



# FlameGuard®

## CPVC FIRE SPRINKLER PRODUCTS

FG-2-1221

**Complete System of Pipe, Fittings & Solvent Cement**  
**Corrosion Resistant • Superior Flow • Ease of Installation**



Spears® FlameGuard® CPVC Fire Sprinkler Products provide a cost effective alternative to metal systems with advantages of high corrosion resistance, improved system hydraulics, ease of installation and quick assembly

with common tools. CPVC Fire Sprinkler Systems are based on proven products that have been in continuous service for over 40 years. Spears® FlameGuard® products are approved by UL®, FM® Global, LPCB and Certified by NSF International for potable water use. Check local codes for restrictions and limitations.



### Corrosion Resistant CPVC Material Does Not Sustain Biological Growth

Unlike metal systems, FlameGuard® CPVC products never rust, scale or pit and do not sustain biological growth - a cause of Microbiologically Influenced Corrosion (MIC) which can destroy metal fire sprinkler systems from the inside out.

### Superior Flow Characteristics for Lower Friction Losses

The smooth-wall interior surfaces of FlameGuard® CPVC systems result in reduced friction loss over metal systems. The design flow characteristics remain constant throughout the life of the product because there is no interior corrosion in the system due to microbiological activity.

### Pressure Rated to 175 psi (1.21 Mpa) (1200kpa) @ 150°F (66°C)

FlameGuard® CPVC Products are produced in combinations of Schedule 40 and Schedule 80 Fitting configurations con-forming to ASTM F 438 or F 439 standards and FlameGuard® SDR 13.5 CPVC Fire Sprinkler Pipe conforming to ASTM F 442 standards. UL® and FM® Rated working pressure is 175 psi (1.21 Mpa) (1200kpa) @ 150°F (66°C) (LPCB rated to 120°F) (49°C).

### Easy Installation for Lower Costs

FlameGuard® CPVC system installations significantly reduce costs over conventional metal piping by virtually eliminating prefabrication. Systems can be fully installed on site using solvent cement joining methods.

### UL® Listed for U.S. and Canada in NFPA 13, 13R & 13D Systems

FlameGuard® CPVC Fire Sprinkler Products are UL® listed for U.S. and Canada applications for Light Hazard occupancies as defined in NFPA 13, Residential occupancies up to and including 4-stories as defined in NFPA 13R, and Residential occupancies for one and two family dwellings and manufactured homes as defined in NFPA 13D. Consult Spears® FlameGuard® CPVC Fire Sprinkler Products Installation Instructions and NFPA Standards for additional applications including air plenum, system risers, concealed, exposed, underground, combustable attic, garage, basement and low pressure dry piping installations.

### Full Limited Lifetime Warranty

FlameGuard® CPVC Fire Sprinkler Products carry a limited lifetime warranty against defects in material or workmanship. Consult Spears® warranty for additional details.



**PROGRESSIVE PRODUCTS FROM SPEARS®**  
**INNOVATION & TECHNOLOGY**

Visit our website at [www.spearsmfg.com](http://www.spearsmfg.com)



LPS1260 Cert/LPCB ref. 293b

# Spears® FlameGuard® The Leader in Innovative CPVC Fire Sprinkler System Products

## Pioneer in Molded-in Metal Insert Head Adapters Patented

Spears® pioneered the development of the **FlameGuard®** molded-in-place metal thread insert for connection of sprinkler heads to CPVC fire sprinkler systems, plus Metal FIPT threaded female adapters for metal-to-plastic transitions.

## Developed the Special Reinforced (SR) Head Adapters Patented

Spears® **FlameGuard®** continuous improvement program developed the technology to produce a superior patented plastic threaded fitting - the Special Reinforced (SR) Design. This unique design incorporates a patented thermoplastic compression process that equalizes stresses generated by tapered thread joint make-up. All CPVC plastic body and threads provide a more uniform construction and improved corrosion resistance.

## Revolutionary Gasket Sealed Head Adapter Choices Patented

- Requires NO Thread Sealants
- Eliminates Stress
- Prevents Over Tightening
- Provides Easy Frame Alignment

Spears® revolutionary Gasket Sealed Head Adapters feature an elastomer gasket seal at the base of the threads. The gasket seal allows a modified thread design that eliminates radial stress and associated problems typical with tapered thread joint make up. Choose from **TorqueSafe™** design with rotating brass thread insert, **SofTorque™** design with Special Reinforced (SR) plastic threads and compressible gasket or **QuickTorque™** with similar features plus brass threads.

## Full Assortment of Specialty Products & Fitting Configurations

Spears® **FlameGuard®** products provide the specialty fittings needed in today's fire sprinkler systems. The **GripLoc™** Elbow, Tee, Cap and Coupling and **GripLoc™** Repair Coupling for quick no-cement repairs; the Adjustable Drop Nipple for fine-tuning to finished ceiling height; and Ringed Head Adapter for ease of locating during installation. Plus a full assortment of fittings including Grooved Coupling Adapters, Unions and Flanges sizes 3/4" through 3".

## Complete Size Range of CPVC Pipe

Spears® **FlameGuard®** CPVC Fire Sprinkler Pipe is available in sizes 3/4" to 3" and conforms to ASTM F 442 standard for SDR 13.5 CPVC pipe.

## Spears® Solvent Cements & Thread Sealant

**FlameGuard®** products should be installed using Spears® FS-5 One-Step Solvent Cement. For threaded joints, use Spears® **BLUE 75™** Thread Sealant that has been tested for compatibility with **FlameGuard®** CPVC Fire Sprinkler Products. Spears® **TorqueSafe™**, **SofTorque™** and **QuickTorque™** Gasket Sealed Adapter requires no sealant. Consult sprinkler head manufacturer prior to use.

## UL 2818 Performance Certification

Certified by Underwriters Laboratories (UL®) for conformance to UL 2818 Certification Program For Chemical Emissions For Building Materials, Finishes And Furnishings. This GREENGUARD GOLD Certification provides eligibility for LEED® credits when installing **FlameGuard®** in a green building project.



Lead Free



TorqueSafe™, SofTorque™ &  
QuickTorque™ Fittings  
Lead Free



GripLoc™ Elbow, Tee, Cap, Coupling &  
Repair Couplings  
Lead Free

