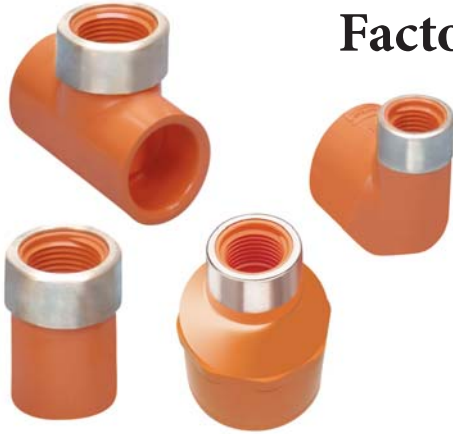




# FlameGuard® SPECIAL REINFORCED (SR) CPVC FIRE SPRINKLER HEAD ADAPTER FITTINGS

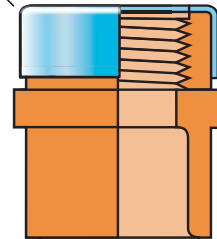
FG-2B-0806

## Advanced Patented Technology Factory Mutual (FMRC) and UL® Approved!



Spears® patented special reinforced (SR) plastic female thread design is one of the most significant advancements in the use of CPVC fire sprinkler system threaded fittings. Not just an added ring, this unique precompression design compensates for expansion forces generated from tapered pipe thread joint makeup. Radial stress is no longer a problem in normal installations and easily managed in severe over-tightening situations.

Special Precompression Collar  
Provides External Reinforcement



Hexagonal Wrench Flats  
Easy Threaded Joint Make-up

Full Schedule 80 Wall Thickness  
For Superior Joint Integrity

### One-Piece Fitting Construction

One-piece fitting design increases reliability and maintains system integrity.

### Designed for Sprinkler Heads & Plastic-to-Metal Transitions

Spears® patented SR design and manufacturing process allows direct connection to fire sprinkler heads or threaded metal pipe through one simple adapter. Material thermal expansion/contraction differences are equalized by the restraining collar. You get low-cost, worry-free plastic-to-metal transitions every time.

### Corrosion Resistant CPVC Construction Does Not Sustain Microbiological Growth

Unlike metal systems or metal thread insert fittings, FlameGuard® CPVC SR Sprinkler Head Adapters never corrode, scale or pit and do not sustain biological growth – a cause of Microbiologically Influenced Corrosion (MIC) which can destroy metal fire sprinkler systems.

### Full ASTM Schedule 80 Conformance

All SR Sprinkler Head Adapters conform to ASTM F 439 requirements for dimensions and hydrostatic pressure test.

### Lead Free & Certified for Potable Water Use

FlameGuard® CPVC SR Sprinkler Head Adapters are certified by NSF International under ANSI/NSF Standard 61 for potable water service and are lead-free.

### Available in 1/2" through 1-1/4" Thread Sizes

Spears® FlameGuard® SR Sprinkler Head Adapters are available in socket or spigot by SR Thread configurations including Sprinkler Head Tees, 90° Elbows and Female Adapters.

### 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, combustible attic, garage, basement and low pressure dry piping installations.

### Full Limited Lifetime Warranty

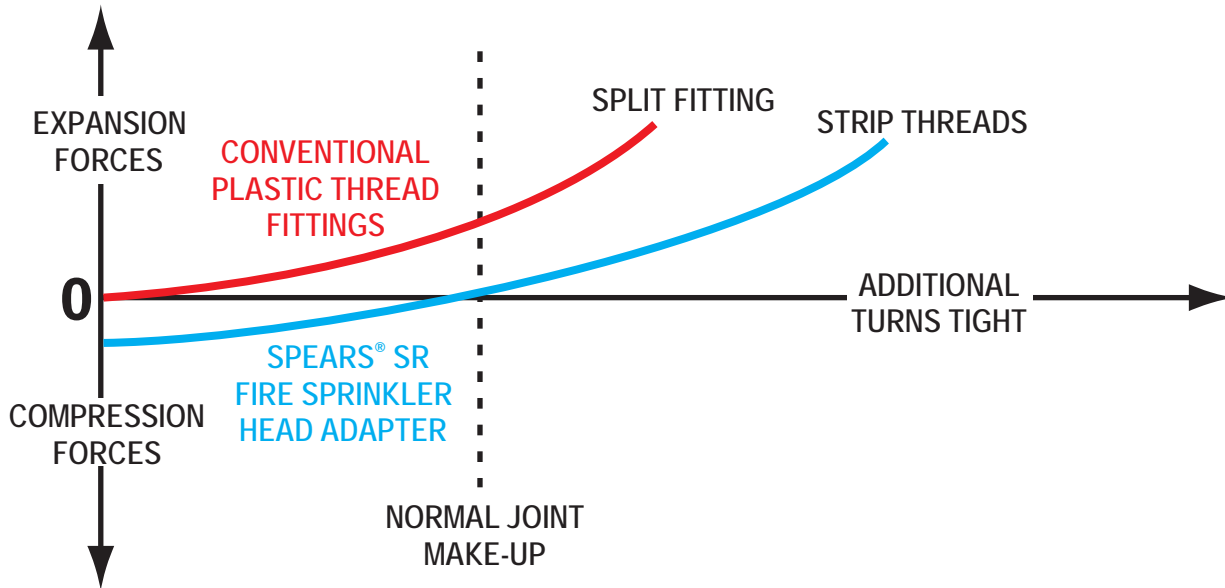
FlameGuard® CPVC Fire Sprinkler Products carry a limited lifetime warranty against defects in material or workmanship. Consult Spears® warranty for additional details.



**PROGRESSIVE PRODUCTS FROM SPEARS® INNOVATION & TECHNOLOGY**  
Visit our web site: [www.spearsmfg.com](http://www.spearsmfg.com)

# SPEARS® Patented SR Design Contains and Compensates for Radial Stress . . .

Radial stress generated by tightening of tapered pipe threads exerts tremendous expansion forces on female plastic thread fittings. When subjected to over-tightening — even accidentally — these forces can literally split the fitting. Spears® patented SR Adapter design not only alleviates this problem by containing expansion forces with its special collar, but additionally compensates for expansion stress through thermoplastic material compression. Stresses are equalized at normal joint make-up. The following graph illustrates this effect in a comparison of conventional plastic female thread fittings with Spears® SR adapters when taken to failure.



## Another Quality Spears® Product Designed for Performance, Customer Satisfaction and Service

**TREADED CONNECTIONS** - Use a quality grade thread sealant. **WARNING:** SOME PIPE JOINT COMPOUNDS OR PTFE PASTES MAY CONTAIN SUBSTANCES THAT COULD CAUSE STRESS CRACKING TO PLASTIC. Spears® Manufacturing Company recommends the use of Spears® **BLUE 75™** Thread Sealant which has been tested for compatibility with Spears® products. Please follow the sealant manufacturer's application/installation instructions. Choice of an appropriate thread sealant other than those listed above is at the discretion of the installer. 1 to 2 turns beyond FINGER TIGHT is generally all that is required to make a sound plastic threaded connection. Unnecessary OVERTIGHTENING will cause DAMAGE TO BOTH PIPE AND FITTING.

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