



# 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.

### 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

SR Adapters are produced from a CPVC thermoplastic compound for superior chemical and corrosion resistance to system fluids.

### Full ASTM Schedule 80 Conformance

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

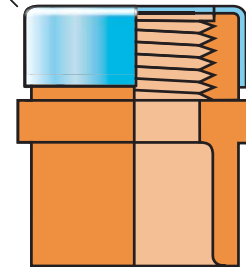
### Potable Water Approved

Certified by NSF International, lead-free thermoplastic compounds are safe for use in drinking water systems.

### 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.

Special Precompression Collar  
Provides External Reinforcement



Hexagonal Wrench Flats  
Easy Threaded Joint Make-up

Full Schedule 80 Wall Thickness

For Superior Joint Integrity

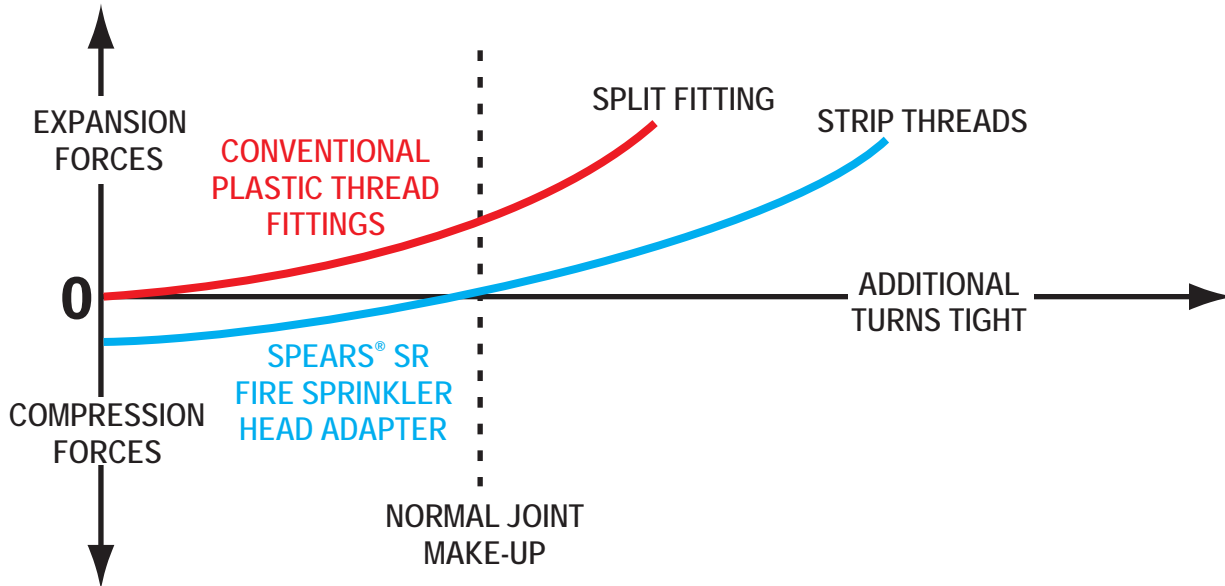
**Tested & Approved by Underwriters Laboratories**  
Spears® FlameGuard™ Fire Sprinkler Piping Products are Listed by Underwriters Laboratories for use in: Light Hazard occupancies as defined in the Standard for Installation of Sprinkler Systems, NFPA 13; Residential occupancies as defined in the Standard for Installation of Sprinkler Systems up to Four Stories in height, NFA 13R; Residential occupancies as defined in the Standard for Sprinkler Systems in One and Two Family Dwellings and Mobile Homes, NFPA 13D; and Air Conditioning and Ventilation Systems, NFPA 90A.



Quality Systems Certificate No. 293  
Corporate Facilities, Sylmar, CA  
Assessed to ISO 9001: 2008

# 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

## NOT FOR USE WITH COMPRESSED AIR OR GASES

THREADED CONNECTIONS - Use a quality grade thread sealant. **WARNING:** SOME PIPE JOINT COMPOUNDS OR TEFLON 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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