

Popular Sprinklers with AFFF Concentrates – Listings and Approvals

Refer to the UL Listing Guide or FM Approval Guide for the most current listing information and historic product listings.

Notes:

- For sprinklers matching AR-AFFF Concentrates, see CHEMGUARD Popular Sprinklers with AR-AFFF Concentrates Datasheet (CG-2018195, latest revision).
- Sprinklers listed here are those accepted at the time of testing. Sprinkler manufacturers may have additional model designations that use the same body, orifice, and deflector. AHJs (Authority Having Jurisdiction) may require equivalency documentation from the sprinkler manufacturer for acceptance of models not shown in the published listings.



010341

For Use With: CHEMGUARD C1B 1% AFFF

Sprinkler Head	Connection	K-Factor	Orientation	Agency Approval	Fuel	Minimum Application Rate		Minimum Inlet Pressure		Minimum Installation Height		Maximum Installation Height	
						gpm/ft ²	(Lpm/m ²)	psi	(bar)	ft	(m)	ft	(m)
Sprinkler Manufacturer: Johnson Controls													
TY1131, TY1151	1/2 in. NPT	2.8	Upright	UL	Hydrocarbons	0.16	(6.5)	30.0	(2.07)	–	–	–	–
TY1231, TY1251	1/2 in. NPT	2.8	Pendent	UL	Hydrocarbons	0.16	(6.5)	30.0	(2.07)	–	–	–	–
TY3131, TY3151	1/2 in. NPT	5.6	Upright	UL	Hydrocarbons	0.16	(6.5)	7.0	(0.48)	–	–	–	–
Model B1	1/2 in. NPT	3	Upright, Pendent	UL	Hydrocarbons	0.16	(6.5)	30.0	(2.07)	–	–	–	–
Sprinkler Manufacturer: The Viking Corporation													
VK100	1/2 in. NPT	5.6	Upright	UL	Hydrocarbons	0.16	(6.5)	7.0	(0.48)	–	–	–	–
VK200	1/2 in. NPT	8	Upright	UL	Hydrocarbons	0.22	(9.0)	7.0	(0.48)	–	–	–	–
Sprinkler Manufacturer: Grinnell Fire Protection Systems Co.													
Model 950	1/2 in. NPT	5.6	Pendent	UL	Hydrocarbons	0.16	(6.5)	7.0	(0.48)	–	–	–	–
Sprinkler Manufacturer: Reliable Automatic Sprinkler Co. Inc.													
R1015	1/2 in. NPT	5.6	Pendent	UL	Hydrocarbons	0.16	(6.5)	7.0	(0.48)	–	–	–	–

For Use With: CHEMGUARD C3B 3% AFFF

Sprinkler Head	Connection	K-Factor	Orientation	Agency Approval	Fuel	Minimum Application Rate		Minimum Inlet Pressure		Minimum Installation Height		Maximum Installation Height	
						gpm/ft ²	(Lpm/m ²)	psi	(bar)	ft	(m)	ft	(m)
Sprinkler Manufacturer: Johnson Controls													
TY313, TY315	1/2 in. NPT	5.6	Upright	FM	Hydrocarbons	0.20	(8.1)	—	—	6.0	(1.8)	35.5	(10.8)
				UL	Hydrocarbons	0.16	(6.5)	7.0	(0.48)	—	—	—	—
TY323, TY325	1/2 in. NPT	5.6	Pendent	FM	Hydrocarbons	0.20	(8.1)	—	—	6.0	(1.8)	34.5	(10.5)
				UL	Hydrocarbons	0.16	(6.5)	7.0	(0.48)	—	—	—	—
TY3131, TY3151	1/2 in. NPT	5.6	Upright	UL	Hydrocarbons	0.16	(6.5)	7.0	(0.48)	—	—	—	—
TY3231, TY3251	1/2 in. NPT	5.6	Pendent	UL	Hydrocarbons	0.16	(6.5)	7.0	(0.48)	—	—	—	—
TY4131, TY4151	3/4 in. NPT	8	Upright	FM	Hydrocarbons	0.30	(12.2)	—	—	6.0	(1.8)	35.5	(10.8)
				UL	Hydrocarbons	0.22	(9.0)	7.0	(0.48)	—	—	—	—
TY4231, TY4251	3/4 in. NPT	8	Pendent	FM	Hydrocarbons	0.30	(12.2)	—	—	6.0	(1.8)	34.5	(10.5)
				UL	Hydrocarbons	0.22	(9.0)	7.0	(0.48)	—	—	—	—
TY4851	1/2 in. NPT	8	Upright	FM	Hydrocarbons	0.30	(12.2)	—	—	6.0	(1.8)	35.5	(10.8)
				UL	Hydrocarbons	0.22	(9.0)	7.0	(0.48)	—	—	—	—
TY4951	1/2 in. NPT	8	Pendent	FM	Hydrocarbons	0.30	(12.2)	—	—	6.0	(1.8)	34.5	(10.5)
				UL	Hydrocarbons	0.22	(9.0)	7.0	(0.48)	—	—	—	—
TY5111	1/2 in. NPT	11.2	Upright	FM	Hydrocarbons	0.30	(12.2)	—	—	6.0	(1.8)	35.5	(10.8)
				UL	Hydrocarbons	0.32	(13.0)	7.0	(0.48)	—	—	—	—
TY5131, TY5151	3/4 in. NPT	11.2	Upright	UL	Hydrocarbons	0.32	(13.0)	7.0	(0.48)	—	—	—	—
TY5211	3/4 in. NPT	11.2	Pendent	FM	Hydrocarbons	0.30	(12.2)	—	—	6.0	(1.8)	34.5	(10.5)
				UL	Hydrocarbons	0.32	(13.0)	7.0	(0.48)	—	—	—	—
TY5231, TY5251	3/4 in. NPT	11.2	Pendent	UL	Hydrocarbons	0.32	(13.0)	7.0	(0.48)	—	—	—	—
TY5811	1/2 in. NPT	11.2	Upright	FM	Hydrocarbons	0.30	(12.2)	—	—	6.0	(1.8)	35.5	(10.8)
Model B1	1/2 in. NPT	3	Upright, Pendent	UL	Hydrocarbons	0.16	(6.5)	30.0	(2.07)	—	—	—	—
Sprinkler Manufacturer: The Viking Corporation													
Model M	1/2 in. NPT	2.8	Upright, Pendent	UL	Hydrocarbons	0.16	(6.5)	30.0	(2.07)	—	—	—	—
VK100	1/2 in. NPT	5.6	Upright	FM	Hydrocarbons	0.20	(8.1)	—	—	6.0	(1.8)	35.5	(10.8)
				UL	Hydrocarbons	0.16	(6.5)	7.0	(0.48)	—	—	—	—
VK102	1/2 in. NPT	5.6	Pendent	FM	Hydrocarbons	0.30	(12.2)	—	—	6.0	(1.8)	34.5	(10.5)
VK910	1/2 in. NPT	5.6	Pendent	UL	Hydrocarbons	0.16	(6.5)	7.0	(0.48)	—	—	—	—
VK200	1/2 in. NPT	8	Upright	FM	Hydrocarbons	0.30	(12.2)	—	—	6.0	(1.8)	35.5	(10.8)
				UL	Hydrocarbons	0.22	(9.0)	7.0	(0.48)	—	—	—	—
VK202	1/2 in. NPT	8	Pendent	FM	Hydrocarbons	0.30	(12.2)	—	—	6.0	(1.8)	34.5	(10.5)
VK530	3/4 in. NPT	11.2	Upright	FM	Hydrocarbons	0.30	(12.2)	—	—	6.0	(1.8)	35.5	(10.8)
				UL	Hydrocarbons	0.32	(13.0)	7.0	(0.48)	—	—	—	—
VK536	3/4 in. NPT	11.2	Pendent	FM	Hydrocarbons	0.30	(12.2)	—	—	6.0	(1.8)	34.5	(10.5)
				UL	Hydrocarbons	0.32	(13.0)	7.0	(0.48)	—	—	—	—
VK580	3/4 in. NPT	16.8	Upright	FM	Hydrocarbons	0.50	(20.4)	—	—	6.0	(1.8)	35.5	(10.8)
				UL	Hydrocarbons	0.47	(19.2)	7.0	(0.48)	—	—	—	—

For Use With: CHEMGUARD C3B 3% AFFF (Continued)

Sprinkler Head	Connection	K-Factor	Orientation	Agency Approval	Fuel	Minimum Application Rate		Minimum Inlet Pressure		Minimum Installation Height		Maximum Installation Height	
						gpm/ft ²	(Lpm/m ²)	psi	(bar)	ft	(m)	ft	(m)
Sprinkler Manufacturer: Grinnell Fire Protection Systems Co.													
Model F950	1/2 in. NPT	5.6	Upright	UL	Hydrocarbons	0.16	(6.5)	7.0	(0.48)	—	—	—	—
Sprinkler Manufacturer: Reliable Automatic Sprinkler Co. Inc.													
Model G	1/2 in. NPT	5.6	Upright, Pendent	UL	Hydrocarbons	0.16	(6.5)	7.0	(0.48)	—	—	—	—

For Use With: CHEMGUARD C306-MS-C 3% AFFF

Sprinkler Head	Connection	K-Factor	Orientation	Agency Approval	Fuel	Minimum Application Rate		Minimum Inlet Pressure		Minimum Installation Height		Maximum Installation Height	
						gpm/ft ²	(Lpm/m ²)	psi	(bar)	ft	(m)	ft	(m)
Sprinkler Manufacturer: Johnson Controls													
TY3131, TY3151	1/2 in. NPT	5.6	Upright	UL	Hydrocarbons	0.16	(6.5)	7.0	(0.48)	—	—	—	—
TY3251	1/2 in. NPT	5.6	Pendent	UL	Hydrocarbons	0.16	(6.5)	7.0	(0.48)	—	—	—	—
TY4131, TY4151	3/4 in. NPT	8	Upright	UL	Hydrocarbons	0.22	(9.0)	7.0	(0.48)	—	—	—	—
TY4231, TY4251	3/4 in. NPT	8	Pendent	UL	Hydrocarbons	0.22	(9.0)	7.0	(0.48)	—	—	—	—
TY4851	1/2 in. NPT	8	Upright	UL	Hydrocarbons	0.22	(9.0)	7.0	(0.48)	—	—	—	—
TY4951	1/2 in. NPT	8	Pendent	UL	Hydrocarbons	0.22	(9.0)	7.0	(0.48)	—	—	—	—
TY5111	3/4 in. NPT	11.2	Upright	UL	Hydrocarbons	0.32	(13.0)	7.0	(0.48)	—	—	—	—
TY5131, TY5151	3/4 in. NPT	11.2	Upright	UL	Hydrocarbons	0.32	(13.0)	7.0	(0.48)	—	—	—	—
TY5211	3/4 in. NPT	11.2	Pendent	UL	Hydrocarbons	0.32	(13.0)	7.0	(0.48)	—	—	—	—
Sprinkler Manufacturer: The Viking Corporation													
VK100	1/2 in. NPT	5.6	Upright	UL	Hydrocarbons	0.16	(6.5)	7.0	(0.48)	—	—	—	—
VK910	1/2 in. NPT	5.6	Pendent	UL	Hydrocarbons	0.16	(6.5)	7.0	(0.48)	—	—	—	—
VK200	1/2 in. NPT	8	Upright	UL	Hydrocarbons	0.22	(9.0)	7.0	(0.48)	—	—	—	—

For Use With: CHEMGUARD C3B-LT29 3% AFFF

Sprinkler Head	Connection	K-Factor	Orientation	Agency Approval	Fuel	Minimum Application Rate		Minimum Inlet Pressure		Minimum Installation Height		Maximum Installation Height	
						gpm/ft ²	(Lpm/m ²)	psi	(bar)	ft	(m)	ft	(m)
Sprinkler Manufacturer: Johnson Controls													
TY3221	1/2 in. NPT	5.6	Pendent	UL	Hydrocarbons	0.16	(6.5)	7.0	(0.48)	—	—	—	—
Sprinkler Manufacturer: Reliable Automatic Sprinkler Co. Inc.													
R1015	1/2 in. NPT	5.6	Pendent	UL	Hydrocarbons	0.16	(6.5)	7.0	(0.48)	—	—	—	—

Note: The converted metric values in this document are provided for dimensional reference only and do not reflect an actual measurement. CHEMGUARD, and the product names listed in this material are marks and/or registered marks. Unauthorized use is strictly prohibited.