



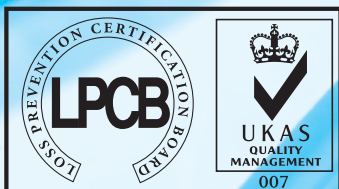
FlameGuard™
CPVC FIRE SPRINKLER
PIPING PRODUCTS



**TECHNICAL INFORMATION
WEIGHTS & DIMENSIONS**

February 1, 2010

SUPERSEDES ALL PREVIOUS EDITIONS



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

Visit our web site
www.spearsmfg.com

FG-4-0210



FlameGuard™ CPVC FIRE SPRINKLER PIPING PRODUCTS

The information contained in this publication 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: (717) 938-9006].

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 that 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® Two Step FS-1 primer with FS-3 solvent cement OR 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.

NOT FOR USE WITH COMPRESSED AIR OR GASES

WARNING: DO NOT USE COMPRESSED AIR OR GAS TO TEST ANY PVC OR CPVC THERMOPLASTIC PIPING PRODUCT OR SYSTEM, AND DO NOT USE DEVICES PROPELLED BY COMPRESSED AIR OR GAS TO CLEAR SYSTEMS. THESE PRACTICES MAY RESULT IN EXPLOSIVE FRAGMENTATION OF SYSTEM PIPING AND COMPONENTS CAUSING SERIOUS OR FATAL BODILY INJURY.

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.

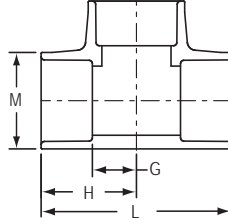
| CPVC FIRE SPRINKLER PIPE SDR 13.5 (ASTM F 442) | | | | | | | |
|---|--------------|--------|--------------|--------|--------------|--------|-------------------------|
| Part Number | Nominal Size | | Average O.D. | | Average I.D. | | Approx. Weight Lbs./Ft. |
| | Inches | (mm) | Inches | (mm) | Inches | (mm) | |
| CP-007 | 3/4 | (19.1) | 1.050 | (26.7) | .874 | (22.5) | .181 |
| CP-010 | 1 | (25.4) | 1.315 | (33.4) | 1.101 | (28.2) | .280 |
| CP-012 | 1-1/4 | (31.8) | 1.660 | (42.2) | 1.394 | (35.6) | .418 |
| CP-015 | 1-1/2 | (38.1) | 1.900 | (48.3) | 1.598 | (40.7) | .550 |
| CP-020 | 2 | (50.8) | 2.375 | (60.3) | 2.003 | (50.9) | .872 |
| CP-025 | 2-1/2 | (63.5) | 2.875 | (73.0) | 2.423 | (61.5) | 1.260 |
| CP-030 | 3 | (76.2) | 3.500 | (88.9) | 2.950 | (75.0) | 1.900 |

FlameGuard™ CPVC FIRE SPRINKLER PIPING PRODUCTS



TEE

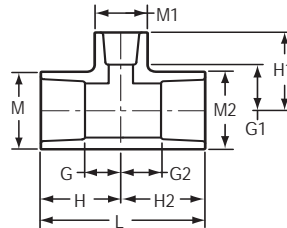
Socket x Socket x Socket



| 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 | 29/32 | 1-13/16 | 3-5/8 | 1-5/8 | .19 |
| 4201-012 | 1-1/4 | 15/32 | 2-3/32 | 4-7/32 | 2 | .29 |
| 4201-015 | 1-1/2 | 1-5/32 | 2-9/16 | 5-3/32 | 2-11/32 | .54 |
| 4201-020 | 2 | 1-13/32 | 2-15/16 | 5-7/8 | 2-7/8 | .86 |
| 4201-025 | 2-1/2 | 1-23/32 | 3-1/2 | 7 | 3-15/32 | 1.62 |
| 4201-030 | 3 | 2-1/16 | 3-15/16 | 7-7/8 | 4-3/16 | 3.02 |

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 | 3/4x3/4x1 | 3/4 | 25/32 | 3/4 | 1-11/16 | 1-13/16 | 1-11/16 | 3-3/8 | 1-5/16 | 1-21/32 | 1-5/16 | .13 |
| 4201-125 | 1x3/4x3/4 | 21/32 | 13/16 | 5/8 | 1-25/32 | 1-13/16 | 1-5/8 | 3-13/32 | 1-17/32 | 1-5/16 | 1-5/16 | .15 |
| 4201-126 | 1x3/4x1 | 3/4 | 1-7/8 | 1-3/32 | 1-27/32 | 2-31/32 | 1-31/32 | 3-13/16 | 1-23/32 | 1-23/32 | 1-13/32 | .26 |
| 4201-131 | 1x1x3/4 | 21/32 | 13/16 | 21/32 | 1-25/32 | 1-13/16 | 1-25/32 | 3-9/16 | 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 | .24 |
| 4201-159 | 1-1/4x1x1-1/4 | 31/32 | 31/32 | 31/32 | 2-7/32 | 2-7/32 | 2-3/32 | 4-11/32 | 2-3/32 | 2-3/32 | 1-23/32 | .35 |
| 4201-167 | 1-1/4x1-1/4x3/4 | 21/32 | 1 | 21/32 | 1-29/32 | 2 | 1-29/32 | 3-13/16 | 2 | 1-5/16 | 2 | .22 |
| 4201-168 | 1-1/4x1-1/4x1 | 13/16 | 1 | 13/16 | 2-1/16 | 2-1/8 | 2-1/16 | 4-1/8 | 1-31/32 | 1-5/8 | 1-31/32 | .24 |
| 4201-169 | 1-1/4x1-1/4x1-1/2 | 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 | .51 |
| 4201-201 | 1-1/2x1-1/4x3/4 | 11/16 | 1 | 1/4 | 2-1/16 | 2 | 1-15/16 | 4 | 2-5/16 | 1-3/8 | 2-1/16 | .41 |
| 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 | 1-1/2x1-1/2x3/4 | 23/32 | 1-1/16 | 23/32 | 2-3/32 | 2-1/32 | 2-3/32 | 4-3/16 | 2-5/16 | 1-3/8 | 2-5/16 | .37 |
| 4201-211 | 1-1/2x1-1/2x1 | 13/16 | 1-3/16 | 13/16 | 2-3/16 | 2-1/4 | 2-3/16 | 4-3/8 | 2-11/32 | 1-23/32 | 2-11/32 | .41 |
| 4201-212 | 1-1/2x1-1/2x1-1/4 | 1 | 1-1/8 | 1 | 2-3/8 | 2-11/32 | 2-3/8 | 4-13/16 | 2-11/32 | 2-3/32 | 2-11/32 | .48 |
| 4201-213 | 1-1/2x1-1/2x2 | 1-5/16 | 1-1/8 | 1-5/16 | 2-11/16 | 2-21/32 | 2-11/16 | 5-3/8 | 2-11/32 | 2-27/32 | 2-11/32 | .72 |

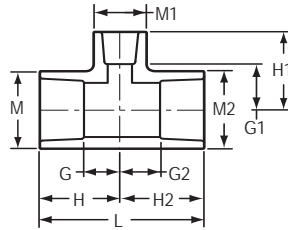


FlameGuard™ CPVC FIRE SPRINKLER PIPING PRODUCTS

REDUCING TEE

(continued)

Socket x Socket x Socket



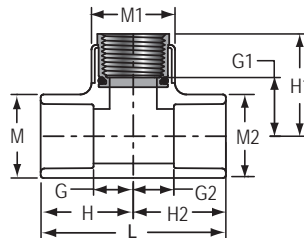
| Part Number | Size | G | G1 | G2 | H | H1 | H2 | L | M | M1 | M2 | Approx. Wt. (Lbs.) |
|-------------|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------------|
| 4201-248 | 2x2x3/4 | 11/16 | 1-13/32 | 11/16 | 2-7/32 | 2-7/16 | 2-7/32 | 4-7/16 | 2-27/32 | 1-3/8 | 2-27/32 | .52 |
| 4201-249 | 2x2x1 | 27/32 | 1-7/16 | 27/32 | 2-11/32 | 2-9/16 | 2-11/32 | 4-23/32 | 2-7/8 | 1-3/4 | 2-7/8 | .57 |
| 4201-250 | 2x2x1-1/4 | 1 | 1-11/32 | 1 | 2-17/32 | 2-19/32 | 2-17/32 | 5-3/32 | 2-27/32 | 2-3/32 | 2-27/32 | .63 |
| 4201-251 | 2x2x1-1/2 | 1-7/32 | 1-13/32 | 1-7/32 | 2-11/16 | 2-25/32 | 2-11/16 | 5-3/8 | 2-27/32 | 2-11/32 | 2-27/32 | .85 |
| 4201-289 | 2-1/2x2-1/2x1 | 29/32 | 25/32 | 29/32 | 2-21/32 | 1-29/32 | 2-21/32 | 5-5/16 | 3-1/2 | 1-23/32 | 3-1/2 | 1.03 |
| 4201-290 | 2-1/2x2-1/2x1-1/4 | 1-3/32 | 1-23/32 | 1-3/32 | 2-27/32 | 2-31/32 | 2-27/32 | 5-21/32 | 3-17/32 | 2-3/32 | 3-17/32 | 1.13 |
| 4201-291 | 2-1/2x2-1/2x1-1/2 | 1-3/16 | 1/2 | 1-3/16 | 2-15/16 | 1-7/8 | 2-15/16 | 5-7/8 | 3-15/32 | 2-11/32 | 3-15/32 | 1.26 |
| 4201-292* | 2-1/2x2-1/2x2 | 1-19/32 | 2-1/8 | 1-19/32 | 3-11/32 | 3-5/8 | 3-11/32 | 6-11/16 | 3-17/32 | 3-17/32 | 3-17/32 | 2.46 |
| 4201-335 | 3x3x1 | 7/8 | 1-15/16 | 7/8 | 2-3/4 | 3-1/16 | 2-3/4 | 5-15/32 | 4-3/16 | 1-23/32 | 4-3/16 | 1.26 |
| 4201-336* | 3x3x1-1/4 | 1-3/8 | 1-3/4 | 1-3/8 | 3-5/16 | 3-1/2 | 3-5/16 | 6-5/8 | 4-1/8 | 2-7/8 | 4-1/8 | 1.94 |
| 4201-337* | 3x3x1-1/2 | 1-3/8 | 2 | 1-3/8 | 3-5/16 | 3-5/8 | 3-5/16 | 6-5/8 | 4-1/8 | 2 | 4-1/8 | 1.85 |
| 4201-338 | 3x3x2 | 1-7/16 | 1-13/16 | 1-7/16 | 3-5/16 | 3-5/16 | 3-5/16 | 6-5/8 | 4-5/32 | 2-7/8 | 4-5/32 | 1.68 |
| 4201-339 | 3x3x2-1/2 | 1-3/4 | 1-31/32 | 1-3/4 | 3-5/8 | 3-23/32 | 3-5/8 | 7-1/4 | 4-5/32 | 3-7/16 | 4-5/32 | 2.08 |

* Branch Outlet Sized with Bushing

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 | 3/4x3/4x1/2 | 7/16 | 1-5/32 | 7/16 | 1-7/16 | 1-17/32 | 1-7/16 | 2-29/32 | 1-3/8 | 1-7/32 | 1-3/8 | .27 |
| 4202-124 | 1x3/4x1/2 | 7/16 | 1-11/32 | 9/16 | 1-9/16 | 1-11/16 | 1-9/16 | 3-1/8 | 1-11/16 | 1-3/8 | 1-3/8 | .26 |
| 4202-130 | 1x1x1/2 | 7/16 | 1-5/16 | 7/16 | 1-9/16 | 1-11/16 | 1-9/16 | 3-1/8 | 1-23/32 | 1-17/32 | 1-23/32 | .32 |
| 4202-010 | 1x1x1 | 11/16 | 1-3/32 | 11/16 | 1-13/16 | 1-29/32 | 1-13/16 | 3-19/32 | 1-23/32 | 1-23/32 | 1-23/32 | .37 |
| 4202-156 | 1-1/4x1x1/2 | 7/16 | 1-15/32 | 9/16 | 1-11/16 | 2-1/32 | 1-11/16 | 3-3/8 | 2-3/32 | 1-7/32 | 1-3/4 | .30 |
| 4202-166 | 1-1/4x1-1/4x1/2 | 7/16 | 1-9/16 | 7/16 | 1-11/16 | 1-15/16 | 1-11/16 | 3-3/8 | 2-1/16 | 1-17/32 | 2-1/16 | .37 |
| 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 | 1-7/32 | 2-1/16 | .37 |
| 4202-209 | 1-1/2x1-1/2x1/2 | 1/2 | 1-23/32 | 1/2 | 1-7/8 | 2-3/32 | 1-7/8 | 3-3/4 | 2-5/16 | 1-17/32 | 2-5/16 | .45 |
| 4202-237 | 2x1-1/2x1/2 | 1/2 | 1-7/8 | 17/32 | 2 | 2-7/16 | 1-29/32 | 3-15/16 | 2-27/32 | 1-7/32 | 2-5/16 | .48 |
| 4202-247 | 2x2x1/2 | 1/2 | 1-31/32 | 1/2 | 2 | 2-3/8 | 2 | 4-1/32 | 2-27/32 | 1-17/32 | 2-27/32 | .58 |

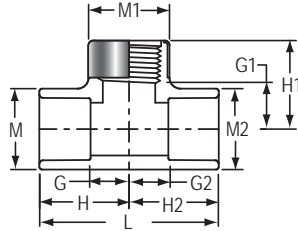
Not intended to convey or dispense water for human consumption through drinking or cooking



SPRINKLER HEAD TEE

Special Reinforced Plastic Thread Style

Socket x Socket x SR Fipt

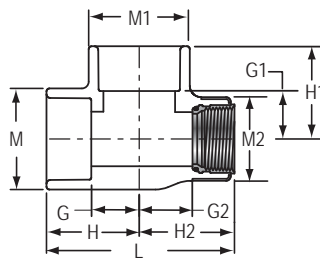


| Part Number | Size | G | G1 | G2 | H | H1 | H2 | L | M | M1 | M2 | Approx. Wt. (Lbs.) |
|-------------|-----------------|-------|--------|-------|---------|---------|---------|---------|---------|---------|---------|--------------------|
| 4202-101SR | 3/4x3/4x1/2 | 5/8 | 25/32 | 5/8 | 1-5/8 | 1-15/32 | 1-5/8 | 3-7/32 | 1-13/32 | 1-3/16 | 1-13/32 | .16 |
| 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 | 1-17/32 | .19 |
| 4202-130SR | 1x1x1/2 | 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 | .20 |
| 4202-010SR | 1x1x1 | 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 | .26 |
| 4202-156SR | 1-1/4x1x1/2 | 15/32 | 1-5/32 | 19/32 | 1-23/32 | 1-7/8 | 1-23/32 | 3-13/32 | 2-3/32 | 1-3/16 | 1-23/32 | .26 |
| 4202-166SR | 1-1/4x1-1/4x1/2 | 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 | 1-1/4x1-1/4x1 | 27/32 | 1-1/32 | 27/32 | 2-3/32 | 1-29/32 | 2-3/32 | 4-7/32 | 2-3/32 | 1-11/16 | 2-3/32 | .34 |
| 4202-199SR | 1-1/2x1-1/4x1/2 | 9/16 | 1-9/32 | 17/32 | 1-15/16 | 2 | 1-25/32 | 3-23/32 | 2-11/32 | 1-3/16 | 2-3/32 | .33 |
| 4202-209SR | 1-1/2x1-1/2x1/2 | 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 | .35 |
| 4202-211SR | 1-1/2x1-1/2x1 | 27/32 | 1-7/32 | 27/32 | 2-7/32 | 2-1/8 | 2-7/32 | 4-15/32 | 2-11/32 | 1-23/32 | 2-11/32 | .44 |
| 4202-237SR | 2x1-1/2x1/2 | 23/32 | 1-9/16 | 3/8 | 2-7/32 | 2-9/32 | 1-3/4 | 3-31/32 | 2-7/8 | 1-3/16 | 2-11/32 | .45 |
| 4202-247SR | 2x2x1/2 | 1/2 | 31/32 | 1/2 | 2 | 1-11/16 | 19/32 | 4 | 2-7/8 | 1-3/16 | 2-7/8 | .48 |
| 4202-287SR | 2-1/2x2-1/2x1/2 | 17/32 | 1-3/4 | 17/32 | 2-9/32 | 2-1/2 | 2-9/32 | 4-19/32 | 3-1/2 | 1-7/32 | 3-1/2 | .78 |

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 | 23/32 | 3/4 | 1-1/4 | 1-5/8 | 1-5/8 | 1-15/16 | 3-1/2 | 1-23/32 | 1-23/32 | 1-3/16 | .25 |

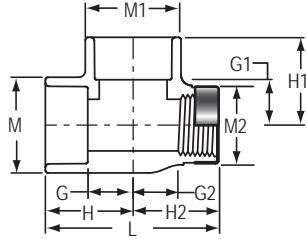
Not intended to convey or dispense water for human consumption through drinking or cooking



FlameGuard™ CPVC FIRE SPRINKLER PIPING PRODUCTS

SPRINKLER HEAD TEE

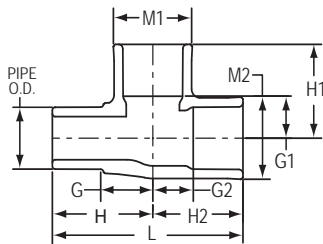
Special Reinforced Plastic Thread Style
Socket x SR Fipt x Socket



| Part Number | Size | G | G1 | G2 | H | H1 | H2 | L | M | M1 | M2 | Approx. Wt. (Lbs.) |
|-------------|---------|-------|-----|--------|---------|-------|---------|--------|---------|---------|--------|--------------------|
| 4203-122SR | 1x1/2x1 | 27/32 | 3/4 | 1-3/32 | 1-23/32 | 1-5/8 | 1-13/16 | 3-7/16 | 1-23/32 | 1-23/32 | 1-7/32 | .21 |

STREET TEE

Spigot x Socket x Socket

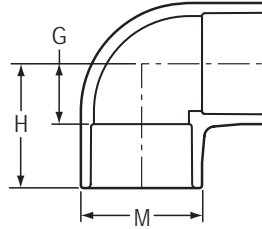


| Part Number | Size | G | G1 | G2 | H | H1 | H2 | L | M1 | M2 | Approx. Wt. (Lbs.) |
|-------------|-------|---------|--------|---------|---------|---------|---------|---------|---------|---------|--------------------|
| 4244-007 | 3/4 | 13/16 | 27/32 | 27/32 | 1-13/16 | 1-7/8 | 1-7/8 | 3-5/8 | 1-13/32 | 1-13/32 | .16 |
| 4244-010 | 1 | 1-5/32 | 1-1/32 | 1-1/32 | 2-1/8 | 1-29/32 | 1-29/32 | 4-3/16 | 1-3/4 | 1-3/4 | .27 |
| 4244-012 | 1-1/4 | 1-1/4 | 1 | 1 | 2-7/16 | 2-9/32 | 2-9/32 | 4-27/32 | 2-3/32 | 2-3/32 | .42 |
| 4244-015 | 1-1/2 | 1-13/16 | 1-1/8 | 1-1/8 | 2-7/8 | 2-9/16 | 2-9/16 | 5-11/32 | 2-11/32 | 2-11/32 | .56 |
| 4244-020 | 2 | 1-23/32 | 1-7/16 | 1-13/32 | 3-1/4 | 2-15/16 | 2-15/16 | 6-5/32 | 2-7/8 | 2-7/8 | .84 |



90° ELBOW

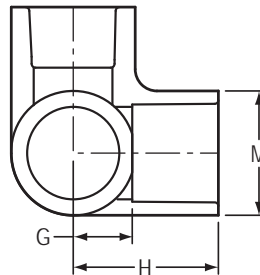
Socket x Socket



| 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 | .11 |
| 4206-012 | 1-1/4 | 7/8 | 2-5/32 | 2 | .21 |
| 4206-015 | 1-1/2 | 1-5/32 | 2-17/32 | 2-3/8 | .41 |
| 4206-020 | 2 | 1-13/32 | 2-29/32 | 2-7/8 | .45 |
| 4206-025 | 2-1/2 | 1-5/8 | 3-7/16 | 3-7/16 | 1.17 |
| 4206-030 | 3 | 1-29/32 | 3-23/32 | 4-3/16 | 1.80 |

SIDE OUTLET ELBOW

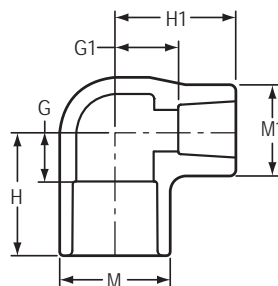
Socket x Socket x Socket



| Part Number | Size | G | H | M | Approx. Wt. (Lbs.) |
|-------------|------|-------|---------|--------|--------------------|
| 4213-007 | 3/4 | 27/32 | 1-19/32 | 1-5/16 | .09 |
| 4213-010 | 1 | 13/16 | 1-7/8 | 1-5/8 | .18 |

REDUCING 90° ELBOW

Socket x Socket



| Part Number | Size | G | G1 | H | H1 | M | M1 | Approx. Wt. (Lbs.) |
|-------------|-------|-------|-------|---------|---------|---------|--------|--------------------|
| 4206-131 | 1x3/4 | 25/32 | 11/16 | 1-25/32 | 1-25/32 | 1-19/32 | 1-5/16 | .11 |

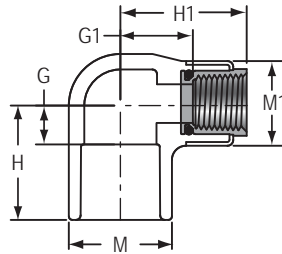


FlameGuard™ CPVC FIRE SPRINKLER PIPING PRODUCTS

SPRINKLER HEAD 90° ELBOW

Brass Thread Insert Style

Socket x Fipt



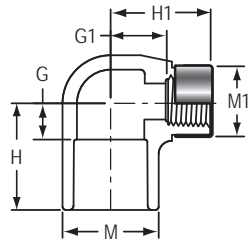
| Part Number | Size | G | G1 | H | H1 | M | M1 | Approx. Wt. (Lbs.) |
|-------------|-----------|-------|---------|---------|---------|---------|---------|--------------------|
| 4207-101 | 3/4x1/2 | 7/16 | 1-5/32 | 1-23/32 | 1-17/32 | 1-13/32 | 1-17/32 | .25 |
| 4207-130 | 1x1/2 | 15/32 | 1-5/8 | 1-9/16 | 1-11/16 | 1-23/32 | 1-17/32 | .28 |
| 4207-131 | 1x3/4 | 17/32 | 1-1/4 | 1-21/32 | 2 | 1-23/32 | 1-3/8 | .25 |
| 4207-166 | 1-1/4x1/2 | 15/32 | 1-17/32 | 1-11/16 | 1-15/16 | 2-3/32 | 1-17/32 | .33 |

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

SPRINKLER HEAD 90° ELBOW

Special Reinforced Plastic Thread Style

Socket x SR Fipt

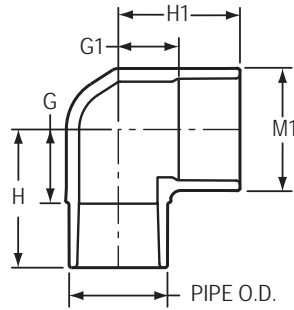


| Part Number | Size | G | G1 | H | H1 | M | M1 | Approx. Wt. (Lbs.) |
|-------------|-----------|-------|--------|---------|---------|---------|--------|--------------------|
| 4207-101SR | 3/4x1/2 | 11/32 | 13/16 | 1-15/32 | 1-1/2 | 1-13/32 | 1-3/16 | .14 |
| 4207-130SR | 1x1/2 | 7/16 | 7/8 | 1-9/16 | 1-5/8 | 1-23/32 | 1-3/8 | .20 |
| 4207-131SR | 1x3/4 | 1/2 | 7/8 | 1-5/8 | 1-9/16 | 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 | .19 |



90° STREET ELBOW

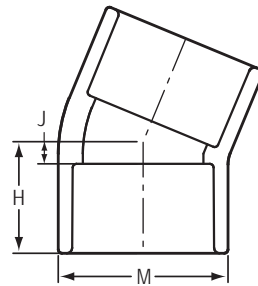
Spigot x Socket



| Part Number | Size | G | G1 | H | H1 | M1 | Approx. Wt. (Lbs.) |
|-------------|-------|---------|--------|---------|---------|---------|--------------------|
| 4209-007 | 3/4 | 15/16 | 17/32 | 1-15/16 | 1-17/32 | 1-3/8 | .12 |
| 4209-010 | 1 | 1-9/32 | 23/32 | 2-13/32 | 1-27/32 | 1-3/4 | .21 |
| 4209-012 | 1-1/4 | 1-9/16 | 27/32 | 2-13/16 | 2-3/32 | 2-3/32 | .32 |
| 4209-015 | 1-1/2 | 1-15/32 | 1-3/16 | 2-27/32 | 2-9/16 | 2-11/32 | .42 |
| 4209-020 | 2 | 1-23/32 | 1-3/8 | 3-7/32 | 2-15/16 | 2-27/32 | .65 |

22-1/2° ELBOW

Socket x Socket



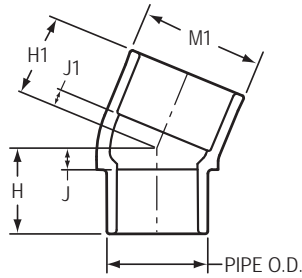
| Part Number | Size | H | J | M | Approx. Wt. (Lbs.) |
|-------------|-------|--------|-------|---------|--------------------|
| 4216-007 | 3/4 | 1-3/16 | 7/32 | 1-13/32 | .09 |
| 4216-010 | 1 | 1-3/8 | 9/32 | 1-25/32 | .14 |
| 4216-012 | 1-1/4 | 1-1/2 | 5/16 | 2-3/32 | .20 |
| 4216-015 | 1-1/2 | 1-7/16 | 13/32 | 1-3/8 | .19 |
| 4216-020 | 2 | 1-7/8 | 3/8 | 2-27/32 | .43 |
| 4216-030 | 3 | 2-3/8 | 1/2 | 4-5/32 | 1.00 |



FlameGuard™ CPVC FIRE SPRINKLER PIPING PRODUCTS

22-1/2° STREET ELBOW

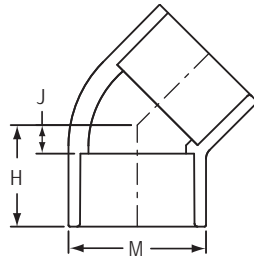
Spigot x Socket



| Part Number | Size | H | H1 | J | J1 | M1 | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|-------|-------|---------|--------------------|
| 4242-007 | 3/4 | 1-1/4 | 1-1/2 | 1/4 | 1/2 | 1-3/8 | .08 |
| 4242-010 | 1 | 1-7/16 | 1-11/32 | 5/16 | 7/32 | 1-23/32 | .14 |
| 4242-012 | 1-1/4 | 1-9/16 | 1-25/32 | 17/32 | 11/16 | 2-1/16 | .21 |
| 4242-015 | 1-1/2 | 1-13/32 | 1-23/32 | 1/2 | 11/32 | 2-11/32 | .28 |
| 4242-020 | 2 | 1-29/32 | 2-1/8 | 7/32 | 5/8 | 2-7/8 | .42 |
| 4242-025 | 2-1/2 | 2-1/8 | 2-1/4 | 13/32 | 1/2 | 3-1/2 | .68 |
| 4242-030 | 3 | 2-13/32 | 2-13/32 | 9/16 | 17/32 | 4-5/32 | .99 |

45° ELBOW

Socket x Socket

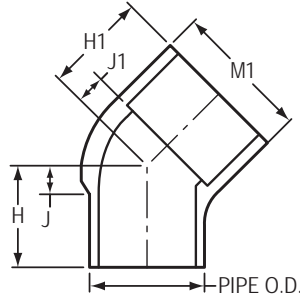


| Part Number | Size | H | J | M | Approx. Wt. (Lbs.) |
|-------------|-------|---------|-------|---------|--------------------|
| 4217-007 | 3/4 | 1-5/16 | 5/16 | 1-5/16 | .10 |
| 4217-010 | 1 | 1-15/32 | 11/32 | 1-5/8 | .11 |
| 4217-012 | 1-1/4 | 1-5/8 | 3/8 | 2-5/32 | .21 |
| 4217-015 | 1-1/2 | 1-27/32 | 15/32 | 2-11/32 | .32 |
| 4217-020 | 2 | 2-1/8 | 21/32 | 2-7/8 | .48 |
| 4217-025 | 2-1/2 | 2-13/32 | 21/32 | 3-1/2 | .79 |
| 4217-030 | 3 | 2-3/4 | 7/8 | 4-5/32 | 1.22 |



45° STREET ELBOW

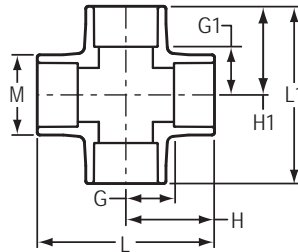
Spigot x Socket



| Part Number | Size | H | H1 | J | J1 | M1 | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|-------|-------|---------|--------------------|
| 4227-010 | 1 | 1-1/2 | 1-5/16 | 1/2 | 1/4 | 1-5/8 | .10 |
| 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 | 2-1/8 | 19/32 | 25/32 | 2-11/32 | .29 |
| 4227-020 | 2 | 2-5/16 | 1-15/16 | 25/32 | 13/32 | 2-7/8 | .44 |

CROSS

Socket x Socket x Socket x Socket



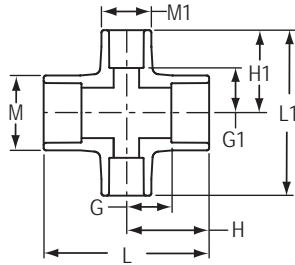
| Part Number | Size | G | G1 | H | H1 | L | L1 | M | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|---------|---------|---------|---------|---------|--------------------|
| 4220-007 | 3/4 | 5/8 | 5/8 | 1-21/32 | 1-21/32 | 3-5/16 | 3-5/16 | 1-13/32 | .22 |
| 4220-010 | 1 | 3/4 | 3/4 | 1-5/8 | 1-5/8 | 3-1/4 | 3-1/4 | 1-23/32 | .20 |
| 4220-012 | 1-1/4 | 1-1/8 | 1-1/8 | 2-3/8 | 2-3/8 | 4-3/4 | 4-3/4 | 2-3/32 | .63 |
| 4220-015 | 1-1/2 | 1-7/32 | 1-7/32 | 2-5/8 | 2-5/8 | 5-1/4 | 5-1/4 | 2-11/32 | .80 |
| 4220-020 | 2 | 1-1/2 | 1-1/2 | 3 | 3 | 6 | 6 | 3 | 1.43 |
| 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 | 2.16 |
| 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™ CPVC FIRE SPRINKLER PIPING PRODUCTS

REDUCING CROSS

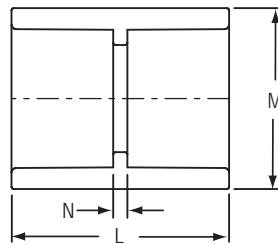
Socket x Socket x Socket x Socket



| Part Number | Size | G | G1 | H | H1 | L | L1 | M | M1 | Approx. Wt. (Lbs.) |
|-------------|-----------|--------|-------|---------|---------|---------|---------|---------|---------|--------------------|
| 4220-131 | 1x3/4 | 7/8 | 5/8 | 2 | 1-5/8 | 4 | 3-1/4 | 1-27/32 | 1-1/2 | .35 |
| 4220-167 | 1-1/4x3/4 | 1-1/16 | 23/32 | 2-1/16 | 1-31/32 | 4-3/32 | 3-31/32 | 2-1/16 | 1-13/32 | .35 |
| 4220-289 | 2-1/2x1 | 29/32 | 1-3/4 | 2-11/16 | 2-7/8 | 5-11/32 | 5-3/4 | 3-1/2 | 1-3/4 | .98 |

COUPLING

Socket x Socket

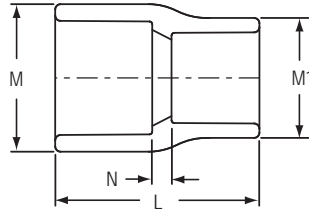


| Part Number | Size | L | M | N | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|------|--------------------|
| 4229-007 | 3/4 | 2-1/8 | 1-5/16 | 3/16 | .05 |
| 4229-010 | 1 | 2-3/16 | 1-5/8 | 3/32 | .08 |
| 4229-012 | 1-1/4 | 2-19/32 | 2 | 3/32 | .13 |
| 4229-015 | 1-1/2 | 2-7/8 | 2-11/32 | 3/32 | .22 |
| 4229-020 | 2 | 3-1/8 | 2-7/8 | 1/8 | .33 |
| 4229-025 | 2-1/2 | 3-11/16 | 3-15/32 | 3/16 | .48 |
| 4229-030 | 3 | 4 | 4-3/16 | 1/4 | .89 |



REDUCER COUPLING

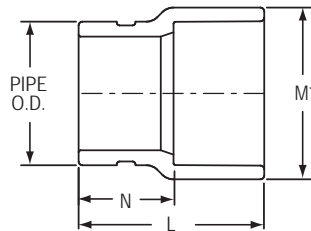
Socket x Socket



| 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 | .10 |
| 4229-167 | 1-1/4x3/4 | 2-19/32 | 2-3/32 | 1-5/8 | 11/32 | .17 |
| 4229-168 | 1-1/4x1 | 2-11/16 | 2-3/32 | 1-23/32 | 5/16 | .18 |
| 4229-210 | 1-1/2x3/4 | 2-13/16 | 2-11/32 | 1-13/32 | 15/32 | .19 |
| 4229-211 | 1-1/2x1 | 2-7/8 | 2-11/32 | 1-15/16 | 3/8 | .24 |
| 4229-212 | 1-1/2x1-1/4 | 2-25/32 | 2-3/8 | 2-3/32 | 5/32 | .22 |
| 4229-248 | 2x3/4 | 3-3/16 | 2-7/8 | 1-7/16 | 23/32 | .32 |
| 4229-249 | 2x1 | 3-1/8 | 2-7/8 | 1-23/32 | 1/2 | .31 |
| 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 | 9/32 | .31 |
| 4229-291 | 2-1/2x1-1/2 | 3-23/32 | 3-15/32 | 2-11/32 | 21/32 | .51 |
| 4229-292 | 2-1/2x2 | 3-21/32 | 3-1/2 | 2-7/8 | 13/32 | .52 |

GROOVED COUPLING ADAPTER

Groove x Socket

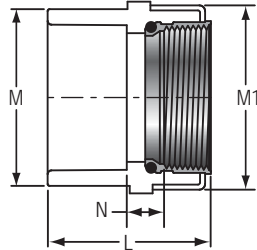


| Part Number | Size | L | M1 | N | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|---------|--------------------|
| 4233-012 | 1-1/4 | 3-5/8 | 2-3/32 | 2-11/32 | .72 |
| 4233-015 | 1-1/2 | 3-3/4 | 2-11/32 | 2-11/32 | .83 |
| 4233-020 | 2 | 3-27/32 | 2-27/32 | 2-11/32 | 1.27 |
| 4233-025 | 2-1/2 | 4-3/16 | 3-15/32 | 2-7/16 | 2.02 |
| 4233-030 | 3 | 3-9/16 | 4-5/32 | 1-23/32 | .72 |



FlameGuard™ CPVC FIRE SPRINKLER PIPING PRODUCTS

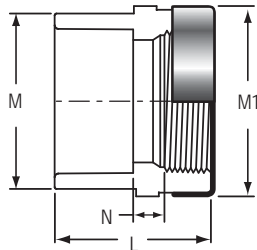
FEMALE ADAPTER Brass Thread Insert Style Socket x Fipt



| Part Number | Size | L | M | M1 | N | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|---------|-------|--------------------|
| 4235-007 | 3/4 | 2 | 1-13/32 | 1-3/8 | 5/16 | .23 |
| 4235-010 | 1 | 2-7/32 | 1-3/4 | 1-11/16 | 13/32 | .25 |
| 4235-012 | 1-1/4 | 2-3/8 | 2-3/32 | 2-1/16 | 13/32 | .35 |
| 4235-015 | 1-1/2 | 2-9/16 | 2-3/8 | 2-7/16 | 7/16 | .47 |
| 4235-020 | 2 | 2-25/32 | 2-27/32 | 3-3/16 | 7/16 | 1.05 |

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

FEMALE ADAPTER Special Reinforced Plastic Thread Style Socket x SR Fipt

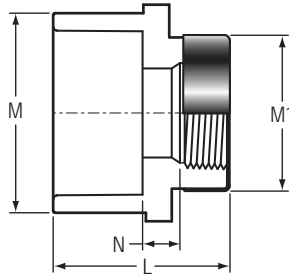


| Part Number | Size | L | M | M1 | N | Approx. Wt. (Lbs.) |
|-------------|-------|--------|---------|--------|------|--------------------|
| 4235-007SR | 3/4 | 1-7/8 | 1-13/32 | 1-3/8 | 3/32 | .08 |
| 4235-010SR | 1 | 2-5/32 | 1-23/32 | 1-7/8 | 3/32 | .22 |
| 4235-012SR | 1-1/4 | 2-5/16 | 2-1/8 | 2-1/16 | 3/16 | .20 |



FEMALE SPRINKLER HEAD ADAPTER Special Reinforced Plastic Thread Style

Socket x SR Fipt

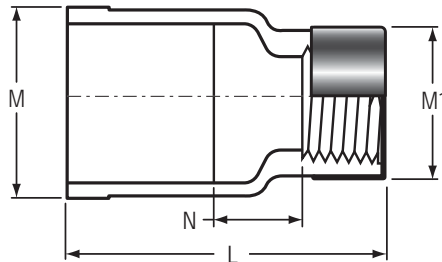


| Part Number | Size | L | M | M1 | N | Approx. Wt. (Lbs.) |
|-------------|---------|---------|---------|--------|------|--------------------|
| 4235-101SR | 3/4x1/2 | 1-29/32 | 1-13/32 | 1-3/16 | 1/8 | .08 |
| 4235-130SR | 1x1/2 | 1-31/32 | 1-23/32 | 1-3/8 | 3/32 | .16 |
| 4235-131SR | 1x3/4 | 2-3/32 | 1-3/4 | 1-3/8 | 1/4 | .13 |

FEMALE SPRINKLER HEAD ADAPTER Special Reinforced Plastic Thread Style with Socket Wrench Flats

Socket x SR Fipt

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 | 1-3/4 | 1-3/16 | 13/32 | .12 |

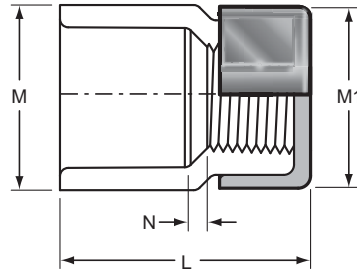


FlameGuard™ CPVC FIRE SPRINKLER PIPING PRODUCTS

FEMALE SPRINKLER HEAD ADAPTER

Special Reinforced Plastic Thread w/Metal Thread Start

Socket x SR Fipt

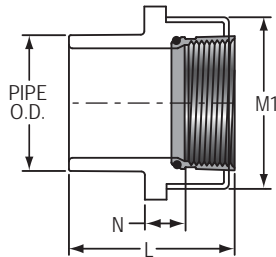


| Part Number | Size | L | M | M1 | N | Approx. Wt. (Lbs.) |
|-------------|---------|-------|-------|--------|------|--------------------|
| Z4235-101SR | 3/4x1/2 | 1-7/8 | 1-3/8 | 1-7/16 | 3/16 | .08 |

SPIGOT FEMALE ADAPTER

Brass Thread Insert Style

Spigot x Fipt



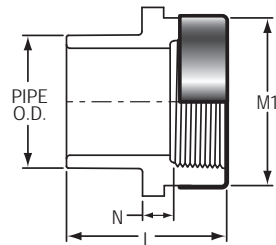
| Part Number | Size | L | M1 | N | Approx. Wt. (Lbs.) |
|-------------|------|--------|---------|-------|--------------------|
| 4278-007 | 3/4 | 2-1/32 | 1-3/8 | 15/32 | .14 |
| 4278-010 | 1 | 2-9/32 | 1-23/32 | 13/32 | .22 |

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

SPIGOT FEMALE ADAPTER

Special Reinforced Plastic Thread Style

Spigot x SR Fipt



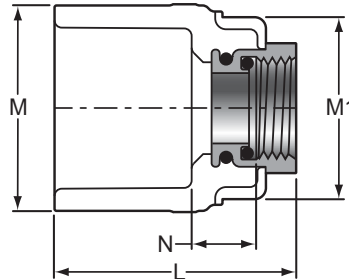
| Part Number | Size | L | M1 | N | Approx. Wt. (Lbs.) |
|-------------|------|---------|---------|-------|--------------------|
| 4278-007SR | 3/4 | 1-15/16 | 1-3/8 | 11/32 | .08 |
| 4278-010SR | 1 | 2-1/4 | 1-23/32 | 13/32 | .13 |



GASKET SEALED FEMALE SPRINKLER HEAD ADAPTER

Brass Thread Insert Style

Socket x Gasket Fipt



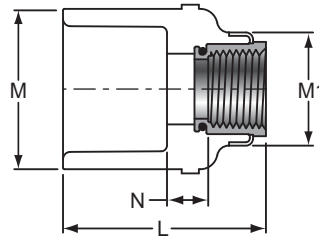
| Part Number | Size | L | M | M1 | N | Approx. Wt. (Lbs.) |
|-------------|-------|--------|---------|-------|-------|--------------------|
| 4235-130GS | 1x1/2 | 2-1/32 | 1-11/16 | 1-3/8 | 17/32 | .17 |

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



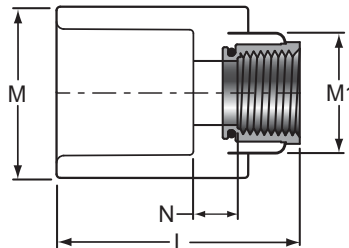
| Part Number | Size | L | M | M1 | N | Approx. Wt. (Lbs.) |
|-------------|---------|---------|---------|---------|-------|--------------------|
| 4235-101 | 3/4x1/2 | 1-7/8 | 1-13/32 | 1-17/32 | 15/32 | .19 |
| 4235-130 | 1x1/2 | 2-11/32 | 1-11/16 | 1-3/16 | 5/8 | .16 |
| 4235-131 | 1x3/4 | 2-5/16 | 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

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 | .19 |

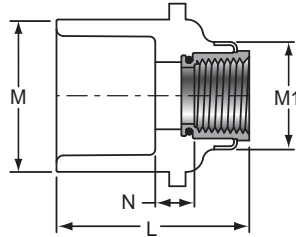
Not intended to convey or dispense water for human consumption through drinking or cooking



FlameGuard™ CPVC FIRE SPRINKLER PIPING PRODUCTS

FEMALE SPRINKLER HEAD ADAPTER Brass Thread Insert Style with Positioning Ring

Socket x Fipt

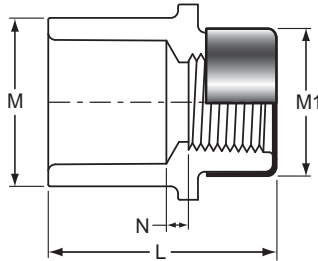


| Part Number | Size | L | M | M1 | N | Approx. Wt. (Lbs.) |
|-------------|---------|--------|--------|--------|-------|--------------------|
| R4235-101 | 3/4x1/2 | 2-1/32 | 1-7/16 | 1-3/16 | 15/32 | .15 |

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

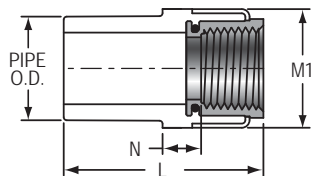
Socket x SR Fipt



| 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 |

SPIGOT FEMALE SPRINKLER HEAD ADAPTER Brass Thread Insert Style

Spigot x Fipt



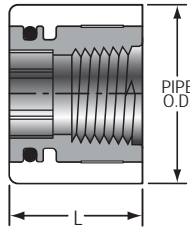
| Part Number | Size | L | M1 | N | Approx. Wt. (Lbs.) |
|-------------|---------|---------|---------|-------|--------------------|
| 4238-101 | 3/4x1/2 | 1-15/16 | 1-17/32 | 17/32 | .18 |
| 4238-130 | 1x1/2 | 2-1/4 | 1-3/16 | 11/32 | .19 |

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



BUSHING with BRASS THREAD INSERT

Spigot x Fipt



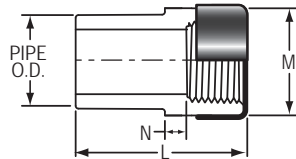
| Part Number | Size | L | Approx. Wt. (Lbs.) |
|-------------|-------|---|--------------------|
| 4238-130BR | 1x1/2 | 1 | .13 |

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

SPIGOT FEMALE SPRINKLER HEAD ADAPTER

Special Reinforced Plastic Thread Style

Spigot x SR Fipt

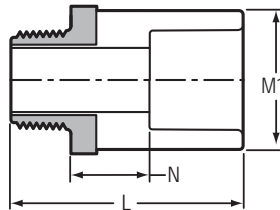


| Part Number | Size | L | M1 | N | Approx. Wt. (Lbs.) |
|-------------|---------|---------|--------|------|--------------------|
| 4238-101SR | 3/4x1/2 | 1-29/32 | 1-7/32 | 1/8 | .07 |
| 4238-130SR | 1x1/2 | 2-1/32 | 1-7/32 | 7/32 | .09 |

MALE ADAPTER

With CPVC Lined Thread Brass Insert

Mipt x Socket

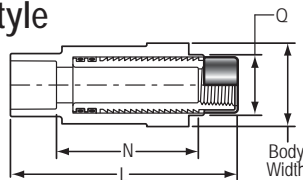


| Part Number | Size | L | M1 | N | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|-------|--------------------|
| 4236-007 | 3/4 | 2-17/32 | 1-13/32 | 13/16 | .26 |
| 4236-010 | 1 | 2-15/16 | 1-23/32 | 29/32 | .43 |
| 4236-012 | 1-1/4 | 3-1/8 | 2-3/32 | 31/32 | .66 |
| 4236-015 | 1-1/2 | 3-9/32 | 2-11/32 | 31/32 | .80 |
| 4236-020 | 2 | 3-7/16 | 2-27/32 | 31/32 | 1.07 |

ADJUSTABLE SPRINKLER HEAD ADAPTER

Special Reinforced Plastic Thread Style

Socket x SR Fipt



| Part Number | Size | L | | N | | Q | Body Width | Approx. Wt. (Lbs.) |
|-------------|---------|---------|-----|--------|-------|--------|------------|--------------------|
| | | Min | Max | Min | Max | | | |
| 42001SR | 3/4x1/2 | 6-9/32 | 8 | 4-7/16 | 6-1/4 | 1-7/16 | 2-3/16 | .66 |
| 42011SR | 1x1/2 | 6-13/32 | 8 | 4-1/2 | 6-1/8 | 1-7/16 | 2-1/8 | .68 |

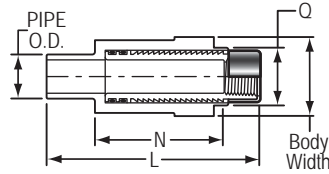


FlameGuard™ CPVC FIRE SPRINKLER PIPING PRODUCTS

ADJUSTABLE SPRINKLER HEAD ADAPTER

Special Reinforced Plastic Thread Style

Spigot x SR Fipt

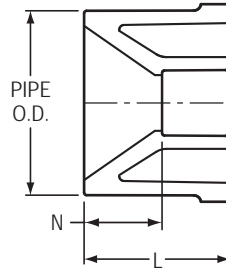


| Part Number | Size | L | | N | | Q | Body Width | Approx. Wt. (Lbs.) |
|-------------|---------|--------|--------|--------|---------|--------|------------|--------------------|
| | | Min | Max | Min | Max | | | |
| 42004SR | 3/4x1/2 | 5-1/32 | 6-5/16 | 3-3/16 | 4-15/32 | 1-5/16 | 2-1/8 | .36 |
| 42014SR | 1x1/2 | 6-7/16 | 8-1/8 | 4-7/16 | 6-1/4 | 1-7/16 | 2-3/16 | .67 |

REDUCER BUSHING

Flush Style

Spigot x Socket

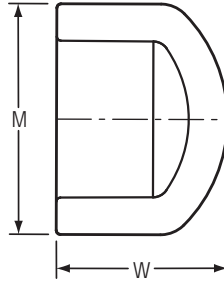


| Part Number | Size | L | N | Approx. Wt. (Lbs.) |
|-------------|-------------|---------|--------|--------------------|
| 4237-131 | 1x3/4 | 1-1/4 | 1/4 | .04 |
| 4237-167 | 1-1/4x3/4 | 1-7/16 | 7/16 | .10 |
| 4237-168 | 1-1/4x1 | 1-13/32 | 9/32 | .06 |
| 4237-210 | 1-1/2x3/4 | 1-11/16 | 11/16 | .19 |
| 4237-211 | 1-1/2x1 | 1-17/32 | 13/32 | .15 |
| 4237-212 | 1-1/2x1-1/4 | 1-9/16 | 5/16 | .07 |
| 4237-248 | 2x3/4 | 1-29/32 | 29/32 | .27 |
| 4237-249 | 2x1 | 1-29/32 | 3/4 | .25 |
| 4237-250 | 2x1-1/4 | 1-11/16 | 7/16 | .21 |
| 4237-251 | 2x1-1/2 | 1-11/16 | 5/16 | .15 |
| 4237-290 | 2-1/2x1-1/4 | 2-13/32 | 1-5/32 | .45 |
| 4237-291 | 2-1/2x1-1/2 | 2-13/32 | 1-1/32 | .43 |
| 4237-292 | 2-1/2x2 | 2-9/32 | 25/32 | .29 |
| 4237-338 | 3x2 | 2-1/4 | 3/4 | .63 |
| 4237-339 | 3x2-1/2 | 2-5/16 | 1/4 | .40 |

FlameGuard™ CPVC FIRE SPRINKLER PIPING PRODUCTS



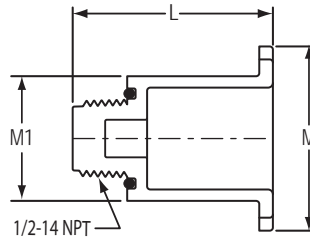
CAP Socket



| Part Number | Size | M | W | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|--------------------|
| 4247-007 | 3/4 | 1-3/8 | 1-13/32 | .05 |
| 4247-010 | 1 | 1-5/8 | 1-19/32 | .06 |
| 4247-012 | 1-1/4 | 2-3/32 | 1-27/32 | .13 |
| 4247-015 | 1-1/2 | 2-11/32 | 2 | .17 |
| 4247-020 | 2 | 2-27/32 | 2-9/32 | .39 |
| 4247-025 | 2-1/2 | 3-17/32 | 2-5/8 | .50 |
| 4247-030 | 3 | 4-3/8 | 3 | .92 |

TEST PLUG - O-ring Sealed

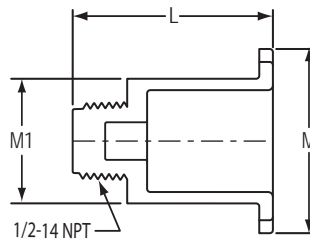
Mipt - For Pressure Testing Only,
Not For use with Z4235 Series Adapters



| Part Number | Size | L | M | M1 | Approx. Wt. (Lbs.) |
|-------------|------|---------|---------|--------|--------------------|
| FTP-005 | 1/2 | 1-27/32 | 1-15/16 | 1-7/32 | .03 |

TEST PLUG for TorqueSafe™ Gasket Sealed Head Adapters

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



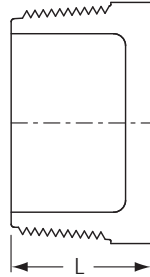
| Part Number | Size | L | M | M1 | Approx. Wt. (Lbs.) |
|-------------|------|---------|--------|-------|--------------------|
| FTP-005GS | 1/2 | 1-25/32 | 2-1/32 | 1-1/4 | .05 |



FlameGuard™ CPVC FIRE SPRINKLER PIPING PRODUCTS

TEST PLUG

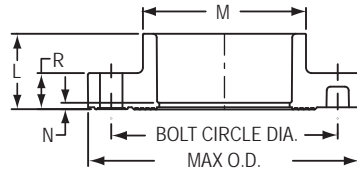
(PVC White) Not UL Listed; For Pressure Testing Only,
Mipt



| Part Number | Size | L | Approx. Wt. (Lbs.) |
|-------------|------|-------|--------------------|
| 4250-005 | 1/2 | 27/32 | .02 |

FLANGE - ONE PIECE

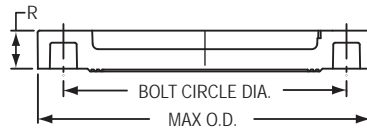
4 Bolt Holes, 175 psi
Socket



| Part Number | Size | L | M | N | R | No. of Bolt Holes | Bolt Circle Dia. | Bolt Size | Min. Bolt Length | Max. O.D. | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|------|--------|-------------------|------------------|-----------|------------------|-----------|--------------------|
| 4251-007 | 3/4 | 1-5/32 | 1-1/2 | 1/8 | 17/32 | 4 | 2-3/4 | 1/2 | 2 | 3-29/32 | .31 |
| 4251-010 | 1 | 1-5/16 | 1-13/16 | 1/8 | 11/16 | 4 | 3-1/8 | 1/2 | 2-1/4 | 4-9/32 | .35 |
| 4251-012 | 1-1/4 | 1-13/32 | 2-7/32 | 5/32 | 11/16 | 4 | 3-1/2 | 1/2 | 2-1/4 | 4-5/8 | .44 |
| 4251-015 | 1-1/2 | 1-9/16 | 2-1/2 | 3/16 | 23/32 | 4 | 3-7/8 | 1/2 | 2-1/2 | 5 | .52 |
| 4251-020 | 2 | 1-27/32 | 3 | 5/16 | 27/32 | 4 | 4-3/4 | 5/8 | 3 | 5-31/32 | .95 |
| 4251-025 | 2-1/2 | 2-7/32 | 3-1/2 | 7/16 | 1-1/32 | 4 | 5-1/2 | 5/8 | 3-1/4 | 7 | 1.50 |

BLIND FLANGE

4 Bolt Holes, 175 psi



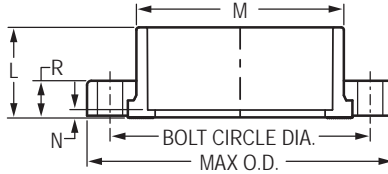
| Part Number | Size | R | Bolt Circle Dia. | No. of Bolt Holes | Bolt Size | Min. Bolt Length | Max. O.D. | Approx. Wt. (Lbs.) |
|-------------|-------|--------|------------------|-------------------|-----------|------------------|-----------|--------------------|
| 4253-007 | 3/4 | 17/32 | 2-3/4 | 4 | 1/2 | 2 | 3-27/32 | .30 |
| 4253-010 | 1 | 23/32 | 3-1/8 | 4 | 1/2 | 2-1/4 | 4-1/4 | .35 |
| 4253-012 | 1-1/4 | 21/32 | 3-1/2 | 4 | 1/2 | 2-1/4 | 4-5/8 | .40 |
| 4253-015 | 1-1/2 | 3/4 | 3-7/8 | 4 | 1/2 | 2-1/2 | 5-1/32 | .74 |
| 4253-020 | 2 | 27/32 | 4-3/4 | 4 | 5/8 | 3 | 5-31/32 | .86 |
| 4253-025 | 2-1/2 | 1-1/32 | 5-1/2 | 4 | 5/8 | 3-1/4 | 6-15/16 | 1.70 |
| 4253-030 | 3 | 1-5/16 | 6 | 4 | 5/8 | 3-1/4 | 7-5/8 | 1.72 |

FlameGuard™ CPVC FIRE SPRINKLER PIPING PRODUCTS



FLANGE - TWO PIECE

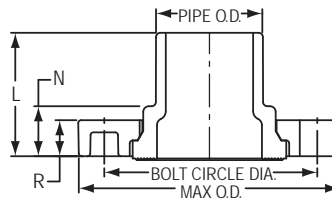
Van Stone Style, 4 Bolt Holes, 175 psi
Socket



| Part Number | Size | L | M | N | R | Bolt Circle Dia. | No. of Bolt Holes | Bolt Size | Min. Bolt Length | Max. O.D. | Approx. Wt. (Lbs.) |
|-------------|------|-------|-------|------|--------|------------------|-------------------|-----------|------------------|-----------|--------------------|
| 4254-030 | 3 | 2-1/8 | 4-1/4 | 9/32 | 1-1/32 | 6 | 4 | 5/8 | 3-1/4 | 7-15/32 | 1.75 |

FLANGE - TWO PIECE

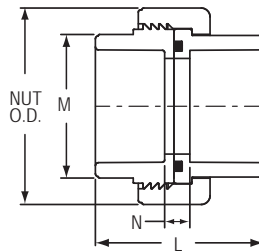
Van Stone Style, 4 Bolt Holes, 175 psi
Spigot



| Part Number | Size | L | N | R | Bolt Circle Dia. | No. of Bolt Holes | Bolt Size | Min. Bolt Length | Max. O.D. | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|--------|------------------|-------------------|-----------|------------------|-----------|--------------------|
| 4256-007 | 3/4 | 1-15/16 | 13/16 | 17/32 | 2-3/4 | 4 | 1/2 | 2 | 3-27/32 | .30 |
| 4256-010 | 1 | 2-7/32 | 1-1/32 | 11/16 | 3-1/8 | 4 | 1/2 | 2-1/4 | 4-1/4 | .41 |
| 4256-012 | 1-1/4 | 2-3/8 | 1 | 11/16 | 3-1/2 | 4 | 1/2 | 2-1/4 | 4-5/8 | .50 |
| 4256-015 | 1-1/2 | 2-7/16 | 1-3/32 | 23/32 | 3-7/8 | 4 | 1/2 | 2-1/2 | 4-31/32 | .65 |
| 4256-020 | 2 | 2-3/4 | 1-5/32 | 25/32 | 4-3/4 | 4 | 5/8 | 3 | 5-15/16 | 1.00 |
| 4256-025 | 2-1/2 | 3-1/16 | 1-9/32 | 1-1/32 | 5-1/2 | 4 | 5/8 | 3-1/4 | 6-15/16 | 1.62 |
| 4256-030 | 3 | 3-3/8 | 1-13/32 | 1-1/32 | 6 | 4 | 5/8 | 3-1/4 | 7-9/16 | 1.76 |

UNION

Socket x Socket

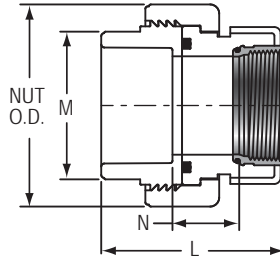


| Part Number | Size | L | M | N | Nut O.D. | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|-------|----------|--------------------|
| 4257-007 | 3/4 | 2-3/8 | 1-17/32 | 3/8 | 2-1/2 | .38 |
| 4257-010 | 1 | 2-9/16 | 1-27/32 | 3/8 | 2-7/8 | .41 |
| 4257-012 | 1-1/4 | 2-27/32 | 2-7/32 | 11/32 | 3-5/16 | .52 |
| 4257-015 | 1-1/2 | 3-1/8 | 2-1/2 | 3/8 | 3-17/32 | .63 |
| 4257-020 | 2 | 3-5/8 | 3-1/32 | 9/16 | 4-3/16 | 1.09 |



FlameGuard™ CPVC FIRE SPRINKLER PIPING PRODUCTS

TRANSITION UNION Brass Thread Insert Style Socket x Fipt

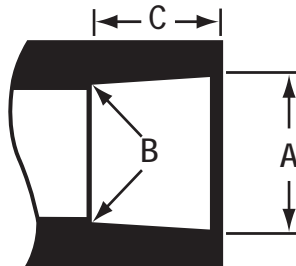


| Part Number | Size | L | M | N | Nut O.D. | Approx. Wt. (Lbs.) |
|-------------|-------|---------|--------|--------|----------|--------------------|
| 4259-010BR | 1 | 2-13/16 | 1-7/8 | 1-1/32 | 2-7/8 | .52 |
| 4259-012BR | 1-1/4 | 3 | 2-3/16 | 1-1/8 | 3-9/32 | .98 |
| 4259-015BR | 1-1/2 | 3-3/4 | 2-1/2 | 1-9/16 | 3-17/32 | .93 |
| 4259-020BR | 2 | 3-5/8 | 2-7/8 | 1-1/4 | 4-5/16 | 1.64 |

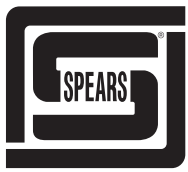
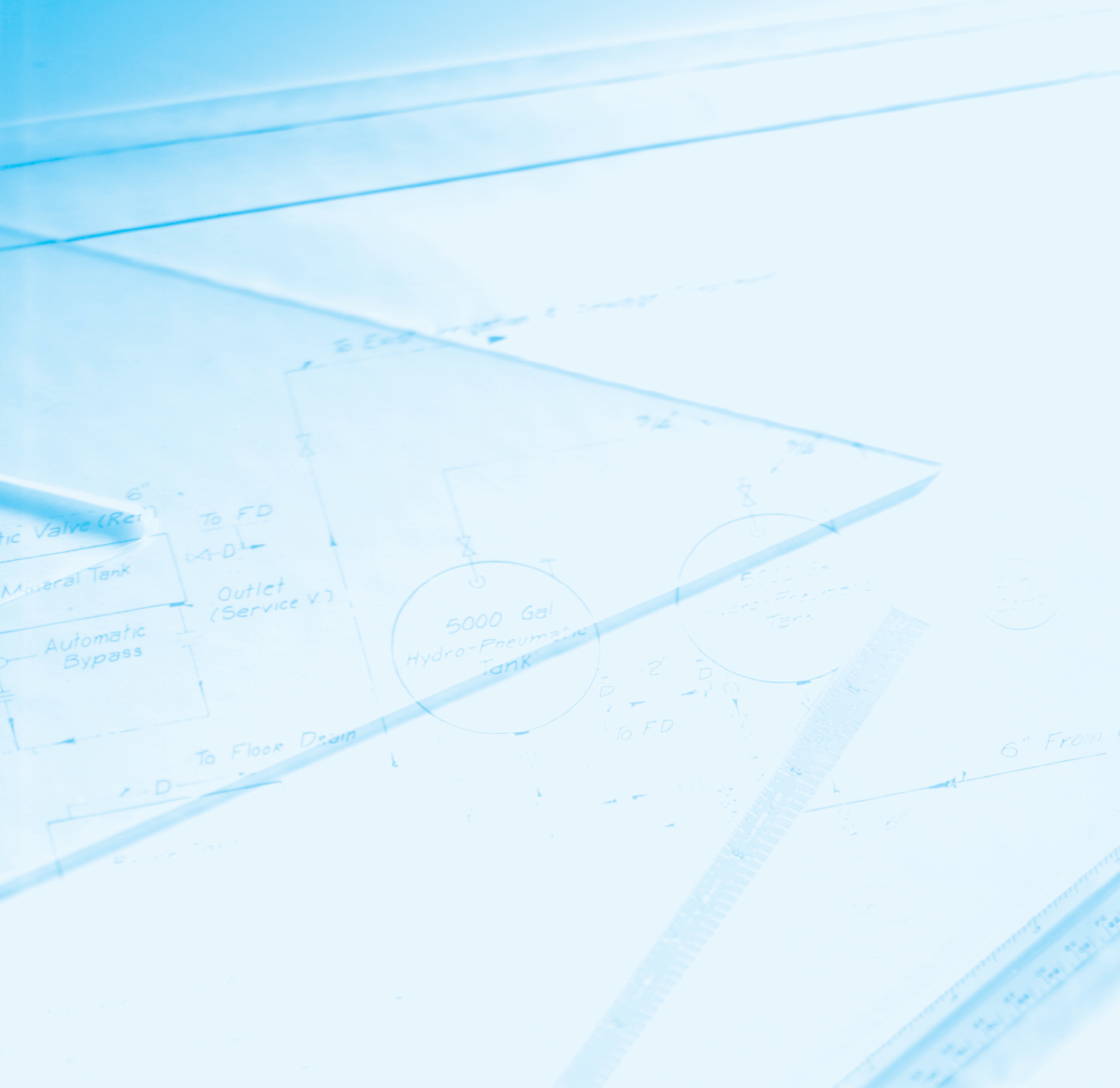
Not intended to convey or dispense water for human consumption through drinking or cooking

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 |



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