



# PVC & CPVC SCHEDULE 80 STAINLESS STEEL REINFORCED FITTINGS

SR-2-0998

## Avoid Split Threads!



### Patented Advanced Design

Spears Patented Schedule 80 Stainless Steel Reinforced (SR) Fittings reduce problems associated with over tightening of female plastic pipe threads. Not just an added ring, this unique precompression design compensates for expansion forces generated from tapered pipe thread joint make-up. Radial-stress is reduced in normal installations and contained in severe over tightening situations.

### Improved Sealing Capability

Since fitting expansion is contained, thread contact and corresponding seal is improved.

### Excellent Plastic-to-Metal Transition Fitting — Without Pressure De-Rating

Spears patented SR design and manufacturing process allows direct connection to threaded metal pipe through one simple adapter. Superior Strength of the SR Fitting eliminates the need for pressure de-ratings in system transitions normally associated with traditional non-reinforced plastic threaded plastic fittings. Material thermal expansion/contraction differences are equalized by the restraining collar. You get low cost, worry-free plastic-to-metal transitions every time.

### Full ASTM Schedule 80 Conformance

All SR Fittings conform to either ASTM D 2467 (PVC) or F 439 (CPVC) dimensional and hydrostatic pressure test requirements.

### Chemical & Corrosion Resistant

SR Fittings are produced in PVC White, PVC Gray and Industrial CPVC thermoplastic compounds for superior chemical and corrosion resistance to system fluids. External stainless steel reinforcing ring provides excellent resistance to corrosive environments.

### Versatile 1/4" through 4" Size Availability

Spears SR Fittings are available in slip socket, spigot and reducing configurations of female adapters, tees, 90° ells and unions.

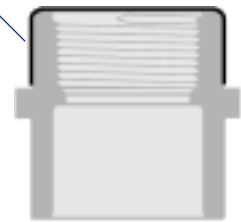
### Potable Water Approved

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

### Stainless Steel Precompression Collar

Provides Full-Length Reinforcement

Hexagonal Wrench Flats  
Ease Threaded Joint Make-up



### Full Schedule 80 Wall Thickness

For Superior Joint Integrity

### Sample Engineering Specification

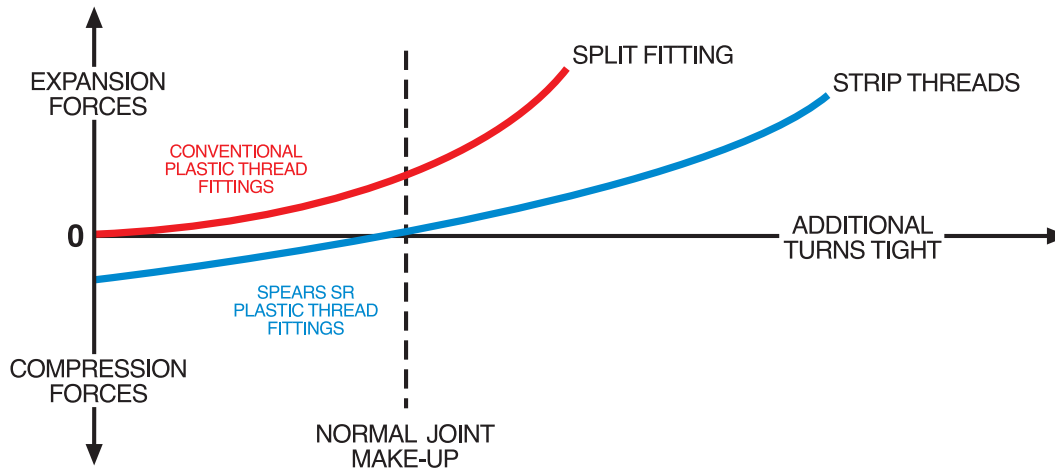
All threaded plastic connections and threaded plastic to metal transition connections shall be made with Spears Stainless Steel Reinforced (SR) Fittings. All fittings shall be Schedule 80, conforming to ASTM D 2467 (PVC) or F 439 (CPVC). All fittings shall be approved for potable water service.



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

# Spears Patented SR Fitting Design is One of the Most Significant Improvements in Threaded Thermoplastic Fittings . . .

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 Fitting design not only alleviates this problem by containing expansion forces with its stainless steel 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 plastic thread fittings 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 manufacturers' 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 OVER TIGHTENING will cause DAMAGE TO BOTH PIPE AND FITTING.

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