

# Genie Fire

## Sprinkler Manual



**DAEJIN Glass-bulb**

**Fire Sprinklers**

**Pendent, Upright, Horizontal Sidewall**

**Standard Response, Standard Coverage**

**Quick Response, Standard Coverage**



1. DESCRIPTION

The **DAEJIN** Standard/Quick Response Sprinkler is a small, thermosensitive glass-bulb spray sprinkler available in different temperature ratings designed for use in light, ordinary or extra hazard, commercial occupancies such as bank, hotels, shopping malls, factories, refineries, chemical plants.

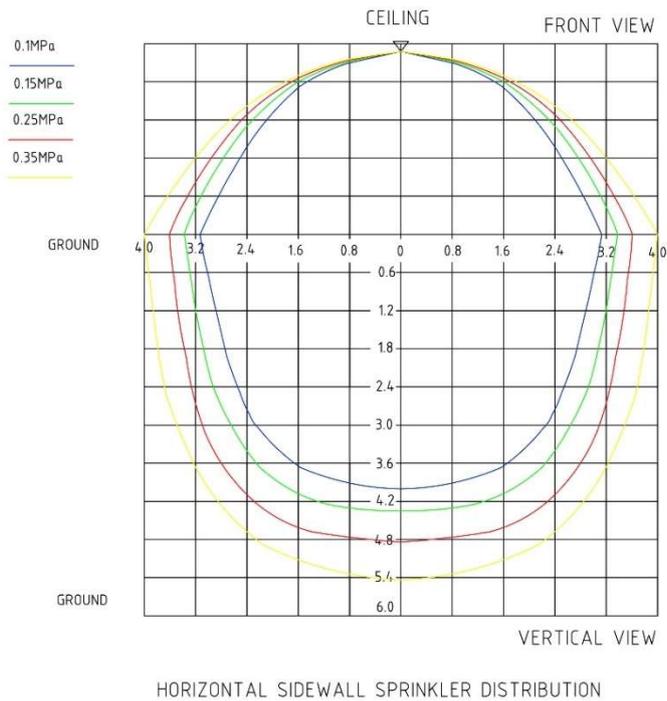
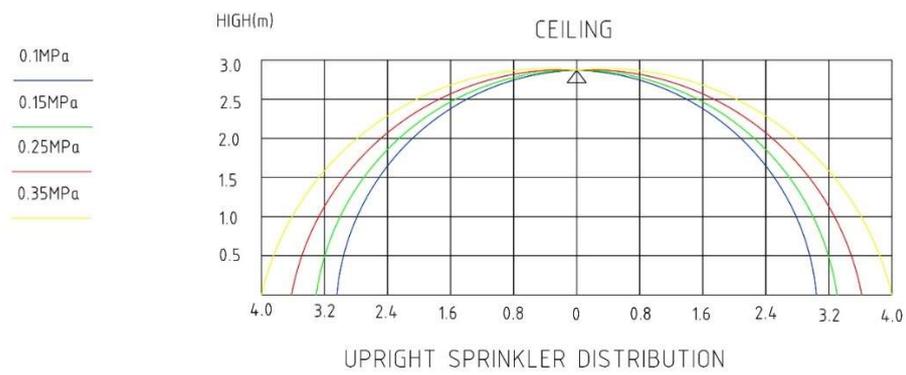
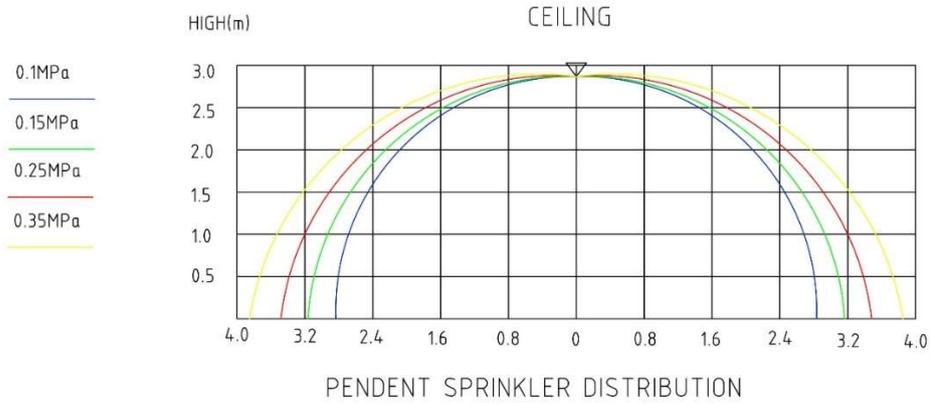
2. LISTINGS AND APPROVALS: UL (United States)/cUL (Canada)

3. TECHNICAL DATA

- a) Minimum Operating Pressure: 7psi (0.5bar)
- b) Maximum Working Pressure: 175psi (12 bar)
- c) Factory Tested Hydrostatically to 500psi (35 bar)
- d) Thread Size: 1/2" NPT, 15mm BSPT
- e) Nominal K-Factor: 5.6 U.S (80.6 Metric)
- f) Glass-bulb Temp. Rating 135°F/(57°C) 155°F/(68°C) 175°F/(79°C) 200°F/(93°C) 286°F/(141°C)

SIN	Sprinkler Style	Response Type	Glass-bulb Temp. Rating
DJPS01	Pendent	Standard	135°F/(57°C) 155°F/(68°C) 175°F/(79°C) 200°F/(93°C) 286°F/(141°C)
DJPQ02	Pendent	Quick	
DJUS03	Upright	Standard	
DJUQ04	Upright	Quick	
DJSS05	Horizontal Sidewall	Standard	
DJSQ06	Horizontal Sidewall	Quick	

4. DISTRIBUTION



## 5. OPERATION

During fire conditions, the heat-sensitive liquid in the glass bulb expands, causing the glass to shatter, releasing the button and sealing spring assembly. Water flowing through the sprinkler orifice strikes the sprinkler deflector, forming a uniform spray pattern to extinguish or control the fire.

## 6. INSTALLATION

Refer to appropriate NFPA13 installation standards

### Notes:

Do not install the sprinkler if the glass bulb is cracked or there is a loss of liquid from the bulb.

A leak tight 1/2 inch NPT sprinkler joint should be obtained with a torque of 7 to 14 ft-lbs. (9.5 to 19.0 Nm). A maximum of 21 ft-lbs. (28.5Nm) of torque may be used to install sprinklers with 1/2 inch NPT connections.

**Step 1.** Pendent sprinklers (**SIN DJPS01 and DJPQ02**) are to be installed in the pendent position, Upright sprinklers (**SIN DJUS03 and DJUQ04**) are to be installed in the upright position and horizontal sidewall sprinklers (**SIN DJSS05 and DJSQ06**) are to be installed in the horizontal sidewall position.

**Step 2.** With pipe thread sealant applied to the pipe threads, hand tighten the sprinkler into the sprinkler fitting.

**Step 3.** Tighten the sprinklers into the fitting by hand, use a 22mm open spanner (Ref. Figure 1) to tighten the sprinkler into the fitting. **Do not use spanner on the frame arms only on the wrench flats (Ref. Figure 2).**

**Step 4.** Remove the plastic protective cover after completing the installation, don't leave the cover on the frame, otherwise it will affect the heat response function.

## 7. CARE AND MAINTENANCE

The owner must assure that the sprinklers are not used for hanging of any objects. Otherwise, non-operation in the event of a fire or inadvertent operation may result.

Absence of an escutcheon, which is used to cover a clearance hole may delay the time to sprinkler operation in a fire situation.

Sprinklers that are found to be leaking or exhibiting visible signs of corrosion must be replaced.

Automatic sprinklers must never be painted, plated, coated or otherwise altered after leaving the factory.

Care must be exercised to avoid damage to the sprinklers - before, during and after installation. **Sprinklers damaged by dropping, striking, wrench twist/slippage, or the like, must be replaced.** Also, replace any sprinkler that has a cracked bulb or that has lost liquid from its bulb. (Ref. Installation Section)

The owner is responsible for the inspection, testing and maintenance of their fire protection system and devices in compliance with this document, as well as with the

applicable standards of National Fire Protection Association (e.g. NFPA 25), in addition to the standards of any other authorities having jurisdiction. The installing contractor or sprinkler manufacturer should be contacted relative to any question.

It is recommended that automatic sprinkler systems be inspected, tested and maintained by a qualified inspection service in accordance with local requirements and/or national codes.

