



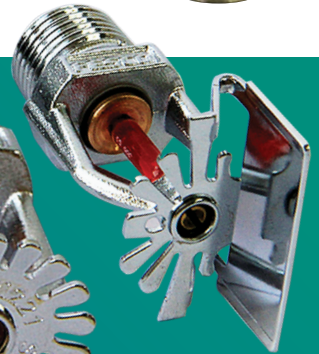
**ATLANTA INDUSTRIES, INC.**

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[www.atlanta.ph](http://www.atlanta.ph)

ATLANTA  
**FESCO**  
FIRE SPRINKLER HEADS



# SPRINKLERS



Pendent Type  
UL/FM



Sidewall Type  
UL/FM



Upright Type  
UL/FM

## Glass Bulb Type Sprinkler

Atlanta FESCO Glass Bulb Type Sprinkler is specially designed to meet various customer requirements. It uses glass bulb which contains special liquid instead of conventional fuse. The glass bulb simplifies sprinkler structure and ensure stable operation in varying ambient temperature.

Sprinkler Type	Pendent	Upright	Sidewall
Working Temperature	68°C (155°F)		93°C (200°F)
Max Ambient Temp.	65°C (150°F)		
Temp. Indication Color	Red		Green
Connection Screw Size	NPT 1/2"		
Orifice Size	Ø57.0mm		
Test Pressure	Rated Water Press: 500psi (3.5Mpa)   Air Press: 100psi (0.7Mpa)		
Maximum Working Pressure	175psi (1.23Mpa)		
Flow Rate	80.7ℓ/min-0.1Mpa (K = 80)		
Glass Bulb	5mm		

Sprinkler Finishes: Brass, Nickel-Chrome, White Polyester, Black Teflon Coating



Pendent Type  
UL/FM



Sidewall Type  
UL/FM



Upright Type  
UL/FM

## Glass Quick Response Type Sprinkler

Atlanta FESCO Quick Response Type Sprinkler reacts to heat faster than any regular sprinkler ideally designed for in populated areas where mass human loss or injuries can be occurred such as schools, hospitals, office buildings, hotels, restaurants, auditoriums and other facilities with similar occupancy.

Sprinkler Type	Pendent	Upright	Sidewall
Working Temperature	68°C (155°F)	93°C (200°F)	
Max Ambient Temp.		65°C (150°F)	
Temp. Indication Color	Red		Green
Connection Screw Size		NPT 1/2"	
Orifice Size		Ø57.0mm	
Test Pressure	Rated Water Press: 500psi (3.5Mpa)   Air Press: 100psi (0.7Mpa)		
Maximum Working Pressure		175psi (1.23Mpa)	
Flow Rate		80.7ℓ/min-0.1Mpa (K = 80)	
Glass Bulb		3mm	

*Sprinkler Finishes: Brass, Nickel-Chrome, White Polyester, Black Teflon Coating*

# SPRINKLERS



PI 310  
UL/FM



PI 320  
UL/FM



PI 340  
UL/FM

## Glass Bulb Type Compact Sprinkler

Atlanta FESCO Glass Bulb Type Compact Sprinkler is specially made for design constraint fire sprinkler system. Compactly made for minimal exposure of the sprinkler head with same effectiveness and longevity of the heads.

Sprinkler Type	Pendent	Upright	Sidewall
Working Temperature	68°C (155°F)	93°C (200°F)	
Max Ambient Temp.	38°C (100°F)	65°C (150°F)	
Temp. Indication Color	Red	Green	
Connection Screw Size		NPT 1/2"	
Orifice Size		Ø57.0mm	
Test Pressure	Rated Water Press: 500psi (3.5Mpa)   Air Press: 100psi (0.7Mpa)		
Minimum Working Pressure		7psi (0.0483Mpa)	
Maximum Working Pressure		175psi (1.23Mpa)	
Discharge Coefficient		K = 5.6 GPM/psi <sup>1/2</sup> (80.7 LPM/bar <sup>1/2</sup> )	
Glass Bulb		5mm	

Sprinkler Finishes: Brass, Nickel-Chrome, White Polyester, Black Teflon Coating



PI 311  
UL/FM



PI 321  
UL/FM



PI 341  
UL/FM

## Glass Quick Response Type Compact Sprinkler

Atlanta FESCO Glass Quick Response Type Compact Sprinkler reacts on the heat faster than the regular sprinkler head. With its compact design, tight space that needs fire protection can be easily implemented.

Sprinkler Type	Pendent	Upright	Sidewall
Working Temperature	68°C (155°F)		93°C (200°F)
Max Ambient Temp.	38°C (100°F)		65°C (150°F)
Temp. Indication Color	Red		Green
Connection Screw Size		NPT 1/2"	
Orifice Size		Ø57.0mm	
Test Pressure	Rated Water Press: 500psi (3.5Mpa)   Air Press: 100psi (0.7Mpa)		
Minimum Working Pressure		7psi (0.0483Mpa)	
Maximum Working Pressure		175psi (1.23Mpa)	
Discharge Coefficient		K = 5.6 GPM/psi <sup>1/2</sup> (80.7 LPM/bar <sup>1/2</sup> )	
Glass Bulb		5mm	

Sprinkler Finishes: Brass, Nickel-Chrome, White Polyester, Black Teflon Coating

# SPRINKLERS



PI 720 UL

## Flush Type Sprinkler

Atlanta FESCO Flush Type Sprinkler is a small highly sensitive fusible element residential sprinkler designed for installation on concealed pipe systems where the appearance of smooth ceiling is desired.

Sprinkler Type	PI 720	
Working Temperature	72°C (162°F)	105°C (221°F)
Max Ambient Temp.	65°C (150°F)	
Response Speed	Standard Response	
Connection Screw Size	NPT 1/2"	
Orifice Size	Ø57.0mm	
Test Pressure	Rated Water Press: 500psi (3.5Mpa)   Air Press: 100psi (0.7Mpa)	
Maximum Working Pressure	175psi (1.23Mpa)	
Flow Rate	80ℓ/min-0.1Mpa (K = 5.6g/min-14.2psi)	
Glass Bulb	5mm	

Sprinkler Finishes: Brass, Copper

## Escutcheon Plate



Type	Size
Flat for Sidewall Sprinkler Head	1/2" NPT 3/4" NPT



Type	Size
Recessed Pendent Sprinkler Head	1/2" NPT 3/4" NPT



Concealed Type



Cover Plate Color



\* Color of cover plate Can be custom ordered

## Concealed Type Sprinkler

Atlanta FESCO Standard and Quick Response Pendent Sprinkler PI820 and PI821 are thermosensitive glass-bulb spray sprinklers with the cover plate. The sprinkler is pre-assembled with a threaded adapter for installation with a low-profile cover assembly that provides up to 10mm of vertical adjustment.

Sprinkler Type	PI820	PI821
Temperature Rating	Sprinkler 68°C(155°F)   93°C(200°F)	
Connection Screw Size	NPT 1/2"	
Minimum Working Pressure	7psi (0.0483Mpa)	
Maximum Working Pressure	175psi (1.23Mpa)	
Discharge Coefficient	K = 5.6 GPM/psi <sup>1/2</sup> (80.7 LPM/bar <sup>1/2</sup> )	
Leakage Test at Factory (Air)	426.7psi (0.3Mpa, 29.4bar) 30Kgf/cm <sup>2</sup>	

Note: Items are On-Order Basis

## Operation

During fire conditions, when the temperature around the sprinkler approaches its operating temperature, the cover plate detaches. Continued heating of the exposed sprinkler causes the heat-sensitive liquid in the glass bulb to expand and the bulb to shatter, releasing the bulb cap 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.

# APPROVALS

**FM APPROVED**

**Certificate of Compliance**  
This certificate is issued for the following equipment:

**Automatic Control Mode Sprinklers for Fire Protection**

Model	K	Type	Resp.	Element	NPT (in.)	Finishes	Temperature Ratings (°F/°C)
PS10	5.6	Upright	SR	3 mm	1/2	Brass, Chrome, Polyester, Black Teflon	135, 155, 175, 200, 286 (57, 68, 79, 93, 141)
PS11	5.6	Upright	QR	3 mm	1/2	Brass, Chrome, Polyester, Black Teflon	135, 155, 175, 200, 286 (57, 68, 79, 93, 141)

Prepared for: PARATECH Co., Ltd., 3621 Giljeon-Gil/Jongno, Wonsan, Bucheon, Kyunggi-do, Republic of Korea

Manufacturing Location: PARATECH Co., Ltd., 652 Chomsaeng, Wonsan, Bucheon, Kyunggi-do, Republic of Korea

FM Approvals Class: 2018  
FM Approval Standard: Class Series 2000 (March 2008)

Approval Identification: 3056126  
Approval Granted: February 12, 2018

To verify the availability of the Approved product, please refer to [www.fma.org/ul](http://www.fma.org/ul).

Said Approval is subject to satisfactory field performance, continuing surveillance audits, and strict conformity to the construction as shown in the Approval Guide, an online resource of FM Approvals.

*David B. Fuller*  
David B. Fuller  
VP, Manager - Fire Protection  
FM Approvals  
111 Boston-Providence Turnpike  
Norwood, MA 02062  
USA

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Member of the FM Global Group

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**Automatic Control Mode Sprinklers for Fire Protection**

Model	K	Type	Resp.	Element	NPT (in.)	Finishes	Temperature Ratings (°F/°C)
PS10	5.6	Pendent	SR	3 mm	1/2	Brass, Chrome, Polyester, Black Teflon	135, 155, 175, 200, 286 (57, 68, 79, 93, 141)
PS11	5.6	Pendent	QR	3 mm	1/2	Brass, Chrome, Polyester, Black Teflon	135, 155, 175, 200, 286 (57, 68, 79, 93, 141)

Prepared for: PARATECH Co., Ltd., 3621 Giljeon-Gil/Jongno, Wonsan, Bucheon, Kyunggi-do, Republic of Korea

Manufacturing Location: PARATECH Co., Ltd., 652 Chomsaeng, Wonsan, Bucheon, Kyunggi-do, Republic of Korea

FM Approvals Class: 2017  
FM Approval Standard: Class Series 2000 (March 2008)

Approval Identification: 3056126  
Approval Granted: February 12, 2018

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*David B. Fuller*  
David B. Fuller  
VP, Manager - Fire Protection  
FM Approvals  
111 Boston-Providence Turnpike  
Norwood, MA 02062  
USA

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**Automatic Control Mode Sprinklers for Fire Protection**

Model	K	Type	Resp.	Element	NPT (in.)	Finishes	Temperature Ratings (°F/°C)
PS10	5.6	Horizontal	SR	3 mm	1/2	Brass, Chrome, Polyester, Black Teflon	135, 155, 175, 200, 286 (57, 68, 79, 93, 141)
PS11	5.6	Horizontal	QR	3 mm	1/2	Brass, Chrome, Polyester, Black Teflon	135, 155, 175, 200, 286 (57, 68, 79, 93, 141)

Prepared for: PARATECH Co., Ltd., 3621 Giljeon-Gil/Jongno, Wonsan, Bucheon, Kyunggi-do, Republic of Korea

Manufacturing Location: PARATECH Co., Ltd., 652 Chomsaeng, Wonsan, Bucheon, Kyunggi-do, Republic of Korea

FM Approvals Class: 2012  
FM Approval Standard: Class Series 2000 (March 2008)

Approval Identification: 3056126  
Approval Granted: February 12, 2018

To verify the availability of the Approved product, please refer to [www.fma.org/ul](http://www.fma.org/ul).

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*David B. Fuller*  
David B. Fuller  
VP, Manager - Fire Protection  
FM Approvals  
111 Boston-Providence Turnpike  
Norwood, MA 02062  
USA

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Member of the FM Global Group

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**Automatic Control Mode Sprinklers for Fire Protection**

Model	K	Type	Resp.	Element	NPT (in.)	Finishes	Temperature Ratings (°F/°C)
PS10	5.6	End-Back Upright	SR	3 mm	1/2	Brass, Chrome, Polyester, Black Teflon	135, 155, 175, 200, 286 (57, 68, 79, 93, 141)
PS11	5.6	End-Back Upright	QR	3 mm	1/2	Brass, Chrome, Polyester, Black Teflon	135, 155, 175, 200, 286 (57, 68, 79, 93, 141)

Prepared for: PARATECH Co., Ltd., 3621 Giljeon-Gil/Jongno, Wonsan, Bucheon, Kyunggi-do, Republic of Korea

Manufacturing Location: PARATECH Co., Ltd., 652 Chomsaeng, Wonsan, Bucheon, Kyunggi-do, Republic of Korea

FM Approvals Class: 2003  
FM Approval Standard: Class Series 2000 (February 2015)

Approval Identification: 3063750  
Approval Granted: April 2, 2018

To verify the availability of the Approved product, please refer to [www.fma.org/ul](http://www.fma.org/ul).

Said Approval is subject to satisfactory field performance, continuing surveillance audits, and strict conformity to the construction as shown in the Approval Guide, an online resource of FM Approvals.

*David B. Fuller*  
David B. Fuller  
VP, Manager - Fire Protection  
FM Approvals  
111 Boston-Providence Turnpike  
Norwood, MA 02062  
USA

**FM Approvals**  
Member of the FM Global Group

**FM APPROVED**

**Certificate of Compliance**  
This certificate is issued for the following equipment:

**Automatic Control Mode Sprinklers for Fire Protection**

Model	K	Type	Resp.	Element	NPT (in.)	Finishes	Temperature Ratings (°F/°C)
PS10	5.6	End-Back Pendent	SR	3 mm	1/2	Brass, Chrome, Polyester, Black Teflon	135, 155, 175, 200, 286 (57, 68, 79, 93, 141)
PS11	5.6	End-Back Pendent	QR	3 mm	1/2	Brass, Chrome, Polyester, Black Teflon	135, 155, 175, 200, 286 (57, 68, 79, 93, 141)

Prepared for: PARATECH Co., Ltd., 3621 Giljeon-Gil/Jongno, Wonsan, Bucheon, Kyunggi-do, Republic of Korea

Manufacturing Location: PARATECH Co., Ltd., 652 Chomsaeng, Wonsan, Bucheon, Kyunggi-do, Republic of Korea

FM Approvals Class: 2005  
FM Approval Standard: Class Series 2000 (February 2015)

Approval Identification: 3063750  
Approval Granted: April 2, 2018

To verify the availability of the Approved product, please refer to [www.fma.org/ul](http://www.fma.org/ul).

Said Approval is subject to satisfactory field performance, continuing surveillance audits, and strict conformity to the construction as shown in the Approval Guide, an online resource of FM Approvals.

*David B. Fuller*  
David B. Fuller  
VP, Manager - Fire Protection  
FM Approvals  
111 Boston-Providence Turnpike  
Norwood, MA 02062  
USA

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Member of the FM Global Group

**CERTIFICATE OF COMPLIANCE**

Certificate Number: 2012103-EX5991  
Report Reference: EX5991-20121030  
Issue Date: 2012-10-30

Issued to: PARADISE INDUSTRY CO LTD  
PLANT 65-2 CHOONEU-DONG  
WOOCHU-KU  
BUCHON-CITY KYUNGGI-DO KOREA

This is to certify that representative samples of SPRINKLERS, AUTOMATIC AND OPEN Automatic sprinklers, incorporating 3 mm and 5 mm frangible glass bulbs, PH20, PH21

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: ANSI/UL 199 - Automatic Sprinklers for Fire Protection Service  
ULC/ORDC-199 - Automatic Sprinklers for Fire Protection Service

Additional Information: See the UL Online Certifications Directory at [www.ul.com/directory](http://www.ul.com/directory) for additional information

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes the UL in a circle symbol with "C" and "US" identifiers. The word "LISTED" a control number (may be alphanumeric) assigned by UL, and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.

*David B. Fuller*  
David B. Fuller  
VP, Manager - Fire Protection  
FM Approvals  
111 Boston-Providence Turnpike  
Norwood, MA 02062  
USA

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**CERTIFICATE OF COMPLIANCE**

Certificate Number: 20180306-EX5991  
Report Reference: EX5991-20180306  
Issue Date: 2018-MARCH-06

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Automatic sprinklers, incorporating 3 mm and 5 mm frangible glass bulbs in the following models, styles and temperature ratings:

SN	Response Type	Type	K-Factor	Temperature Rating, °F
PH10	SR	Upright, Intermediate Level Upright	5.6	135, 155, 175, 200, 286
PH11	QR	Upright, Intermediate Level Upright	5.6	135, 155, 175, 200, 286
PH20	SR	Pendent, Intermediate Level Pendent	5.6	135, 155, 175, 200, 286
PH21	QR	Pendent, Intermediate Level Pendent	5.6	135, 155, 175, 200, 286
PH30	SR	Horizontal, Low-Profile	5.6	135, 155, 175, 200, 286
PH31	QR	Horizontal, Low-Profile	5.6	135, 155, 175, 200, 286
PH40	SR	Horizontal, Low-Profile	5.6	135, 155, 175, 200, 286
PH41	QR	Horizontal, Low-Profile	5.6	135, 155, 175, 200, 286
PH50	SR	Pendent	5.6	135, 155, 175, 200, 286
PH51	QR	Pendent	5.6	135, 155, 175, 200, 286

*David B. Fuller*  
David B. Fuller  
VP, Manager - Fire Protection  
FM Approvals  
111 Boston-Providence Turnpike  
Norwood, MA 02062  
USA

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**CERTIFICATE OF COMPLIANCE**

Certificate Number: 20180306-EX5991  
Report Reference: EX5991-20180306  
Issue Date: 2018-MARCH-06

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Automatic sprinklers, incorporating 3 mm and 5 mm frangible glass bulbs in the following models, styles and temperature ratings:

SN	Response Type	Type	K-Factor	Temperature Rating, °F
PH10	SR	Upright, Intermediate Level Upright	5.6	135, 155, 175, 200, 286
PH11	QR	Upright, Intermediate Level Upright	5.6	135, 155, 175, 200, 286
PH20	SR	Pendent, Intermediate Level Pendent	5.6	135, 155, 175, 200, 286
PH21	QR	Pendent, Intermediate Level Pendent	5.6	135, 155, 175, 200, 286
PH30	SR	Horizontal, Low-Profile	5.6	135, 155, 175, 200, 286
PH31	QR	Horizontal, Low-Profile	5.6	135, 155, 175, 200, 286
PH40	SR	Horizontal, Low-Profile	5.6	135, 155, 175, 200, 286
PH41	QR	Horizontal, Low-Profile	5.6	135, 155, 175, 200, 286
PH50	SR	Pendent	5.6	135, 155, 175, 200, 286
PH51	QR	Pendent	5.6	135, 155, 175, 200, 286

*David B. Fuller*  
David B. Fuller  
VP, Manager - Fire Protection  
FM Approvals  
111 Boston-Providence Turnpike  
Norwood, MA 02062  
USA

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