



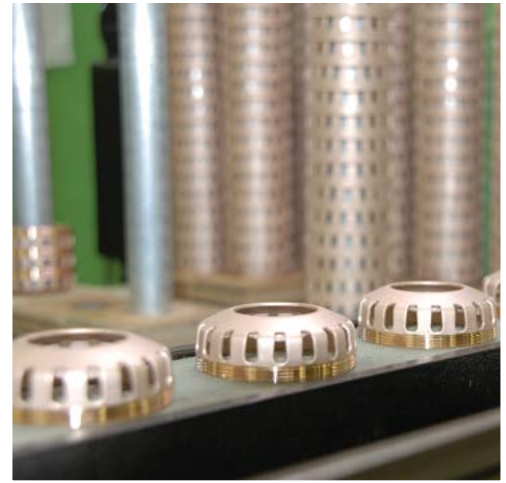
SENJU 
SPRINKLER

PRODUCT BROCHURE

One Million Raindrops by Senju Sprinkler
www.senjusprinkler.com



Introduction



Company

Senju Sprinkler has been manufacturing and supplying fire sprinkler heads and alarm valves in Japan since 1963. The company has expanded its manufacturing capabilities to meet customer demands at our ISO 14001 certified facilities.

Although Senju Sprinkler is relatively new to the North American market, it has been supplying to the biggest fire sprinkler manufacturers in the United States. In Japan, Senju Sprinkler is highly reputed as the top manufacturer of fire sprinklers, valves, and associated devices, currently holding an impressive 70% market share.

Senju Sprinkler also exports globally to many countries, and its products are listed by various fire protection approval authorities such as:



Senju Sprinkler produces solder type sprinklers for both residential and commercial applications, with a strong focus on both form and function. The company strives to develop new and innovative products to meet the demands and requirements of the industry.

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Flat Concealed Pendent Sprinkler

ECO SPRINKLER® RC-RES 3.0K (SS8361)



Features

- Solder type.
- Ideal for use in wet pipe residential sprinkler systems per NFPA 13D, 13R, and 13.
- Standard cover plate is 2-5/8" (68mm) in diameter.
- Larger 3-1/4" (83mm) cover plate and 2-5/8" (68mm) square cover plate are also available.
- Cover plates are available in five standard finishes and more than 1000 custom color finishes.
- Can be used for multipurpose and stand alone residential sprinkler systems.
- Can be installed in fewer steps and less time.

Required Wrench Socket: NR-H

Technical Data

Approvals	UL and C-UL Listed, NSF-61 / Annex G Certified
K Factor	K= 3.0 (43.2)
Thread Size	NPT1/2" (15mm)
Temperature	162°F / 72°C Sprinkler with 140°F / 60°C Cover Plate
Vertical Adjustment	1/2 inch (12.8 mm)
Finish	White, Ivory, Nickel, Black, Brown and Custom Color

Maximum Coverage Area	Minimum Flow and Pressure			
	For Ceiling types refer to 2013 Edition of NFPA 13D, 13R, or 13			
	Ordinary Temp. Rating 162°F / 72°C Sprinkler with 140°F / 60°C Cover Plate	Deflector to Ceiling	Installation Type	Minimum Spacing
12' x 12' (3.7m x 3.7m)	9GPM (34.1LPM) 9.0psi (0.62BAR)	3/8 to 7/8 inches	Concealed With Cover Plate	8' (2.4m)
14' x 14' (4.3m x 4.3m)	11GPM (41.6LPM) 13.4psi (0.92BAR)	(9.5 to 22.2mm)		

Flat Concealed Pendent Sprinkler

RC-RES 4.9K (SS8461) **ECO SPRINKLER®**



Technical Data

Approvals	UL and C-UL Listed, NSF-61 / Annex G Certified
K Factor	K= 4.9 (70.6)
Thread Size	NPT1/2" (15mm)
Temperature	162°F / 72°C Sprinkler with 140°F / 60°C Cover Plate 175°F / 79°C Sprinkler with 162°F / 72°C Cover Plate
Vertical Adjustment	1/2 inch (12.8 mm)
Finish	White, Ivory, Nickel, Black, Brown and Custom Color

Maximum Coverage Area	Minimum Flow and Pressure For Ceiling types refer to 2013 Edition of NFPA 13D, 13R, or 13				
	Ordinary Temp. Rating 162°F / 72°C Sprinkler with 140°F / 60°C Cover Plate	Intermediate Temp. Rating 175°F / 79°C Sprinkler with 162°F / 72°C Cover Plate	Deflector to Ceiling	Installation Type	Minimum Spacing
12' x 12' (3.7m x 3.7m)	13GPM (49.2LPM) 7.0psi (0.48BAR)	13GPM (49.2LPM) 7.0psi (0.48BAR)	3/8 to 7/8 inches	Concealed with Cover Plate	9' (2.7m)
14' x 14' (4.3m x 4.3m)	13GPM (49.2LPM) 7.0psi (0.48BAR)	14GPM (53.0LPM) 8.2psi (0.48BAR)			
16' x 16' (4.9m x 4.9m)	13GPM (49.2LPM) 7.0psi (0.48BAR)	14GPM (53.0LPM) 8.2psi (0.57BAR)	(9.5 to 22.2mm)		
18' x 18' (5.5m x 5.5m)	18GPM (68.1LPM) 13.5psi (0.93BAR)	—			
20' x 20' (6.1m x 6.1m)	21GPM (79.5LPM) 18.4psi (1.27BAR)	—			

Features

- Solder type.
- Ideal for use in wet pipe residential sprinkler systems per NFPA 13D, 13R, and 13.
- Industry's best low flows and pressures under sloped ceilings.
- Standard cover plate is 2-5/8" (68mm) in diameter.
- Larger 3-1/4" (83mm) cover plate and 2-5/8" (68mm) square cover plate are also available.
- Cover plates are available in five standard finishes and more than 1000 custom color finishes.
- Can be used for multipurpose and stand alone residential sprinkler systems.
- Can be installed in fewer steps and less time.

Required Wrench Socket: NR-H

Flat Concealed Pendent Sprinkler

ECO SPRINKLER® CN-RES 4.9K (SS8421)



Features

- Solder type.
- Ideal for use in wet pipe residential sprinkler systems per NFPA 13D, 13R, and 13.
- Industry's smallest cover plate, just 2-3/8" (60mm) in diameter.
- Cover plates are available in four standard finishes and more than 1000 custom color and pattern finishes.
- Can be installed in fewer steps and less time.

Required Wrench Socket: VC-H

Technical Data

Approvals	UL and C-UL Listed
K Factor	K= 4.9 (70.6)
Thread Size	NPT1/2" (15mm)
Temperature	162°F / 72°C Sprinkler with 140°F / 60°C Cover Plate
Vertical Adjustment	3/8 inch (9.5 mm)
Finish	White, Ivory, Nickel, Black, and Custom Color

Maximum Coverage Area	Minimum Flow and Pressure			
	For Ceiling types refer to 2013 Edition of NFPA 13D, 13R, or 13			
	Ordinary Temp. Rating 162°F / 72°C Sprinkler with 140°F / 60°C Cover Plate	Heat Collector to Ceiling	Installation Type	Minimum Spacing
12' x 12' (3.7m x 3.7m)	13GPM (49.2LPM) 7.0psi (0.48BAR)	- 3/16 to 3/16 inches	Concealed with Cover Plate	8 (2.4m)
14' x 14' (4.3m x 4.3m)	14GPM (53.0LPM) 8.2psi (0.56BAR)			
16' x 16' (4.9m x 4.9m)	15GPM (56.8LPM) 9.4psi (0.65BAR)	(-4.8mm to 4.8mm)		
18' x 18' (5.5m x 5.5m)	19GPM (71.9LPM) 15.0psi (1.03BAR)			

Flush Pendent Sprinkler

ZN-RES 4.2K (SS4421)



ECO SPRINKLER®

Features

- Solder type.
- Ideal for use in wet pipe residential sprinkler systems per NFPA 13D, 13R, and 13.
- Approved for special applications with beamed ceilings.
- Can be installed in fewer steps and less time.

Required Wrench Socket: VC-H

Technical Data

Approvals	UL and C-UL Listed
K Factor	K= 4.2 (60.5)
Thread Size	NPT1/2" (15mm)
Temperature	162°F / 72°C, 175°F / 79°C
Vertical Adjustment	3/8 inch (9.5 mm)
Finish	White, Chrome, Black, Dark Brown

Maximum Coverage Area	Minimum Flow and Pressure				
	For Ceiling types refer to 2013 Edition of NFPA 13D, 13R, or 13				
	Ordinary Temp. Rating 162°F / 72°C	Intermediate Temp. Rating 175°F / 79°C	Heat Collector to Ceiling	Installation Type	Minimum Spacing
12' x 12' (3.7m x 3.7m)	13GPM (49.2LPM) 9.6psi (0.66BAR)	13GPM (49.2LPM) 9.6psi (0.66BAR)	23/32 to 1-3/32 inches (18.3 to 27.8mm)	Flush with Escutcheon	8' (2.4m)
14' x 14' (4.3m x 4.3m)	13GPM (49.2LPM) 9.6psi (0.66BAR)	14GPM (53.0LPM) 11.1psi (0.77BAR)			
16' x 16' (4.9m x 4.9m)	14GPM (53.0LPM) 11.1psi (0.77BAR)	14GPM (53.0LPM) 11.1psi (0.77BAR)			
18' x 18' (5.5m x 5.5m)	18GPM (68.1LPM) 18.4psi (1.27BAR)	19GPM (71.9LPM) 20.5psi (1.41BAR)			
20' x 20' (6.1m x 6.1m)	22GPM (83.3LPM) 27.4psi (1.89BAR)	—			

Technical Data

Approvals	UL and C-UL Listed
K Factor	K= 4.2 (60.5)
Thread Size	NPT1/2" (15mm)
Temperature	162°F / 72°C
Vertical Adjustment	3/16 inch (4.7 mm)
Finish	White, Chrome, Black, Dark Brown

Maximum Coverage Area	Minimum Flow and Pressure			
	For Ceiling types refer to 2013 Edition of NFPA 13D, 13R, or 13			
	Ordinary Temp. Rating 162°F / 72°C	Top of Deflector to Ceiling	Installation Type	Minimum Spacing
12' x 12' (3.7m x 3.7m)	13GPM (49.2LPM) 9.6psi (0.66BAR)	4 to 6 inches (101 to 152mm)	Flush with Escutcheon	8' (2.4m)
14' x 14' (4.3m x 4.3m)	16GPM (60.6LPM) 14.5psi (1.00 BAR)			
16' x 16' (4.9m x 4.9m)	20GPM (73.5LPM) 22.7psi (1.56 BAR)			

Flush Horizontal Sidewall Sprinkler

HF-RES 4.2K (SS4423)



ECO SPRINKLER®

Features

- Solder type.
- Ideal for use in wet pipe residential sprinkler systems as per NFPA 13D, 13R, and 13.
- Can be installed in fewer steps and less time.

Required Wrench Socket: HF-H

Flat Concealed Pendent Sprinkler

ECO SPRINKLER® RC-QR 5.6K (SS9561)

Commercial Sprinklers



Features

- Quick and standard response, standard coverage.
- Solder type.
- Standard cover plate is 3-1/4" (83mm) in diameter.
- Smaller 2-5/8" (68mm) cover plate also available.
- Cover plates are available in five standard finishes and more than 1000 custom color finishes.
- Can be installed in fewer steps and less time.

Required Wrench Socket: NR-H

Technical Data

Approvals	UL and C-UL Listed, FM Approved
K Factor	K= 5.6 (80.0)
Thread Size	NPT1/2" (15mm)
Temperature	162°F / 72°C Sprinkler with 140°F / 60°C Cover Plate
Vertical Adjustment	1/2 inch (12.8 mm)
Finish	White, Ivory, Nickel, Black, Brown and Custom Color

Flat Concealed Pendent Sprinkler

CN-QR 5.6K (SS9521) **ECO SPRINKLER**®



Technical Data

Approvals	UL and C-UL Listed, FM Approved
K Factor	K= 5.6 (80.0)
Thread Size	NPT1/2" (15mm)
Temperature	162°F / 72°C Sprinkler with 140°F / 60°C Cover Plate 205°F / 96°C Sprinkler with 162°F / 72°C Cover Plate (UL and C-UL only)
Vertical Adjustment	3/8 inch (9.5 mm)
Finish	White, Ivory, Nickel, Black and Custom Color

Features

- Quick and standard response, standard coverage.
- Solder type.
- Industry's smallest cover plate, just 2-3/8" (60mm) in diameter.
- Cover Plates are available in four standard finishes and more than 1000 custom color and pattern finishes.
- Can be installed in fewer steps and less time.

Required Wrench Socket: VC-H

Required Wrench Socket: NR-H

Technical Data

Approvals	UL and C-UL Listed,
K Factor	K= 5.6 (80.0)
Thread Size	NPT1/2" (15mm)
Temperature	162°F / 72°C Sprinkler with 140°F / 60°C Cover Plate
Vertical Adjustment	1/2 inch (12.8 mm)
Finish	White, Ivory, Nickel, Black, Brown and Custom Color

Flat Concealed Pendent Sprinkler

RC-QR-EC 5.6K (SS3561)



Features **ECO SPRINKLER®**

- Quick response, extended coverage.
- Solder type.
- Standard cover plate is 3-1/4" (83mm) in diameter.
- Smaller 2-5/8" (68mm) cover plate also available.
- Cover plates are available in five standard finishes and more than 1000 custom color finishes.
- Can be installed in fewer steps and less time.

Maximum Coverage Area

Minimum Flow and Pressure

16' x 16'
(4.9m x 4.9m)

26GPM (98.4LPM)
21.6psi (1.49BAR)

18' x 18'
(5.5m x 5.5m)

33GPM (124.9LPM)
34.7psi (2.39BAR)

20' x 20'
(6.1m x 6.1m)

40GPM (151.4LPM)
51.0psi (3.51BAR)

Flush Pendent Sprinkler

ZN-QR 5.6K (SS2521)



Required Wrench Socket: VC-H

Features

- Quick response, standard coverage.
- Solder type.
- Can be installed in fewer steps and less time.

Technical Data

Approvals	UL and C-UL Listed, NYC Approved
K Factor	K= 5.6 (80.0)
Thread Size	NPT 1/2" (15mm)
Temperature	162°F / 72°C, 205°C / 96°C
Vertical Adjustment	3/8 inch (9.5 mm)
Finish	White, Chrome, Black

Features

- Standard response, standard coverage.
- Solder type.
- Low profile design.
- Can be installed in fewer steps and less time.

Technical Data

Approvals	UL and C-UL Listed, FM Approve, NYC Approved
K Factor	K= 5.6 (80.0)
Thread Size	NPT1/2" (15mm)
Temperature	162°F / 72°C, 205°F / 96°C, 282°F / 139°C (UL and C-UL only)
Vertical Adjustment	3/8 inch (9.5 mm)
Finish	White, Chrome, Black

**Flush
Pendent Sprinkler**

ZN-UF 5.6K (SS2531)



Required Wrench Socket: VC-H



Features

- Quick response, standard coverage.
- Solder type.
- Can be installed in fewer steps and less time.

Technical Data

Approvals	LPCB and CE Approved
K Factor	K= 80.0
Thread Size	15mm (NPT 1/2")
Temperature	72°C / 96°C
Vertical Adjustment	9.5 mm
Finish	White, White (RAL9010), Chrome

**Flush
Pendent Sprinkler**

ZN-QR EU 5.6K (SS7521)



Required Wrench Socket: VC-H

■ Color Plates and Standard Finish

2 5/8" ROUND



WHITE



IVORY

2 5/8" SQUARE



WHITE

3 1/4" ROUND



WHITE



IVORY



BLACK



NICKEL



BROWN

■ Custom Colors



- ALL COVER PLATES ARE AVAILABLE FOR CUSTOM COLOR OPTIONS FROM ANY PAINT MANUFACTURER
- UL APPROVED
- 2 WEEK TURNAROUND

■ Accessories and Related Products



SOCKET WRENCH



CAP REMOVAL TOOL



3 & 6 HEAD
SPRINKLER CABINET



WIKAI PRESSURE
GAUGE



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