



FlameGuard®



ENGINEERING GUIDE

Contact Spears® for any Information not found.



FlameGuard® Technical
FlameGuard® System Overview

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 readily available 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.



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

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 (1.21Mpa) @ 150°F (66°C)

FlameGuard® CPVC Products are produced in combinations of Schedule 40 and Schedule 80 Fitting configurations conforming to ASTM F 438 or F 439 standards and **FlameGuard®** SDR 13.5 CPVC Fire Sprinkler Pipe conforming to ASTM F 442 standards. UL® Rated working pressure is 175 psi (1.21Mpa) @ 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, 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.

Pioneer in Molded-in Metal Insert Head Adapters

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

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.





Now, the Revolutionary TorqueSafe™ Gasket Sealed Head Adapter

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

Spears® revolutionary design features a special molded-in-place Brass Thread Insert fitted with 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. The insert is designed to rotate for easy sprinkler frame alignment without overtightening. Patent No. 7,458,613.

Full Assortment of Specialty Products & Fitting Configurations

Spears® **FlameGuard®** provides the specialty fittings needed in today's fire sprinkler systems, such as the adjustable drop nipple for fine-tuning to finished ceiling height, and ringed head adapter for ease of locating during installation. Plus, Spears® **FlameGuard®** line offers a full assortment of CPVC fire sprinkler fitting configurations including Tees, Elbows, Flanges, Couplings, Caps, Male Adapters, Grooved Coupling Adapters and Unions, sizes 3/4" through 3"; with new 3/4" and 1" Repair Couplings.

Complete Size Range of CPVC Pipe

Spears® **FlameGuard®** CPVC Fire Sprinkler Pipe is available in sizes 3/4" to 3". 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™** Gasket Sealed Adapter requires no sealant. Consult sprinkler head manufacturer prior to use.



FlameGuard® Technical

FlameGuard® General Information



The information contained in this section is based on current information and Product design at the time of publication and is subject to change without notification. Our ongoing commitment to product improvement may result in some variation. No representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or results to be obtained therefrom. For verification of technical data or additional information not contained herein, please contact Spears® Technical Services Department [West Coast: (818) 364-1611-East Coast: (678) 985-1263].

General Information

RECOMMENDATIONS FOR INSTALLERS AND USERS:

Plastic piping systems should be **ENGINEERED, INSTALLED** and **OPERATED** in accordance with **ESTABLISHED DESIGN AND ENGINEERING STANDARDS AND PROCEDURES** for plastic piping systems. Suitability for the intended service application should be determined by the installer and/or user prior to installation of a plastic piping system. All installation and maintenance personnel should be trained in the proper handling and installation requirements and precautions of plastic piping systems. **PRIOR TO ASSEMBLY, all piping system components should be inspected for damage or irregularities. Mating components should be checked to assure tolerances and engagements are compatible. Do not use any components that appear irregular or do not fit properly. Contact the appropriate manufacturer of the component product in question to determine usability. Consult all applicable codes and regulations for compliance prior to installation.**

Installation must be made in accordance with Spears® Manufacturing Company
FlameGuard® CPVC Fire Sprinkler Piping Products Installation Instructions - FG-3

NOTE - Individual or group instruction in correct solvent welding procedures is available by contacting your local distributor or your servicing Spears® Regional Distribution Center.

SOLVENT CEMENT CONNECTIONS - Spears® Manufacturing Company recommends the use of Spears® FS-5 One Step solvent cement for joining Spears® products. Use of solvent cementing products not approved for CPVC fire sprinkler systems, or failure to follow installation instructions will automatically void the warranty.

THREADED CONNECTION - Spears® Manufacturing Company recommends the use of Spears® **BLUE 75™** Thread Sealant. This product has been tested by Spears® and the sealant manufacturer for compatibility with the Spears® CPVC fire sprinkler products. Consult the sprinkler head manufacturer before using this product. **WARNING: OTHER PIPE JOINT COMPOUNDS OR PASTES MAY CONTAIN SUBSTANCES THAT COULD CAUSE STRESS CRACKING IN THE CPVC OR OTHER FITTING COMPONENTS.** Care must be taken to avoid over torquing - generally 1 to 2 turns beyond finger tight is all that is required to make up a threaded connection. Factory testing has indicated 10-25 ft. lbs. of torque is adequate to obtain a leak free seal.

GASKET SEALED THREAD CONNECTIONS - This type of connection can only be made with Spears® TorqueSafe™ style Gasket Sealed Female Sprinkler Adapters. **DO NOT USE ANY TYPE OF THREAD SEALANT WHEN INSTALLING THIS TYPE OF ADAPTER.** Tape or paste may impair proper sealing and function. Testing has shown that hand tight until snug is all that is needed to seal this special connection.

Installation Training Available - Contact Spears® Technical Services for Details

FlameGuard® Products must be installed in accordance with Spears® CPVC Fire Sprinkler Piping Products Installation Instructions, National Fire Protection Association Standards 13, 13R, 13D, and in accordance with local codes. Code requirements and field conditions may differ. It is the responsibility of the installing contractor to ensure that the product is suitable to meet these requirements.

Dimension Reference

G = (LAYING LENGTH) Intersection of center lines to bottom of socket/thread; 90° elbows, tees, crosses; ± 1/32 inch.

H = Intersection of center lines to face of fitting; 90° elbows tees, crosses; ± 1/32 inch.

J = Intersection of center lines to bottom of socket/thread; 45° elbows; ± 1/32 inch

L = Overall length of fittings; ± 1/16 inch.

M = Outside diameter of socket/thread hub; ± 1/16 inch.

N = Socket bottom to socket bottom; couplings; ± 1/16 inch.

Q = Width of flats; ± 1/16 inch.

W = Height of cap; ± 1/16 inch.

CPVC FIRE SPRINKLER PIPE SDR 13.5 (ASTM F 442)

Part Number	Nominal Size		Average O.D.		Average I.D.		Approx. Weight Lbs./Ft.
	Inches	(mm)	Inches	(mm)	Inches	(mm)	
CP-007	3/4	(19.1)	1.050	(26.7)	.874	(22.5)	0.168
CP-010	1	(25.4)	1.315	(33.4)	1.101	(28.2)	0.262
CP-012	1-1/4	(31.8)	1.660	(42.2)	1.394	(35.6)	0.418
CP-015	1-1/2	(38.1)	1.900	(48.3)	1.598	(40.7)	0.548
CP-020	2	(50.8)	2.375	(60.3)	2.003	(50.9)	0.859
CP-025	2-1/2	(63.5)	2.875	(73.0)	2.423	(61.5)	1.257
CP-030	3	(76.2)	3.500	(88.9)	2.950	(75.0)	1.867

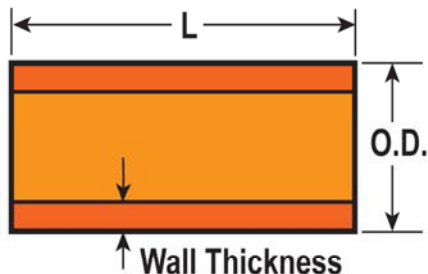
"Lead Free" low lead certification - unless otherwise specified, all Spears® FlameGuard® fittings specified here-in are certified by NSF International to ANSI/NSF® Standard 61, Annex G and is in compliance with California's Health & Safety Code Section 116825 (commonly known as AB1953) and Vermont Act 193. Weighted average lead content ≤ 0.25%. Spears® PVC and CPVC Pipe, Fittings and Valves have always been lead-free and Certified by NSF International for use in potable water systems. Spears® offers a wide range of lead-free specialty fittings and transition adapters for plumbing applications. However, certain brass threaded adapter fittings for applications that are not intended to convey water for human consumption through drinking or cooking are still produced and available.



FlameGuard® Technical
FlameGuard® Product Weights & Dimensions

Pipe - FlameGuard® CPVC Fire Sprinkler Plain End

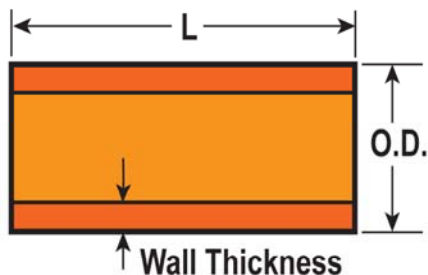
SDR 13.5 10' Lengths



Part Number	Size	L	AVG.O.D.	Minimum Wall	Approx. Wt. (Lbs./Ft)
CP-007-10	3/4	10	1.050	.078	.16
CP-010-10	1	10	1.315	.097	.26
CP-012-10	1-1/4	10	1.660	.123	.39
CP-015-10	1-1/2	10	1.900	.141	.52
CP-020-10	2	10	2.375	.176	.85
CP-025-10	2-1/2	10	2.875	.213	1.25
CP-030-10	3	10	3.500	.259	1.86

Pipe - FlameGuard® CPVC Fire Sprinkler Plain End

SDR 13.5, 15' Lengths



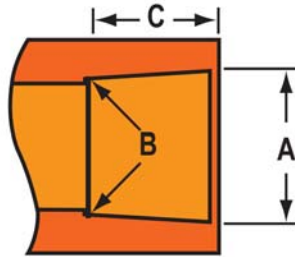
Part Number	Size	L	AVG.O.D.	Minimum Wall	Approx. Wt. (Lbs./Ft)
CP-007	3/4	15	1.050	.078	.16
CP-010	1	15	1.315	.097	.26
CP-012	1-1/4	15	1.660	.123	.39
CP-015	1-1/2	15	1.900	.141	.52
CP-020	2	15	2.375	.176	.85
CP-025	2-1/2	15	2.875	.213	1.25
CP-030	3	15	3.500	.259	1.86

FlameGuard® Technical
FlameGuard® Product Weights & Dimensions



Socket Dimensions

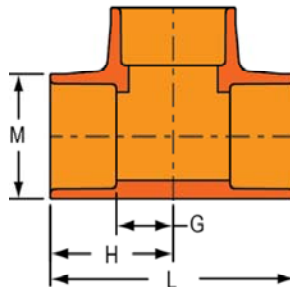
SCH 40 - ASTM F438
 SCH 80 - ASTM F439



Size	Socket Entrance A	Socket Bottom B	Tolerance	SCH 40 Minimum Socket Length C	SCH 80 Minimum Socket Length C
3/4	1.058	1.046	± .004	.719	1.000
1	1.325	1.130	± .005	.875	1.125
1-1/4	1.670	1.655	± .005	.938	1.250
1-1/2	1.912	1.894	± .006	1.094	1.375
2	2.387	2.369	± .005	1.156	1.500
2-1/2	2.889	2.868	± .007	1.750	1.750
3	3.516	3.492	± .008	1.875	1.875

Tee

Socket x Socket x Socket



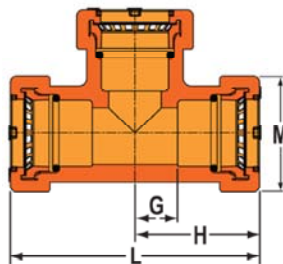
Part Number	Size	G	H	L	M	Approx. Wt. (Lbs.)
4201-007	3/4	9/16	1- 1/2	2-31/32	1- 5/16	.11
4201-010	1	7/8	1-13/16	3- 5/8	1- 5/8	.19
4201-012	1-1/4	29/32	2- 1/8	4- 1/4	2	.29
4201-015	1-1/2	1- 5/32	2-35/64	5- 3/32	2-11/32	.53
4201-020	2	1-13/32	2-15/16	5- 7/8	2- 7/8	.79
4201-025	2-1/2	1-23/32	3- 1/2	7	3-15/32	1.61
4201-030	3	2- 1/16	3-31/32	7-15/16	4- 5/32	2.50

GripLoc™ Tee

WARNING: DO NOT INSERT FINGERS

EPDM Gasket

Uses No Solvent Cement - NSF® Certified Lead Free



Part Number	Size	G	H	L	M	Approx. Wt. (Lbs.)
GL4201-010	1	27/32	2-1/2	5	2-5/16	.73



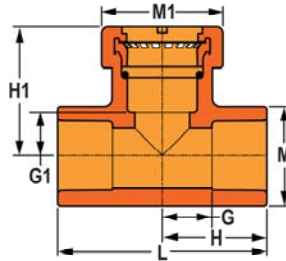
FlameGuard® Technical

FlameGuard® Product Weights & Dimensions

Socket x GripLoc™ Tee

Socket x GripLoc™

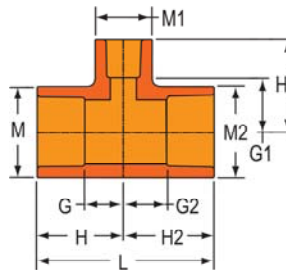
Uses No Solvent Cement On GripLoc™ Branch -
Cement Sockets on Tee Run Only, NSF®
Certified Lead Free 175 psi (1.21 Mpa) @ 150°F
(66°C)



Part Number	Size	G	G1	H	H1	L	M	M1	Approx. Wt. (Lbs.)
GLS4201-010	1	15/16	7/8	2	2-1/2	4	1-7/8	2-5/16	.48

Reducing Tee

Socket x Socket x Socket



Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	M2	Approx. Wt. (Lbs.)
4201-102	3/4X1	3/4	11/16	3/4	1-11/16	1-3/4	1-11/16	3- 13/32	1- 5/16	1-5/8	1- 5/16	.12
4201-125	1X3/4X3/4	23/32	13/16	23/32	1-25/32	1-13/16	1-21/32	3-7/16	1-19/32	1-5/16	1- 5/16	.15
4201-126	1X3/4X1	23/32	23/32	3/4	1-27/32	1-27/32	1-3/4	3-19/32	1-5/8	1-5/8	1-5/16	.16
4201-131	1X3/4	11/16	13/16	11/16	1-13/16	1-7/8	1-13/16	3- 5/8	1- 5/8	1- 5/16	1- 5/8	.16
4201-157	1-1/4X1X3/4	11/16	1- 1/32	11/16	1-15/16	2- 1/32	1-13/16	3-25/32	2- 3/32	1-13/32	1-23/32	.32
4201-158	1-1/4X1X1	27/32	29/32	25/32	2- 1/16	2- 1/32	1-29/32	3-15/16	1-31/32	1- 5/8	1- 5/8	.25
4201-159	1-1/4X1X1-1/4	31/32	7/8	31/32	2- 7/32	2- 1/8	2- 3/32	4-11/32	2- 3/32	2- 3/32	1-23/32	.36
4201-167	1-1/4X3/4	21/32	1	21/32	1-29/32	2	1-29/32	3-13/16	2	1- 5/16	2	.21
4201-168	1-1/4X1	13/16	1	13/16	2- 1/16	2-1/8	2- 1/16	4- 1/8	2	1-5/8	2	.24
4201-169	1-1/4X1-1/2	1- 1/8	15/16	1- 1/8	2- 3/8	2-11/32	2- 3/8	4- 3/4	2- 3/32	2-11/32	2- 3/32	.50
4201-201	1-1/2X1-1/4X3/4	11/16	1-3/32	11/16	2- 1/16	2- 3/32	1-15/16	4	2- 5/16	1- 3/8	2- 1/16	.40
4201-202	1-1/2X1-1/4X1	27/32	1- 1/32	1	2- 7/32	2- 5/32	2- 1/4	4-15/32	2- 5/16	1-11/16	2- 1/16	.42
4201-210	1-1/2X3/4	11/16	1- 1/32	11/16	2- 1/16	2- 1/32	2- 1/16	4- 5/32	2-11/32	1-3/8	2-11/32	.39
4201-211	1-1/2X1	13/16	1-3/32	13/16	2- 3/16	2-1/4	2- 3/16	4- 3/8	2-11/32	1-3/4	2-11/32	.41
4201-212	1-1/2X1-1/4	1-1/32	1	1-1/32	2-13/32	2-1/4	2-13/32	4-13/16	2-11/32	2-1/8	2-11/32	.48
4201-213	1-1/2X2	1-9/32	1-1/4	1-9/32	2-21/32	2-3/4	2-21/32	5-11/32	2-11/32	2-7/8	2-11/32	.64
4201-248	2X3/4	11/16	1-7/16	11/16	2- 7/32	2- 7/16	2- 7/32	4- 7/16	2-27/32	1- 3/8	2-27/32	.51
4201-249	2X1	27/32	1-13/32	27/32	2-11/32	2- 9/16	2-11/32	4-23/32	2- 7/8	1- 3/4	2- 7/8	.58
4201-250	2X1-1/4	1-1/32	1-11/32	1-1/32	2-9/16	2-19/32	2-9/16	5- 3/32	2-7/8	2-3/32	2-7/8	.64
4201-251	2X1-1/2	1- 3/16	1-7/16	1- 3/16	2-11/16	2-27/32	2-11/16	5- 3/8	2-7/8	2-3/8	2-7/8	.79
4201-289	2-1/2X1	7/8	1-11/16	7/8	2- 5/8	2-13/16	2- 5/8	5- 1/4	3-1/2	1-23/32	3-1/2	1.03
4201-290	2-1/2X1-1/4	1- 1/32	1-23/32	1- 1/32	2-27/32	3	2-27/32	5-11/16	3-1/2	2- 3/32	3-1/2	1.14
4201-291	2-1/2X1-1/2	1- 3/16	1- 7/16	1- 3/16	2-15/16	3-1/8	2-15/16	5- 7/8	3-1/2	2-11/32	3-1/2	1.25
4201-292	2-1/2X2	1-13/32	1- 5/8	1-13/32	3- 3/16	3- 1/8	3- 3/16	6-3/8	3- 1/2	2- 7/8	3- 1/2	1.37
4201-335	3X1	7/8	1-13/16	7/8	2- 3/4	3	2- 3/4	5-15/32	4- 3/16	1-23/32	4- 3/16	1.33
4201-336 ¹	3X1-1/4	1- 3/8	2-5/16	1- 3/8	3- 5/16	3- 5/8	3- 5/16	6- 5/8	4- 3/16	2- 7/8	4- 3/16	1.88
4201-337	3X1-1/2	1- 5/32	2- 1/16	1- 5/32	3- 1/32	3- 7/16	3- 1/32	6- 3/32	4- 3/16	2- 3/8	4- 3/16	1.46
4201-338	3X2	1- 7/16	1-15/16	1- 7/16	3- 5/16	3- 7/16	3- 5/16	6-5/8	4- 3/16	2- 7/8	4- 3/16	1.67
4201-339	3X2-1/2	1- 3/4	2	1- 3/4	3- 5/8	3-3/4	3- 5/8	7- 1/4	4- 3/16	3-17/32	4- 3/16	2.11

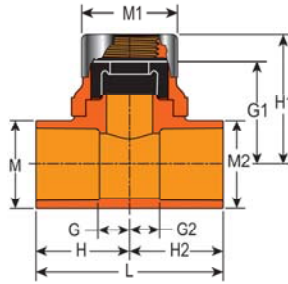
¹ Outlet sized with Bushing

FlameGuard® Technical
FlameGuard® Product Weights & Dimensions



**SofTorque™ SR Sprinkler Head
Tee - Gasket Sealed Special
Reinforced Plastic Thread Style**

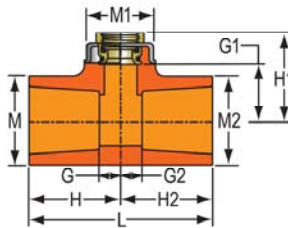
Socket x SR Fipt - Stainless Steel Collar With Elastomer
Seal - Use NO Thread Sealant
NSF® Certified Lead Free



Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	M2	Approx. Wt. (Lbs.)
4202-101GSR	3/4X1/2	7/16	1-1/2	7/16	1-3/8	1-7/8	1-3/8	2-3/4	1-5/16	1-3/8	1-5/16	.16
4202-124GSR	1X3/4X1/2	7/16	2	1/2	1-1/2	2-3/8	1-7/16	2-15/16	1-5/8	1-11/16	1-5/16	.19
4202-130GSR	1X1/2	7/16	1-5/8	7/16	1-1/2	2	1-1/2	3	1-5/8	1-3/8	1-5/8	.23

**TorqueSafe™ Sprinkler Head
Tee - Gasket Sealed Brass
Thread Insert Style**

Socket x Socket x Gasket Fipt
With Elastomer Seal - Use NO Thread Sealant

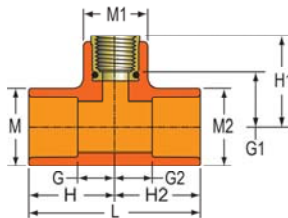


Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	M2	Approx. Wt. (Lbs.)
4202-101 G	3/4X1/2	7/16	1-5/32	7/16	1- 7/16	1-9/16	1-7/16	2-7/8	1- 3/8	1- 3/8	1- 3/8	.22
4202-124 G	1X3/4X1/2	7/16	1-9/32	9/16	1- 9/16	1-11/16	1- 9/16	3- 1/8	1-11/16	1- 3/8	1- 3/8	.25
4202-130 G	1X1/2	7/16	1-9/32	7/16	1- 9/16	1-11/16	1- 9/16	3- 1/8	1-23/32	1- 3/8	1-23/32	.28
4202-131 G	1X3/4	17/32	1-7/32	17/32	1-11/16	1-5/8	1-11/16	3-3/8	1-23/32	1-9/16	1-23/32	.37
4202-166 G	1-1/4X1/2	7/16	1- 9/16	7/16	1-11/16	1-15/16	1-11/16	3- 3/8	2- 1/16	1- 3/8	2- 1/16	.34
4202-209 G	1-1/2X1/2	1/2	1-11/16	1/2	1- 7/8	2- 3/32	1- 7/8	3- 3/4	2-5/16	1- 3/8	2-5/16	.40
4202-247 G	2X1/2	1/2	1-15/16	1/2	2	2-11/32	2	4	2-27/32	1- 3/8	2-27/32	.53

Not intended to convey or dispense water for human consumption through drinking or cooking

**Sprinkler Head Tee - Brass
Thread Insert Style**

Socket x Socket x Fipt



Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	M2	Approx. Wt. (Lbs.)
4202-101	3/4X1/2	7/16	1-3/32	7/16	1-7/16	1- 5/8	1-7/16	2-7/8	1-3/8	1- 3/16	1-3/8	.20
4202-124	1X3/4X1/2	7/16	1-1/4	9/16	1- 9/16	1-13/16	1- 9/16	3- 1/8	1-23/32	1- 3/16	1- 3/8	.24
4202-130	1X1/2	7/16	1-1/4	7/16	1- 9/16	1-13/16	1- 9/16	3- 1/8	1- 23/32	1- 3/16	1- 23/32	.26
4202-010	1	21/32	1-3/16	21/32	1-25/32	1-29/32	1-25/32	3-19/32	1-23/32	1-23/32	1-23/32	.37
4202-156	1-1/4X1X1/2	3/8	1-1/2	9/16	1-11/16	2- 1/32	1-11/16	3- 3/8	2- 3/32	1- 3/16	1-23/32	.29
4202-166	1-1/4X1/2	7/16	1-15/32	7/16	1-11/16	2-1/32	1-11/16	3-3/8	2- 3/32	1- 3/16	2- 3/32	.25
4202-199	1-1/2X1-1/4X1/2	1/2	1-5/8	9/16	1- 7/8	2- 3/16	1-13/16	3-11/16	2-5/16	1- 3/16	2- 1/16	.36

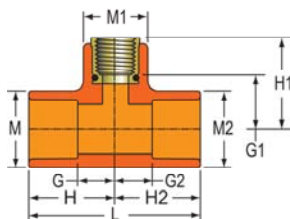


FlameGuard® Technical FlameGuard® Product Weights & Dimensions

Sprinkler Head Tee - Brass Thread Insert Style

(Continued)

Socket x Socket x Fipt



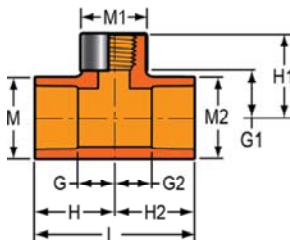
Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	M2	Approx. Wt. (Lbs.)
4202-209	1-1/2X1/2	1/2	1-5/8	1/2	1- 7/8	2- 3/16	1- 7/8	3- 3/4	2- 5/16	1-3/16	2-5/16	.37
4202-237	2X1-1/2X1/2	1/2	1-7/8	17/32	2	2-7/16	1-15/16	3-15/16	2- 7/8	1- 3/16	2-11/32	.46
4202-247	2X1/2	1/2	1-7/8	1/2	2	2- 7/16	2	4	2-27/32	1-3/16	2-27/32	.50

Not intended to convey or dispense water for human consumption through drinking or cooking

Sprinkler Head Tee - Special Reinforced Plastic Thread Style

Socket x Socket x SR Fipt - Stainless Steel Collar

NSF® Certified Lead-Free



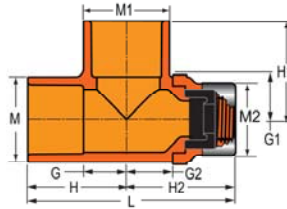
Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	M2	Approx. Wt. (Lbs.)
4202-010SR	1	21/32	3/4	21/32	1-25/32	1- 5/8	1-25/32	3-19/32	1-23/32	1-11/16	1-23/32	.27
4202-101SR	3/4X1/2	19/32	23/32	19/32	1-19/32	1- 7/16	1-19/32	3- 7/32	1-13/32	1- 3/16	1-13/32	.15
4202-124SR	1X3/4X1/2	7/16	29/32	9/16	1-19/32	1- 5/8	1- 9/16	3- 5/32	1-23/32	1- 3/16	1-3/8	.19
4202-130SR	1X1/2	7/16	29/32	7/16	1- 9/16	1- 5/8	1- 9/16	3- 1/8	1-23/32	1- 3/16	1-23/32	.19
4202-131SR	1X3/4	5/8	13/16	5/8	1-13/16	1-17/32	1-13/16	3-5/8	1-23/32	1-3/8	1-23/32	.22
4202-156SR	1-1/4X1X1/2	7/16	1- 3/16	9/16	1-21/32	1- 7/8	1-23/32	3-3/8	2- 3/32	1- 3/16	1-23/32	.25
4202-166SR	1-1/4X1/2	7/16	1- 1/8	7/16	1-11/16	1-27/32	1-11/16	3- 3/8	2- 3/32	1- 3/16	2- 3/32	.26
4202-168SR	1-1/4X1	27/32	1- 1/32	27/32	2-1/8	1-29/32	2-1/8	4-1/4	2- 3/32	1-11/16	2- 3/32	.35
4202-199SR	1-1/2X1-1/4X1/2	1/2	1-1/4	21/32	1-7/8	2	1-27/32	3-23/32	2-11/32	1- 3/16	2- 3/32	.33
4202-209SR	1-1/2X1/2	1/2	1- 1/4	1/2	1- 7/8	1-31/32	1- 7/8	3- 3/4	2-11/32	1- 3/16	2-11/32	.34
4202-211SR	1-1/2X1-1/2X1	27/32	1- 3/16	27/32	2- 7/32	2- 3/32	2- 7/32	4-7/16	2-11/32	1-23/32	2-11/32	.44
4202-237SR	2X1-1/2X1/2	17/32	1- 9/16	9/16	2- 1/32	2- 1/4	1- 15/16	3-31/32	2- 7/8	1- 3/16	2-11/32	.45
4202-247SR	2X1/2	1/2	1-17/32	1/2	2	2-1/4	2	4	2- 7/8	1- 3/16	2- 7/8	.48
4202-287SR	2-1/2X1/2	17/32	1- 3/4	17/32	2- 9/32	2- 1/2	2- 9/32	4-19/32	3- 1/2	1-3/16	3- 1/2	.77

FlameGuard® Technical
FlameGuard® Product Weights & Dimensions



**SofTorque™ SR Sprinkler Head
Tee - Gasket Sealed Special
Reinforced Plastic Thread Style**

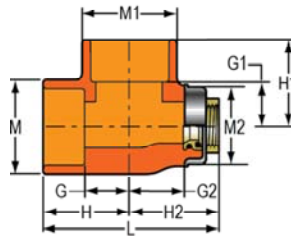
Socket x SR Fipt x Socket - Stainless Steel Collar
With Elastomer Seal - Use NO Thread Sealant
NSF® Certified Lead-Free



Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	M2	Approx. Wt. (Lbs.)
4203-122GSR	1X1/2X1	13/16	13/16	1-5/8	1-27/32	1-27/32	1-31/32	3-13/16	1-5/8	1-5/8	1-3/8	.22

**TorqueSafe™ Sprinkler Head
Tee - Gasket Sealed Brass
Thread Insert Style**

Socket x Gasket Fipt x Socket
With Elastomer Seal - Use NO Thread Sealant

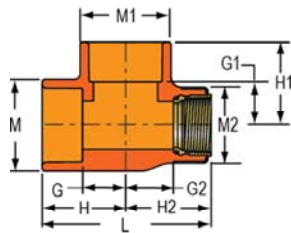


Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	M2	Approx. Wt. (Lbs.)
4203-122 G	1X1/2X1	19/32	13/16	1-13/32	1-19/32	1-27/32	1- 3/4	3-11/32	1- 5/8	1- 5/8	1- 3/8	.26

Not intended to convey or dispense water for human consumption through drinking or cooking

**Sprinkler Head Tee - Brass
Thread Insert Style**

Socket x Fipt x Socket



Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	M2	Approx. Wt. (Lbs.)
4203-122	1X1/2X1	11/16	11/16	1-13/32	1-19/32	1-19/32	1-29/32	3-1/2	1-11/16	1-3/4	1-3/16	.24

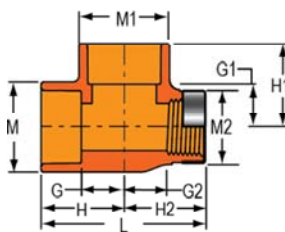
Not intended to convey or dispense water for human consumption through drinking or cooking



FlameGuard® Technical FlameGuard® Product Weights & Dimensions

Sprinkler Head Tee - Special Reinforced Plastic Thread Style

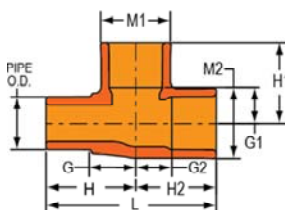
Socket x SR Fipt x Socket - Stainless Steel Collar
NSF® Certified Lead-Free



Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	M2	Approx. Wt. (Lbs.)
4203-122SR	1X1/2X1	23/32	23/32	1- 3/32	1-19/32	1- 5/8	1-25/32	3-13/32	1- 3/4	1- 3/4	1- 3/16	.21

Street Tee

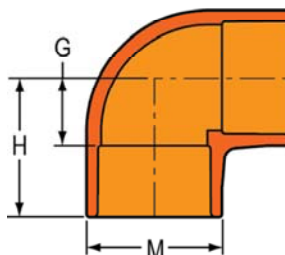
Spigot x Socket x Socket



Part Number	Size	G	G1	G2	H	H1	H2	L	M1	M2	Approx. Wt. (Lbs.)
4244-007	3/4	7/8	5/8	27/32	1-13/16	1- 11/16	1-11/16	3- 5/8	1-13/32	1-13/32	.16
4244-010	1	1- 1/16		7/8	2- 3/16	1-15/16		4- 3/16	1- 23/32	1- 23/32	.27
4244-012	1-1/4	1- 5/16	15/16	1	2- 9/16	2- 1/4	2- 9/32	4-27/32	2- 3/32	2- 3/32	.41
4244-015	1-1/2	1-13/16	1- 1/8	1- 1/8	2- 3/4	2- 9/16	2- 5/8	5-3/8	2-11/32	2-11/32	.55
4244-020	2	1-3/4	1- 5/16	1-13/32	3- 1/4	2-7/8	2-15/16	6- 5/32	2- 7/8	2- 7/8	.83

90° EII

Socket x Socket



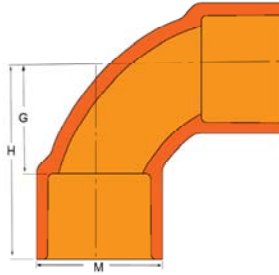
Part Number	Size	G	H	M	Approx. Wt. (Lbs.)
4206-007	3/4	9/16	1- 1/2	1- 5/16	.07
4206-010	1	3/4	1- 5/8	1- 5/8	.12
4206-012	1-1/4	15/16	2-3/16	2	.21
4206-015	1-1/2	1- 5/32	2-17/32	2-11/32	.41
4206-020	2	1-13/32	2-29/32	2- 7/8	.62
4206-025	2-1/2	1-1/2	3- 3/8	3- 1/2	1.14
4206-030	3	2-1/16	4	4-3/16	1.70

FlameGuard® Technical
FlameGuard® Product Weights & Dimensions



90° Elbow, Sweep

Socket x Socket



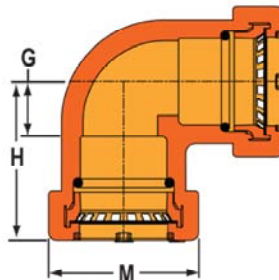
Part Number	Size	G	H	M	Approx. Wt. (Lbs.)
4206-007S	3/4	1-1/16	2-1/16	1-13/32	.09
4206-010S	1	1-5/16	2-3/8	1-5/8	.15
4206-012S	1-1/4	1-9/16	2-27/32	2-3/32	.24
4206-015S	1-1/2	1-3/4	3-5/32	2-3/8	.48
4206-020S	2	2-5/16	3-13/16	2-7/8	.80
4206-025S	2-1/2	2-9/16	4-5/16	3-9/16	1.38
4206-030S	3	3-7/32	5-3/32	4-5/16	2.07

GripLoc™ 90° EII

WARNING: DO NOT INSERT FINGERS

EPDM Gasket

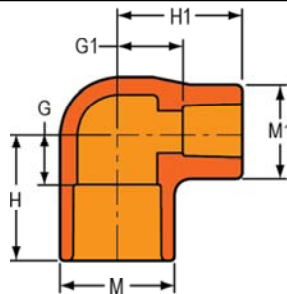
Uses No Solvent Cement - NSF® Certified Lead Free



Part Number	Size	G	H	M	Approx. Wt. (Lbs.)
GL4206-010	1	27/32	2-1/2	2-5/16	.53

90° Reducing EII

Socket x Socket

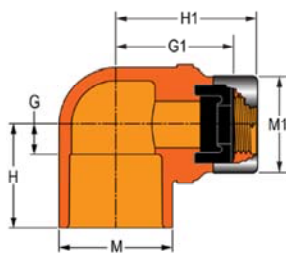


Part Number	Size	G	G1	H	H1	M	M1	Approx. Wt. (Lbs.)
4206-131	1X3/4	21/32	13/16	1-25/32	1-13/16	1-19/32	1-5/16	.11
4206-168	1-1/4X1	15/16	1-7/32	2-3/16	2-3/8	2	2	.17



SofTorque™ SR 90° Sprinkler Head Elbow - Gasket Sealed Special Reinforced Plastic Thread Style

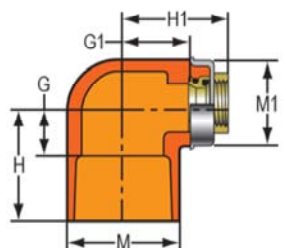
Socket x SR Fipt - Stainless Steel Collar
With Elastomer Seal - Use NO Thread Sealant
NSF® Certified Lead-Free



Part Number	Size	G	G1	H	H1	M	M1	Approx. Wt. (Lbs.)
4207-101GSR	3/4X1/2	7/16	1-17/32	1-3/8	1-27/32	1-11/32	1-3/8	.16
4207-130GSR	1X1/2	7/16	1-11/16	1-1/2	2	1-21/32	1-3/8	.18
4207-166GSR	1-1/4X1/2	7/16	1-1/2	1-11/16	2-1/16	2	1-3/8	.22

TorqueSafe™ 90° Sprinkler Head Elbow - Gasket Sealed Brass Thread Insert Style

Socket x Gasket Fipt With Elastomer Seal - Use NO Thread Sealant

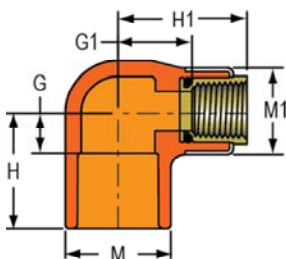


Part Number	Size	G	G1	H	H1	M	M1	Approx. Wt. (Lbs.)
4207-101 G	3/4X1/2	3/8	1- 7/32	1-13/32	1-9/16	1-3/8	1- 3/8	.19
4207-130 G	1X1/2	7/16	1-3/8	1- 9/16	1-11/16	1-11/16	1- 3/8	.23
4207-166 G	1-1/4X1/2	15/32	1-19/32	1-11/16	1-15/16	2- 3/32	1- 3/8	.29

Not intended to convey or dispense water for human consumption through drinking or cooking

Sprinkler Head 90° EII - Brass Thread Insert Style

Socket x Fipt



Part Number	Size	G	G1	H	H1	M	M1	Approx. Wt. (Lbs.)
4207-101	3/4X1/2	1/2	1- 3/32	1- 1/2	1- 5/8	1-13/32	1- 3/16	.17
4207-130	1X1/2	7/16	1-7/32	1-19/32	1-25/32	1-23/32	1- 3/16	.20
4207-131	1X3/4	17/32	1-1/4	1-21/32	1-31/32	1-23/32	1- 3/8	.25
4207-166	1-1/4X1/2	7/16	1-1/2	1-11/16	2-1/16	2- 3/32	1-3/16	.24

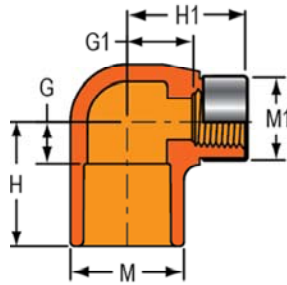
Not intended to convey or dispense water for human consumption through drinking or cooking

FlameGuard® Technical
FlameGuard® Product Weights & Dimensions



Sprinkler Head 90° EII - Special Reinforced Plastic Thread Style

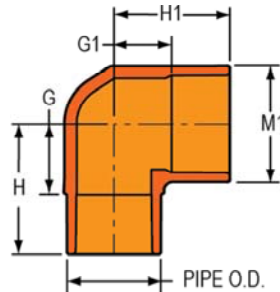
Socket x SR Fipt - Stainless Steel Collar
 NSF® Certified Lead-Free



Part Number	Size	G	G1	H	H1	M	M1	Approx. Wt. (Lbs.)
4207-101SR	3/4X1/2	1/2	13/16	1-15/32	1- 1/2	1-13/32	1- 3/16	.13
4207-130SR	1X1/2	7/16	11/16	1- 9/16	1- 1/2	1-23/32	1- 3/16	.15
4207-131SR	1X3/4	17/32	7/8	1-21/32	1-19/32	1-23/32	1- 3/8	.16
4207-166SR	1-1/4X1/2	13/32	1- 1/32	1-21/32	1-23/32	2- 3/32	1- 7/32	.18

90° Street EII

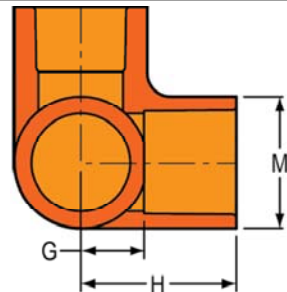
Spigot x Socket



Part Number	Size	G	G1	H	H1	M1	Approx. Wt. (Lbs.)
4209-007	3/4	29/32	11/16	1-15/16	1-11/16	1-13/32	.12
4209-010	1	1-3/32	27/32	2-7/32	2	1-23/32	.20
4209-012	1-1/4	1- 1/4	1	2-9/16	2- 1/4	2- 3/32	.32
4209-015	1-1/2	1-15/32	1-3/16	2-27/32	2- 9/16	2-3/8	.42
4209-020	2	1-23/32	1- 1/2	3- 7/32	3	2-27/32	.64

Side Outlet EII

Socket x Socket x Socket



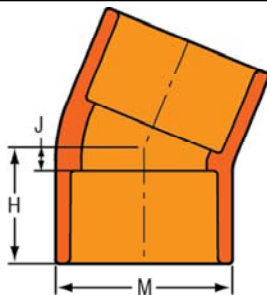
Part Number	Size	G	H	M	Approx. Wt. (Lbs.)
4213-007	3/4	5/8	1-9/16	1- 5/16	.09
4213-010	1	3/4	1- 7/8	1- 5/8	.17



FlameGuard® Technical **FlameGuard® Product Weights & Dimensions**

22-1/2° EII

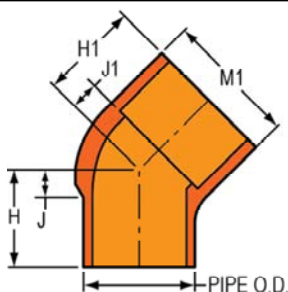
Socket x Socket



Part Number	Size	H	J	M	Approx. Wt. (Lbs.)
4216-007	3/4	1- 3/16	7/32	1-13/32	.08
4216-010	1	1- 3/8	9/32	1-23/32	.14
4216-012	1-1/4	1- 1/2	1/4	2- 3/32	.20
4216-015	1-1/2	1-21/32	9/32	2-11/16	.27
4216-020	2	1- 7/8	3/8	2-27/32	.43
4216-025	2-1/2	2-7/32	15/32	3-1/2	.72
4216-030	3	2- 3/8	1/2	4- 5/32	.76

22-1/2° Street EII

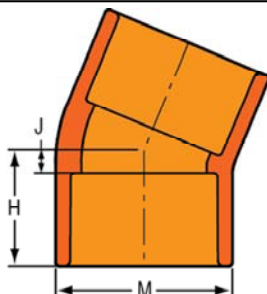
Spigot x Socket



Part Number	Size	H	H1	J	J1	M1	Approx. Wt. (Lbs.)
4242-007	3/4	1- 5/16	1- 1/8	5/16	1/8	1- 3/8	.08
4242-010	1	1- 1/2	1-11/32	3/8	7/32	1-23/32	.14
4242-012	1-1/4	1- 11/16	1-1/2	7/16	1/4	2- 1/16	.21
4242-015	1-1/2	1-13/16	1-23/32	7/16	11/32	2-11/32	.28
4242-020	2	2-1/16	1-7/8	17/32	3/8	2- 7/8	.41
4242-025	2-1/2	2- 7/32	2- 7/32	1/2	15/32	3- 1/2	.76
4242-030	3	2-13/32	2-13/32	17/32	17/32	4- 5/32	.98

45° EII

Socket x Socket



Part Number	Size	H	J	M	Approx. Wt. (Lbs.)
4217-007	3/4	1-11/32	13/32	1- 5/16	.07
4217-010	1	1-13/32	3/8	1- 5/8	.11
4217-012	1-1/4	1- 5/8	3/8	2- 1/8	.23
4217-015	1-1/2	1-13/16	7/16	2-3/8	.29

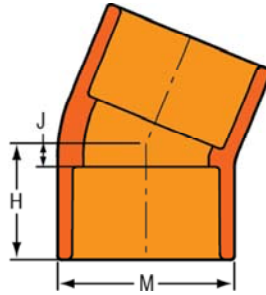
FlameGuard® Technical
FlameGuard® Product Weights & Dimensions



45° Ell

Socket x Socket

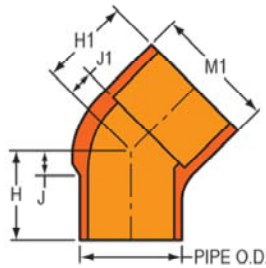
(Continued)



Part Number	Size	H	J	M	Approx. Wt. (Lbs.)
4217-020	2	2-1/8	5/8	2-7/8	.47
4217-025	2-1/2	2-7/16	11/16	3- 1/2	.82
4217-030	3	2-3/4	29/32	4- 5/32	1.21

45° Street Ell

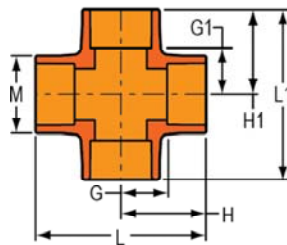
Spigot x Socket



Part Number	Size	H	H1	J	J1	M1	Approx. Wt. (Lbs.)
4227-010	1	1- 1/2	1- 3/8	1/2	1/4	1- 5/8	.09
4227-012	1-1/4	1-25/32	1- 9/16	9/16	11/32	1-31/32	.15
4227-015	1-1/2	2- 1/32	1-3/4	11/16	3/8	2-11/32	.28
4227-020	2	2- 5/16	1-15/16	7/8	13/32	2- 7/8	.43

Cross

Socket x Socket x Socket x Socket



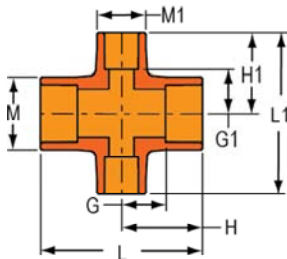
Part Number	Size	G	G1	H	H1	L	L1	M	Approx. Wt. (Lbs.)
4220-007	3/4	5/8	5/8	1-5/8	1-5/8	3- 1/4	3-1/4	1-13/32	.21
4220-010	1	3/4	3/4	1- 5/8	1- 5/8	3- 1/4	3- 1/4	1-23/32	.22
4220-012	1-1/4	1-3/32	1-3/32	2- 3/8	2- 3/8	4- 3/4	4- 3/4	2-1/8	.62
4220-015	1-1/2	1-13/64	1- 7/32	2-39/64	2- 5/8	5-1/4	5-1/4	2- 3/8	.80
4220-020	2	1- 1/2	1- 1/2	3	3	6	6	3	1.40
4220-025	2-1/2	1-11/16	1-11/16	3- 7/16	3- 7/16	6- 7/8	6- 7/8	3-17/32	2.11
4220-030	3	2- 3/32	2- 3/32	3-31/32	3-31/32	7-15/16	7-15/16	4- 7/16	3.37



FlameGuard® Technical **FlameGuard® Product Weights & Dimensions**

Reducing Cross

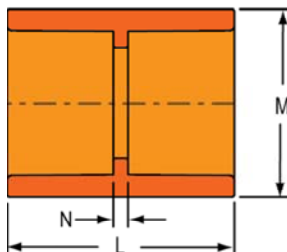
Socket x Socket x Socket x Socket



Part Number	Size	G	G1	H	H1	L	L1	M	M1	Approx. Wt. (Lbs.)
4220-131	1X3/4	23/32	5/8	1- 5/8	1- 5/8	3- 1/4	3- 1/4	1- 7/8	1- 1/2	.35
4220-167	1-1/4X3/4	3/4	1-1/32	2	2- 3/64	4	4- 3/32	2- 1/16	1-3/8	.35
4220-210	1-1/2X3/4	11/16	1- 5/32	2- 3/32	2-11/64	4- 3/16	4-11/32	2- 3/8	1-13/32	.41
4220-248	2X3/4	11/16	1-7/16	2-13/64	2-7/16	4-13/32	4-7/8	2-29/32	1-13/32	.55
4220-289	2-1/2X1	29/32	1- 3/4	2-43/64	2- 7/8	5-11/32	5- 3/4	3- 1/2	1- 3/4	.98

Coupling

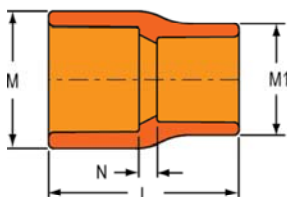
Socket x Socket



Part Number	Size	L	M	N	Approx. Wt. (Lbs.)
4229-007	3/4	1-31/32	1-5/16	3/32	.04
4229-010	1	2- 3/16	1- 5/8	3/32	.07
4229-012	1-1/4	2-19/32	2	3/32	.12
4229-015	1-1/2	2- 7/8	2-11/32	3/32	.22
4229-020	2	3- 1/8	2-27/32	3/32	.32
4229-025	2-1/2	3-11/16	3-15/32	3/16	.58
4229-030	3	4	4- 3/16	3/16	.85

Reducer Coupling

Socket x Socket



Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
4229-131	1X3/4	2- 3/8	1-23/32	1-13/32	7/32	.11
4229-167	1-1/4X3/4	2-19/32	2- 3/32	1- 5/8	11/32	.14
4229-168	1-1/4X1	2-11/16	2- 3/32	1-23/32	5/16	.17
4229-210	1-1/2X3/4	2-13/16	2-11/32	1-13/32	15/32	.18
4229-211	1-1/2X1	2- 7/8	2-13/32	1-15/16	3/8	.21
4229-212	1-1/2X1-1/4	2-13/16	2-13/32	2- 1/8	5/32	.22

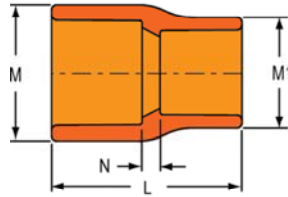
FlameGuard® Technical
FlameGuard® Product Weights & Dimensions



Reducer Coupling

(Continued)

Socket x Socket



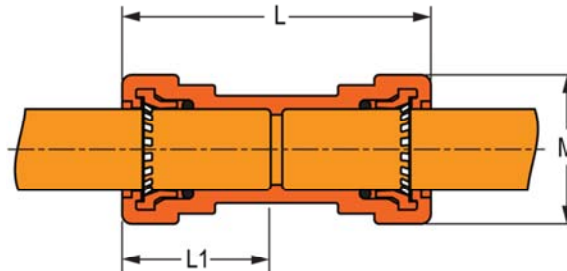
Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
4229-248	2X3/4	3- 3/16	2- 7/8	1- 7/16	23/32	.32
4229-249	2X1	3-1/2	3	1-23/32	27/32	.38
4229-250	2X1-1/4	3- 3/16	2- 7/8	2- 1/8	17/32	.33
4229-251	2X1-1/2	3- 3/16	2-27/32	2-11/32	1/4	.30
4229-291	2-1/2X1-1/2	3-23/32	3-15/32	2-11/32	9/16	.50
4229-292	2-1/2X2	3-21/32	3- 1/2	2- 7/8	13/32	.51
4229-337	3X1-1/2	3-1/2	4-3/16	2-3/8	7/32	.69
4229-339	3X2-1/2	3-27/32	4- 3/16	3- 1/2	1/4	.79

GripLoc™ Coupling

WARNING: DO NOT INSERT FINGERS

EPDM Gasket

Uses No Solvent Cement - NSF® Certified Lead Free



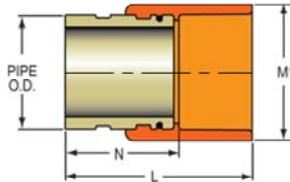
Part Number	Size	L	L1	M	Approx. Wt. (Lbs.)
GL4229-007	3/4	4-1/16	1-15/16	1-15/16	.27
GL4229-010	1	4-3/16	2	2-5/16	.37
GL4229-020	2	4-7/16	2-1/8	3-5/8	.88



FlameGuard® Technical **FlameGuard® Product Weights & Dimensions**

Grooved Coupling Adapter

Groove x Socket

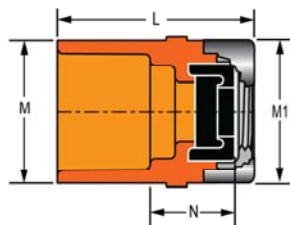


Part Number	Size	L	M1	N	Pipe O.D.	Approx. Wt. (Lbs.)
4233-012	1-1/4	3- 5/8	2- 3/32	2-11/32	1.660	.71
4233-015	1-1/2	3- 3/4	2-11/32	2-11/32	1.900	.83
4233-020	2	3-27/32	2-27/32	2-11/32	2-3/8	1.29
4233-025	2-1/2	4- 3/16	3-15/32	2- 7/16	2-7/8	2.01
4233-030	3	4- 5/16	4- 5/32	2- 7/16		2.72

Not intended to convey or dispense water for human consumption through drinking or cooking

QuickTorque™ SR Female Sprinkler Head Adapter - Gasket Sealed Special Reinforced Metal Thread Style

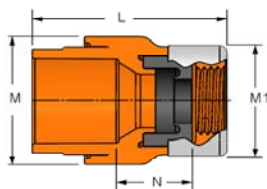
Socket x SR Fipt - Stainless Steel Collar
With Elastomer Seal - Use NO Thread Sealant
NSF® Certified Lead Free



Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
4235-101GMR	3/4X1/2	1-15/16	1-5/16	1-9/16	15/16	.16
4235-130GMR	1X1/2	2-1/4	1-5/8	1-9/16	15/16	.19

SofTorque™ SR Female Sprinkler Head Adapter - Gasket Sealed Special Reinforced Plastic Thread Style

Socket x SR Fipt - Stainless Steel Collar
With Elastomer Seal - Use NO Thread Sealant
NSF® Certified Lead-Free



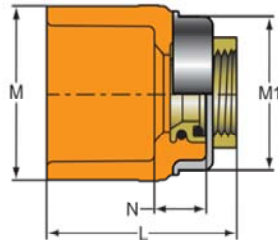
Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
4235-101GSR	3/4X1/2	2-1/8	1-23/32	1-3/8	31/32	.10
4235-130GSR	1X1/2	2- 3/8	1- 23/32	1- 3/8	1	.12

FlameGuard® Technical
FlameGuard® Product Weights & Dimensions



TorqueSafe™ Female Sprinkler Head Adapter - Gasket Sealed Brass Thread Insert Style

Socket x Gasket Fipt
 With Elastomer Seal - Use NO Thread Sealant

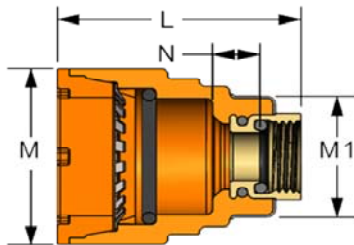


Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
4235-101 G	3/4X1/2	1- 7/8	1-13/32	1- 3/8	17/32	.14
4235-130GS	1X1/2	2-1/32	1-11/16	1- 3/8	17/32	.16
4235-131 G	1X3/4	2	1-11/16	1- 9/16	9/16	.25

Not intended to convey or dispense water for human consumption through drinking or cooking

GripLoc™ TorqueSafe™ Female Sprinkler Head Adapter - Gasket Sealed Brass Thread Insert Style

Socket x Gasket Fipt
 With Elastomer Seal - Use NO Thread Sealant

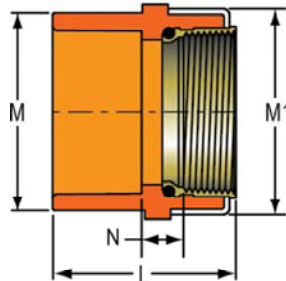


Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
GL4235-130 G	1X1/2	2-7/16	2	1-3/8	15/32	.22

Not intended to convey or dispense water for human consumption through drinking or cooking

Female Adapter - Brass Thread Insert Style

Socket x Fipt



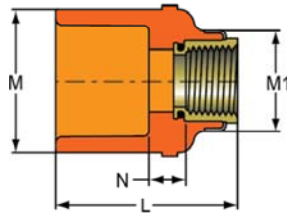
Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
4235-007	3/4	2- 1/8	1-13/32	1- 3/8	3/8	.16
4235-010	1	2-7/32	1- 3/4	1-11/16	11/32	.24
4235-012	1-1/4	2- 3/8	2- 3/32	2- 1/16	1/4	.34
4235-015	1-1/2	2-17/32	2-13/32	2- 7/16	13/32	.48
4235-020	2	2-25/32	2-27/32	3- 3/16	3/8	1.00

Not intended to convey or dispense water for human consumption through drinking or cooking



Female Sprinkler Head Adapter - Brass Thread Insert Style

Socket x Fipt



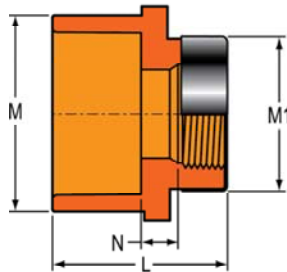
Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
4235-101	3/4X1/2	2-1/16	1-13/32	1-3/16	15/32	.13
4235-130	1X1/2	2-11/32	1-11/16	1-3/16	5/8	.16
4235-131	1X3/4	2-5/16	1-11/16	1-3/8	17/32	.18

Not intended to convey or dispense water for human consumption through drinking or cooking

Female Sprinkler Head Adapter - Special Reinforced Plastic Thread Style

Socket x SR Fipt - Stainless Steel Collar

NSF® Certified Lead-Free

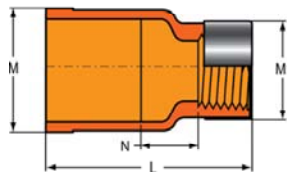


Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
4235-101SR	3/4X1/2	1-29/32	1-13/32	1-3/16	1/8	.07
4235-130SR	1X1/2	2-7/32	1-23/32	1-3/16	11/32	.10
4235-131SR	1X3/4	2-3/32	1-3/4	1-3/8	1/4	.12

Female Sprinkler Head Adapter - Special Reinforced Plastic Thread Style with Socket Body Wrench Flats

Socket x SR Fipt - Stainless Steel Collar

NSF® Certified Lead-Free



M = Flat to Flat Dimension

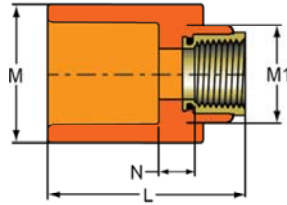
Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
W4235-101SR	3/4X1/2	2-9/32	1-13/32	1-3/16	17/32	.09
W4235-130SR	1X1/2	2-9/32	1-3/8	1-3/16	13/32	.11

FlameGuard® Technical
FlameGuard® Product Weights & Dimensions



**Female Sprinkler Head Adapter
 - Brass Thread Insert Style with
 Long Body**

Socket x Fipt

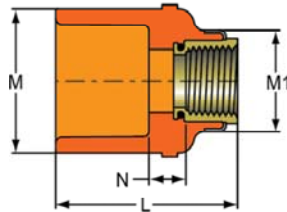


Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
L4235-130	1X1/2	2- 3/16	1-23/32	1- 7/32	1/2	.18

Not intended to convey or dispense water for human consumption through drinking or cooking

**Female Sprinkler Head Adapter
 - Brass Thread Insert Style with
 Positioning Ring**

Socket x Fipt

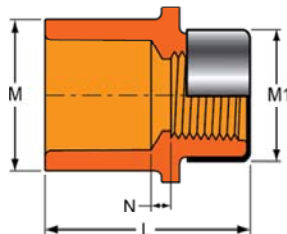


Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
R4235-101	3/4X1/2	2- 1/32	1- 7/16	1- 3/16	15/32	.14

Not intended to convey or dispense water for human consumption through drinking or cooking

**Female Sprinkler Head Adapter
 - Special Reinforced Plastic
 Thread Style with Positioning
 Ring**

Socket x SR Fipt - Stainless Steel Collar



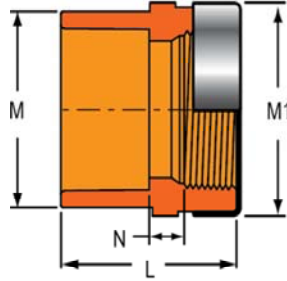
Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
R4235-101SR	3/4X1/2	1-15/16	1- 7/16	1- 7/32	7/32	.09



FlameGuard® Product Weights & Dimensions

Female Adapter - Special Reinforced Plastic Thread Style

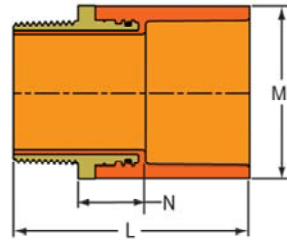
Socket x SR Fipt - Stainless Steel Collar
NSF® Certified Lead-Free



Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
4235-007SR	3/4	1- 7/8	1-13/32	1- 3/8	3/32	.08
4235-010SR	1	2- 5/32	1-23/32	1- 11/16	3/32	.12
4235-012SR	1-1/4	2- 5/16	2- 1/8	2- 1/16	3/16	.20

Transition Male Adapter with Brass Thread

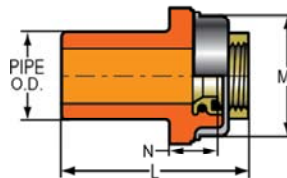
Mipt x Socket
NSF® Certified Lead-Free



Part Number	Size	L	M1	N	Approx. Wt. (Lbs.)
4236-007	3/4	2-17/32	1-13/32	13/16	.26
4236-010	1	2-15/16	1-23/32	29/32	.42
4236-012	1-1/4	3- 1/8	2- 3/32	31/32	.66
4236-015	1-1/2	3- 9/32	2-11/32	31/32	.79
4236-020	2	3- 7/16	2-27/32	1	1.09

TorqueSafe™ Female Spigot Sprinkler Head Adapters - Gasket Sealed Brass Thread Insert Style

Spigot x Gasket Fipt
With Elastomer Seal - Use NO Thread Sealant



Part Number	Size	L	M	N	Approx. Wt. (Lbs.)
4238-101 G	3/4X1/2	1-15/16	1- 3/8	1-17/32	.14
4238-130 G	1X1/2	2- 1/16	1- 3/8	1-21/32	.15

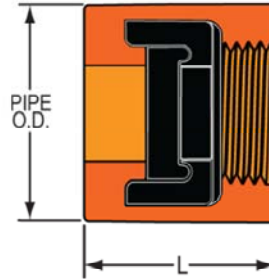
Not intended to convey or dispense water for human consumption through drinking or cooking

FlameGuard® Technical
FlameGuard® Product Weights & Dimensions



SofTorque™ Reducer Bushing - Gasket Sealed Plastic Thread Style

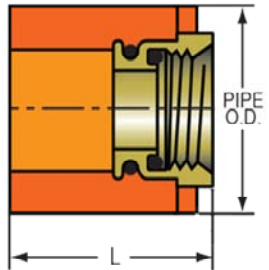
Spigot x Fipt - With Elastomer Seal - Use NO Thread Sealant



Part Number	Size	L	Approx. Wt. (Lbs.)
4238-130GSR	1X1/2	1-5/32	.05

TorqueSafe™ Bushing - Gasket Sealed Brass Thread Insert Style

Spigot x Gasket Fipt
 With Elastomer Seal - Use NO Thread Sealant

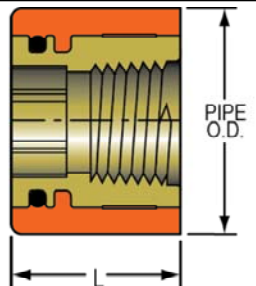


Part Number	Size	L	Approx. Wt. (Lbs.)
4238-130BR G	1X1/2	1-1/4	.10

Not intended to convey or dispense water for human consumption through drinking or cooking

Bushing - with Brass Thread Insert

Spigot x Fipt



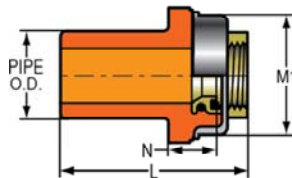
Part Number	Size	L	Approx. Wt. (Lbs.)
4238-130BR	1X1/2	1	.21

Not intended to convey or dispense water for human consumption through drinking or cooking



Spigot Female Sprinkler Head Adapters - Brass Thread Insert Style

Spigot x Fipt

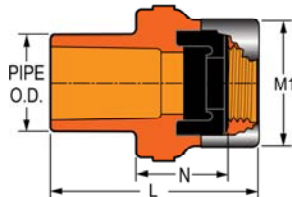


Part Number	Size	L	M1	N	Approx. Wt. (Lbs.)
4238-101	3/4X1/2	2- 5/32	1- 7/32	19/32	.12
4238-130	1X1/2	2- 1/4	1- 3/16	9/16	.13

Not intended to convey or dispense water for human consumption through drinking or cooking

SofTorque™ Spigot Female Adapter - Gasket Sealed Special Reinforced Plastic Thread Style

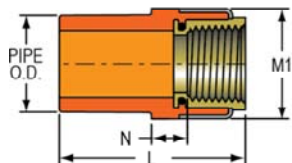
Spigot x SR Fipt - Stainless Steel Collar
With Elastomer Seal - Use NO Thread Sealant
NSF® Certified Lead Free



Part Number	Size	L	M1	N	Approx. Wt. (Lbs.)
4278-101GSR	3/4X1/2	2-1/4	1-3/8	1	.11
4278-130GSR	1X1/2	2-3/8	1-3/8	11/16	.12

Spigot Female Adapter - Brass Thread Insert Style

Spigot x Fipt



Part Number	Size	L	M1	N	Approx. Wt. (Lbs.)
4278-007	3/4	2- 5/32	1- 3/8	1/2	.17
4278-010	1	2- 9/32	1-11/16	7/16	.22

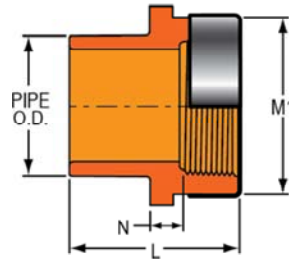
Not intended to convey or dispense water for human consumption through drinking or cooking

FlameGuard® Technical
FlameGuard® Product Weights & Dimensions



**Spigot Female Adapter -
Special Reinforced Plastic
Thread Style**

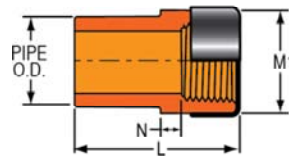
Spigot x SR Fipt - Stainless Steel Collar
NSF® Certified Lead-Free



Part Number	Size	L	M1	N	Approx. Wt. (Lbs.)
4278-007SR	3/4	1-15/16	1- 3/8	5/16	.07
4278-010SR	1	2- 1/4	1-23/32	5/16	.13

**Spigot Female Sprinkler Head
Adapters - Special Reinforced
Plastic Thread Style**

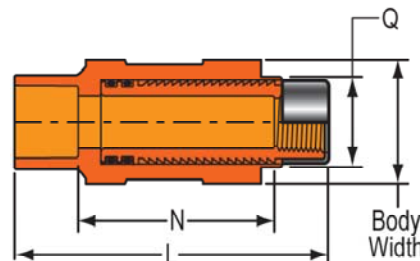
Spigot x SR Fipt - Stainless Steel Collar
NSF® Certified Lead-Free



Part Number	Size	L	M1	N	Approx. Wt. (Lbs.)
4238-101SR	3/4X1/2	1-29/32	1- 7/32	1/8	.06
4238-130SR	1X1/2	2- 1/32	1- 7/32	7/32	.08

**Adjustable Sprinkler Head
Adapters - Special Reinforced
Plastic Thread Style**

Socket x SR Fipt - Stainless Steel Collar
TRAVEL = 1-9/16"
NSF® Certified Lead-Free



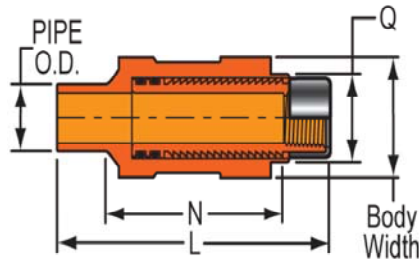
Part Number	Size	L-Max	L-Min	N-Max	N-Min	Q	Body Width	Approx. Wt. (Lbs.)
42001SR	3/4X1/2	8-1/4	6-5/8	6-9/16	4-7/8	1- 1/4	2-3/16	.65
42011SR	1X1/2	8-3/8	6-3/4	6-9/16	4-7/8	1- 1/4	2-3/16	.66



FlameGuard® Technical
FlameGuard® Product Weights & Dimensions

**Adjustable Sprinkler Head
Adapters - Special Reinforced
Plastic Thread Style**

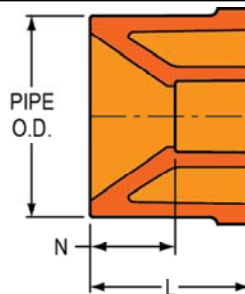
Spigot x SR Fipt - Stainless Steel Collar
TRAVEL = 1-5/8"
NSF® Certified Lead-Free



Part Number	Size	L-Max	L-Min	N-Max	N-Min	Q	Body Width	Approx. Wt. (Lbs.)
42004SR	3/4X1/2	8-1/4	6-3/4	7-1/2	6	1- 1/4	2-3/16	.63
42014SR	1X1/2	8-1/4	6-3/4	7-1/2	6	1- 1/4	2-3/16	.66

Reducer Bushing - Flush Style

Spigot x Socket



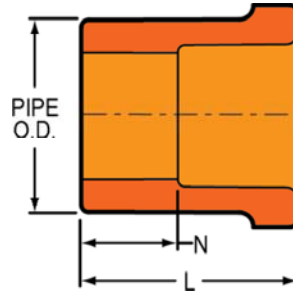
Part Number	Size	L	N	Approx. Wt. (Lbs.)
4237-131	1X3/4	1- 1/4	1/4	.03
4237-167	1-1/4X3/4	1- 7/16	7/16	.09
4237-168	1-1/4X1	1-13/32	9/32	.06
4237-210	1-1/2X3/4	1- 5/8	5/8	.16
4237-211	1-1/2X1	1-17/32	13/32	.12
4237-212	1-1/2X1-1/4	1- 9/16	5/16	.06
4237-248	2X3/4	1-29/32	29/32	.28
4237-249	2X1	1-23/32	9/16	.24
4237-250	2X1-1/4	1-11/16	7/16	.20
4237-251	2X1-1/2	1-11/16	5/16	.15
4237-290	2-1/2X1-1/4	2- 5/32	7/8	.46
4237-291	2-1/2X1-1/2	2- 5/32	3/4	.39
4237-292	2-1/2X2	2-1/4	3/4	.29
4237-338	3X2	2- 7/32	11/16	.62
4237-339	3X2-1/2	2- 5/16	1/4	.43

FlameGuard® Technical
FlameGuard® Product Weights & Dimensions



Transition Bushing

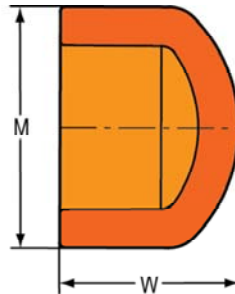
IPS Spigot x CTS Socket



Part Number	Size	L	N	Approx. Wt. (Lbs.)
4240-101	3/4X1/2	1- 1/8	5/8	.03
4240-130	1X1/2	1- 1/4	3/4	.05

Cap

Socket

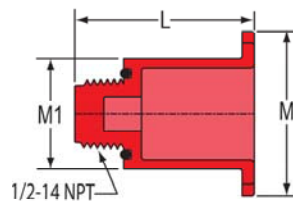


Part Number	Size	M	W	Approx. Wt. (Lbs.)
4247-007	3/4	1-5/16	1-5/16	.03
4247-010	1	1- 5/8	1- 9/16	.06
4247-012	1-1/4	2- 3/32	1-27/32	.12
4247-015	1-1/2	2-11/32	2	.16
4247-020	2	2-27/32	2- 9/32	.26
4247-025	2-1/2	3-17/32	2- 5/8	.47
4247-030	3	4- 3/8	3	.91

Test Plug - O-ring Sealed

Mipt - For Pressure Testing Only.

NOT for use with TorqueSafe™ or Z4235 Series Adapters



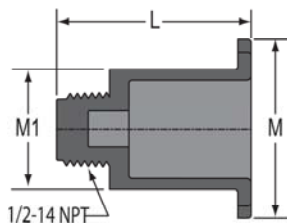
Part Number	Size	L	M	M1	Approx. Wt. (Lbs.)
FTP-005	1/2	1-27/32	1-15/16	1- 1/4	.03

DO NOT use with tape or paste thread sealants



Test Plug for TorqueSafe™ & SofTorque™ Gasket Sealed Head Adapters

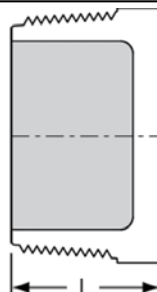
Mipt - For Pressure Testing Only.
Use ONLY with Gasket Sealed Adapters



Part Number	Size	L	M	M1	Approx. Wt. (Lbs.)
FTP-005GS	1/2	1-25/32	2- 1/32	1- 1/4	.05

Test Plug - White PVC

Mipt - For Pressure Testing Only

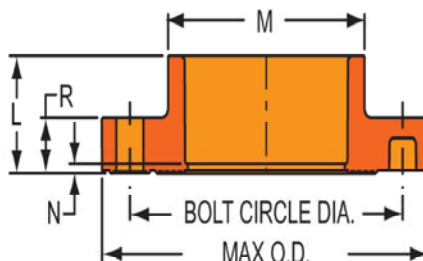


Part Number	Size	L	Approx. Wt. (Lbs.)
4250-005	1/2	27/32	.01

Requires use of a thread sealant

Flange

Socket - 4 Bolt Holes - 175 psi (1.21 Mpa) @ 150°F (66°C)



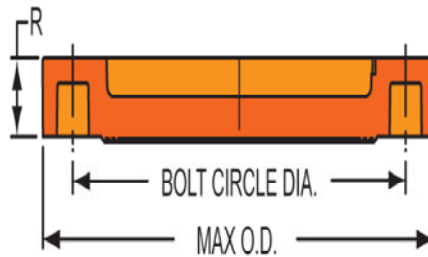
Part Number	Size	L	M	N	R	Bolt Circle Dia.	Bolt Size	Max. O.D.	Min. Bolt Length	No of Bolts	Approx. Wt. (Lbs.)
4251-007	3/4	1- 5/32	1- 1/2	1/8	5/8	2- 3/4	1/2	3-29/32	2	4	.31
4251-010	1	1- 9/32	1-13/16	3/32	21/32	3- 1/8	1/2	4-9/32	2-1/4	4	.35
4251-012	1-1/4	1-13/32	2- 7/32	5/32	11/16	3- 1/2	1/2	4-5/8	2-1/4	4	.44
4251-015	1-1/2	1-5/8	2- 1/2	3/16	23/32	3-7/8	1/2	5-1/16	2-1/2	4	.51
4251-020	2	1-27/32	3	5/16	27/32	4- 3/4	5/8	5-31/32	3	4	.94
4251-025	2-1/2	2- 7/32	3- 1/2	7/16	1- 1/32	5- 1/2	5/8	7	3-1/4	4	1.57

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Blind Flange

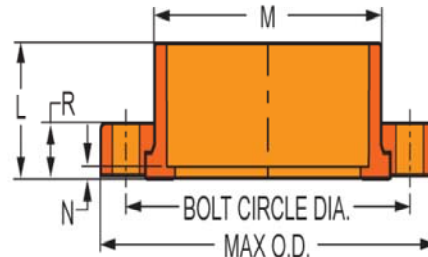
4 Bolt Holes - 175 psi (1.21 Mpa) @ 150°F (66°C)



Part Number	Size	R	Bolt Circle Dia.	Bolt Size	Max. O.D.	Min. Bolt Length	No of Bolts	Approx. Wt. (Lbs.)
4253-007	3/4	5/8	2- 3/4	1/2	3-27/32	2	4	.29
4253-010	1	23/32	3- 1/8	1/2	4-1/4	2-1/4	4	.34
4253-012	1-1/4	21/32	3- 1/2	1/2	4-5/8	2-1/4	4	.39
4253-015	1-1/2	23/32	3-7/8	1/2	5-1/16	2-1/2	4	.65
4253-020	2	27/32	4- 3/4	5/8	5-31/32	3	4	.88
4253-025	2-1/2	1- 1/32	5- 1/2	5/8	6-15/16	3-1/4	4	1.70
4253-030	3	1-1/16	6	5/8	7-5/8	3-1/4	4	1.78

Flange - Van Stone Style

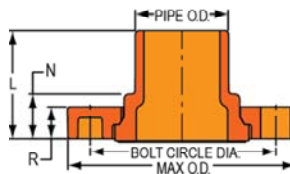
Socket - 4 Bolt Holes - 175 psi (1.21 Mpa) @ 150°F (66°C)



Part Number	Size	L	M	N	R	Bolt Circle Dia.	Bolt Size	Max. O.D.	Min. Bolt Length	No of Bolts	Approx. Wt. (Lbs.)
4254-030	3	2-1/16	4- 1/4	3/16	1-1/16	6	5/8	7-17/32	3-1/4	4	1.76

Flange - Van Stone Style

Spigot - 4 Bolt Holes - 175 psi (1.21 Mpa) @ 150°F (66°C)



Part Number	Size	L	N	R	Bolt Circle Dia.	Bolt Size	Max. O.D.	Min. Bolt Length	No of Bolts	Approx. Wt. (Lbs.)
4256-007	3/4	1-15/16	13/16	9/16	2- 3/4	1/2	3-27/32	2	4	.29
4256-010	1	2-1/8	15/16	5/8	3- 1/8	1/2	4-1/4	2-1/4	4	.40
4256-012	1-1/4	2-1/4	1	5/8	3- 1/2	1/2	4-5/8	2-1/4	4	.50
4256-015	1-1/2	2- 7/16	1	23/32	3- 7/8	1/2	4-31/32	2-1/2	4	.64
4256-020	2	2-3/4	1-1/4	13/16	4- 3/4	5/8	5-31/32	3	4	1.00
4256-025	2-1/2	3- 1/16	1- 1/4	1	5- 1/2	5/8	6-15/16	3-1/4	4	1.65
4256-030	3	3-5/16	1-9/32	1- 1/32	6	5/8	7-9/16	3-1/4	4	1.93



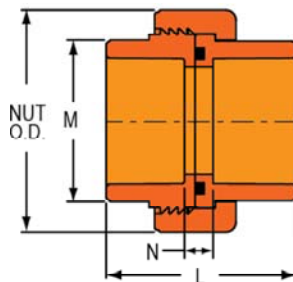
FlameGuard® Technical

FlameGuard® Product Weights & Dimensions

Union

Socket x Socket

175 psi (1.21 Mpa) @ 150°F (66°C)

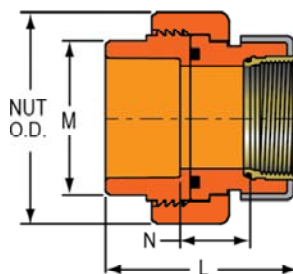


Part Number	Size	L	M	N	NUT O.D.	Approx. Wt. (Lbs.)
4257-007	3/4	2- 3/8	1-1/2	3/8	2- 1/2	.27
4257-010	1	2- 9/16	1-7/8	5/16	2- 7/8	.38
4257-012	1-1/4	2-7/8	2- 7/32	11/32	3- 5/16	.50
4257-015	1-1/2	3-5/32	2- 1/2	1/2	3-17/32	.64
4257-020	2	3- 5/8	3	9/16	4- 3/16	1.01

Transition Union - Metal Thread Insert Style

Socket x Fipt

175 psi (1.21 Mpa) @ 150°F (66°C)



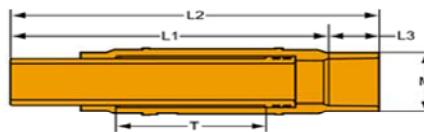
Part Number	Size	L	M	N	NUT O.D.	Approx. Wt. (Lbs.)
4259-007BR	3/4	2-11/16	1-17/32	1	2-1/2	.36
4259-010BR	1	2-13/16	1- 7/8	1	2- 7/8	.52
4259-012BR	1-1/4	3-5/16	2-7/32	1-9/32	3-5/16	.96
4259-015BR	1-1/2	3- 1/2	2-9/16	1-11/32	3-17/32	1.20
4259-020BR	2	3- 5/8	2- 7/8	1- 1/4	4- 5/16	1.59

Not intended to convey or dispense water for human consumption through drinking or cooking

Short Repair Couplings

Spigot x Socket

175 psi (1.21 Mpa) @ 150°F (66°C)



Part Number	Size	L1	L2	L3	M	T	Approx. Wt. (Lbs.)
SH118-07CO	3/4	4-11/16	5-3/8	3/4	1-3/4	2-3/16	.30
SH118-10CO	1	4-13/16	5-3/4	15/16	1-7/8	2	.41

Unit Must Be Thrust Blocked

FlameGuard® Technical
FlameGuard® Product Weights & Dimensions



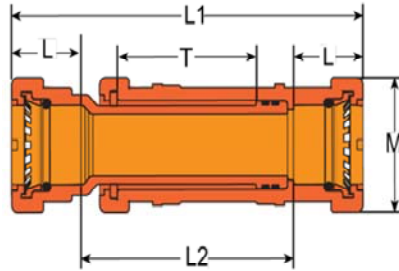
GripLoc™ Repair Coupling

WARNING: DO NOT INSERT FINGERS

EPDM Gasket

Uses No Solvent Cement - NSF® Certified Lead Free

175 psi (1.21 Mpa) @ 150°F (66°C)



Part Number	Size	L	L1	L2	M	T	Approx. Wt. (Lbs.)
SG118-07CO	3/4	1-1/2	7-9/16	4-1/2	1-29/32	2-15/16	.65
SG118-10CO	1	1-1/2	7-7/16	4-7/16	2-5/16	3	.78

Unit Must Be Thrust Blocked

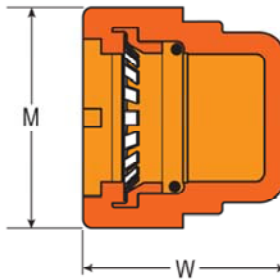
GripLoc™ Cap

WARNING: DO NOT INSERT FINGERS

EPDM Gasket

Uses No Solvent Cement - NSF® Certified Lead Free

175 psi (1.21 Mpa) @ 150°F (66°C)



Part Number	Size	M	W	Approx. Wt. (Lbs.)
GL4247-007	3/4	1-15/16	1-11/16	.14
GL4247-010	1	2-5/16	2	.20
GL4247-012	1-1/4	2-23/32	2-1/8	.29
GL4247-015	1-1/2	3	2-3/16	.35
GL4247-020	2	3-5/8	2-7/16	.52

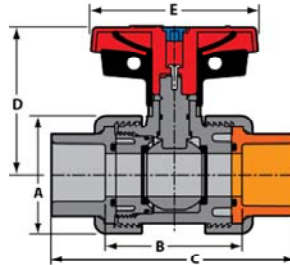


FlameGuard® CPVC Drain & Swing Check Valves for NFPA 13D Application Only

Application: FlameGuard® CPVC Orange Swing Check Valves and PVC/CPVC True Union Drain Valves are for use in Configuring CPVC Fire Sprinkler System connection to water supply (riser/drain assembly) in NFPA 13D installations only. These valves are not UL listed and NOT for use in any other locations within the fire sprinkler system.

**True Union Industrial Drain Valve
With Locking Handle**

Socket x Socket
CPVC Gray Valve with CPVC Orange End Connector

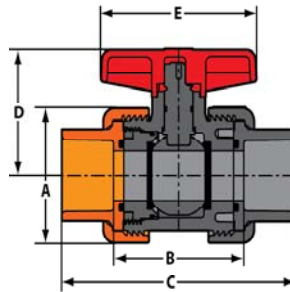


Not UL Listed

Part Number	Size	A	B	C	D	E	Approx. Wt. (Lbs.)
1822-007CFG	3/4	2-3/8	2-13/16	4-13/16	2-7/8	3-3/8	.62
1822-010CFG	1	2-5/8	2-15/16	5-3/16	3-1/8	3-7/16	.83
1822-012CFG	1-1/4	3-3/16	3-1/4	5-13/16	3-5/8	3-7/8	1.24
1822-015CFG	1-1/2	3-9/16	3-9/16	6-5/16	4	4-3/16	1.62
1822-020CFG	2	4-1/4	4-3/4	7-13/16	4-7/16	5-1/8	2.86

True Union Standard Drain Valves

Socket x Socket
PVC Gray Valve with CPVC Orange End Connector

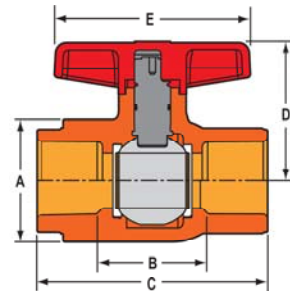


Not UL Listed

Part Number	Size	A	B	C	D	E	Approx. Wt. (Lbs.)
3622-007FG	3/4	2-3/8	2-13/16	4-13/16	2	3	.57
3622-010FG	1	2-5/8	2-15/16	5-3/16	2-5/16	3-5/16	.74

Compact 2000 Drain Valve

Socket x Socket



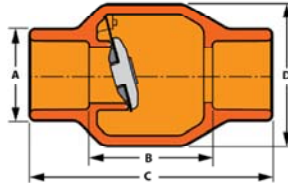
Not UL Listed

Part Number	Size	A	B	C	D	E	Approx. Wt. (Lbs.)
6622-007CO	3/4	1-3/4	1-1/2	3-1/2	2	3	.30
6622-010CO	1	2-1/16	1-11/16	3-15/16	2-5/16	3-3/8	.46

CPVC Swing Check Valves

Socket x Socket

Not UL Listed

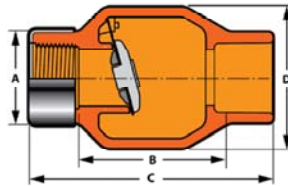


Part Number	Size	A	B	C	D	Approx. Wt. (Lbs.)
S1520-07CO	3/4	1-3/8	1-15/16	3-3/4	2-1/8	.21
S1520-10CO	1	1-11/16	2-7/16	4-11/16	2-5/8	.38
S1520-12CO	1-1/4	2-1/16	3	5-1/2	3-3/8	.72
S1520-15CO	1-1/2	2-7/16	3	5-5/8	3-3/8	.77

CPVC Special Reinforced Thread Inlet Swing Check Valves

SR Fipt x Socket

Not UL Listed



Part Number	Size	A	B	C	D	Approx. Wt. (Lbs.)
S1520-10FSRSCO	1	1-11/16	2-11/16	4-3/4	2-5/8	.41
S1520-12FSRSCO	1-1/4	2-1/16	3-3/8	5-1/2	3-3/8	.76
S1520-15FSRSCO	1-1/2	2-7/16	3-7/16	5-5/8	3-3/8	.83





The CPVC Fire Sprinkler Head Adapter You've Been Waiting For...

- Eliminates Radial Stress
- Requires NO Thread Sealants
- Eliminates Sealant Incompatibility
- Prevents OverTightening
- Provides Easy Frame Alignment
- UL® Listed for U.S. and Canada
- FM® Approved

Spears® **TorqueSafe™** revolutionary design features a special molded-in-place Brass Thread Insert fitted with 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. The insert is designed to rotate during head installation for easy sprinkler frame alignment without over tightening.

No Sealant = No More Problem's.

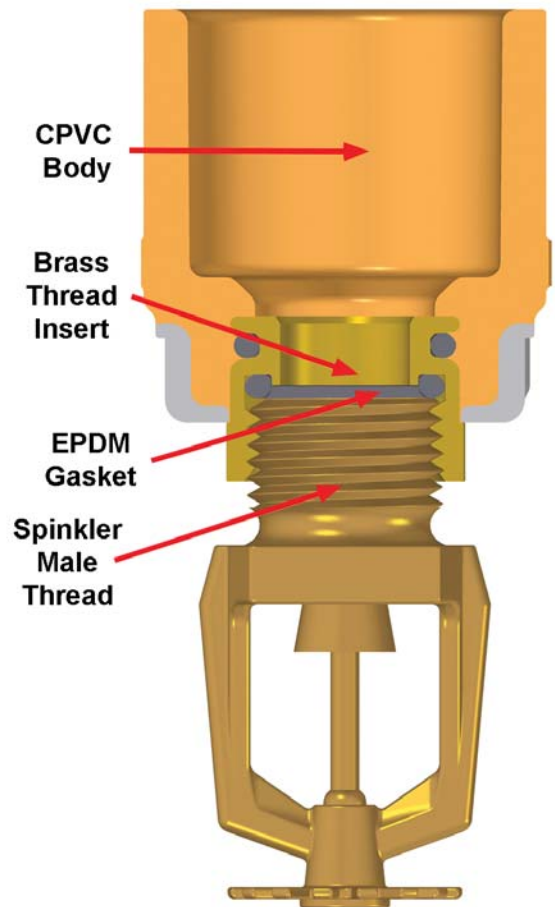
Using incompatible thread pastes and pipe dopes is the major cause of environmental stress cracking in plastics. Tape sealants are far too frequently improperly or excessively applied. These problems are fully eliminated.

NO-Stress Thread Design

The modified straight thread design is engineered to provide a tight joint at full engagement without radial stress from tapered thread expansion. An internal gasket retaining lip serves as a positive stop against overtightening. No stress assures years of long, trouble free service.

Gasket Sealing

An EPDM gasket has been engineered for sealing against the sprinkler head. The NPT male thread starts on all sprinkler heads provide a uniform surface for positive, reliable seal. Hundreds of tests have been performed using virtually all brands of heads and even rough, galvanized pipe nipples without any damage or loss of sealing.

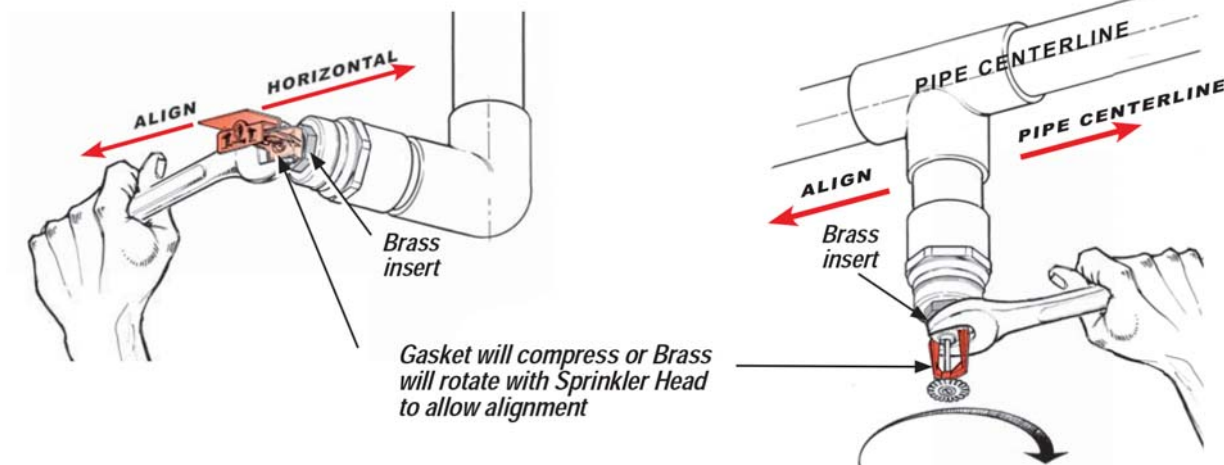


Patent No. 7,458,613

Simply Hand Install Head & Align

Wrench Alignment

If necessary for alignment, rotate sprinkler head clockwise until frame is properly aligned. Gasket will compress or brass will rotate with sprinkler head until aligned. **Caution: DO NOT use back-up wrench on brass insert hex.**

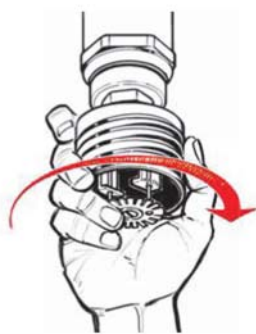


DO NOT Reverse or Back up Threaded Assembly. If over-adjusted, continue to rotate clockwise until properly aligned.

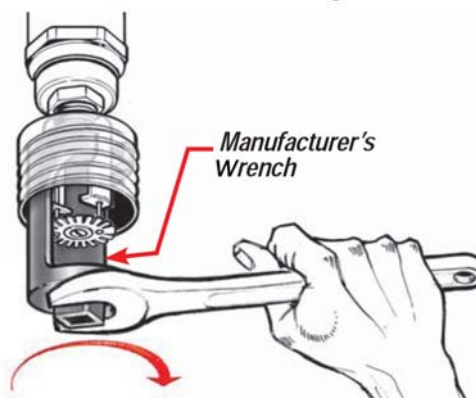
Installing Concealed Sprinkler Escutcheons

Follow these steps to assure extra firm seating of Head

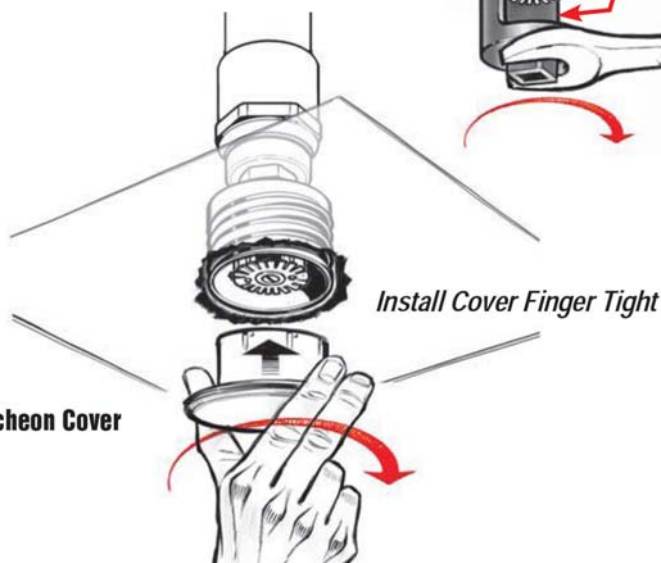
1. Install Sprinkler Head/Escutcheon.



2. Tighten Sprinkler Head/Escutcheon with manufacturer's wrench until snug.



3. Install Escutcheon Cover



**Introducing SofTorque™ SR...*****The Ultimate CPVC Fire Sprinkler Head Adapter*****Patented****Spears® Combines Patented Special Reinforced (SR) Plastic Thread & Gasket Sealed Technology. . .**

- Unitized One-Piece Design
- NO Lead - NSF® Certified
- NO Radial Stress
- NO Paste or Tape Sealants
- NO Leaks
- NO OverTightening
- Provides Easy Frame Alignment
- Suitable For Multipurpose Systems
- FM® Approved
- Easiest Installation, Finger Tight Plus 1-Turn Then Align Sprinkler Head

Spears® new **SofTorque™ SR** design features a special formed-in-place elastomer gasket seal at the base of Special Reinforced (SR) plastic threads. The thread design and gasket seal eliminate radial stress typical in tapered thread joint make up, plus gasket compresses to allow sprinkler frame alignment without overtightening. Special SR design provides additional strength and thread reinforcement. **Available in size 1" Socket x 1/2" SR FIPT, Spears® Part Number 4235-130GSR. For additional sizes and configurations, contact Spears®.**

Unitized Construction

One-Piece all CPVC construction eliminates potential for problems from conventional 2-piece construction designs. No metal water contact eliminates corrosion.

NO Lead - NSF® Certified

All plastic construction is NSF® Standard 61 Annex G, Certified Lead Free in compliance with US Safe Drinking Water Act (SDWA)

Special Gasket Sealing & Alignment Feature

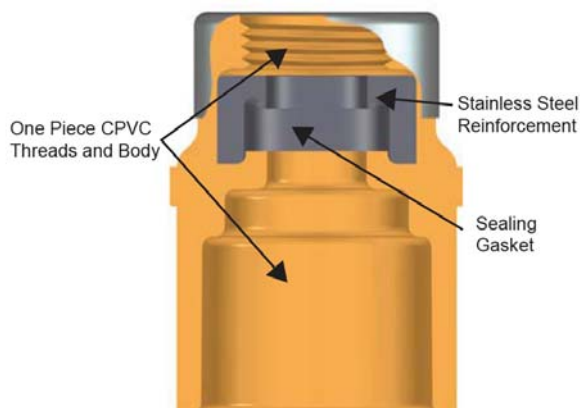
EPDM gasket has been engineered not only for proper sealing, but provides proportional compression as threads are tightened for sprinkler head frame or sidewall deflector alignment.

No Sealant = No More Problems.

Eliminates problems from incompatible thread pastes and pipe dopes or improperly applied thread tape.

Reinforced No Stress Thread Design

Spears® patented Special Reinforced (SR) thread design eliminates radial stress and reinforces against splitting plastic threads. No stress assures years of long, trouble free service.





QuickTorque™

The One Head Adapter That Has It ALL



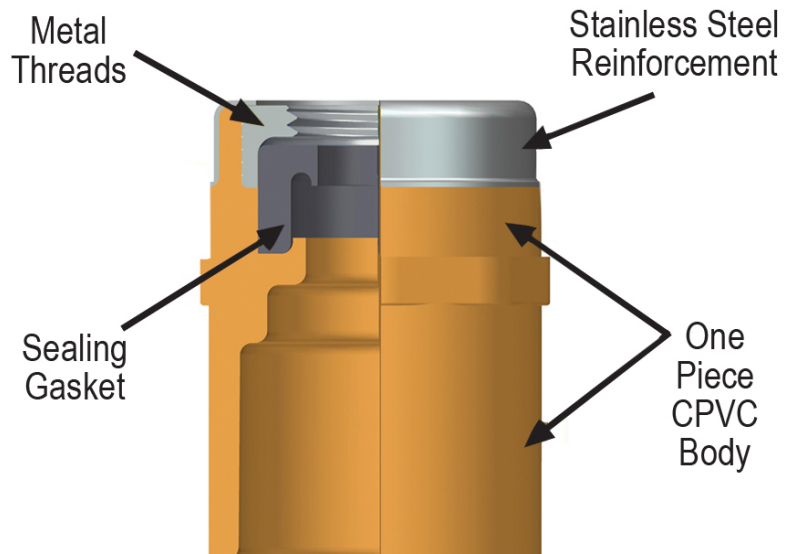
Spears® New FlameGuard® QuickTorque™ CPVC Sprinkler Head Adapter uses a combination of high-strength materials to provide the most reliable, worry-free adapter in the industry:

**CPVC Body for Unsurpassed
Corrosion Resistance
High grade EPDM Gasket for Reliable Sealing
Metal Thread & Exterior Reinforcement for
Superior Strength**

The thread design and gasket seal eliminate radial stress found in tapered thread joint make up, the gasket compresses to allow sprinkler frame alignment without over tightening.

4235-101GMR 3/4"x1/2"
4235-130GMR 1"x1/2"

- ✓ **Metal Thread Eliminates Cross Threading**
- ✓ **Requires NO Thread Sealant**
- ✓ **High Grade EPDM Compression Gasket Allows Quick, Easy Head Alignment**
- ✓ **Easiest Installation, Finger Tight Plus 1-Turn Then Align Sprinkler Head**
- ✓ **NSF® Certified Lead-Free for Use in Potable Water Systems - Suitable for Use in Multi-purpose Systems**



**Progressive Products From Spears®
Innovation & Technology**

**QuickTorque™ Female Sprinkler Head
Adapter - Gasket Sealed Metal Thread Style.**

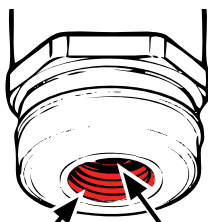


FlameGuard® QuickTorque™ SR Gasket Sealed, Special Reinforced Sprinkler Head Adapter with Metal Threads

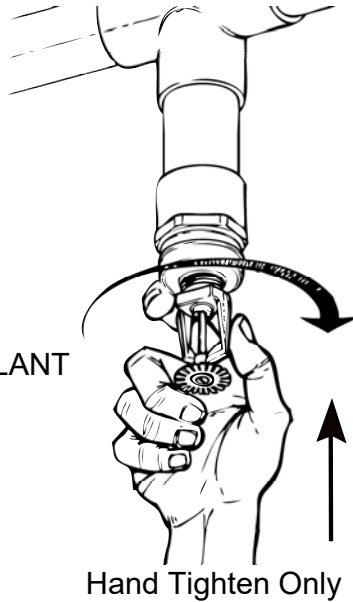
STEP 1



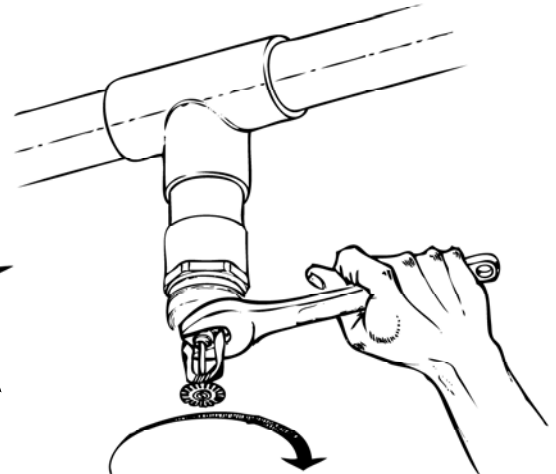
DO NOT USE THREAD SEALANT



Metal Threads
EPDM Gasket
Gasket Sealed



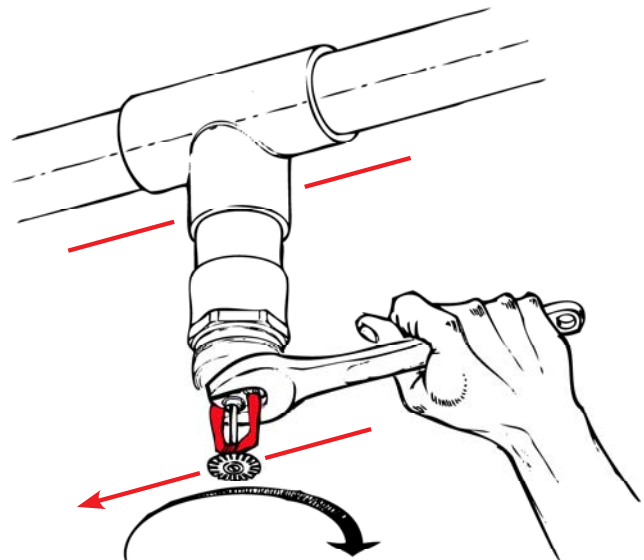
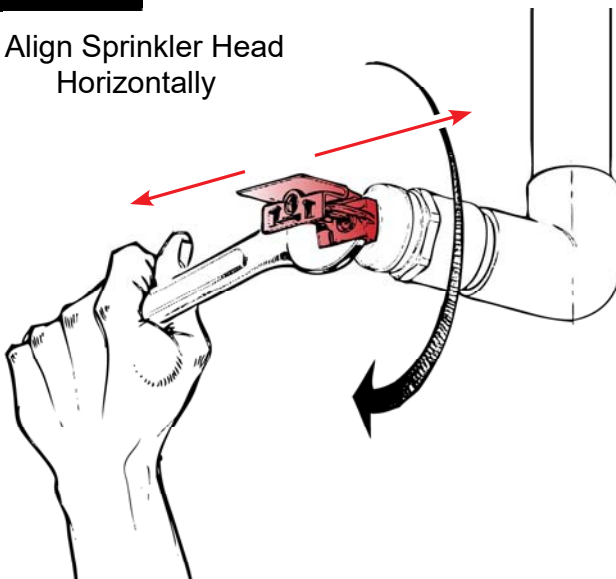
Hand Tighten Only



Tighten One Additional Turn Using Wrench

STEP 2

Align Sprinkler Head
Horizontally



Align Sprinkler Head
Horizontally