UPRIGHT, PENDENT AND RECESSED PENDENT SPRINKLER (STANDARD & QUICK RESPONSE)



TECHNICAL DATA

TECHNICAL DATA	\wedge
STYLE	Upright, Pendent and Recessed Pendent
TEMPERATURE RESPONSE	Standard Response-5mm glass bulb Quick Response-3mm glass bulb
COVERAGE	Standard Coverage
K-FACTOR	8.0 US (115 metric)
NOMINALTHREAD Optional) SIZE	3/4" BSPT (NPT
MAXIMUM WORKING PRESSURE	175PSI 12Bar
FACTORY HYDROSTATIC TEST PRESSURE	365 PSI
MINIMUM OPERATING PRESSURE	7 PSI 0.5Bar
TEMPERATURE RATING	57°C (135° F), 68°C (155° F), 79°C (175° F), 93°C (200° F), 141°C (286°F),182°C (360°F)
APPROVALS	Refer Table
FINISH	Brass, Chrome Plated, White Painted. White shade is RAL9010. For other shades, contact JYCO Sales. For SIN Nos. JY4151/JY4251/JY4131/JY4231, chrome plating will not be done on the threaded portion.
ORDERING INFORMATION	Style,Temperature Rating & Response,Thread type, Finish, Approval required-CCCF, CE
SIN NUMBER	Pendent, SR: JY4151 Upright, SR: JY4251 Pendent, QR: JY4131 Upright, QR: JY4231



DESCRIPTION

JYCO Pendent and Upright sprinklers are designed for use in light and ordinary hazards. The temperature response is standard response (5mm glass bulb) and quick response (3mm glass bulb). The sprinklers come with compact design, glass bulb type, available in several different finishes and temperature ratings. The pendent sprinklers must be installed in pendent position, and upright sprinklers are to be installed in the upright position.

Pendent Recessed Sprinklers are installed with adjustable or non-adjustable Escutcheon plates (also termed as Rosette plates). These are intended to be installed with finished ceilings. Escutcheon plate adjustment provides convenience in Pendent Sprinkler installation in case of areas with finished ceilings or walls.

SPRINKLER RATINGS

SPRINKLER TEMPERATURE CLASSIFICATION	NORMAL SPRINKLER TEMPERATURE RATING	NFPA MAXIMUM CEILING TEMPERATURE ALLOWED	GLASS BULB COLOUR
Ordinary	57°C (135°F)	38°C (100°F)	Orange
Ordinary	68°C (155°F)	38°C (100°F)	Red
Intermediate	79°C (175°F)	66°C (150°F)	Yellow
Intermediate	93°C (200°F)	66°C (150°F)	Green
High	141°C (286°F)	107°C (225°F)	Blue
Extra High	182°C (360°F)	149°C (300°F)	Purple

As per Table 6.2.5.1 NFPA 13

JULY, 2024 PAGE 1 OF 5



APPROVALS

Response Type	Orientation Type / SIN No.	Temperature Rating	Approval	CCCF, CE	Code No
		57°C (135°F)	√	√	T425157
6.0	PENDENT JY4251	68°C (155°F)	√	√	T425168
SR	PENDENT J14231	79°C (175°F)	√	√	T425179
		93°C (200°F)	√	√	T425193
		57°C (135°F)	√	√	T415157
0.5	LIDDICLIT IVALEI	68°C (155°F)	√	√	T415168
SR	SR UPRIGHT JY4151	79°C (175°F)	√	√	T415179
		93°C (200°F)	√	√	T415193
		57°C (135°F)	√	√	T423157
QR PENDENT JY4231	68°C (155°F)	√	√	T423168	
	79°C (175°F)	√	√	T423179	
	93°C (200°F)	√	√	T423193	
		57°C (135°F)	√	√	T413157
QR UPRIGHT JY4131	LIDDICLIT IV 4121	68°C (155°F)	√	√	T413168
	79°C (175°F)	√	√	T413179	
	93°C (200°F)	√	√	T413193	

MATERIAL SPECIFICATION	
Deflector	Stainless steel
Bulb	Glass
Сар	Copper *
Frame	Brass
Seal	Teflon Coated Washer
Bulb Nominal Diameter	Standard Response 5.0mm Quick Response 3.0mm

^{*} Note: For SIN Nos. JY4151/JY4251/ JY4131/ JY4231 the frame material can choose stainless steel or anti-corrosion.

JULY, 2024 PAGE 2 OF 5



Sprinkler Operation

The Sprinkler operating device is state of the art heat responsive frangible glass bulb supplied by a world leader in this innovative technology. The glass bulb contains fluid which expands when exposed to heat. When rated temperature is reached, the bulb shatters and water flows through the sprinkler and strikes deflector, forming a uniform water spray pattern to control or extinguish fire.

Care and Handling

Sprinklers must be handled with due care, they must be stored at ambient temperature for best results and in a separate space in order NOT to allow metal parts coming in contact with sprinkler or bulb. Storage as well as any onward shipment is to be made in original packaging only.

Always store the sprinklers with protective sprinkler caps. Do not remove the protective sprinkler caps until the sprinklers are installed in the system, in order to protect sprinklers from mechanical damage. Sprinklers caps must be removed carefully without touching / damaging the bulb element, before placing the system in service.

Sprinklers must be visually inspected carefully before installation. Sprinklers visibly damaged, dropped or exposed to temperature in excess of the maximum ambient temperature permitted, should never be installed.

Never install any glass blub sprinkler if the bulb is cracked or if there is a loss of liquid from the bulb. Sprinkler must be installed after the piping is in place to prevent mechanical damage.

Use Teflon Tape or soft thread sealent on male thread of the Sprinkler for the leak tight Sprinkler joint. Use proper wrench. The sprinkler must be hand tightened into the fitting. After hand tightening, use Sprinkler Wrench Model JP-L for wrench tightening into sprinkler fittings. A leak-tight 3/4 NPT/BSPT Sprinkler joint should be obtained by applying maximum torque of 19.0 N-m (14 lb-ft). Excessive tightening torque may distort the Sprinkler inlet and cause leakage.

Sprinkler must never be painted, plated or coated after they leave factory.

The JYCO Sprinkler described herein must be installed and maintained in accordance with the latest edition of JYCO technical data, the latest standard of National Fire protection Association (NFPA) and CE or to the standard of any other authorities having jurisdiction.

The owner is solely responsible for maintaining their fire protection system and device in proper operating condition.

Exposure to ultraviolet or direct sunlight for extended period may cause the liquid dye in glass bulb to fade or lose colour. Colourless or faded coloured bulbs are not a problem, as long as the fluid level has not been affected. The loss of colour in the liquid will not effect sprinkler performance, as long as the bulb is intact and not damaged. The loss of colour may be an issue in identifying sprinkler temperature rating, but the temperature rating is still stamped on the sprinkler deflector.

Inspection Testing and Maintenance

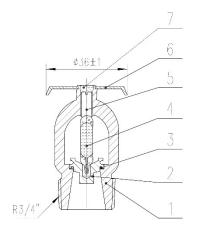
Refer to NFPA 25 for inspection testing and maintenance requirement or to the authority having jurisdiction. For details of warranty, refer JYCO's current price list, conditions of sale or contact JYCO directly.

Note:

In case of using JY4151/JY4251 & JY4131/JY4231 sprinklers as part of CE Approved Low Expansion Foam Systems, the certification of the system is contingent upon piping designed and installed in accordance with NFPA 11 and/ or CE Global Property Loss Prevention Data Sheet 4-12, Foam-Water Sprinkler Systems.

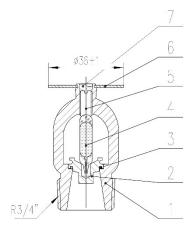


PENDENT & UPRIGHT SPRINKLER



	Descriptions
1	Body frame
2	Gasket
3	O-ring
4	Glass bulb 5mm
5	Pressing screw
6	Deflector
7	Load screw

SERIES JY-B UPRIGHT (JY4151) SPRINKLERS 8.0 K-FACTOR, 3/4 INCH BSPT, STANDARD RESPONSE



	Descriptions
1	Body frame
2	Gasket
3	O-ring
4	Glass bulb 5mm
5	Pressing screw
6	Deflector
7	Load screw
	•

SERIES JY-B PENDENT (JY4251) SPRINKLERS 8.0 K-FACTOR, $_{3/4}$ INCH BSPT, STANDARD RESPONSE

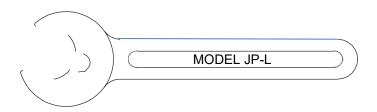
Note: Deflector diameter is 30 mm.

HOLE-960 Max HOLE-961 Min HOLE-975 Min Maximum Recess Maximum Extension

JULY, 2024 PAGE 4 OF 5



SPRINKLER WRENCH



LIMITED WARRANTY

JYCO FIRE CORP. hereby referred to as JYCO FIRE warrants to the original purchaser of the fire protection products manufactured by JYCO FIRE and to any other person to whom such equipment is transferred, that such products will be free from defect in material and workmanship under normal use and care, for two (2) years from the date of shipment by JYCO FIRE. Products or Components supplied or used by JYCO FIRE, but manufactured by others, are warranted only to the extent of the manufacturer's warranty. No warranty is given for product or components which have been subject to misuse, improper installation, corrosion, unauthorized repair, alteration or unmaintained. JYCO FIRE shall not be responsible for system design errors or improper installation or inaccurate or incomplete information supplied by buyer or buyer's representatives. JYCO FIRE will repair or replace defective material free of charge, which is returned to our factory, transportation charge prepaid, provided after our inspection the material is found to have been defective at the time of initial shipment from our works. JYCO FIRE shall not be liable for any incidental or consequential loss, damage or expense arising directly or indirectly from the use of the product including damages for injury to person, damages to property and penalties resulting from any products and components manufactured by JYCO FIRE. JYCO FIRE shall not be liable for any damages or labour charges or expense in making repair or adjustment to the product. JYCO FIRE shall not be liable for any damages or charges sustained in the adaptation or use of its engineering data & services. In no event shall JYCO FIRE's product liability exceed an amount equal to the sale price. The foregoing warranty is exclusive and in lieu of all other warranties and representation whether expressed, implied, oral or written, including but not limited to, any implied warranties or merchantability or fitness for a particular purpose. All such other warranties and representations are hereby cancelled.

NOTICE:

The equipment presented in this bulletin is to be installed in accordance with the latest publication standards of NFPA or other similar organisations and also with the provision of government codes or ordinances wherever applicable.

The information provided by us is to the best of our knowledge and belief, and consist of general guidelines only. Site handling and installation control is not in our scope. Hence we give no guarantee for result and take no liability for damages, loss or penalties whatsoever, resulting from our suggestion, information, recommendation or damages due to our product.

Product development is a continuous programme of JYCO FIRE CORP . and hence the right to modify any specification without prior notice is reserved with the company.



Ximei Town, Nan'an City, Fujian province, China.

• TEL: +86 15905012778 • WEB: https://jycofire.com

• EMAIL: jycofire@gmail.com

JULY, 2024 PAGE 5 OF 5