



FlameGuard™ Advanced Special Reinforced (SR) CPVC FIRE SPRINKLER HEAD ADAPTER FITTINGS

FGSR-2-1206

Spears® Patented SR Technology is Now Even Better!



- ✓ Plastic or Optional Metal Thread Entry To Eliminate Cross Threading
- ✓ New Wrench Flats Ease Head Installation
- ✓ Patented Design Prevents Splitting

Spears® Patented SR Female Plastic Thread design for **FlameGuard™** CPVC Fire Sprinkler Head Adapters is now even more user-friendly.

This advanced technology now incorporates a high-strength zinc alloy collar with wide wrench flats where needed most for installing fire sprinkler heads. An optional patented metal starting thread design virtually eliminates accidental cross threading (Z4235 series). Patented design contains expansion stress in make up of tapered-thread joints to prevent splitting of female plastic thread. Available in 3/4"x1/2" and 1"x1/2" Female Sprinkler Head Adapters.



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.

New Metal Wrench Flats

Reconfigured **FlameGuard™** SR design places wrench flats on new, high strength zinc alloy collar where needed most. Provides positive grip at the joint during sprinkler head installation.

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.

UL Listed for NFPA 13, 13R & 13D Systems

Spears® **FlameGuard™** CPVC Fire Sprinkler Piping Products are Listed by Underwriters Laboratories for use in wet-sprinkler systems as defined in NFPA Standards 13, 13R and 13D. See Spears® publication FG-3, **FlameGuard™** CPVC Fire Sprinkler Products Installation Instructions and their addenda for application details.

Optional (Z4235 series) One-Piece Plastic Threaded Fitting With Patented Metal Thread-Start

Patented metal starting thread eliminates cross threading problems associated with sprinkler head installations while maintaining one-piece plastic fitting construction for greater reliability and improved integrity over conventional metal-thread plastic head adapters.

Full 10-Year Limited Warranty

FlameGuard™ CPVC Fire Sprinkler Head Adapters are warranted for 10 years against defects in material or workmanship. Consult Spears® **FlameGuard™** warranty for additional details.

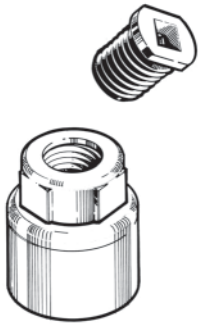


*PROGRESSIVE PRODUCTS FROM
SPEARS® INNOVATION &
TECHNOLOGY*



Quality Systems Certificate No. 293
Corporate Facilities, Sylmar, CA
Assessed to ISO 9001: 2000

Technical Information



Optional User Installed Thread Protector Eliminates Cement Contamination to Plastic Threads

Optional Polyethylene Plugs can be ordered to prevent cement runs into plastic threads. Plugs can be installed using standard 3/8" square drive. Simply remove after system assembly for clean installation of sprinkler head.

NOT TO BE USED AS TEST PLUG

Plastic Start	Metal Start	Size	L	M	M1	N
Part Number	Part Number					
4235-101	Z4235-101SR	3/4 x 1/2	1-7/8	1-3/8	1-7/16	3/16
4235-130	Z4235-130SR	1 x 1/2	2-1/32	1-23/32	1-7/16	5/32

Threaded Sprinkler Head Installation

WARNING: Use only thread sealant recommended by Spears®. Other joint compounds or pastes may contain substances that could cause stress cracks in the CPVC. Cutting oils used in metal pipe threading cause stress cracking in CPVC materials. All cutting oils must be removed and the metal pipe thoroughly flushed and degreased prior to assembly with CPVC systems.

1. APPLY SEALANT ONLY TO MALE THREAD



DO NOT use a combination of tape and paste sealants



RECOMMENDED SEALANT:

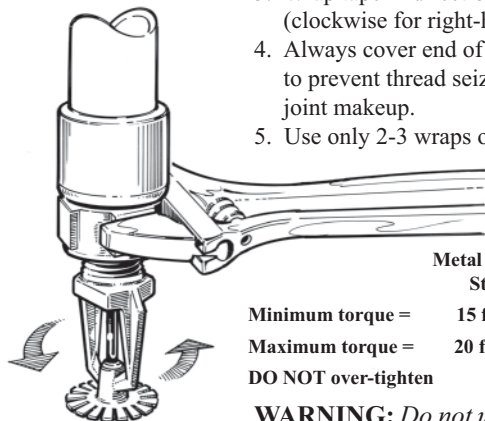
Spears® Manufacturing Company recommends the use of Spears® BLUE 75™ thread sealant, which has been tested for compatibility with Spears® products. Please follow the sealant Manufacturer's Application/Installation instructions. Choice of another appropriate thread sealant is at the discretion of the installer.

2. ASSEMBLE JOINT BY HAND

Thread Sprinkler Head "finger tight" for initial assembly.

3. WRENCH MAKE-UP

Use an adjustable wrench on the flats of the Head Adapter and Wrench recommended by Sprinkler Manufacturer for Head. Generally, wrench make-up of 1 to 2 turns beyond finger tight is sufficient. Follow torque requirements.



IF A TAPE SEALANT MUST BE USED:

1. Use TFE tape no less than 25 mil thick.
2. Initial wrap must fully cover the thread end.
3. Wrap tape in direction of threads (clockwise for right-hand threads).
4. Always cover end of fitting at the start to prevent thread seizing prior to proper joint makeup.
5. Use only 2-3 wraps of tape.

	Metal Thread Start	Plastic Thread Start
Minimum torque =	15 ft-lbs	5 ft-lbs.
Maximum torque =	20 ft-lbs.	10 ft-lbs.

DO NOT over-tighten

WARNING: Do not use conventional pipe wrenches that can damage fitting.

NOT FOR USE WITH COMPRESSED AIR OR GASES

Product drawing(s) and/or photograph(s) are representative and may not fully reflect product configuration.



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