Engineering Specification

Model WP56 Series Specific Application Window Sprinklers

**Recommended CSI MasterFormat Specification Location: 21 13 13, Wet Pipe Sprinkler Systems (formerly 13930)**

WP56

Sprinklers shall be pendent vertical sidewall utilizing a fast-response thermal element and be cULus Listed to provide protection of non-operable window or glazing that is part of a fire resistance rated wall in sprinklered or non-sprinklered buildings. Sprinkler frame and deflector shall be of brass alloy construction and be fitted with a removeable plastic bulb protector. Water seal assembly shall consist of a PTFE coated Belleville spring washer and top-loaded extruded cup with 3mm glass bulb and contain no plastic parts. Sprinkler temperature rating shall be **[**155°F (68°C)**] [**200°F (93°C)**]**. Sprinklers shall have a nominal K-factor of 5.6 gpm/psi1/2 (80.0 l/min/bar1/2) standard orifice and be provided with **[**1/2” NPT**] [**ISO 7-1 R1/2**]** threads. Sprinklers shall have a rated working pressure of 250 psi (17.2 bar). Finish shall be **[**Bronze**] [**Chrome Plated**] [**White Polyester**] [**Special finish–specify**]**. Sprinklers shall be Reliable Model WP56, SIN R501. Refer to Reliable Bulletin 181 for additional technical information.

WP56L

Sprinklers shall be pendent vertical sidewall utilizing a fast-response thermal element and be cULus Listed to provide protection of non-operable window or glazing that is part of a fire resistance rated wall in sprinklered or non-sprinklered buildings. Sprinkler frame and deflector shall be of brass alloy construction. Water seal assembly shall consist of a PTFE coated Belleville spring washer and beryllium-nickel fusible solder link assembly utilizing a strut and lever principal of operation with bronze alloy cap and contain no plastic parts. Sprinkler temperature rating shall be **[**165°F (74°C)**] [**212°F (100°C)**]**. Sprinklers shall have a nominal K-factor of 5.6 gpm/psi1/2 (80.0 l/min/bar1/2) standard orifice and be provided with **[**1/2” NPT**] [**ISO 7-1 R1/2**]** threads. Sprinklers shall have a rated working pressure of 250 psi (17.2 bar). Finish shall be **[**Bronze**] [**Chrome Plated**] [**White Polyester**] [**Special finish–specify**]**. Sprinklers shall be Reliable Model WP56L, SIN R502. Refer to Reliable Bulletin 181 for additional technical information.

WP56C

Flat concealed pendent sprinklers shall be cULus Listed to provide protection of non-operable window or glazing that is part of a fire resistance rated wall in sprinklered or non-sprinklered buildings. Sprinkler to be of bronze frame construction with drop down deflector and **[**165°F (74°C)**] [**212°F (100°C)**]** fusible solder link assembly. Water seal construction shall utilize Belleville spring seal coated with Teflon film on both sides. Concealed pendent sprinkler shall have a nominal K-factor of 5.6 gpm/psi1/2 (80 l/min/bar1/2) – standard orificeand have [½” NPT**]** **[**R½**]** thread. Sprinklers shall have a rated working pressure of 250 psi (17 bar).

Flat cover plate assembly construction shall consist of brass cover plate attached to copper alloy skirt using **[**135°F (57°C)**] [**165°F (74°C)**]** ordinary temperature classification solder. Concealed pendent sprinklers shall be low profile, having a maximum installation dimension of 2¼” (57 mm) at full cover plate adjustment. Cover plate shall attach to sprinkler cup assembly by a threaded engagement providing ¾” (19 mm) of cover plate adjustment. Cover plate design shall be **[**White Painted**] [**Chrome**] [**Special Finish – specify**]**.

A secure, factory installed protective cap shall be provided and shall be capable of preventing paint, joint compound, and other foreign matter from getting between and into the sprinkler cup assembly.

Sprinklers shall be the Model WP56, SIN R504. Refer to Reliable Bulletin 181 for associated technical information.