY4251	Pendent	SR	All	8.0	5 mm Bulb	¾"	TFP151	135, 155, 175, 200, 286, 360, Open	175	Per NFPA	6'-0"	B, C, SW, W, L, WOL, JB	UL, C-UL, FM, LPCB, NYC, VdS	W6	W7	YES
TY-FRB	TY1131	Upright	QR	LH	2.8	3 mm Bulb	½"	TFP171	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	B, C, SW, JB	UL, C-UL, FM, NYC	W6		
TY-FRB	TY1231	Pendent	QR	LH	2.8	3 mm Bulb	½"	TFP171	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	B, C, SW, JB	UL, C-UL, FM, NYC	W6	W7	YES
TY-FRB	TY2131	Upright	QR	LH	4.2	3 mm Bulb	½"	TFP171	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	B, C, SW, JB	UL, C-UL	W6		
TY-FRB	TY2231	Pendent	QR	LH	4.2	3 mm Bulb	½"	TFP171	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	B, C, SW, JB	UL, C-UL	W6	W7	YES
TY-FRB	TY313	Upright	QR	LH/OH	5.6	3 mm Bulb	½"	TFP172	135, 155, 175, 200, 286	250	Per NFPA	6'-0"	B, C, SW, JB	UL, C-UL, FM, LPCB, VdS, CE	W6		
TY-FRB	TY323	Pendent	QR	LH/OH	5.6	3 mm Bulb	½"	TFP172	135, 155, 175, 200, 286	250	Per NFPA	6'-0"	B, C, SW, JB	UL, C-UL, FM, LPCB, VdS, CE	W6	W7	YES
TY-FRB	TY3431	Vertical Sidewall	QR	LH/OH	5.6	3 mm Bulb	½"	TFP176	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	B, C, SW, L, JB	UL, C-UL, FM, NYC, LPCB	W6		
TY-FRB	TY3331	Horizontal Sidewall	QR	LH/OH	5.6	3 mm Bulb	½"	TFP176	135, 155, 175, 200, 286	250	Per NFPA	6'-0"	B, C, SW, L, JB	UL, C-UL, FM, NYC, LPCB	W6	W7	YES
TY-FRB	TY4831	Upright	QR	LH/OH	8.0	3 mm Bulb	½"	TFP171	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	B, C, SW, L, JB	UL, C-UL, NYC, LPCB, VdS	W6		
TY-FRB	TY4931	Pendent	QR	LH/OH	8.0	3 mm Bulb	½"	TFP171	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	B, C, SW, L, JB	UL, C-UL, NYC, LPCB, VdS	W6	W7	YES
TY-FRB	TY4131	Upright	QR	LH/OH	8.0	3 mm Bulb	¾"	TFP171	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	B, C, SW, L, JB	UL, C-UL, FM, NYC, LPCB, VdS	W6		
TY-FRB	TY4231	Pendent	QR	LH/OH	8.0	3 mm Bulb	¾"	TFP171	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	B, C, SW, L, JB	UL, C-UL, FM, NYC, LPCB, VdS	W6	W7	YES
RFII	TY3531	Concealed Pendent	QR	LH/OH	5.6	3 mm Bulb	½"	TFP181	155, 200	175	Per NFPA	6'-0"	B, C, GW, SW, JB	UL, C-UL, NYC, VdS, LPCB	RFII		
RFII	TY3551	Concealed Pendent	SR	All	5.6	5 mm Bulb	½"	TFP181	155, 200	175	Per NFPA	6'-0"	B, C, GW, SW, JB	UL, C-UL, FM, NYC, LPCB	RFII		
ILLUSION	TY5521	Concealed Pendent	QR	Special	11.2	Solder	¾"	TFP184	160, 212	175	18' x 18'	8'-0"	B, C, GW, SW	UL, C-UL	W18		
TY-QRF	TY3261	Flush Pendent	QR	LH/OH	5.6	Solder	½"	TFP190	162	175	Per NFPA	6'-0"	C, SW	UL, ULC	4947, 4948		

EXTENDED COVERAGE

MODEL (1)	SPRINKLER ID NUMBER (SIN)	TYPE	RESPONSE (4)	HAZARD (1,3)	K FACTOR	ELEMENT	THREAD SIZE	DATA SHEET	TEMPERATURE° F (1)	MAX. PRESSURE (PSI)	MAX. SPACING (1)	MIN. SPACING	SPRINKLER FINISH (1,2)	APPROVALS (1)	WRENCH	RECESSED WRENCH	RECESSED ESCUTCHEON AVAIL. (1)
EC-25	TY9128	Upright	QR/SR	CMDA, CMSA	25.2	Solder	1"	TFP213	165, 212	175	14' x 14'	8'-0"	B	UL, C-UL, FM, NYC	W1		
EC-14	TY6137	Upright	QR/SR	LH/OH	14.0	3 mm Bulb	¾"	TFP220	135, 155, 175, 200, 286, Open	175	20' x 20'	8'-0"	B, C, SW, L, JB	UL, C-UL, FM, NYC	W3		
EC-14	TY6237	Pendent	QR/SR	LH/OH	14.0	3 mm Bulb	¾"	TFP220	135, 155, 175, 200, 286, Open	175	20' x 20'	9'-0"	B, C, SW, L, JB	UL, C-UL, FM, NYC	W3	W22	YES
EC-11	TY5137	Upright	QR/SR	LH/OH	11.2	3 mm Bulb	¾"	TFP220	135, 155, 175, 200, 286, Open	175	20' x 20'	8'-0"	B, C, SW, L, JB	UL, C-UL, NYC	W3		
EC-11	TY5237	Pendent	QR/SR	LH/OH	11.2	3 mm Bulb	¾"	TFP220	135, 155, 175, 200, 286, Open	175	20' x 20'	9'-0"	B, C, SW, L, JB	UL, C-UL, FM, NYC	W3	W22	YES
EC-8	TY4232	Pendent	QR/SR	LH	8.0	3 mm Bulb	¾"	TFP223	135, 155	175	20' x 20'	8'-0"	B, C, SW	UL, C-UL, FM, NYC	W3	W23	YES
EC-5	TY3232	Pendent	QR	LH	5.6	3 mm Bulb	½"	TFP228	135, 155	175	20' x 20'	8'-0"	B, C, SW	UL, C-UL, FM, NYC	W6	W7	YES
EC-5	TY3302	Horizontal Sidewall	QR/SR	LH	5.6	3 mm Bulb	½"	TFP298	135, 155, 200	175	16' x 24'	8'-0"	B, C, SW	UL, C-UL, FM, NYC	W6	W7	YES
TY-FRB	TY3332	Horizontal Sidewall	QR/SR	LH	5.6	3 mm Bulb	½"	TFP296	135, 155, 175	250	16' x 22'	10'-0"	B, C, PW, SW, JB	UL, C-UL, FM, NYC	W6	W7	YES
TY-FRB	TY4332	Horizontal Sidewall	QR/SR	LH	8.0	3 mm Bulb	¾"	TFP296	135, 155, 175	250	16' x 24'	10'-0"	B, C, PW, SW, JB	UL, C-UL, FM, NYC	W6	W7	YES
SW-20 ECOH	TY5332	Horizontal Sidewall	SR	OH	11.2	3 mm Bulb	¾"	TFP230	155, 200	175	16' x 20'	8'-0"	B, C, SW	UL, C-UL, NYC	W3		
SW-24 ECOH	TY5337	Horizontal Sidewall	SR	OH	11.2	3 mm Bulb	¾"	TFP230	200	175	16' x 24'	8'-0"	B, C, SW	UL, C-ULL, NYC	W3		
TY-FRL	TY3322	Horizontal Sidewall	QR/SR	LH	5.6	Solder	½"	TFP280	165	175	16' x 20'	8'-0"	B, C	UL, C-UL, FM, NYC	W9		
TY-FRL	TY4322	Horizontal Sidewall	QR/SR	LH	8.0	Solder	¾"	TFP280	165	175	16' x 24'	10'-0"	B, C	UL, C-UL, FM, NYC	W9		
CHEC	TY4332	Concealed Horizontal Sidewall	QR	LH	8.0	3 mm Bulb	¾"	TFP265	155	175	16' x 16'	10'-0"	C, SW	UL, C-UL, NYC	W7		
ELOC	TY5522	Concealed Pendent	QR/SR	LH	11.2	Solder	¾"	TFP250	160, 212	175	20' x 20'	8'-0"	B, C, GW, SW	UL, C-UL, NYC	W18		
RFII	TY3532	Concealed Pendent	QR	LH	5.6	3 mm Bulb	½"	TFP260	155, 200	175	20' x 20'	8'-0"	B, C, GW, SW, JB	UL, C-UL, NYC	RFII		
RFIII	TY4522	Concealed Horizontal Sidewall	QR	LH	8.0	Link Type	¾"	TFP270	160	175	18' x 22'	8'-0"	B, C, GW, SW, JB †	UL, C-UL	W37		

STORAGE

MODEL (1)	SPRINKLER ID NUMBER (SIN)	TYPE	RESPONSE (4)	HAZARD (1,3)	K FACTOR	ELEMENT	THREAD SIZE	DATA SHEET	TEMPERATURE° F (1)	MAX. PRESSURE (PSI)	MAX. SPACING (1)	MIN. SPACING	SPRINKLER FINISH (1,2)	APPROVALS (1)	WRENCH	RECESSED WRENCH	RECESSED ESCUTCHEON AVAIL. (1)
ESFR-25	TY9226	ESFR Pendent	FR	Storage	25.2	Solder	1"	TFP312	165, 212	175	Per NFPA	8'-0"	B	UL, C-UL, FM, NYC, LPCB, VdS, CE	W1		
EC-25	TY9128	Upright	SR	All	25.2	Solder	1"	TFP213	165, 212	175	14' x 14'	8'-0"	B	UL, C-UL, FM, NYC	W1		
ESFR-22	TY8223	ESFR Pendent	FR	Storage	22.4	Solder	1"	TFP321	165,212	175	12'	8'-0"	B	UL, C-UL, FM	W1		
ESFR-17	TY7126	ESFR Upright	FR	Storage	16.8	Solder	¾"	TFP316	165, 212	175	12'	8'-0"	B	FM, CE	W21		
ESFR-17	TY7223	ESFR Pendent	FR	Storage	16.8	Solder	¾"	TFP317	165, 212	175	12'	8'-0"	B	UL, C-UL, FM	W35		
ESFR-17	TY7226	ESFR Pendent	FR	Storage	16.8	Solder	¾"	TFP315	165, 214	175	12'	8'-0"	B	FM, VdS, LPCB, NYC, CE	W1		
ESFR-17	TY7229	ESFR Dry-Type Pendent	FR	Storage	16.8	Solder	1-¼"	TFP320	165, 212	175	12'	8'-0"	B	UL, FM	W26		
ESFR-14	TY6236	ESFR Pendent	FR	Storage	14.0	3 mm Bulb	¾"	TFP319	155, 200	175	12'	8'-0"	B	UL, C-UL, FM	W34		
Ultra K17	TY7153	Upright	SR	Storage	16.8	5 mm Bulb	¾"	TFP330	155, 200	175	Per NFPA	8'-0"	B	UL, C-UL, FM, NYC	W8		
K17-231	TY7151	Upright	SR	Storage	16.8	5 mm Bulb	¾"	TFP332	155, 200, 286	175	Per NFPA	6'-0"	B	UL, C-UL, FM, NYC	W8		
K17-231	TY7251	Pendent	SR	Storage	16.8	5 mm Bulb	¾"	TFP332	155, 200, 286	175	Per NFPA	6'-0"	B	UL, C-UL, NYC	W8		
LD	TY5153	Large Drop Upright	SR	Storage	11.2	5 mm Bulb	¾"	TFP335	155, 200, 286	175	Per NFPA	8'-0"	B	UL, C-UL, NYC	W3		
ELO-231	TY5811	Upright	SR	Storage	11.2	Solder	½"	TFP340	165, 212, 286	175	Per NFPA	6'-0"	B, C, L, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231	TY5111	Upright	SR	Storage	11.2	Solder	¾"	TFP340	165, 212, 286	175	Per NFPA	6'-0"	B, C, L, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231	TY5211	Pendent	SR	Storage	11.2	Solder	¾"	TFP340	165, 212, 286	175	Per NFPA	6'-0"	B, C, L, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231B	TY5851	Upright	SR	Storage	11.2	5 mm Bulb	½"	TFP342	155, 200, 286	175	Per NFPA	6'-0"	B, C, L, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231B	TY5151	Upright	SR	Storage	11.2	5 mm Bulb	¾"	TFP342	155, 200, 286	175	Per NFPA	6'-0"	B, C, L, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231B	TY5251	Pendent	SR	Storage	11.2	5 mm Bulb	¾"	TFP342	155, 200, 286	175	Per NFPA	6'-0"	B, C, L, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231FRB	TY5131	Upright	QR	Storage	11.2	3 mm Bulb	¾"	TFP344	155, 200, 286	175	Per NFPA	6'-0"	B, C	UL, C-UL, FM, NYC, LPCB, VdS	W3		
ELO-231FRB	TY5231	Pendent	QR	Storage	11.2	3 mm Bulb	¾"	TFP344	155, 200, 286	175	Per NFPA	6'-0"	B, C	UL, C-UL, FM, NYC, LPCB, VdS	W3		
TY-L	TY3113	Intermediate Level Upright	SR	Storage	5.6	Solder	½"	TFP350	165, 212, 280	175	Per NFPA	6'-0"	B	UL, C-UL, FM	W9		
TY-L	TY3211	Intermediate Level Pendent	SR	Storage	5.6	Solder	½"	TFP350	165, 212, 280	175	Per NFPA	6'-0"	B	UL, C-UL, FM	W9		
TY-L	TY4113	Intermediate Level Upright	SR	Storage	8.0	Solder	¾"	TFP350	165, 212, 280	175	Per NFPA	6'-0"	B	UL, C-UL, FM	W9		
TY-L	TY4211	Intermediate Level Pendent	SR	Storage	8.0	Solder	¾"	TFP350	165, 212, 280	175	Per NFPA	6'-0"	B	UL, C-UL, FM	W9		
TY-FRL	TY3123	Intermediate Level Upright	QR	Storage	5.6	Solder	½"	TFP355	165	175	Per NFPA	6'-0"	B, C	UL, C-UL, FM, NYC	W9		
TY-FRL	TY3221	Intermediate Level Pendent	QR	Storage	5.6	Solder	½"	TFP355	165	175	Per NFPA	6'-0"	B, C	UL, C-UL, FM, NYC	W9		
TY-FRL	TY4123	Intermediate Level Upright	QR	Storage	8.0	Solder	¾"	TFP355	165	175	Per NFPA	6'-0"	B, C	UL, C-UL, FM, NYC	W9		
TY-FRL	TY4221	Intermediate Level Pendent	QR	Storage	8.0	Solder	¾"	TFP355	165	175	Per NFPA	6'-0"	B, C	UL, C-UL, FM, NYC	W9		
TY-B	TY3153	Intermediate Level Upright	SR	Storage	5.6	5 mm Bulb	½"	TFP351	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	B, L	UL, C-UL, FM, NYC	W6		
TY-B	TY3251	Intermediate Level Pendent	SR	Storage	5.6	5 mm Bulb	½"	TFP351	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	B, L, W, WOL	UL, C-UL, FM, NYC	W6		
TY-B	TY315	Intermediate Level Upright	SR	Storage	5.6	5 mm Bulb	½"	TFP352	135, 155, 175, 200, 286, 360	250	Per NFPA	6'-0"	B	UL, C-UL, FM	W6		
TY-B	TY325	Intermediate Level Pendent	SR	Storage	5.6	5 mm Bulb	½"	TFP352	135, 155, 175, 200, 286, 360	250	Per NFPA	6'-0"	B	UL, C-UL, FM	W6		
TY-B	TY4153	Intermediate Level Upright	SR	Storage	8.0	5 mm Bulb	¾"	TFP351	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	B, L	UL, C-UL, FM, NYC	W6		
TY-B	TY4251	Intermediate Level Pendent	SR	Storage	8.0	5 mm Bulb	¾"	TFP351	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	B, L, W, WOL	UL, C-UL, FM, NYC	W6		
TY-FRB	TY3133	Intermediate Level Upright	QR	Storage	5.6	3 mm Bulb	½"	TFP356	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	B, L	UL, C-UL, FM, NYC	W6		
TY-FRB	TY3231	Intermediate Level Pendent	QR	Storage	5.6	3 mm Bulb	½"	TFP356	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	B, L	UL, C-UL, FM, NYC	W6		
TY-FRB	TY313	Intermediate Level Upright	QR	Storage	5.6	3 mm Bulb	½"	TFP357	135, 155, 175, 200, 286	250	Per NFPA	6'-0"	B	UL, C-UL, FM	W6		
TY-FRB	TY323	Intermediate Level Pendent	QR	Storage	5.6	3 mm Bulb	½"	TFP357	135, 155, 175, 200, 286	250	Per NFPA	6'-0"	B	UL, C-UL, FM	W6		
TY-FRB	TY4133	Intermediate Level Upright	QR	Storage	8.0	3 mm Bulb	¾"	TFP356	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	B, L	UL, C-UL, FM, NYC	W6		
TY-FRB	TY4231	Intermediate Level Pendent	QR	Storage	8.0	3 mm Bulb	¾"	TFP356	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	B, L	UL, C-UL, FM, NYC	W6		
ELO-231	TY5811	Intermediate Level Upright	SR	Storage	11.2	Solder	½"	TFP340	165, 212, 286	175	Per NFPA	6'-0"	B, C, L, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231	TY5111	Intermediate Level Upright	SR	Storage	11.2	Solder	¾"	TFP340	165, 212, 286	175	Per NFPA	6'-0"	B, C, L, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231	TY5211	Intermediate Level Pendent	SR	Storage	11.2	Solder	¾"	TFP340	165, 212, 286	175	Per NFPA	6'-0"	B, C, L, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231B	TY5851	Intermediate Level Upright	SR	Storage	11.2	5 mm Bulb	½"	TFP342	155, 200, 286	175	Per NFPA	6'-0"	B, C, L, SW, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231B	TY5151	Intermediate Level Upright	SR	Storage	11.2	5 mm Bulb	¾"	TFP342	155, 200, 286	175	Per NFPA	6'-0"	B, C, L, SW, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231B	TY5251	Intermediate Level Pendent	SR	Storage	11.2	5 mm Bulb	¾"	TFP342	155, 200, 286	175	Per NFPA	6'-0"	B, C, L, SW, W, WOL	UL, C-UL, FM, NYC	W3		
ELO-231 FRB	TY5131	Intermediate Level Upright	QR	Storage	11.2	3 mm Bulb	¾"	TFP344	155, 200, 286	175	Per NFPA	6'-0"	B, C	UL, C-UL, FM, NYC	W3		
ELO-231 FRB	TY5231	Intermediate Level Pendent	QR	Storage	11.2	3 mm Bulb	¾"	TFP344	155, 200, 286	175	Per NFPA	6'-0"	B, C	UL, C-UL, FM, NYC	W3		

RESIDENTIAL

MODEL (1)	SPRINKLER ID NUMBER (SIN)	TYPE	RESPONSE (4)	HAZARD (1,3)	K FACTOR	ELEMENT	THREAD SIZE	DATA SHEET	TEMPERATURE° F (1)	MAX. PRESSURE (PSI)	MAX. SPACING (1)	MIN. SPACING	SPRINKLER FINISH (1,2)	APPROVALS (1)	WRENCH	RECESSED WRENCH	RECESSED ESCUTCHEON AVAIL. (1)
LFII	TY1234	Pendent	FR	Wet	3.0	3 mm Bulb	½"	TFP402	155, 175	175	18' x 18'	8'-0"	B, C, SW	UL, C-UL, NSF/ANSI 61	W6	W7	YES
LFII	TY2234	Pendent	FR	Wet or Dry	4.9	3 mm Bulb	½"	TFP400	155, 175	175	20' x 20'	8'-0"	B, C, SW	UL, C-UL, NSF/ANSI 61	W6	W7	YES
LFII	TY3934	Pendent	FR	Wet	5.8	3 mm Bulb	½"	TFP401	155, 175	175	20' x 20'	8'-0"	B, C, SW, JB	UL, C-UL, NSF/ANSI 61	W6	W7	YES
LFII	TY4234	NFPA 13 Opt. - Pendent/Concealed	FR	Wet	6.9	3 mm Bulb	¾"	TFP408	155, 175	175	20' x 20'	8'-0"	B, C, SW	UL, C-UL, FM, NYC, NSF/ANSI 61	W6	W7	YES
LFII	TY1334	Horizontal Sidewall	FR	Wet or Dry	4.2	3 mm Bulb	½"	TFP410	155, 175	175	16' x 20'	8'-0"	B, C, SW	UL, C-UL, NYC, NSF/ANSI 61	W6	W7	YES
LFII	TY2334	Horizontal Sidewall	FR	Wet	4.4	3 mm Bulb	½"	TFP412	155, 175	175	18' x 20'	8'-0"	B, C, SW	UL, C-UL, NSF/ANSI 61	W6	W7	YES
LFII	TY3334	Horizontal Sidewall	FR	Wet	5.6	3 mm Bulb	½"	TFP415	155, 175	175	16' x 20'	8'-0"	B, C, SW	UL, C-UL, NSF/ANSI 61	W6	W7	YES
LFII	TY4334	Horizontal Sidewall	FR	Wet	5.8	3 mm Bulb	½"	TFP417	155, 175	175	16' x 22'	8'-0"	B, C, SW	UL, C-UL, FM, NSF/ANSI 61	W6	W7	YES
LFII	TY3596	Flat Plate Concealed Pendent	FR	Wet or Dry	4.9	Solder	½"	TFP442	160	175	20' x 20'	8'-0"	B, C, GW, SW, JB †	UL, ULC, NYC, NSF/ANSI 61	W18		
LFII	TY2234	Domed-Plate Concealed Pendent	FR	Wet or Dry	4.9	3 mm Bulb	½"	TFP450	155	175	20' x 20'	8'-0"	C, SW	UL, C-UL, NYC	W7		
LFII	TY2284	Flush Pendent	FR	Wet or Dry	4.2	Solder	½"	TFP420	162	175	20' x 20'	8'-0"	AB, C, JB, SW	UL, C-UL	4947, 4948		
LFII	TY2384	Flush Horizontal Sidewall	FR	Wet	4.2	Solder	½"	TFP425	162	175	16' x 16'	8'-0"	C, JB, SW	UL, C-UL	4949, 4950		
LFII	TY2235	Recessed Pendent, Dry Type	FR	Wet or Dry	4.9	3 mm Bulb	1"	TFP460	155, 175	175	20' x 20'	8'-0"	B, C, SW	UL, NSF/ANSI 61	W7	W7	YES
LFII	TY2335	Horizontal Sidewall, Dry Type	FR	Wet or Dry	4.4	3 mm Bulb	1"	TFP461	155	175	16' x 20'	8'-0"	B, C, SW	UL, NSF/ANSI 61	W6	W7	YES

DRY

MODEL (1)	SPRINKLER ID NUMBER (SIN)	TYPE	RESPONSE (4)	HAZARD (1,3)	K FACTOR	ELEMENT	THREAD SIZE	DATA SHEET	TEMPERATURE° F (1)	MAX. PRESSURE (PSI)	MAX. SPACING (1)	MIN. SPACING	SPRINKLER FINISH (1,2)	APPROVALS (1)	WRENCH	RECESSED WRENCH	RECESSED ESCUTCHEON AVAIL. (1)
DS-1	TY3155	Upright	SR	All	5.6	5 mm Bulb	1"	TFP500	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	B, C, SW	UL, C-UL, FM, NYC, LPCB, CE	Pipe Wrench		
DS-1	TY3255	Pendent	SR	All	5.6	5 mm Bulb	1"	TFP500	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	B, C, SW	UL, C-UL, FM, NYC, LPCB, CE, VdS	Pipe Wrench	W7	YES
DS-1	TY3355	Horizontal Sidewall	SR	LH/OH	5.6	5 mm Bulb	1"	TFP500	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	B, C, SW	UL, C-UL, FM, NYC, LPCB, CE	Pipe Wrench	W7	YES
DS-1	TY3935	Pendent	QR	All	5.6	3 mm Bulb	¾"	TFP510	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	B, C, SW	UL, C-UL	Pipe Wrench	W7	YES
DS-1	TY3735	Horizontal Sidewall	QR	LH/OH	5.6	3 mm Bulb	¾"	TFP510	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	B, C, SW	UL, C-UL	Pipe Wrench	W7	YES
DS-1	TY3135	Upright	QR	All	5.6	3 mm Bulb	1"	TFP510	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	B, C, SW	UL, C-UL, FM, NYC	Pipe Wrench		
DS-1	TY3235	Pendent	QR	All	5.6	3 mm Bulb	1"	TFP510	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	B, C, SW	UL, C-UL, FM, NYC	Pipe Wrench	W7	YES
DS-1	TY3335	Horizontal Sidewall	QR	LH/OH	5.6	3 mm Bulb	1"	TFP510	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	B, C, SW	UL, C-UL, FM, NYC	Pipe Wrench	W7	YES
DS-1	TY3358	EC Horizontal Sidewall	SR	LH	5.6	5 mm Bulb	1"	TFP520	135, 155	175	16' x 20'	14'-0"	B, C, SW	UL, C-UL, NYC	Pipe Wrench	W17	YES
DS-1	TY3338	EC Horizontal Sidewall	QR	LH	5.6	3 mm Bulb	1"	TFP520	135, 155	175	16' x 20'	14'-0"	B, C, SW	UL, C-UL, NYC	Pipe Wrench	W17	YES
DS-1 - Stainless	TY3250	Pendent	SR	All	5.6	5 mm Bulb	1"	TFP560	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	SS	UL, C-UL, LPCB, CE	W7	W7	YES
DS-1 - Stainless	TY3357	Horizontal Sidewall	SR	LH/OH	5.6	5 mm Bulb	1"	TFP560	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	SS	UL, C-UL	W7	W7	YES
DS-1 - Stainless	TY3230	Pendent	QR	All	5.6	3 mm Bulb	1"	TFP560	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	SS	UL, C-UL	W7	W7	YES
DS-1 - Stainless	TY3337	Horizontal Sidewall	QR	LH/OH	5.6	3 mm Bulb	1"	TFP560	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	SS	UL, C-UL	W7	W7	YES
DS-1 - Stainless	TY3339	EC Horizontal Sidewall	QR	LH/OH	5.6	3 mm Bulb	1"	TFP560	135, 155	175	16' x 20'	14'-0"	SS	UL, C-UL	W7	W7	YES
DS-2	TY5255	Pendent	SR	All	11.2	5 mm Bulb	1"	TFP530	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	B, C, SW	UL, C-UL, NYC	Pipe Wrench	W17	YES
DS-2	TY5235	Pendent	QR	LH/OH	11.2	3 mm Bulb	1"	TFP530	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	B, C, SW	UL, C-UL, NYC	Pipe Wrench	W17	YES
DS-2	TY5238	ELO, EC Pendent	QR/SR	LH/OH	11.2	3 mm Bulb	1"	TFP540	135, 155, 175, 200, 286	175	20' x 20'	12'-6"	B, C, SW	UL, C-UL, NYC	Pipe Wrench	W17	YES
DS-3	TY5339	Horizontal Sidewall	SR	EC/OH	11.2	3 mm Bulb	1"	TFP550	155, 200	175	16' X 20'	8'-0"	B, C, SW	UL, C-UL	W8	W8	YES
DS-C	TY3555	Concealed Pendent	SR	All	5.6	5 mm Bulb	1"	TFP515	155, 200	175	Per NFPA	6'-0"	B, C, GW, SW, JB	UL, C-UL, NYC	Pipe Wrench	RFII	
DS-C	TY3535	Concealed Pendent	QR	LH/OH	5.6	3 mm Bulb	1"	TFP515	155, 200	175	Per NFPA	6'-0"	B, C, GW, SW, JB	UL, C-UL, NYC	Pipe Wrench	RFII	
DS-ECC	TY3539	EC Concealed Pendent	QR	LH	5.6	3 mm Bulb	1"	TFP518	155, 200	175	18' x 18'	8'-0"	B, C, GW, SW, JB	UL, C-UL, NYC	Pipe Wrench	RFII	
ESFR-17	TY7229	ESFR Dry-Type Pendent	FR	Storage	16.8	Solder	1-¼"	TFP320	165, 212	175	12'	8'-0"	B	UL, FM	W26		

SPECIAL (Attic, Window, Combustible Concealed, Studio)

MODEL (1)	SPRINKLER ID NUMBER (SIN)	TYPE	RESPONSE (4)	HAZARD (1,3)	K FACTOR	ELEMENT	THREAD SIZE	DATA SHEET	TEMPERATURE° F (1)	MAX. PRESSURE (PSI)	MAX. SPACING (1)	MIN. SPACING	SPRINKLER FINISH (1,2)	APPROVALS (1)	WRENCH	RECESSED WRENCH	RECESSED ESCUTCHEON AVAIL. (1)
BB1 17/32	TY4180	Attic Back to Back	FR	Wet or Dry	8.0	3 mm Bulb	¾"	TFP610	200	175	See TD Sheet	See TD Sheet	B	UL, ULC	W3		
BB2 17/32	TY4181	Attic Back to Back	FR	Wet or Dry	8.0	3 mm Bulb	¾"	TFP610	200	175	See TD Sheet	See TD Sheet	B	UL, ULC	W3		
BB3 17/32	TY4182	Attic Back to Back	FR	Wet or Dry	8.0	3 mm Bulb	¾"	TFP610	200	175	See TD Sheet	See TD Sheet	B	UL, ULC	W3		
BB1	TY3180	Attic Back to Back	FR	Wet or Dry	5.6	Solder	½"	TFP610	212	175	See TD Sheet	See TD Sheet	B	UL, ULC	Adj. Wrench		
BB2	TY3181	Attic Back to Back	FR	Wet or Dry	5.6	Solder	½"	TFP610	212	175	See TD Sheet	See TD Sheet	B	UL, ULC	Adj. Wrench		
BB3	TY3182	Attic Back to Back	FR	Wet or Dry	5.6	Solder	½"	TFP610	212	175	See TD Sheet	See TD Sheet	B	UL, ULC	Adj. Wrench		
BB1	TY2180	Attic Back to Back	FR	Wet or Dry	4.2	3 mm Bulb	½"	TFP610	200	175	See TD Sheet	See TD Sheet	B	UL, ULC	W3		
BB2	TY2181	Attic Back to Back	FR	Wet or Dry	4.2	3 mm Bulb	½"	TFP610	200	175	See TD Sheet	See TD Sheet	B	UL, ULC	W3		
BB3	TY2182	Attic Back to Back	FR	Wet or Dry	4.2	3 mm Bulb	½"	TFP610	200	175	See TD Sheet	See TD Sheet	B	UL, ULC	W3		
SD1	TY3183	Attic Single Directional	FR	Wet or Dry	5.6	Solder	½"	TFP610	212	175	See TD Sheet	See TD Sheet	B	UL, ULC	Adj. Wrench		
SD2	TY3184	Attic Single Directional	FR	Wet or Dry	5.6	Solder	½"	TFP610	212	175	See TD Sheet	See TD Sheet	B	UL, ULC	Adj. Wrench		
SD3	TY3185	Attic Single Directional	FR	Wet or Dry	5.6	Solder	½"	TFP610	212	175	See TD Sheet	See TD Sheet	B	UL, ULC	Adj. Wrench		
HIP	TY3187	Attic HIP™	FR	Wet or Dry	5.6	3 mm Bulb	½"	TFP610	200	175	See TD Sheet	See TD Sheet	B	UL, ULC	1106		
AP	TY3190	Attic Plus	FR	Specific App.	5.6	3 mm Bulb	½"	TFP610	200	175	See TD Sheet	See TD Sheet	B	UL, ULC	W6		
AP	TY2190	Attic Plus	FR	Specific App.	4.2	3 mm Bulb	½"	TFP610	200	175	See TD Sheet	See TD Sheet	B	UL, ULC	W6		
WS	TY3388	Window Horizontal Sidewall	FR	Specific App.	5.6	3 mm Bulb	½"	TFP620	155, 200	175	8'	6'-0"	B, C, SW, JB	UL, C-UL, NYC, ICC	W20		
WS	TY3488	Window Pendent Vertical Sidewall	FR	Specific App.	5.6	3 mm Bulb	½"	TFP620	155, 200	175	8'	6'-0"	B, C, SW, JB	UL, C-UL, NYC, ICC	W20		
CC1	TY1189	Combustible Concealed Upright	FR	Specific App.	2.8	3 mm Bulb	½"	TFP630	175	175	10'	6'-0"	B	UL	W20		
CC2	TY2189	Combustible Concealed Upright	FR	Specific App.	4.2	3 mm Bulb	½"	TFP632	175	175	12'	7'-0"	B	UL	W6		
CC2	TY3189	Combustible Concealed Upright	FR	Specific App.	5.6	3 mm Bulb	½"	TFP632	175	175	12'	7'-0"	B	UL	W6		
CC3	TY2199	Combustible Concealed Upright	FR	Specific App.	4.2	3 mm Bulb	½"	TFP633	200	175	14'	7'-0"	B	UL	W6		
CC3	TY3199	Combustible Concealed Upright	FR	Specific App.	5.6	3 mm Bulb	½"	TFP633	200	175	16'	7'-0"	B	UL	W6		
RAVEN Studio	TY1281	Flush Pendent	QR	LH/OH	5.6	Solder	½"	TFP658	165	175			W, G, Custom †	UL, ULC	W25		
RAVEN Studio	TY1381	Flush Horizontal Sidewall	QR	LH/OH	5.6	Solder	½"	TFP658	165	175			W, G, Custom †	UL, ULC	W25		
RAVEN Studio	TY1282	EC Flush Pendent	QR	LH	5.6	Solder	½"	TFP658	165	175	16' x 16'	8'-0"	W, G, Custom †	UL, ULC	W25		
RAVEN Studio	TY1382	EC Flush Horizontal Sidewall	QR	LH	5.6	Solder	½"	TFP658	165	175	16' x 16'	8'-0"	W, G, Custom †	UL, ULC	W25		

SPECIAL (Conventional)

MODEL (1)	SPRINKLER ID NUMBER (SIN)	TYPE	RESPONSE (4)	HAZARD (1,3)	K FACTOR	ELEMENT	THREAD SIZE	DATA SHEET	TEMPERATURE° F (1)	MAX. PRESSURE (PSI)	MAX. SPACING (1)	MIN. SPACING	SPRINKLER FINISH (1,2)	APPROVALS (1)	WRENCH	RECESSED WRENCH	RECESSED ESCUTCHEON AVAIL. (1)
TY-B	TY365	Conventional (Old Style)	SR	OH /EHH	5.6	5 mm Bulb	½"	TFP662	135, 155, 175, 200, 286, 360	175	Per NFPA	-	B, C, SW, JB	UL, C-UL, VdS, LPCB-*(TY3650 Only)*	W6		
TY-B	TY4651	Conventional (Old Style)	SR	OH /EHH	8.0	5 mm Bulb	¾"	TFP661	135, 155, 175, 200, 286, 360, Open	175	Per NFPA	-	B, C, SW, L, W, WOL, JB	UL, C-UL, NYC, LPCB, VdS	W6		
TY-FRB	TY363	Conventional (Old Style)	QR	OH /EHH	5.6	3 mm Bulb	½"	TFP667	135, 155, 175, 200, 286	175	Per NFPA	-	B, C, SW, JB	UL, C-UL, VdS, LPCB-*(TY3630 Only)*	W6		
TY-FRB	TY4631	Conventional (Old Style)	QR	OH /EHH	8.0	3 mm Bulb	¾"	TFP666	135, 155, 175, 200, 286	175	Per NFPA	-	B, C, SW, L, JB	UL, C-UL, NYC, LPCB, VdS	W6		

SPECIAL (Institutional)

MODEL (1)	SPRINKLER ID NUMBER (SIN)	TYPE	RESPONSE (4)	HAZARD (1,3)	K FACTOR	ELEMENT	THREAD SIZE	DATA SHEET	TEMPERATURE° F (1)	MAX. PRESSURE (PSI)	MAX. SPACING (1)	MIN. SPACING	SPRINKLER FINISH (1,2)	APPROVALS (1)	WRENCH	RECESSED WRENCH	RECESSED ESCUTCHEON AVAIL. (1)
RAVEN	TY3281	Institutional Pendent	QR	All	5.6	Solder	½"	TFP651	165	175	Per NFPA	8'-0"	SW, GW	UL, C-UL	W25		YES
RAVEN	TY3381	Institutional Horizontal Sidewall	QR	All	5.6	Solder	½"	TFP651	165	175	Per NFPA	8'-0"	SW, GW	UL, C-UL	W25		YES
RAVEN	TY3282	Institutional Pendent	QR	All	5.6	Solder	½"	TFP651	165	175	Per NFPA	8'-0"	SW, GW	UL, C-UL	W25		YES
RAVEN	TY3382	Institutional Horizontal Sidewall	QR	All	5.6	Solder	½"	TFP651	165	175	Per NFPA	8'-0"	SW, GW	UL, C-UL	W25		YES
TFP PH2	TY3290	Institutional Pendent	SR	All	5.6	Solder	½"	TFP650	165, 212	175	Per NFPA	6'-0"	C	UL, C-UL, NYC	1509-3		YES
TFP PH5	TY3390	Institutional Horizontal Sidewall	SR	LH/OH	5.6	Solder	½"	TFP654	165	175	Per NFPA	6'-0"	C	UL, C-UL, NYC	1509-3		

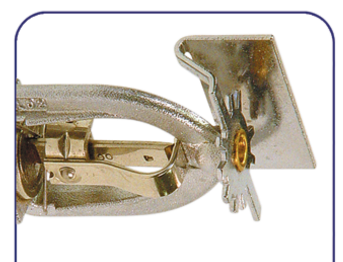
SPECIAL (Alternate Materials of Construction)

MODEL (1)	SPRINKLER ID NUMBER (SIN)	TYPE	RESPONSE (4)	HAZARD (1,3)	K FACTOR	ELEMENT	THREAD SIZE	DATA SHEET	TEMPERATURE° F (1)	MAX. PRESSURE (PSI)	MAX. SPACING (1)	MIN. SPACING	SPRINKLER FINISH (1,2)	APPROVALS (1)	WRENCH	RECESSED WRENCH	RECESSED ESCUTCHEON AVAIL. (1)
TY-B	TY8191	Upright (Stainless Steel)	SR	All	5.6	5 mm Bulb	½"	TFP680	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	Stainless Steel	UL, C-UL, LPCB, Lloyds	W6		
TY-B	TY8291	Pendent (Stainless Steel)	SR	All	5.6	5 mm Bulb	½"	TFP680	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	Stainless Steel	UL, C-UL, LPCB, Lloyds	W6	W7	Yes
TY-B	TY9191	Upright (Stainless Steel)	SR	All	8.0	5 mm Bulb	¾"	TFP680	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	Stainless Steel	UL, C-UL, LPCB, Lloyds	W6		
TY-B	TY9291	Pendent (Stainless Steel)	SR	All	8.0	5 mm Bulb	¾"	TFP680	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	Stainless Steel	UL, C-UL, LPCB, Lloyds	W6	W7	Yes
TY-B	TY8691	Conventional (Stainless Steel)	SR	All	5.6	5 mm Bulb	½"	TFP680	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	Stainless Steel	LPCB, Lloyds	W6		
TY-B	TY9691	Conventional (Stainless Steel)	SR	All	8.0	5 mm Bulb	¾"	TFP680	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	Stainless Steel	LPCB, Lloyds	W6		
TY-B	TY8391	Horizontal Sidewall (SS)	SR	All	5.6	5 mm Bulb	½"	TFP680	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	Stainless Steel	LPCB, Lloyds	W6	W7	Yes
TY-B	TY8491	Vertical Sidewall (SS)	SR	All	5.6	5 mm Bulb	½"	TFP680	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	Stainless Steel	LPCB, Lloyds	W6		
TY-B	TY8192	Upright (SMO)	SR	All	5.6	5 mm Bulb	½"	TFP680	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	SMO (254 Duplex SS)	LPCB, Lloyds	W6		
TY-B	TY8292	Pendent (SMO)	SR	All	5.6	5 mm Bulb	½"	TFP680	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	SMO (254 Duplex SS)	LPCB, Lloyds	W6	W7	Yes
TY-B	TY8692	Conventional (SMO)	SR	All	5.6	5 mm Bulb	½"	TFP680	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	SMO (254 Duplex SS)	LPCB, Lloyds	W6		
TY-B	TY8392	Horizontal Sidewall (SMO)	SR	All	5.6	5 mm Bulb	½"	TFP680	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	SMO (254 Duplex SS)	LPCB, Lloyds	W6	W7	Yes
TY-B	TY8492	Vertical Sidewall (SMO)	SR	All	5.6	5 mm Bulb	½"	TFP680	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	SMO (254 Duplex SS)	LPCB, Lloyds	W6		
TY-B	TY8193	Upright (Titanium)	SR	All	5.6	5 mm Bulb	½"	TFP680	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	Titanium	LPCB, Lloyds	W6		
TY-B	TY8293	Pendent (Titanium)	SR	All	5.6	5 mm Bulb	½"	TFP680	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	Titanium	LPCB, Lloyds	W6	W7	Yes
TY-B	TY8693	Conventional (Titanium)	SR	All	5.6	5 mm Bulb	½"	TFP680	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	Titanium	LPCB, Lloyds	W6		
TY-B	TY8393	Horizontal Sidewall (Titanium)	SR	All	5.6	5 mm Bulb	½"	TFP680	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	Titanium	LPCB, Lloyds	W6	W7	Yes
TY-B	TY8493	Vertical Sidewall (Titanium)	SR	All	5.6	5 mm Bulb	½"	TFP680	135, 155, 175, 200, 286, 360	175	Per NFPA	6'-0"	Titanium	LPCB, Lloyds	W6		
TY-FRB	TY8181	Upright (Stainless Steel)	QR	All	5.6	3 mm Bulb	½"	TFP680	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	Stainless Steel	UL, C-UL, LPCB, Lloyds	W6		
TY-FRB	TY8281	Pendent (Stainless Steel)	QR	All	5.6	3 mm Bulb	½"	TFP680	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	Stainless Steel	UL, C-UL, LPCB, Lloyds	W6	W7	Yes
TY-FRB	TY9181	Upright (Stainless Steel)	QR	All	8.0	3 mm Bulb	¾"	TFP680	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	Stainless Steel	UL, C-UL, LPCB, Lloyds	W6		
TY-FRB	TY9281	Pendent (Stainless Steel)	QR	All	8.0	3 mm Bulb	¾"	TFP680	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	Stainless Steel	UL, C-UL, LPCB, Lloyds	W6	W7	Yes
TY-FRB	TY8681	Conventional (Stainless Steel)	QR	All	5.6	3 mm Bulb	½"	TFP680	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	Stainless Steel	LPCB, Lloyds	W6		
TY-FRB	TY9681	Conventional (Stainless Steel)	QR	All	8.0	3 mm Bulb	¾"	TFP680	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	Stainless Steel	LPCB, Lloyds	W6		
TY-FRB	TY8381	Horizontal Sidewall (SS)	QR	All	5.6	3 mm Bulb	½"	TFP680	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	Stainless Steel	LPCB, Lloyds	W6	W7	Yes
TY-FRB	TY8481	Vertical Sidewall (SS)	QR	All	5.6	3 mm Bulb	½"	TFP680	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	Stainless Steel	LPCB, Lloyds	W6		
TY-FRB	TY8182	Upright (SMO)	QR	All	5.6	3 mm Bulb	½"	TFP680	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	SMO (254 Duplex SS)	LPCB, Lloyds	W6		
TY-FRB	TY8282	Pendent (SMO)	QR	All	5.6	3 mm Bulb	½"	TFP680	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	SMO (254 Duplex SS)	LPCB, Lloyds	W6	W7	Yes
TY-FRB	TY8682	Conventional (SMO)	QR	All	5.6	3 mm Bulb	½"	TFP680	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	SMO (254 Duplex SS)	LPCB, Lloyds	W6		
TY-FRB	TY8382	Horizontal Sidewall (SMO)	QR	All	5.6	3 mm Bulb	½"	TFP680	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	SMO (254 Duplex SS)	LPCB, Lloyds	W6	W7	Yes
TY-FRB	TY8482	Vertical Sidewall (SMO)	QR	All	5.6	3 mm Bulb	½"	TFP680	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	SMO (254 Duplex SS)	LPCB, Lloyds	W6		
TY-FRB	TY8183	Upright (Titanium)	QR	All	5.6	3 mm Bulb	½"	TFP680	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	Titanium	LPCB, Lloyds	W6		
TY-FRB	TY8283	Pendent (Titanium)	QR	All	5.6	3 mm Bulb	½"	TFP680	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	Titanium	LPCB, Lloyds	W6	W7	Yes
TY-FRB	TY8683	Conventional (Titanium)	QR	All	5.6	3 mm Bulb	½"	TFP680	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	Titanium	LPCB, Lloyds	W6		
TY-FRB	TY8383	Horizontal Sidewall (Titanium)	QR	All	5.6	3 mm Bulb	½"	TFP680	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	Titanium	LPCB, Lloyds	W6	W7	Yes
TY-FRB	TY8483	Vertical Sidewall (Titanium)	QR	All	5.6	3 mm Bulb	½"	TFP680	135, 155, 175, 200, 286	175	Per NFPA	6'-0"	Titanium	LPCB, Lloyds	W6		

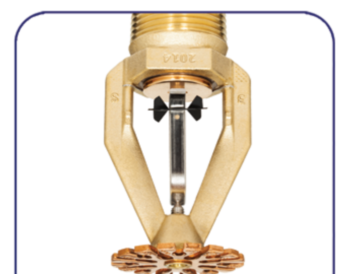
SPECIAL (High Temperature)

MODEL (1)	SPRINKLER ID NUMBER (SIN)	TYPE	RESPONSE (4)	HAZARD (1,3)	K FACTOR	ELEMENT	THREAD SIZE	DATA SHEET	TEMPERATURE° F (1)	MAX. PRESSURE (PSI)	MAX. SPACING (1)	MIN. SPACING	SPRINKLER FINISH (1,2)	APPROVALS (1)	WRENCH	RECESSED WRENCH	RECESSED ESCUTCHEON AVAIL. (1)
Issue D Quartzoid®	TY3191	Upright	SR	All	5.6	11 mm Bulb	½"	TFP690	400, 500, 650	175	Per NFPA	6'-0"	B, C, L	FM, UL, C-UL, LPCB	W11		
Issue D Quartzoid®	TY3296	Pendent	SR	All	5.6	11 mm Bulb	½"	TFP690	400, 500, 650	175	Per NFPA	6'-0"	B, C, L	FM, UL, C-UL, LPCB	W11		
Issue D Quartzoid®	TY4191	Upright	SR	All	8.0	11 mm Bulb	¾"	TFP690	400, 500	175	Per NFPA	6'-0"	B, C, L	UL, C-UL	W11		
Issue D Quartzoid®	TY4292	Pendent	SR	All	8.0	11 mm Bulb	¾"	TFP690	400, 500	175	Per NFPA	6'-0"	B, C, L	UL, C-UL	W11		

STANDARD SPRAY


STANDARD SPRAY

EXTENDED COVERAGE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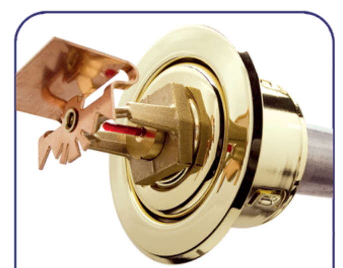
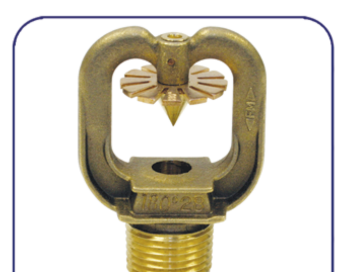
RESIDENTIAL


DRY

SPECIAL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KEY:

(1) Refer to the Technical Data Sheet for specific information. All versions of a sprinkler may not be listed or approved.

(2) Sprinkler Finish Legend:
AB = Antique Brass; **B** = Brass; **BB** = Bright Brass; **Bl** = Black; **C** = Chrome Plated; **GW** = Grey White (RAL 9002); **L** = Lead Coating; **JB** = Jet Black (RAL 9005); **PW** = Pure White (RAL 9010); **SS** = Stainless Steel; **W** = Wax Coating; **SW** = Signal White (RAL 9003); **WOL** = Wax Coating over Lead,
†=See Tech Data Sheet for More

(3) Hazard Legend:
LH = Light Hazard; **OH** = Ordinary Hazard;
EHH = Extra High Hazard; **All** = Any Hazard

(4) Response Legend:
SR = Standard Response; **QR** = Quick Response;
FR = Fast Response

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