



Global fire sprinkler quick reference guide

Model (1)	Sprinkler identification Number (SIN)	Sprinkler orientation (2)	Response (3)	K factor		Operating element	Thread size (1)	Data sheet	Base- part number	Temperature °F (1)	Temperature °C (1)	Max. pressure		Sprinkler finish (1, 4)	Approvals (1)	Wrench	Recessed Wrench	Recessed Escutcheon (1)
				LPM/bar ^{1/2}	GPM/psi ^{1/2}							bar	psi					
Standard coverage																		
TY-L	TY3111	U	SR	80.6	5.6	Solder	1/2"	TFP110	53-111	165, 212, 280	74, 100, 138	12.1	175	B, C, W, L, WOL	UL, C-UL, FM, LPCB	W9		
TY-L	TY3211	P	SR	80.6	5.6	Solder	1/2"	TFP110	53-112	165, 212, 280	74, 100, 138	12.1	175	B, C, W, L, WOL	UL, C-UL, FM, LPCB	W9	W10	YES
TY-L	TY3311	HSW	SR	80.6	5.6	Solder	1/2"	TFP120	53-113	165, 212, 280	74, 100, 138	12.1	175	B, C, W, L, WOL	UL, C-UL, FM	W9		
TY-L	TY4111	U	SR	115.2	8	Solder	3/4"	TFP110	53-101	165, 212, 280	74, 100, 138	12.1	175	B, C, W, L, WOL	UL, C-UL, FM, LPCB	W9		
TY-L	TY4811	U	SR	115.2	8	Solder	1/2"	TFP110	53-106	165, 212, 280	74, 100, 138	12.1	175	B, C, W, L, WOL	UL, C-UL, FM, LPCB	W9		
TY-FRL	TY1121	U	QR	40.3	2.8	Solder	1/2"	TFP130	58-973	165, 212	74, 100	12.1	175	B, C	UL, C-UL, FM, NYC	W9		
TY-FRL	TY1221	P	QR	40.3	2.8	Solder	1/2"	TFP130	58-981	165, 212	74, 100	12.1	175	B, C	UL, C-UL, NYC	W9	W12	YES
TY-FRL	TY3121	U	QR	80.6	5.6	Solder	1/2"	TFP130	58-974	165, 212	74, 100	12.1	175	B, C	UL, C-UL, FM, NYC, LPCB	W9		
TY-FRL	TY3221	P	QR	80.6	5.6	Solder	1/2"	TFP130	58-982	165, 212	74, 100	12.1	175	B, C	UL, C-UL, FM, NYC, LPCB	W9	W12	YES
TY-FRL	TY3321	HSW	QR	80.6	5.6	Solder	1/2"	TFP140	58-946	165, 212	74, 100	12.1	175	B, C	UL, C-UL, FM, NYC	W9		
TY-FRL	TY4121	U	QR	115.2	8	Solder	3/4"	TFP130	58-174	165, 212	74, 100	12.1	175	B, C	UL, C-UL, FM, NYC	W9		
TY-FRL	TY4221	P	QR	115.2	8	Solder	3/4"	TFP130	58-172	165, 212	74, 100	12.1	175	B, C	UL, C-UL, FM, NYC	W9		
TY-B	TY1151	U	SR	40.3	2.8	5 mm Bulb	1/2"	TFP151	57-530	135, 155, 175, 200, 286, 360	57, 68, 79, 93, 141, 182	12.1	175	B, C, PW, SW, W, L, WOL	UL, C-UL, FM	W6		
TY-B	TY1251	P	SR	40.3	2.8	5 mm Bulb	1/2"	TFP151	57-531	135, 155, 175, 200, 286, 360	57, 68, 79, 93, 141, 182	12.1	175	B, C, PW, SW, W, L, WOL	UL, C-UL, FM	W6		
TY-B	TY315	U	SR	80.6	5.6	5 mm Bulb	1/2"	TFP152	77-570	135, 155, 175, 200, 286, 360	57, 68, 79, 93, 141, 182	17.2	250	B, C, SW, PW, JB	UL, C-UL, FM, LPCB, VdS, CE	W6		
TY-B	TY325	P	SR	80.6	5.6	5 mm Bulb	1/2"	TFP152	77-571	135, 155, 175, 200, 286, 360	57, 68, 79, 93, 141, 182	17.2	250	B, C, SW, PW, JB	UL, C-UL, FM, LPCB, VdS, CE	W6	W7	YES
TY-B	TY3451	VSW	SR	80.6	5.6	5 mm Bulb	1/2"	TFP161	57-575	135, 155, 175, 200, 286, 360	57, 68, 79, 93, 141, 182	12.1	175	B, C, SW, W, L, WOL, JB, PW	UL, C-UL, FM, LPCB, NYC	W6		
TY-B	TY3351	HSW	SR	80.6	5.6	5 mm Bulb	1/2"	TFP161	57-578	135, 155, 175, 200, 286, 360	57, 68, 79, 93, 141, 182	17.2	250	B, C, SW, W, L, WOL, JB, PW	UL, C-UL, FM, LPCB, NYC	W6	W7	YES
TY-B	TY4851	U	SR	115.2	8	5 mm Bulb	1/2"	TFP151	57-560	135, 155, 175, 200, 286, 360	57, 68, 79, 93, 141, 182	12.1	175	B, C, SW, PW	UL, C-UL, FM, LPCB, NYC, VdS	W6		
TY-B	TY4951	P	SR	115.2	8	5 mm Bulb	1/2"	TFP151	57-561	135, 155, 175, 200, 286, 360	57, 68, 79, 93, 141, 182	12.1	175	B, C, SW, PW	UL, C-UL, FM, LPCB, NYC, VdS	W6		
TY-B	TY4151	U	SR	115.2	8	5 mm Bulb	3/4"	TFP151	57-590	135, 155, 175, 200, 286, 360	57, 68, 79, 93, 141, 182	12.1	175	B, C, PW, SW, W, L, WOL, JB	UL, C-UL, FM, LPCB, NYC, VdS	W6		
TY-B	TY4251	P	SR	115.2	8	5 mm Bulb	3/4"	TFP151	57-591	135, 155, 175, 200, 286, 360	57, 68, 79, 93, 141, 182	12.1	175	B, C, PW, SW, W, L, WOL, JB	UL, C-UL, FM, LPCB, NYC, VdS	W6	W7	YES
TY-FRB	TY1131	U	QR	40.3	2.8	3 mm Bulb	1/2"	TFP171	57-330	135, 155, 175, 200, 286	57, 68, 79, 93, 141	12.1	175	B, C, SW, JB, PW, L	UL, C-UL, FM, NYC	W6		
TY-FRB	TY1231	P	QR	40.3	2.8	3 mm Bulb	1/2"	TFP171	57-331	135, 155, 175, 200, 286	57, 68, 79, 93, 141	12.1	175	B, C, SW, JB, PW, L	UL, C-UL, FM, NYC	W6	W7	YES
TY-FRB	TY2131	U	QR	60.5	4.2	3 mm Bulb	1/2"	TFP171	57-340	135, 155, 175, 200, 286	57, 68, 79, 93, 141	12.1	175	B, C, SW, JB, PW, L	UL, C-UL	W6		
TY-FRB	TY2231	P	QR	60.5	4.2	3 mm Bulb	1/2"	TFP171	57-341	135, 155, 175, 200, 286	57, 68, 79, 93, 141	12.1	175	B, C, SW, JB, PW, L	UL, C-UL	W6	W7	YES
TY-FRB	TY313	U	QR	80.6	5.6	3 mm Bulb	1/2"	TFP172	77-370	135, 155, 175, 200, 286	57, 68, 79, 93, 141	17.2	250	B, C, SW, PW, JB	UL, C-UL, FM, LPCB, VdS, CE	W6		
TY-FRB	TY323	P	QR	80.6	5.6	3 mm Bulb	1/2"	TFP172	77-371	135, 155, 175, 200, 286	57, 68, 79, 93, 141	17.2	250	B, C, SW, PW, JB	UL, C-UL, FM, LPCB, VdS, CE	W6	W7	YES
TY-FRB	TY3431	VSW	QR	80.6	5.6	3 mm Bulb	1/2"	TFP176	57-375	135, 155, 175, 200, 286	57, 68, 79, 93, 141	12.1	175	B, C, SW, L, JB, PW	UL, C-UL, FM, NYC, LPCB	W6		
TY-FRB	TY3331	HSW	QR	80.6	5.6	3 mm Bulb	1/2"	TFP176	57-378	135, 155, 175, 200, 286	57, 68, 79, 93, 141	17.2	250	B, C, SW, L, JB, PW	UL, C-UL, FM, NYC, LPCB	W6	W7	YES
TY-FRB	TY4831	U	QR	115.2	8	3 mm Bulb	1/2"	TFP171	57-360	135, 155, 175, 200, 286	57, 68, 79, 93, 141	12.1	175	B, C, SW, L, JB, PW	UL, C-UL, NYC, LPCB, VdS	W6		
TY-FRB	TY4931	P	QR	115.2	8	3 mm Bulb	1/2"	TFP171	57-361	135, 155, 175, 200, 286	57, 68, 79, 93, 141	12.1	175	B, C, SW, L, JB, PW	UL, C-UL, NYC, LPCB, VdS	W6		
TY-FRB	TY4131	U	QR	115.2	8	3 mm Bulb	3/4"	TFP171	57-390	135, 155, 175, 200, 286	57, 68, 79, 93, 141	12.1	175	B, C, SW, L, JB, PW	UL, C-UL, FM, NYC, LPCB, VdS	W6		
TY-FRB	TY4231	P	QR	115.2	8	3 mm Bulb	3/4"	TFP171	57-391	135, 155, 175, 200, 286	57, 68, 79, 93, 141	12.1	175	B, C, SW, L, JB, PW	UL, C-UL, FM, NYC, LPCB, VdS	W6	W7	YES
RFII	TY3531	CP	QR	80.6	5.6	3 mm Bulb	1/2"	TFP181	51-792	155, 200	68, 93	17.2	250	B (Refer Data Sheet Ordering Procedure for cover plate)	UL, C-UL, NYC, VdS, LPCB	RFII		
RFII	TY3551	CP	SR	80.6	5.6	5 mm Bulb	1/2"	TFP181	51-790	155, 200	68, 93	17.2	250	B (Refer Data Sheet Ordering Procedure for cover plate)	UL, C-UL, FM, NYC, LPCB	RFII		
RFII	TY3521	CHSW	QR	80.6	5.6	Solder	1/2"	TFP185	50-550	160, 212	71, 100	17.2	250	B (Refer Data Sheet Ordering Procedure for cover plate)	UL, C-UL	W37		
RFII-MRI	TY3530	CP	QR	80.6	5.6	3 mm Bulb	1/2"	TFP182	51-800	155, 200	68, 93	12.1	175	B (Refer Data Sheet Ordering Procedure for cover plate)	UL, C-UL	RFII		
RFII-MRI	TY3550	CP	SR	80.6	5.6	5 mm Bulb	1/2"	TFP182	51-801	155, 200	68, 93	12.1	175	B (Refer Data Sheet Ordering Procedure for cover plate)	UL, C-UL	RFII		
ILLUSION	TY5521	CP	QR	161.3	11.2	Solder	3/4"	TFP184	50-711	160, 212	71, 100	12.1	175	B (Refer Data Sheet Ordering Procedure for cover plate)	UL, C-UL	W18		
Extended coverage																		
EC-25	TY9128	U	QR/SR	362.9	25.2	Solder	1"	TFP213	58-450	165, 212	74, 100	12.1	175	B	UL, C-UL, FM, NYC	W1		
EC-14	TY6137	U	QR/SR	201.6	14	3 mm Bulb	3/4"	TFP220	51-896	135, 155, 175, 200, 286	57, 68, 79, 93, 141	12.1	175	B, C, SW, L, JB	UL, C-UL, FM, NYC	W3		
EC-14	TY6237	P	QR/SR	201.6	14	3 mm Bulb	3/4"	TFP220	51-895	135, 155, 175, 200, 286	57, 68, 79, 93, 141	12.1	175	B, C, SW, L, JB	UL, C-UL, FM, NYC	W3	W22	YES
EC-11	TY5137	U	QR/SR	161.3	11.2	3 mm Bulb	3/4"	TFP220	51-894	135, 155, 175, 200, 286								



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				LPM/bar ^{1/2}	GPM/psi ^{1/2}							bar	psi						
Dry																			
DS-1	TY3155	U	SR	80.6	5.6	5 mm Bulb	1"	TFP500	60-98X	135, 155, 175, 200, 286, 360	57, 68, 79, 93, 141, 182	12.1	175	B, C, SW	UL, C-UL, FM, NYC, LPCB, CE	Pipe Wrench			
DS-1	TY3255	P	SR	80.6	5.6	5 mm Bulb	1"	TFP500	60-9XX	135, 155, 175, 200, 286, 360	57, 68, 79, 93, 141, 182	12.1	175	B, C, SW	UL, C-UL, FM, NYC, LPCB, CE, VdS	Pipe Wrench	W7	YES	
DS-1	TY3355	HSW	SR	80.6	5.6	5 mm Bulb	1"	TFP500	60-XXX	135, 155, 175, 200, 286, 360	57, 68, 79, 93, 141, 182	12.1	175	B, C, SW	UL, C-UL, FM, NYC, LPCB, CE	Pipe Wrench	W7	YES	
DS-1	TY3935	P	QR	80.6	5.6	3 mm Bulb	3/4"	TFP510	60-0XX	135, 155, 175, 200, 286	57, 68, 79, 93, 141	12.1	175	B, C, SW	UL, C-UL	Pipe Wrench	W7	YES	
DS-1	TY3735	HSW	QR	80.6	5.6	3 mm Bulb	3/4"	TFP510	60-0XX	135, 155, 175, 200, 286	57, 68, 79, 93, 141	12.1	175	B, C, SW	UL, C-UL	Pipe Wrench	W7	YES	
DS-1	TY3135	U	QR	80.6	5.6	3 mm Bulb	1"	TFP510	60-38X	135, 155, 175, 200, 286	57, 68, 79, 93, 141	12.1	175	B, C, SW	UL, C-UL, FM, NYC	Pipe Wrench			
DS-1	TY3235	P	QR	80.6	5.6	3 mm Bulb	1"	TFP510	60-3XX	135, 155, 175, 200, 286	57, 68, 79, 93, 141	12.1	175	B, C, SW	UL, C-UL, FM, NYC	Pipe Wrench	W7	YES	
DS-1	TY3335	HSW	QR	80.6	5.6	3 mm Bulb	1"	TFP510	60-XXX	135, 155, 175, 200, 286	57, 68, 79, 93, 141	12.1	175	B, C, SW	UL, C-UL, FM, NYC	Pipe Wrench	W7	YES	
DS-1	TY3358	EC HSW	SR	80.6	5.6	5 mm Bulb	1"	TFP520	60-95X	135, 155	57, 68	12.1	175	B, C, SW	UL, C-UL, NYC	Pipe Wrench	W7	YES	
DS-1	TY3338	EC HSW	QR	80.6	5.6	3 mm Bulb	1"	TFP520	60-35X	135, 155	57, 68	12.1	175	B, C, SW	UL, C-UL, NYC	Pipe Wrench	W7	YES	
DS-1 - Stainless	TY3250	P	SR	80.6	5.6	5 mm Bulb	1"	TFP560	60-2XX	135, 155, 175, 200, 286, 360	57, 68, 79, 93, 141, 182	12.1	175	SS	UL, C-UL, LPCB, CE	W7	W7	YES	
DS-1 - Stainless	TY3357	HSW	SR	80.6	5.6	5 mm Bulb	1"	TFP560	60-2XX	135, 155, 175, 200, 286, 360	57, 68, 79, 93, 141, 182	12.1	175	SS	UL, C-UL	W7	W7	YES	
DS-1 - Stainless	TY3230	P	QR	80.6	5.6	3 mm Bulb	1"	TFP560	60-1XX	135, 155, 175, 200, 286, 360	57, 68, 79, 93, 141, 182	12.1	175	SS	UL, C-UL	W7	W7	YES	
DS-1 - Stainless	TY3337	HSW	QR	80.6	5.6	3 mm Bulb	1"	TFP560	60-1XX	135, 155, 175, 200, 286, 360	57, 68, 79, 93, 141, 182	12.1	175	SS	UL, C-UL	W7	W7	YES	
DS-1 - Stainless	TY3339	EC HSW	QR	80.6	5.6	3 mm Bulb	1"	TFP560	60-18X	135, 155, 175, 200, 286, 360	57, 68, 79, 93, 141, 182	12.1	175	SS	UL, C-UL	W7	W7	YES	
DS-2	TY5255	P	SR	161.3	11.2	5 mm Bulb	1"	TFP530	61-1XX	135, 155, 175, 200, 286	57, 68, 79, 93, 141	12.1	175	B, C, SW	UL, C-UL, NYC	Pipe Wrench	W17	YES	
DS-2	TY5235	P	QR	161.3	11.2	3 mm Bulb	1"	TFP530	61-3XX	135, 155, 175, 200, 286	57, 68, 79, 93, 141	12.1	175	B, C, SW	UL, C-UL, NYC	Pipe Wrench	W17	YES	
DS-2	TY5238	ELO, EC P	QR/SR	161.3	11.2	3 mm Bulb	1"	TFP540	61-4XX	135, 155, 175, 200, 286	57, 68, 79, 93, 141	12.1	175	B, C, SW	UL, C-UL, NYC	Pipe Wrench	W17	YES	
DS-3	TY5339	HSW	SR	161.3	11.2	3 mm Bulb	1"	TFP550	61-1XX	155, 200	68, 93	12.1	175	B, C, SW	UL, C-UL	W8	W8	YES	
DS-8	TY4235	P	QR	115.2	8	3 mm Bulb	1"	TFP513	65-3XX	135, 155, 175, 200, 286	57, 68, 79, 93, 141	12.1	175	B, C, SW	UL, C-UL	W7	W7	YES	
DS-8	TY4255	P	SR	115.2	8	5 mm Bulb	1"	TFP503	65-9XX	135, 155, 175, 200, 286, 360	57, 68, 79, 93, 141, 182	12.1	175	B, C, SW	UL, C-UL	W7	W7	YES	
DS-C	TY3555	CP	SR	80.6	5.6	5 mm Bulb	1"	TFP515	60-86X	155, 200	68, 93	12.1	175	B (Refer Data Sheet Ordering Procedure for cover plate)		Pipe Wrench & Rfil			
DS-C	TY3535	CP	QR	80.6	5.6	3 mm Bulb	1"	TFP515	60-46X	155, 200	68, 93	12.1	175	B (Refer Data Sheet Ordering Procedure for cover plate)		Pipe Wrench & Rfil			
DS-ECC	TY3539	EC CP	QR	80.6	5.6	3 mm Bulb	1"	TFP518	60-45X	155, 200	68, 93	12.1	175	B (Refer Data Sheet Ordering Procedure for cover plate)		Pipe Wrench & Rfil			
ESFR-17	TY7229	ESFR DP	FR	241.9	16.8	Solder	1-1/4"	TFP320	61-44X	165, 212	74, 100	12.1	175	B	UL, FM	W26			
Special (attic, window, combustible concealed, studio)																			
BB1	TY4180	Attic Back to Back	FR	115.2	8	3 mm Bulb	3/4"	TFP610	51-623	200	93	12.1	175	B	UL, C-UL	W3			
BB2	TY4181	Attic Back to Back	FR	115.2	8	3 mm Bulb	3/4"	TFP610	51-621	200	93	12.1	175	B	UL, C-UL	W3			
BB3	TY4182	Attic Back to Back	FR	115.2	8	3 mm Bulb	3/4"	TFP610	51-622	200	93	12.1	175	B	UL, C-UL	W3			
BB1	TY3180	Attic Back to Back	FR	80.6	5.6	Solder	1/2"	TFP610	50-601	212	100	12.1	175	B	UL, C-UL	Adj. Wrench			
BB2	TY3181	Attic Back to Back	FR	80.6	5.6	Solder	1/2"	TFP610	50-602	212	100	12.1	175	B	UL, C-UL	Adj. Wrench			
BB3	TY3182	Attic Back to Back	FR	80.6	5.6	Solder	1/2"	TFP610	50-603	212	100	12.1	175	B	UL, C-UL	Adj. Wrench			
BB1	TY2180	Attic Back to Back	FR	60.5	4.2	3 mm Bulb	1/2"	TFP610	50-620	200	93	12.1	175	B	UL, C-UL	W6			
BB2	TY2181	Attic Back to Back	FR	60.5	4.2	3 mm Bulb	1/2"	TFP610	50-621	200	93	12.1	175	B	UL, C-UL	W6			
BB3	TY2182	Attic Back to Back	FR	60.5	4.2	3 mm Bulb	1/2"	TFP610	50-622	200	93	12.1	175	B	UL, C-UL	W6			
SD1	TY3183	Attic Single Directional	FR	80.6	5.6	Solder	1/2"	TFP610	50-611	212	100	12.1	175	B	UL, C-UL	Adj. Wrench			
SD2	TY3184	Attic Single Directional	FR	80.6	5.6	Solder	1/2"	TFP610	50-612	212	100	12.1	175	B	UL, C-UL	Adj. Wrench			
SD3	TY3185	Attic Single Directional	FR	80.6	5.6	Solder	1/2"	TFP610	50-613	212	100	12.1	175	B	UL, C-UL	Adj. Wrench			
HIP	TY3187	Attic HIP™	FR	80.6	5.6	3 mm Bulb	1/2"	TFP610	51-620	200	93	12.1	175	B	UL, C-UL	W20			
AP	TY3190	Attic Plus	FR	80.6	5.6	3 mm Bulb	1/2"	TFP610	50-625	200	93	12.1	175	B	UL, C-UL	W20			
AP	TY2190	Attic Plus	FR	60.5	4.2	3 mm Bulb	1/2"	TFP610	50-624	200	93	12.1	175	B	UL, C-UL	W20			
WS	TY3388	Window HSW	FR	80.6	5.6	3 mm Bulb	1/2"	TFP620	50-305	155, 200	68, 93	12.1	175	B, C, SW, JB	UL, C-UL, NYC, ICC	W20			
WS	TY3488	Window Pendant VSW	FR	80.6	5.6	3 mm Bulb	1/2"	TFP620	50-304	155, 200	68, 93	12.1	175	B, C, SW, JB	UL, C-UL, NYC, ICC	W20			
CWS	TY3498	Concealed Window Pendant Vertical Sidewall	FR	80.6	5.6	Solder	1/2"	TFP621	50-630	160, 212	71, 100	12.1	175	Refer Data Sheet Ordering Procedure section		UL, C-UL, ICC	W39		
CC3	TY2199	Combustible Concealed Upright	FR	60.5	4.2	3 mm Bulb	1/2"	TFP633	51-311	200	93	12.1	175	B	UL	W6			
CC3	TY3199	Combustible Concealed Upright	FR	80.6	5.6	3 mm Bulb	1/2"	TFP633	51-301	200	93	12.1	175	B	UL	W6			
RAVEN Studio	TY1281	Flush Pendant	QR	80.6	5.6	Solder	1/2"	TFP658	50-310	165	74	12.1	175	W, G, Custom	UL, C-UL	W25			
RAVEN Studio	TY1381	Flush HSW	QR	80.6	5.6	Solder	1/2"	TFP658	50-312	165	74	12.1	175	W, G, Custom	UL, C-UL	W25			
RAVEN Studio	TY1282	EC Flush Pendant	QR	80.6	5.6	Solder	1/2"	TFP658	50-311	165	74	12.1	175	W, G, Custom	UL, C-UL	W25			
RAVEN Studio	TY1382	EC Flush HSW	QR	80.6	5.6	Solder	1/2"	TFP658	5										