

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

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 ^{1/2} (80.7 LPM/bar ^{1/2})		
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 ^{1/2} (80.7 LPM/bar ^{1/2})		
Glass Bulb	5mm		

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

SPRINKLERS



PI 720 UL

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

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 ^{1/2} (80.7 LPM/bar ^{1/2})	

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, Polymer, Black, Yellow	135, 155, 175, 200, 286 (57, 68, 79, 93, 141)
PS11	5.6	Upright	QR	3 mm	1/2"	Brass, Chrome, Polymer, Black, Yellow	135, 155, 175, 200, 286 (57, 68, 79, 93, 141)

Prepared for: PARATECH Co., Ltd., 3601, Giljeon-2(Shinil), Woonju, Bucheon, Kyonggi-do, Republic of Korea
 Manufacturing Location: PARATECH Co., Ltd., 652 Chonnam-Dong, Woonju, Bucheon, Kyonggi-do, Republic of Korea
 FM Approvals Class: 2016
 FM Approval Standard: Class Series 2000 (March 2006)
 Approval Identification: 3056126
 Approval Grant: February 12, 2018

To verify the availability of the Approved product, please refer to www.fmall.com.

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

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Automatic Control Mode Sprinklers for Fire Protection

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PS10	5.6	Upright	SR	3 mm	1/2"	Brass, Chrome, Polymer, Black, Yellow	135, 155, 175, 200, 286 (57, 68, 79, 93, 141)
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 Manufacturing Location: PARATECH Co., Ltd., 652 Chonnam-Dong, Woonju, Bucheon, Kyonggi-do, Republic of Korea
 FM Approvals Class: 2017
 FM Approval Standard: Class Series 2000 (March 2006)
 Approval Identification: 306126
 Approval Grant: February 12, 2018

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PS11	5.6	Upright	QR	3 mm	1/2"	Brass, Chrome, Polymer, Black, Yellow	135, 155, 175, 200, 286 (57, 68, 79, 93, 141)

Prepared for: PARATECH Co., Ltd., 3601, Giljeon-2(Shinil), Woonju, Bucheon, Kyonggi-do, Republic of Korea
 Manufacturing Location: PARATECH Co., Ltd., 652 Chonnam-Dong, Woonju, Bucheon, Kyonggi-do, Republic of Korea
 FM Approvals Class: 2012
 FM Approval Standard: Class Series 2000 (March 2006)
 Approval Identification: 3056126
 Approval Grant: February 12, 2018

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PS10	5.6	Upright	SR	3 mm	1/2"	Brass, Chrome, Polymer, Black, Yellow	135, 155, 175, 200, 286 (57, 68, 79, 93, 141)
PS11	5.6	Upright	QR	3 mm	1/2"	Brass, Chrome, Polymer, Black, Yellow	135, 155, 175, 200, 286 (57, 68, 79, 93, 141)

Prepared for: PARATECH Co., Ltd., 3601, Giljeon-2(Shinil), Woonju, Bucheon, Kyonggi-do, Republic of Korea
 Manufacturing Location: PARATECH Co., Ltd., 652 Chonnam-Dong, Woonju, Bucheon, Kyonggi-do, Republic of Korea
 FM Approvals Class: 2003
 FM Approval Standard: Class Series 2000 (February 2018)
 Approval Identification: 3063750
 Approval Grant: April 2, 2018

To verify the availability of the Approved product, please refer to www.fmall.com.

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

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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	Upright	SR	3 mm	1/2"	Brass, Chrome, Polymer, Black, Yellow	135, 155, 175, 200, 286 (57, 68, 79, 93, 141)
PS11	5.6	Upright	QR	3 mm	1/2"	Brass, Chrome, Polymer, Black, Yellow	135, 155, 175, 200, 286 (57, 68, 79, 93, 141)

Prepared for: PARATECH Co., Ltd., 3601, Giljeon-2(Shinil), Woonju, Bucheon, Kyonggi-do, Republic of Korea
 Manufacturing Location: PARATECH Co., Ltd., 652 Chonnam-Dong, Woonju, Bucheon, Kyonggi-do, Republic of Korea
 FM Approvals Class: 2005
 FM Approval Standard: Class Series 2000 (February 2018)
 Approval Identification: 3063750
 Approval Grant: April 2, 2018

To verify the availability of the Approved product, please refer to www.fmall.com.

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

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CERTIFICATE OF COMPLIANCE

Certificate Number: 20121031-EX5991
 Report Reference: EX5991-20121030
 Issue Date: 2012-OCTOBER-31

Issued to: PARADISE INDUSTRY CO LTD
 PLANT 652 CHONNUN-DONG
 WOONJU-KU
 BUCHEON-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, PB20, PB21 and PB22.

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

Standard(s) for Safety: ANSUL 199 - Automatic Sprinklers for Fire Protection Service
 UL/CORDC-199 - Automatic Sprinklers for Fire Protection Service

Additional Information: See the UL Online Certifications Directory at 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 Listing and Follow-Up Service meeting the approvals required 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.

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Page 1 of 1

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:

SPN	Response Type	Type	K-Factor	Temperature Rating, °F
PE10	SR	Upright, Non-remotely Listed, Upright	5.6	135, 155, 175, 200, 286
PE11	QR	Upright, Non-remotely Listed, Upright	5.6	135, 155, 175, 200, 286
PE20	SR	Pendent, Remotely Listed, Pendent	5.6	135, 155, 175, 200, 286
PE21	QR	Pendent, Remotely Listed, Pendent	5.6	135, 155, 175, 200, 286
PE22	SR	Horizontal Downward	5.6	135, 155, 175, 200, 286
PE23	QR	Horizontal Downward	5.6	135, 155, 175, 200, 286
PE14	SR	Upright	8.0	135, 155, 175, 200, 286
PE15	QR	Pendent	8.0	135, 155, 175, 200, 286
PE24	SR	Pendent	8.0	135, 155, 175, 200, 286

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Page 2 of 2

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:

SPN	Response Type	Type	K-Factor	Temperature Rating, °F
PE10	SR	Upright, Non-remotely Listed, Upright	5.6	135, 155, 175, 200, 286
PE11	QR	Upright, Non-remotely Listed, Upright	5.6	135, 155, 175, 200, 286
PE20	SR	Pendent, Remotely Listed, Pendent	5.6	135, 155, 175, 200, 286
PE21	QR	Pendent, Remotely Listed, Pendent	5.6	135, 155, 175, 200, 286
PE22	SR	Horizontal Downward	5.6	135, 155, 175, 200, 286
PE23	QR	Horizontal Downward	5.6	135, 155, 175, 200, 286
PE14	SR	Upright	8.0	135, 155, 175, 200, 286
PE15	QR	Pendent	8.0	135, 155, 175, 200, 286
PE24	SR	Pendent	8.0	135, 155, 175, 200, 286

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Page 2 of 2



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