



# **Schedule 40 Fittings, Unions & Tank Adapters**



## **ENGINEERING GUIDE**

**Contact Spears® for any Information not found.**



## Performance Engineered & Tested



**SPEARS® Schedule 40 PVC fitting designs combine years of proven experience with computer generated stress analysis to yield the optimum physical structure and performance for each fitting. Material reinforcement is uniformly placed in stress concentration areas for substantially improved pressure handling capability. Resulting products are subjected to numerous verification tests to assure the very best PVC fittings available.**

### Full 1/4" Through 14" Availability

Spears® comprehensive line of PVC fittings offers a variety of injection molded configurations in Schedule 40 sizes 1/4" through 14" conforming to ASTM D 2466.

### Exceptional Chemical & Corrosion Resistance

Unlike metal, PVC fittings never rust, scale, or pit, and will provide many years of maintenance-free service and extended system life.

### High Temperature Ratings

PVC thermoplastic can handle fluids at service temperatures up to 140°F (60°C), allowing a wide range of process applications, including corrosive fluids.

### Lower Installation Costs

Substantially lower material costs than steel alloys or lined steel, combined with lighter weight and ease of installation, can reduce installation costs by as much as 60% over conventional metal systems.

### Higher Flow Capacity

Smooth interior walls result in lower pressure loss and higher volume than conventional metal fittings.

### Additional Fabricated Configurations through 24"

Extra large, hard-to-find, and custom configurations are fabricated from NSF® Certified pipe. Fittings are engineered and tested to provide full pressure handling capabilities according to Spears® specifications.

### PVC Valves

SPEARS® PVC Valve products are available for total system compatibility and uniformity.

### Advanced Design Specialty Fittings

Spears® wide range of innovative, improved products include numerous metal-to-plastic transition fittings and unions with Spears® patented special reinforced (SR) plastic threads.

### 1/2" Through 16" Industrial Pipe Availability

Spears® premium quality Industrial PVC pipe is offered in Schedule 40 White sizes 1/2" through 16".

### Sample Engineering Specifications

All PVC Schedule 40 fittings shall be produced by Spears® Manufacturing Company from PVC Type I cell classification 12454, conforming to ASTM D 1784. All injection molded PVC Schedule 40 fittings shall be Certified for potable water service by NSF International and manufactured in strict compliance to ASTM D 2466. All fabricated fittings shall be produced in accordance with Spears® General Specifications for Fabricated Fittings.



## Schedule 40 Fittings Technical Schedule 40 Product Overview

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: (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. **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.**

**Solvent Weld Connections** - Use Spears® quality solvent cements and primers formulated for the intended service application, pipe size and type of joint. While the pipe and fitting materials may be compatible with the intended medium, the solvent cement may not be. Consult the manufacturers for suitability of use. Read and follow the cement and primer manufacturers' applications and cure time instructions thoroughly. Be sure to use the correct size applicator.

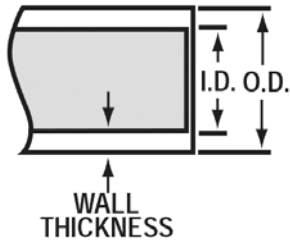
**Threaded Connections** - Use a quality grade thread sealant. **WARNING: SOME PIPE JOINT COMPOUNDS OR PTFE PASTES MAY CONTAIN SUBSTANCES THAT COULD CAUSE STRESS CRACKING TO PLASTIC.** Spears® Manufacturing Company recommends the use of Spears® **BLUE 75™** Thread Sealant which has been tested for compatibility with Spears® products. Please follow the sealant manufacturers' application / installation instructions. Choice of an appropriate thread sealant other than those listed above is at the discretion of the installer. 1 to 2 turns beyond **FINGER TIGHT** is generally all that is required to make a sound plastic threaded connection. Unnecessary **OVERTIGHTENING** will cause **DAMAGE TO BOTH PIPE AND FITTING.**

"Lead Free" low lead certification - unless otherwise specified, all Spears® Schedule 40 fittings specified here-in are certified by NSF International to NSF/ANSI 372 and conforms with the lead content requirements for "lead free" plumbing as defined by California, Vermont, Maryland, and Louisiana state laws and the U.S. Safe Drinking Water Act. Weighted average lead content  $\leq 0.25\%$ .



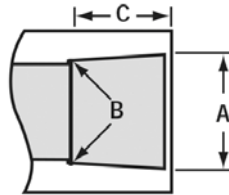
## ASTM STANDARD DIMENSIONS

**SCHEDULE 40 PIPE DIMENSIONS  
 ASTM D 1785**



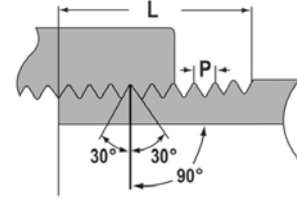
| Nominal Pipe Size In. | Mean Outside Diameter In. | O. D. Tolerance In. | Minimum Wall Thickness In. |
|-----------------------|---------------------------|---------------------|----------------------------|
| 1/8                   | .405                      | ± .004              | .068                       |
| 1/4                   | .540                      | ± .004              | .088                       |
| 3/8                   | .675                      | ± .004              | .091                       |
| 1/2                   | .840                      | ± .004              | .109                       |
| 3/4                   | 1.050                     | ± .004              | .113                       |
| 1                     | 1.315                     | ± .005              | .133                       |
| 1-1/4                 | 1.660                     | ± .005              | .140                       |
| 1-1/2                 | 1.900                     | ± .006              | .145                       |
| 2                     | 2.375                     | ± .006              | .154                       |
| 2-1/2                 | 2.875                     | ± .007              | .203                       |
| 3                     | 3.500                     | ± .008              | .216                       |
| 4                     | 4.500                     | ± .009              | .237                       |
| 5                     | 5.563                     | ± .010              | .258                       |
| 6                     | 6.625                     | ± .011              | .280                       |
| 8                     | 8.625                     | ± .015              | .322                       |
| 10                    | 10.750                    | ± .015              | .365                       |
| 12                    | 12.750                    | ± .015              | .408                       |

**SCHEDULE 40 SOCKET DIMENSIONS  
 ASTM D 2466**



| Nominal Size In. | Diameter   |          |             | Socket Length Minimum C |
|------------------|------------|----------|-------------|-------------------------|
|                  | Entrance A | Bottom B | Tolerance A |                         |
| 1/8              | .417       | .401     | ± .004      | .500                    |
| 1/4              | .552       | .536     | ± .004      | .500                    |
| 3/8              | .687       | .671     | ± .004      | .594                    |
| 1/2              | .848       | .836     | ± .004      | .688                    |
| 3/4              | 1.058      | 1.046    | ± .004      | .719                    |
| 1                | 1.325      | 1.310    | ± .005      | .875                    |
| 1-1/4            | 1.670      | 1.655    | ± .005      | .938                    |
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| 8                | 8.655      | 8.610    | ± .015      | 4.000                   |
| 10               | 10.780     | 10.735   | ± .015      | 5.000                   |
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 TAPER PIPE THREADS (NPT) ANSI  
 B1.20.1, ASTM F 1498**



| Nominal Size In. | Threads Per Inch. | Effective Thread Length L | Pitch Of Thread P |
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| 1/8              | 27                | .2639                     | .03704            |
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| 3/8              | 18                | .4078                     | .05556            |
| 1/2              | 14                | .5337                     | .07143            |
| 3/4              | 14                | .5457                     | .07143            |
| 1                | 11-1/2            | .6828                     | .08696            |
| 1-1/4            | 11-1/2            | .7068                     | .08696            |
| 1-1/2            | 11-1/2            | .7235                     | .08696            |
| 2                | 11-1/2            | .7565                     | .08696            |
| 2-1/2            | 8                 | 1.1375                    | .12500            |
| 3                | 8                 | 1.2000                    | .12500            |
| 4                | 8                 | 1.3000                    | .12500            |
| 5                | 8                 | 1.4063                    | .12500            |
| 6                | 8                 | 1.5125                    | .12500            |
| 8                | 8                 | 1.7125                    | .12500            |

Molded Schedule 40 products are manufactured to ASTM D 2466 for use with pipe manufactured to ASTM D 1785. Certain products carry reduced pressure handling capability and have maximum internal pressure ratings at 73°F noted.

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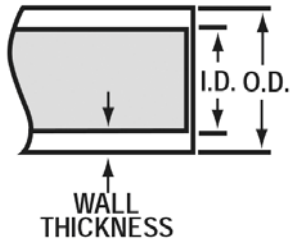




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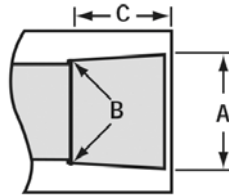
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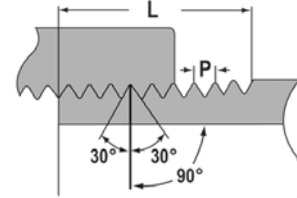
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All specified Schedule 40 products are manufactured from materials certified by NSF® for use in potable water service.

# Schedule 40 Fittings Technical

## Schedule 40 Fittings Dimensions & Information



### Injection Molded Dimension References:

- G** = (LAYING LENGTH) Intersection of center lines to bottom of socket/thread; 90° elbows, tees, crosses;  $\pm 1/32$  inch.
- H** = Intersection of center lines to face of fitting; 90° elbows tees, crosses;  $\pm 1/32$  inch.
- J** = Intersection of center lines to bottom of socket/thread; 45° elbows;  $\pm 1/32$  inch

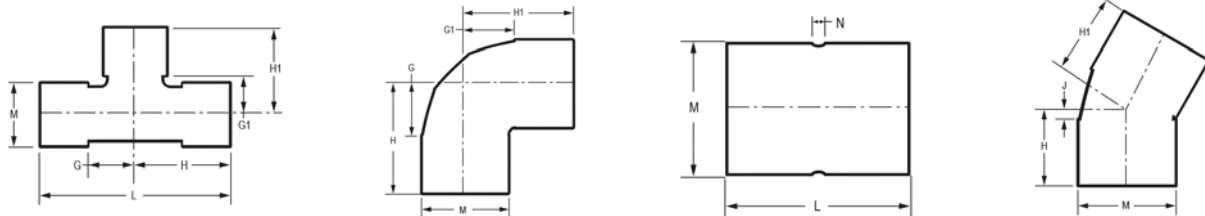
- L** = Overall length of fittings;  $\pm 1/16$  inch.
- M** = Outside diameter of socket/thread hub;  $\pm 1/16$  inch.
- N** = Socket bottom to socket bottom; couplings;  $\pm 1/16$  inch.
- W** = Height of cap;  $\pm 1/16$  inch.

### Fabricated Dimension References:

- G** = (LAYING LENGTH) Intersection of center lines to bottom of socket/thread; 90° elbows, tees, crosses;  $\pm 1/4$  inch; 14" & larger  $\pm 1/2$  inch.
- H** = Intersection of center lines to face of fitting; 90° elbows  $\pm 1/4$  inch, 14" & larger  $\pm 3/4$  inch; wyes  $\pm 1/2$  inch; tees, crosses  $\pm 1/4$  inch; 14" larger  $\pm 1/2$  inch.
- J** = Intersection of center lines to bottom of socket/thread; 45° elbows;  $\pm 1/4$  inch; 14" & larger  $\pm 1/2$  inch.

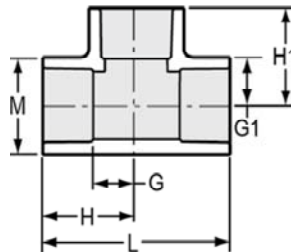
- L** = Overall length of fittings;  $\pm 1/2$  inch.; wyes  $\pm 1$  inch; 14" & larger  $\pm 1$  inch.
- M** = Outside diameter of socket/thread hub;  $\pm 1/4$  inch.
- N** = Socket bottom to socket bottom; couplings;  $\pm 1/2$  inch.
- W** = Height of cap;  $\pm 1/4$  inch.

### Typical Fabricated Dimension References



### Tee

Socket x Socket x Socket



| Part Number | Size  | G       | G1      | H        | H1       | L        | M        | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|----------|----------|----------|----------|--------------------|
| 401-003     | 3/8   | 3/8     | 3/8     | 1- 1/8   | 1- 1/8   | 2- 1/4   | 29/32    | .03                |
| 401-005     | 1/2   | 1/2     | 1/2     | 1- 1/4   | 1- 1/4   | 2- 1/2   | 1- 3/32  | .06                |
| 401-007     | 3/4   | 9/16    | 9/16    | 1- 9/16  | 1- 9/16  | 3- 1/8   | 1- 5/16  | .09                |
| 401-010     | 1     | 11/16   | 11/16   | 1- 3/4   | 1- 3/4   | 3- 1/2   | 1- 5/8   | .15                |
| 401-012     | 1-1/4 | 7/8     | 7/8     | 2- 1/8   | 2- 1/8   | 4- 1/4   | 2        | .25                |
| 401-015     | 1-1/2 | 1-1/8   | 1-1/8   | 2-3/8    | 2-3/8    | 4-3/4    | 2- 1/4   | .33                |
| 401-020     | 2     | 1- 3/8  | 1- 3/8  | 2- 3/4   | 2- 3/4   | 5- 1/2   | 2- 3/4   | .50                |
| 401-025     | 2-1/2 | 1-21/32 | 1-21/32 | 3-13/32  | 3-13/32  | 6-13/16  | 3-5/16   | .96                |
| 401-030     | 3     | 1-15/16 | 1-15/16 | 3-27/32  | 3-27/32  | 7-11/16  | 4        | 1.44               |
| 401-040     | 4     | 2-7/16  | 2-7/16  | 4- 7/16  | 4- 7/16  | 8- 7/8   | 5- 1/32  | 2.34               |
| 401-050     | 5     | 3       | 3       | 6-1/32   | 6-1/32   | 12-1/16  | 6- 5/32  | 4.58               |
| 401-060     | 6     | 3- 5/8  | 3- 5/8  | 6-21/32  | 6-21/32  | 13- 5/16 | 7- 9/32  | 5.89               |
| 401-080     | 8     | 4- 1/2  | 4- 1/2  | 8-17/32  | 8-17/32  | 17- 1/16 | 9-11/32  | 11.57              |
| 401-100     | 10    | 5-13/16 | 5-13/16 | 10-27/32 | 10-27/32 | 21-11/16 | 11-5/8   | 24.00              |
| 401-100F*   | 10    | 9- 7/8  | 9- 3/8  | 15- 1/8  | 14- 5/8  | 30- 1/4  | 11- 1/2  | 36.41              |
| 401-120     | 12    | 6-15/16 | 6-15/16 | 12-31/32 | 12-31/32 | 25-15/16 | 13-11/16 | 37.29              |



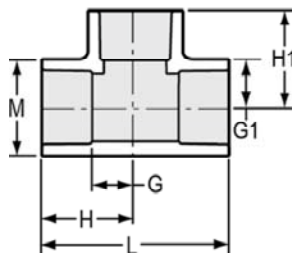
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#### Tee

Socket x Socket x Socket

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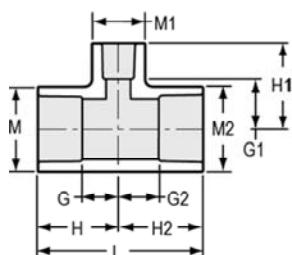


| Part Number | Size | G       | G1       | H       | H1       | L       | M        | Approx. Wt. (Lbs.) |
|-------------|------|---------|----------|---------|----------|---------|----------|--------------------|
| 401-120F*   | 12   | 10- 3/4 | 10- 3/16 | 17      | 16- 7/16 | 34      | 13- 9/16 | 56.36              |
| 401-140     | 14   | 7-1/16  | 7-1/16   | 14-1/16 | 14-1/16  | 28-1/8  | 15-5/8   | 61.75              |
| 401-140F*   | 14   | 11- 3/8 | 11       | 18- 3/8 | 18       | 36- 3/4 | 14- 7/8  | 73.73              |
| 401-160F*   | 16   | 15      | 12- 7/8  | 23      | 20- 7/8  | 46      | 17       | 106.38             |
| 401-180F*   | 18   | 15- 7/8 | 13- 3/8  | 24- 7/8 | 22- 3/8  | 49- 3/4 | 19- 1/8  | 156.10             |
| 401-200F*   | 20   | 18- 1/4 | 15-7/16  | 28- 1/4 | 25-7/16  | 56- 1/2 | 21- 3/16 | 206.74             |
| 401-240F*   | 24   | 21- 1/8 | 17- 1/2  | 33- 1/8 | 29- 1/2  | 66- 1/4 | 25- 3/8  | 337.03             |

\* Fabricated

#### Tee - Reducing

Socket x Socket x Socket



| Part Number | Size        | G       | G1      | G2      | H       | H1      | H2      | L       | M       | M1      | M2      | Approx. Wt. (Lbs.) |
|-------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------------|
| 401-053     | 1/2X3/8     | 9/16    | 1/2     | 9/16    | 2- 1/32 | 1- 3/4  | 2- 1/32 | 4- 1/16 | 29/32   | 1-1/8   | 29/32   | .08                |
| 401-074     | 1/2X3/4     | 9/16    | 17/32   | 9/16    | 1- 5/16 | 1-17/32 | 1- 5/16 | 2- 5/8  | 1-3/32  | 11-9/32 | 1-3/32  | .07                |
| 401-075     | 1/2X1       | 23/32   | 9/16    | 23/32   | 1-15/32 | 1-11/16 | 1-15/32 | 2-15/16 | 1-3/32  | 1- 5/8  | 1-3/32  | .10                |
| 401-094     | 3/4X1/2X1/2 | 17/32   | 21/32   | 17/32   | 1-17/32 | 1-13/32 | 1- 9/32 | 2-13/16 | 1- 5/16 | 1- 3/32 | 1- 3/32 | .08                |
| 401-095     | 3/4X1/2X3/4 | 13/16   | 21/32   | 21/32   | 1-13/16 | 1-15/32 | 1-13/32 | 3-7/32  | 1- 5/16 | 1-5/16  | 1- 1/16 | .10                |
| 401-101     | 3/4X1/2     | 1-7/32  | 5/8     | 1-7/32  | 1- 7/16 | 1- 3/8  | 1- 7/16 | 2-7/8   | 1- 5/16 | 1-3/32  | 1- 5/16 | .08                |
| D401-101    | 3/4X1/2     | 9/16    | 5/8     | 9/16    | 1-9/16  | 1-7/8   | 1-9/16  | 3-1/8   | 1- 5/16 | 1- 3/32 | 1- 5/16 | .10                |
| 401-102     | 3/4X1       | 23/32   | 19/32   | 23/32   | 1-21/32 | 1-21/32 | 1-21/32 | 3- 5/16 | 1- 5/16 | 1- 5/8  | 1- 5/16 | .11                |
| 401-122     | 1X1/2X1     | 3/4     | 3/4     | 27/32   | 1-25/32 | 1-25/32 | 1-19/32 | 3-3/8   | 1- 5/8  | 1- 5/8  | 1- 3/32 | .15                |
| 401-124     | 1X3/4X1/2   | 5/8     | 23/32   | 9/16    | 1-21/32 | 1-15/32 | 1- 1/2  | 3- 5/32 | 1- 5/8  | 1- 3/32 | 1- 5/16 | .11                |
| 401-125     | 1X3/4X3/4   | 21/32   | 13/16   | 21/32   | 1-25/32 | 1-13/16 | 1-21/32 | 3- 7/16 | 1-19/32 | 1- 5/16 | 1- 5/16 | .15                |
| 401-126     | 1X3/4X1     | 13/16   | 13/16   | 13/16   | 1-15/16 | 1-15/16 | 1-13/16 | 3- 3/4  | 1- 5/8  | 1- 5/8  | 1- 5/16 | .16                |
| 401-130     | 1X1/2       | 17/32   | 25/32   | 17/32   | 1-19/32 | 1-17/32 | 1-19/32 | 3-5/32  | 1- 5/8  | 1-3/32  | 1- 5/8  | .12                |
| D401-130    | 1X1/2       | 11/16   | 25/32   | 11/16   | 1-3/4   | 2- 1/32 | 1-3/4   | 3-1/2   | 1- 5/8  | 1-3/32  | 1- 5/8  | .15                |
| 401-131     | 1X3/4       | 19/32   | 3/4     | 19/32   | 1-21/32 | 1-21/32 | 1-21/32 | 3-5/16  | 1- 5/8  | 1- 5/16 | 1- 5/8  | .13                |
| 401-132     | 1X1-1/4     | 1       | 13/16   | 1       | 2-1/8   | 2-1/16  | 2-1/8   | 4-1/4   | 1- 5/8  | 2       | 1- 5/8  | .21                |
| 401-133     | 1X1-1/2     | 1- 1/8  | 13/16   | 1- 1/8  | 2- 1/4  | 2-1/8   | 2- 1/4  | 4-1/2   | 1- 5/8  | 2- 1/4  | 1- 5/8  | .25                |
| 401-134     | 1X2         | 1- 7/16 | 13/16   | 1- 7/16 | 2- 1/2  | 2-3/16  | 2- 1/2  | 5       | 1- 5/8  | 2- 3/4  | 1- 5/8  | .28                |
| 401-156     | 1-1/4X1X1/2 | 11/16   | 1       | 11/16   | 1-15/16 | 1- 3/4  | 1-3/4   | 3-11/16 | 2       | 1-3/32  | 1- 5/8  | .17                |
| 401-157     | 1-1/4X1X3/4 | 25/32   | 1- 1/16 | 25/32   | 2- 1/32 | 2       | 1-27/32 | 3- 7/8  | 2       | 1-11/32 | 1- 5/8  | .20                |
| 401-158     | 1-1/4X1X1   | 29/32   | 1- 1/16 | 29/32   | 2- 5/32 | 2-1/8   | 1-15/16 | 4-3/32  | 2       | 1-5/8   | 1- 5/8  | .22                |
| 401-166     | 1-1/4X1/2   | 17/32   | 1       | 17/32   | 1-25/32 | 1-3/4   | 1-25/32 | 3- 9/16 | 1-31/32 | 1- 3/32 | 1-31/32 | .18                |

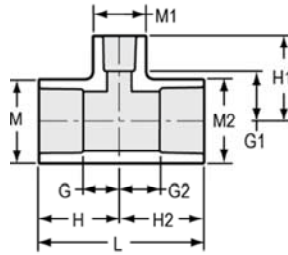
Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



**Tee - Reducing**

Socket x Socket x Socket

(Continued)



| Part Number          | Size            | G       | G1      | G2      | H       | H1      | H2      | L       | M       | M1      | M2      | Approx. Wt.<br>(Lbs.) |
|----------------------|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------------------|
| D401-166             | 1-1/4X1/2       | 23/32   | 1       | 23/32   | 1-31/32 | 2-7/32  | 1-31/32 | 3-15/16 | 2       | 1-3/32  | 2       | .21                   |
| 401-167              | 1-1/4X3/4       | 21/32   | 29/32   | 21/32   | 1-29/32 | 1-29/32 | 1-29/32 | 3-13/16 | 2       | 1-11/32 | 2       | .19                   |
| 401-168              | 1-1/4X1         | 13/16   | 1       | 13/16   | 1-15/16 | 2       | 1-15/16 | 3-7/8   | 2       | 1-5/8   | 2       | .21                   |
| 401-169              | 1-1/4X1-1/2     | 1-3/32  | 1       | 1-3/32  | 2-11/32 | 2-5/16  | 2-11/32 | 4-11/16 | 2       | 2-1/4   | 2       | .30                   |
| 401-170              | 1-1/4X2         | 1-3/8   | 1       | 1-3/8   | 2-5/8   | 2-3/8   | 2-5/8   | 5-1/4   | 2       | 2-3/4   | 2       | .38                   |
| 401-199              | 1-1/2X1-1/4X1/2 | 11/16   | 1-1/8   | 11/16   | 2       | 1-7/8   | 1-15/16 | 3-15/16 | 2-1/4   | 1-3/32  | 2       | .21                   |
| 401-201              | 1-1/2X1-1/4X3/4 | 21/32   | 1-5/16  | 21/32   | 1-31/32 | 2-1/8   | 1-29/32 | 3-7/8   | 2-1/4   | 1-5/16  | 2       | .25                   |
| 401-202              | 1-1/2X1-1/4X1   | 13/16   | 1-1/8   | 13/16   | 2-1/8   | 2-1/4   | 2-1/16  | 4-3/16  | 2-1/4   | 1-5/8   | 2       | .28                   |
| 401-209              | 1-1/2X1/2       | 17/32   | 1-3/32  | 17/32   | 1-27/32 | 1-27/32 | 1-27/32 | 3-11/16 | 2-1/4   | 1-3/32  | 2-1/4   | .22                   |
| D401-209             | 1-1/2X1/2       | 17/32   | 1-1/8   | 17/32   | 1-27/32 | 2-3/8   | 1-27/32 | 3-11/16 | 2-1/4   | 1-3/32  | 2-1/4   | .22                   |
| 401-210              | 1-1/2X3/4       | 21/32   | 1-1/8   | 21/32   | 1-31/32 | 2-1/8   | 1-31/32 | 3-15/16 | 2-1/4   | 1-5/16  | 2-1/4   | .24                   |
| 401-211              | 1-1/2X1         | 1-3/16  | 1-1/8   | 13/16   | 2-1/8   | 2-1/4   | 2-1/8   | 4-1/4   | 2-1/4   | 1-5/8   | 2-1/4   | .27                   |
| 401-212              | 1-1/2X1-1/4     | 1       | 1-1/8   | 1       | 2-5/16  | 2-3/8   | 2-5/16  | 4-5/8   | 2-1/4   | 2       | 2-1/4   | .31                   |
| 401-213              | 1-1/2X2         | 1-5/16  | 1-1/8   | 1-5/16  | 2-5/8   | 2-9/16  | 2-5/8   | 5-1/4   | 2-1/4   | 2-3/4   | 2-1/4   | .39                   |
| 401-214              | 1-1/2X2-1/2     | 1-21/32 | 1-1/8   | 1-21/32 | 2-31/32 | 2-7/8   | 2-31/32 | 5-15/16 | 2-1/4   | 3-11/32 | 2-1/4   | .58                   |
| 401-233              | 2X1X2           | 1-1/4   | 1-1/4   | 1-1/4   | 2-5/8   | 2-5/8   | 2-3/8   | 5       | 2-3/4   | 2-3/4   | 1-5/8   | .40                   |
| 401-238              | 2X1-1/2X3/4     | 21/32   | 1-3/8   | 21/32   | 2-1/32  | 2-3/8   | 1-31/32 | 4       | 2-3/4   | 1-11/32 | 2-1/4   | .31                   |
| 401-239              | 2X1-1/2X1       | 13/16   | 1-3/8   | 13/16   | 2-3/16  | 2-1/2   | 2-1/8   | 4-5/16  | 2-3/4   | 1-5/8   | 2-1/4   | .36                   |
| 401-241              | 2X1-1/2X1-1/2   | 1       | 1-9/32  | 1       | 2-13/32 | 2-9/16  | 2-5/16  | 4-23/32 | 2-3/4   | 2-1/4   | 2-1/4   | .37                   |
| 401-247              | 2X1/2           | 9/16    | 1-11/32 | 9/16    | 1-15/16 | 2-3/32  | 1-15/16 | 3-7/8   | 2-3/4   | 1-3/32  | 2-3/4   | .32                   |
| D401-247             | 2X1/2           | 9/16    | 1-9/32  | 9/16    | 1-15/16 | 2-17/32 | 1-15/16 | 3-7/8   | 2-23/32 | 1-3/32  | 2-23/32 | .30                   |
| 401-248              | 2X3/4           | 21/32   | 1-3/8   | 21/32   | 2-1/32  | 2-3/8   | 2-1/32  | 4-1/16  | 2-3/4   | 1-11/32 | 2-3/4   | .32                   |
| 401-249              | 2X1             | 25/32   | 1-5/16  | 25/32   | 2-3/16  | 2-1/2   | 2-3/16  | 4-11/32 | 2-23/32 | 1-5/8   | 2-23/32 | .36                   |
| 401-250              | 2X1-1/4         | 1       | 1-3/8   | 1       | 2-3/8   | 2-5/8   | 2-3/8   | 4-3/4   | 2-23/32 | 2       | 2-23/32 | .39                   |
| 401-251              | 2X1-1/2         | 1-1/16  | 1-5/16  | 1-1/16  | 2-3/8   | 2-9/16  | 2-3/8   | 4-3/4   | 2-3/4   | 2-1/4   | 2-3/4   | .42                   |
| 401-253 <sup>1</sup> | 2X3             | 2-5/8   | 1-15/16 | 2-5/8   | 4-5/32  | 3-27/32 | 4-5/32  | 8-5/16  | 4       | 4       | 4       | 2.38                  |
| 401-254 <sup>1</sup> | 2X4             | 3-7/16  | 2-7/16  | 3-7/16  | 4-27/32 | 4-7/16  | 4-27/32 | 9-11/16 | 5-1/32  | 5-1/32  | 5-1/32  | 4.00                  |
| 401-257              | 2X1-1/2X2       | 1-3/8   | 1-3/8   | 1-3/8   | 2-3/4   | 2-3/4   | 2-11/16 | 5-7/16  | 2-3/4   | 2-3/4   | 2-1/4   | .47                   |
| 401-287              | 2-1/2X1/2       | 25/32   | 1-1/2   | 25/32   | 2-17/32 | 2-1/4   | 2-17/32 | 5-1/16  | 3-11/32 | 1-3/32  | 3-11/32 | .56                   |
| 401-288              | 2-1/2X3/4       | 7/8     | 1-9/16  | 7/8     | 2-21/32 | 2-1/2   | 2-21/32 | 5-5/16  | 3-5/16  | 1-5/16  | 3-5/16  | .59                   |
| 401-289              | 2-1/2X1         | 13/16   | 1-5/8   | 13/16   | 2-13/16 | 2-21/32 | 2-13/16 | 5-5/8   | 3-5/16  | 1-5/8   | 3-5/16  | .64                   |
| 401-290              | 2-1/2X1-1/4     | 1-7/32  | 1-21/32 | 1-7/32  | 2-31/32 | 2-29/32 | 2-31/32 | 5-15/16 | 3-11/32 | 2       | 3-11/32 | .74                   |
| 401-291              | 2-1/2X1-1/2     | 1-7/32  | 1-21/32 | 1-7/32  | 2-31/32 | 2-31/32 | 2-31/32 | 5-15/16 | 3-11/32 | 2-1/4   | 3-11/32 | .69                   |
| 401-292              | 2-1/2X2         | 1-7/16  | 1-21/32 | 1-7/16  | 3-3/16  | 3-1/32  | 3-3/16  | 6-3/8   | 3-5/16  | 2-3/4   | 3-5/16  | .76                   |
| 401-293 <sup>1</sup> | 2-1/2X3         | 2-3/8   | 1-15/16 | 2-3/8   | 4-5/32  | 3-27/32 | 4-5/32  | 8-5/16  | 4       | 4       | 4       | 2.19                  |
| 401-294 <sup>1</sup> | 2-1/2X4         | 2-31/32 | 2-7/16  | 2-31/32 | 4-3/4   | 4-7/16  | 4-3/4   | 9-1/2   | 5-1/32  | 5-1/32  | 5-1/32  | 3.85                  |
| 401-333              | 3X1/2           | 11/16   | 1-13/16 | 11/16   | 2-19/32 | 2-9/16  | 2-19/32 | 5-3/16  | 3-31/32 | 1-3/32  | 3-31/32 | .70                   |
| 401-334              | 3X3/4           | 25/32   | 2       | 25/32   | 2-21/32 | 3       | 2-21/32 | 5-5/16  | 4       | 1-11/32 | 4       | .84                   |
| 401-335              | 3X1             | 29/32   | 1-13/16 | 29/32   | 2-13/16 | 2-15/16 | 2-13/16 | 5-19/32 | 3-31/32 | 1-19/32 | 3-31/32 | .83                   |
| 401-336              | 3X1-1/4         | 1-3/32  | 2       | 1-3/32  | 3       | 3-1/4   | 3       | 6       | 4       | 2       | 4       | .92                   |
| 401-337              | 3X1-1/2         | 1-7/32  | 1-13/16 | 1-7/32  | 3-3/32  | 3-1/8   | 3-3/32  | 6-3/16  | 3-31/32 | 2-7/32  | 3-31/32 | .98                   |
| 401-338              | 3X2             | 1-15/32 | 1-13/16 | 1-15/32 | 3-11/32 | 3-3/16  | 3-11/32 | 6-11/16 | 3-31/32 | 2-23/32 | 3-31/32 | 1.04                  |
| 401-339              | 3X2-1/2         | 1-3/4   | 1-31/32 | 1-3/4   | 3-5/8   | 3-3/4   | 3-5/8   | 7-1/4   | 4-3/16  | 3-17/32 | 4-3/16  | 1.91                  |
| 401-342              | 3X4             | 2-5/8   | 2       | 2-5/8   | 4-1/2   | 4       | 4-1/2   | 9       | 4       | 5-1/32  | 4       | 1.78                  |

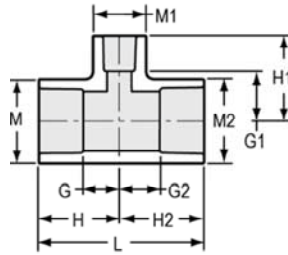


Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**

**Tee - Reducing**

Socket x Socket x Socket

(Continued)



| Part Number           | Size     | G        | G1      | G2       | H        | H1      | H2       | L        | M       | M1      | M2      | Approx. Wt.<br>(Lbs.) |
|-----------------------|----------|----------|---------|----------|----------|---------|----------|----------|---------|---------|---------|-----------------------|
| 401-344 <sup>1</sup>  | 3X6      | 5-9/32   | 3-5/8   | 5-9/32   | 7-3/16   | 6-21/32 | 7-3/16   | 14-3/8   | 7-1/2   | 7- 1/4  | 7-1/2   | 10.33                 |
| 401-416               | 4X3/4    | 25/32    | 2-5/16  | 25/32    | 2-13/16  | 3-5/16  | 2-13/16  | 5- 5/8   | 5       | 1-9/32  | 5       | 1.01                  |
| 401-417               | 4X1      | 13/16    | 2-19/32 | 13/16    | 2-13/16  | 3-21/32 | 2-13/16  | 5-5/8    | 5- 1/32 | 1-5/8   | 5- 1/32 | 1.20                  |
| 401-418               | 4X1-1/4  | 1- 1/16  | 2-5/16  | 1- 1/16  | 3- 3/32  | 3-9/16  | 3- 3/32  | 6- 3/16  | 5       | 1-31/32 | 5       | 1.31                  |
| 401-419               | 4X1-1/2  | 1- 3/16  | 2-1/2   | 1- 3/16  | 3-7/32   | 3-13/16 | 3-7/32   | 6-7/16   | 5-1/32  | 2- 1/4  | 5-1/32  | 1.34                  |
| 401-420               | 4X2      | 1-13/32  | 2-17/32 | 1-13/32  | 3- 7/16  | 3-29/32 | 3- 7/16  | 6- 7/8   | 5       | 2-23/32 | 5       | 1.55                  |
| 401-421 <sup>1</sup>  | 4X2-1/2  | 2-1/16   | 3-1/16  | 2-1/16   | 4- 3/32  | 4-27/32 | 4- 3/32  | 8-3/16   | 5- 5/32 | 4- 1/16 | 5- 5/32 | 2.69                  |
| 401-422               | 4X3      | 2- 1/32  | 2- 5/8  | 2- 1/32  | 4- 3/32  | 4- 1/2  | 4- 3/32  | 8- 5/32  | 5- 5/32 | 4- 1/16 | 5- 5/32 | 2.31                  |
| 401-426 <sup>1</sup>  | 4X6      | 4-29/32  | 3-5/8   | 4-29/32  | 7-5/32   | 6-21/32 | 6-5/32   | 14-5/16  | 7       | 7-1/4   | 7       | 10.08                 |
| 401-428 <sup>1</sup>  | 4X8      | 7        | 4- 1/2  | 7        | 9-1/32   | 8-17/32 | 9-1/32   | 18-1/16  | 9-3/8   | 9-3/8   | 9-3/8   | 20.10                 |
| 401-486 <sup>1</sup>  | 5X2      | 1-3/8    | 3-1/16  | 1-3/8    | 4-3/8    | 4-7/16  | 4-3/8    | 8-3/4    | 6- 1/8  | 2-3/4   | 6- 1/8  | 2.43                  |
| 401-487 <sup>1</sup>  | 5X2-1/2  | 2        | 3- 5/8  | 2        | 5- 1/32  | 5- 3/8  | 5- 1/32  | 10- 1/16 | 6-1/8   | 4       | 6-1/8   | 3.48                  |
| 401-488               | 5X3      | 2        | 3- 3/16 | 2        | 5- 1/32  | 5- 1/16 | 5- 1/32  | 10- 1/16 | 6-1/8   | 4- 1/32 | 6-1/8   | 3.10                  |
| 401-490               | 5X4      | 2- 1/2   | 3-1/32  | 2- 1/2   | 5- 9/16  | 5-1/16  | 5- 9/16  | 11- 1/8  | 6-1/8   | 5- 1/32 | 6-1/8   | 3.59                  |
| 401-526 <sup>1</sup>  | 6X1-1/4  | 1-13/32  | 4       | 1-13/32  | 4-7/16   | 5-1/4   | 4-7/16   | 8-7/8    | 7- 1/4  | 2- 3/4  | 7- 1/4  | 3.45                  |
| 401-527 <sup>1</sup>  | 6X1-1/2  | 1-13/32  | 3-15/16 | 1-13/32  | 4-7/16   | 5-1/4   | 4-7/16   | 8-7/8    | 7- 1/4  | 2-3/4   | 7- 1/4  | 3.34                  |
| 401-528               | 6X2      | 1-13/32  | 3- 5/8  | 1-13/32  | 4-7/16   | 5       | 4-7/16   | 8-7/8    | 7- 1/4  | 2- 3/4  | 7- 1/4  | 3.21                  |
| 401-529 <sup>1</sup>  | 6X2-1/2  | 1-31/32  | 4-1/16  | 1-31/32  | 5        | 5-27/32 | 5        | 10       | 7- 1/4  | 4- 1/32 | 7- 1/4  | 4.25                  |
| 401-530               | 6X3      | 1-31/32  | 3- 5/8  | 1-31/32  | 5        | 5-17/32 | 5        | 10       | 7- 1/4  | 4-1/32  | 7- 1/4  | 3.88                  |
| 401-532               | 6X4      | 2-9/16   | 3- 5/8  | 2-9/16   | 5-19/32  | 5-21/32 | 5-19/32  | 11-3/16  | 7-1/4   | 5-1/32  | 7-1/4   | 4.40                  |
| 401-533 <sup>1</sup>  | 6X5      | 3-5/8    | 4-5/32  | 3-5/8    | 6-21/32  | 7-3/16  | 6-21/32  | 13-5/16  | 7-1/4   | 7-7/16  | 7-1/4   | 7.84                  |
| 401-535 <sup>1</sup>  | 6X8      | 5-15/16  | 4-1/2   | 5-15/16  | 8-15/16  | 8-9/16  | 8-15/16  | 17-7/8   | 9-19/32 | 9-11/32 | 9-19/32 | 19.55                 |
| 401-537 <sup>1</sup>  | 6X10     | 8-1/4    | 5-13/16 | 8-1/4    | 11-1/4   | 10-7/8  | 11-1/4   | 22-1/2   | 11-5/8  | 11-5/8  | 11-5/8  | 37.53                 |
| 401-578 <sup>1</sup>  | 8X2      | 2        | 5-1/2   | 2        | 6-1/32   | 7       | 6-1/32   | 12-1/16  | 9-11/32 | 4       | 9-11/32 | 6.74                  |
| 401-579 <sup>1</sup>  | 8X2-1/2  | 2        | 5-7/32  | 2        | 6-1/32   | 7- 5/16 | 6-1/32   | 12-1/16  | 9-11/32 | 4       | 9-11/32 | 6.65                  |
| 401-580               | 8X3      | 2        | 4-21/32 | 2        | 6- 1/32  | 6-21/32 | 6- 1/32  | 12- 1/16 | 9-5/16  | 4       | 9-5/16  | 6.27                  |
| 401-582               | 8X4      | 2-17/32  | 4-21/32 | 2-17/32  | 6-17/32  | 6-11/16 | 6-17/32  | 13- 1/16 | 9-5/16  | 5-1/32  | 9-5/16  | 7.07                  |
| 401-583 <sup>1</sup>  | 8X5      | 3-5/8    | 5-3/16  | 3-5/8    | 7-11/16  | 8-7/32  | 7-11/16  | 15-3/8   | 9-11/32 | 7-7/16  | 9-11/32 | 10.61                 |
| 401-585               | 8X6      | 3- 5/8   | 4-11/16 | 3- 5/8   | 7-11/16  | 7-3/4   | 7-11/16  | 15-3/8   | 9-11/32 | 7- 1/4  | 9-11/32 | 8.66                  |
| 401-589 <sup>1</sup>  | 8X10     | 7-3/16   | 5-13/16 | 7-3/16   | 11- 7/32 | 10-7/8  | 11- 7/32 | 22- 7/16 | 11-5/8  | 11-5/8  | 11-5/8  | 38.39                 |
| 401-621F <sup>+</sup> | 10X2     | 4- 7/8   | 7- 1/4  | 4- 7/8   | 10- 1/8  | 9       | 10- 1/8  | 20- 1/4  | 11- 1/2 | 2-11/16 | 11- 1/2 | 19.60                 |
| 401-622F <sup>+</sup> | 10X2-1/2 | 5- 5/8   | 7- 3/4  | 5- 5/8   | 10- 7/8  | 9- 3/4  | 10- 7/8  | 21- 3/4  | 11- 1/2 | 3- 1/4  | 11- 1/2 | 20.26                 |
| 401-623 <sup>1</sup>  | 10X3     | 3-23/32  | 7-1/2   | 3-25/32  | 9- 3/8   | 9-3/8   | 9- 3/8   | 18- 3/4  | 12-1/16 | 7-9/16  | 12-1/16 | 26.22                 |
| 401-624 <sup>1</sup>  | 10X4     | 3-25/32  | 7- 3/8  | 3-25/32  | 9-3/8    | 9- 3/8  | 9-3/8    | 18-3/4   | 12-1/16 | 7-9/16  | 12-1/16 | 26.10                 |
| 401-625F <sup>+</sup> | 10X5     | 6-7/8    | 8-1/4   | 6-7/8    | 12-1/8   | 11-1/4  | 12-1/8   | 24-1/4   | 11-1/2  | 6-1/16  | 11-1/2  | 24.11                 |
| 401-626               | 10X6     | 3-25/32  | 5-13/16 | 3-25/32  | 9-3/8    | 8-7/8   | 9-3/8    | 18-3/4   | 12-1/16 | 7-9/16  | 12-1/16 | 24.00                 |
| 401-626F <sup>+</sup> | 10X6     | 6- 7/8   | 8- 3/8  | 6- 7/8   | 12- 1/8  | 11- 5/8 | 12- 1/8  | 24- 1/4  | 11- 1/2 | 7- 3/16 | 11- 1/2 | 26.47                 |
| 401-628 <sup>1</sup>  | 10X8     | 5-13/16  | 7-5/32  | 5-13/16  | 10- 7/8  | 11-3/16 | 10- 7/8  | 21-3/4   | 11-5/8  | 11-5/8  | 11-5/8  | 31.98                 |
| 401-628F <sup>+</sup> | 10X8     | 8-1/2    | 8-5/16  | 8-1/2    | 13-3/4   | 12-9/16 | 13-3/4   | 27-1/2   | 11-1/2  | 9-1/4   | 11-1/2  | 29.40                 |
| 401-634F <sup>+</sup> | 10X14    | 13-11/16 | 11      | 13-11/16 | 18-11/16 | 18      | 18-11/16 | 37-7/16  | 14-7/8  | 14-7/8  | 14-7/8  | 115.88                |
| 401-636F <sup>+</sup> | 10X16    | 18-5/16  | 12-7/8  | 18-5/16  | 23-5/16  | 20-7/8  | 23-5/16  | 46-11/16 | 17      | 17      | 17      | 185.88                |

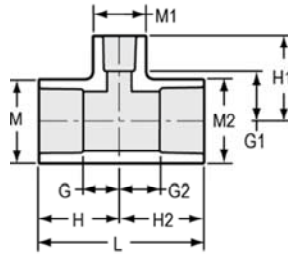
Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



**Tee - Reducing**

Socket x Socket x Socket

(Continued)



| Part Number          | Size     | G       | G1       | G2      | H        | H1       | H2       | L        | M        | M1       | M2       | Approx. Wt.<br>(Lbs.) |
|----------------------|----------|---------|----------|---------|----------|----------|----------|----------|----------|----------|----------|-----------------------|
| 401-661F*            | 12X2     | 5- 1/4  | 8- 1/4   | 5- 1/4  | 11- 1/2  | 10       | 11- 1/2  | 23       | 13- 9/16 | 2-11/16  | 13- 9/16 | 25.00                 |
| 401-662F*            | 12X2-1/2 | 5- 3/4  | 8- 3/4   | 5- 3/4  | 12       | 10- 3/4  | 12       | 24       | 13- 9/16 | 3- 1/4   | 13- 9/16 | 28.75                 |
| 401-663F*            | 12X3     | 5- 3/4  | 9        | 5- 3/4  | 12       | 11- 1/4  | 12       | 24       | 13- 9/16 | 3-15/16  | 13- 9/16 | 31.40                 |
| 401-664F*            | 12X4     | 7       | 9- 5/16  | 7       | 13- 1/4  | 11- 9/16 | 13- 1/4  | 26- 1/2  | 13- 9/16 | 5        | 13- 9/16 | 32.40                 |
| 401-665F*            | 12X5     | 7       | 9-1/4    | 7       | 13-1/4   | 12-1/4   | 13-1/4   | 26-1/2   | 13-9/16  | 6-1/16   | 13-9/16  | 34.77                 |
| 401-666 <sup>1</sup> | 12X6     | 4- 7/8  | 8-9/16   | 4- 7/8  | 11-15/32 | 11-9/16  | 11-15/32 | 22-15/16 | 14- 1/4  | 9- 3/4   | 14- 1/4  | 45.29                 |
| 401-668              | 12X8     | 4-7/8   | 7-1/8    | 4-7/8   | 11-15/32 | 11-7/16  | 11-15/32 | 22-15/16 | 14- 1/4  | 9- 3/4   | 14- 1/4  | 41.29                 |
| 401-668F*            | 12X8     | 8-3/4   | 9-5/16   | 8-3/4   | 15       | 13-9/16  | 15       | 30       | 13-9/16  | 9-1/4    | 13-9/16  | 41.26                 |
| 401-670 <sup>1</sup> | 12X10    | 6-15/16 | 8-1/4    | 6-15/16 | 12-15/16 | 13-9/32  | 12-15/16 | 25-7/8   | 13-11/16 | 13-11/16 | 13-11/16 | 49.19                 |
| 401-670F*            | 12X10    | 10- 1/4 | 10- 3/8  | 10- 1/4 | 16- 1/2  | 15- 5/8  | 16- 1/2  | 33       | 13- 9/16 | 11- 1/2  | 13- 9/16 | 48.55                 |
| 401-674F*            | 12X14    | 11-3/8  | 11       | 11-3/8  | 18-3/8   | 18       | 18-3/8   | 36-3/4   | 14-7/8   | 14-7/8   | 14-7/8   | 92.99                 |
| 401-676F*            | 12X16    | 17      | 12-7/8   | 17      | 23       | 20-7/8   | 23       | 46       | 17       | 17       | 17       | 162.09                |
| 401-678F*            | 12X18    | 18-7/8  | 13-3/8   | 18- 7/8 | 24-7/8   | 22-3/8   | 24-7/8   | 49-3/4   | 19- 1/8  | 19- 1/8  | 19- 1/8  | 259.22                |
| 401-691F*            | 14X2     | 5- 7/8  | 8-13/16  | 5- 7/8  | 12- 7/8  | 10- 9/16 | 12- 7/8  | 25- 3/4  | 14- 7/8  | 2-11/16  | 14- 7/8  | 35.50                 |
| 401-693F*            | 14X3     | 6- 1/2  | 9- 9/16  | 6- 1/2  | 13- 1/2  | 11-13/16 | 13- 1/2  | 27       | 14- 7/8  | 3-15/16  | 14- 7/8  | 38.34                 |
| 401-694F*            | 14X4     | 7- 3/8  | 9- 7/8   | 7- 3/8  | 14- 3/8  | 12- 1/8  | 14- 3/8  | 28- 3/4  | 14- 7/8  | 5        | 14- 7/8  | 41.89                 |
| 401-695F*            | 14X5     | 8-3/4   | 9-13/16  | 8-3/4   | 15-3/4   | 12-13/16 | 15-3/4   | 31-1/2   | 14-7/8   | 6-1/16   | 14-7/8   | 42.37                 |
| 401-696F*            | 14X6     | 7- 7/8  | 9-15/16  | 7- 7/8  | 14- 7/8  | 13- 3/16 | 14- 7/8  | 29- 3/4  | 14- 7/8  | 7- 3/16  | 14- 7/8  | 47.56                 |
| 401-698F*            | 14X8     | 8- 7/8  | 9- 7/8   | 8- 7/8  | 15- 7/8  | 14- 1/8  | 15- 7/8  | 31- 3/4  | 14- 7/8  | 9- 1/4   | 14- 7/8  | 54.85                 |
| 401-700 <sup>1</sup> | 14X10    | 7-1/32  | 8-13/16  | 7-1/32  | 14-1/32  | 13-13/16 | 14-1/32  | 28-1/16  | 15-21/32 | 14-9/32  | 15-21/32 | 74.54                 |
| 401-700F*            | 14X10    | 10- 3/8 | 10-15/16 | 10- 3/8 | 17- 3/8  | 16- 3/16 | 17- 3/8  | 34- 3/4  | 14- 7/8  | 11- 1/2  | 14- 7/8  | 62.36                 |
| 401-702              | 14X12    | 7-1/32  | 7-13/32  | 7-1/32  | 14-1/32  | 13-13/32 | 14-1/32  | 28-1/16  | 15-21/32 | 14-9/32  | 15-21/32 | 62.64                 |
| 401-702F*            | 14X12    | 11- 3/8 | 10- 3/4  | 11- 3/8 | 18- 3/8  | 17       | 18- 3/8  | 36- 3/4  | 14- 7/8  | 13- 9/16 | 14- 7/8  | 69.35                 |
| 401-706F*            | 14X16    | 16      | 12-7/8   | 16      | 23       | 20-7/8   | 23       | 46       | 17       | 17       | 17       | 153.43                |
| 401-751F*            | 16X2     | 6- 3/8  | 9- 3/4   | 6- 3/8  | 14- 3/8  | 11- 1/2  | 14- 3/8  | 28- 3/4  | 17       | 2-11/16  | 17       | 52.82                 |
| 401-753F*            | 16X3     | 6- 1/2  | 10- 1/2  | 6- 1/2  | 14- 1/2  | 12- 3/4  | 14- 1/2  | 29       | 17       | 3-15/16  | 17       | 53.24                 |
| 401-754F*            | 16X4     | 8       | 10-13/16 | 8       | 16       | 13- 1/16 | 16       | 32       | 17       | 5        | 17       | 58.89                 |
| 401-756F*            | 16X6     | 9       | 10- 7/8  | 9       | 17       | 14- 1/8  | 17       | 34       | 17       | 7- 3/16  | 17       | 67.52                 |
| 401-758F*            | 16X8     | 10      | 10-13/16 | 10      | 18       | 15- 1/16 | 18       | 36       | 17       | 9- 1/4   | 17       | 74.87                 |
| 401-760F*            | 16X10    | 11      | 11- 7/8  | 11      | 19       | 17- 1/8  | 19       | 38       | 17       | 11- 1/2  | 17       | 80.26                 |
| 401-762F*            | 16X12    | 12      | 11-11/16 | 12      | 20       | 17-15/16 | 20       | 40       | 17       | 13- 9/16 | 17       | 94.46                 |
| 401-764F*            | 16X14    | 13      | 11-15/16 | 13      | 21       | 18-15/16 | 21       | 42       | 17       | 14- 7/8  | 17       | 95.94                 |
| 401-768F*            | 16X18    | 16-7/8  | 13-3/8   | 16-7/8  | 24-7/8   | 22-3/8   | 24-7/8   | 49-3/4   | 19-1/8   | 19-1/8   | 19-1/8   | 203.50                |
| 401-781F*            | 18X2     | 6- 1/4  | 10-11/16 | 6- 1/4  | 15- 1/4  | 12- 7/16 | 15- 1/4  | 30- 1/2  | 19- 1/8  | 2-11/16  | 19- 1/8  | 72.31                 |
| 401-783F*            | 18X3     | 7- 1/4  | 11- 7/16 | 7- 1/4  | 16- 1/4  | 13-11/16 | 16- 1/4  | 32- 1/2  | 19- 1/8  | 3-15/16  | 19- 1/8  | 77.85                 |
| 401-784F*            | 18X4     | 7- 3/4  | 11- 3/4  | 7- 3/4  | 16- 3/4  | 14       | 16- 3/4  | 33- 1/2  | 19- 1/8  | 5        | 19- 1/8  | 81.64                 |
| 401-786F*            | 18X6     | 8- 3/4  | 11-13/16 | 8- 3/4  | 17- 3/4  | 15- 1/16 | 17- 3/4  | 35- 1/2  | 19- 1/8  | 7- 3/16  | 19- 1/8  | 89.35                 |
| 401-788F*            | 18X8     | 9- 3/4  | 11- 3/4  | 9- 3/4  | 18- 3/4  | 16       | 18- 3/4  | 37- 1/2  | 19- 1/8  | 9- 1/4   | 19- 1/8  | 98.31                 |
| 401-790F*            | 18X10    | 10- 3/4 | 12-13/16 | 10- 3/4 | 19- 3/4  | 18- 1/16 | 19- 3/4  | 39- 1/2  | 19- 1/8  | 11- 1/2  | 19- 1/8  | 107.49                |

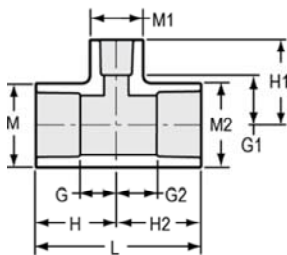


## Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

### Tee - Reducing

Socket x Socket x Socket

(Continued)



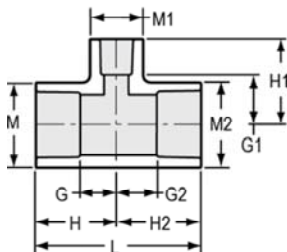
| Part Number           | Size  | G       | G1       | G2      | H       | H1       | H2      | L       | M        | M1       | M2       | Approx. Wt. (Lbs.) |
|-----------------------|-------|---------|----------|---------|---------|----------|---------|---------|----------|----------|----------|--------------------|
| 401-792F <sup>1</sup> | 18X12 | 11- 3/4 | 12- 5/8  | 11- 3/4 | 20- 3/4 | 18- 7/8  | 20- 3/4 | 41- 1/2 | 19- 1/8  | 13- 9/16 | 19- 1/8  | 124.05             |
| 401-794F <sup>1</sup> | 18X14 | 12- 7/8 | 12- 7/8  | 12- 7/8 | 21- 7/8 | 19- 7/8  | 21- 7/8 | 43- 3/4 | 19- 1/8  | 14- 7/8  | 19- 1/8  | 91.37              |
| 401-796F <sup>1</sup> | 18X16 | 13- 7/8 | 13-13/16 | 13- 7/8 | 22- 7/8 | 21-13/16 | 22- 7/8 | 45- 3/4 | 19- 1/8  | 17       | 19- 1/8  | 134.40             |
| 401-811F <sup>1</sup> | 20X2  | 6- 3/4  | 12- 7/16 | 6- 3/4  | 16- 3/4 | 14- 3/16 | 16- 3/4 | 33- 1/2 | 21- 3/16 | 2-11/16  | 21- 3/16 | 88.89              |
| 401-813F <sup>1</sup> | 20X3  | 7- 1/4  | 12- 7/16 | 7- 1/4  | 17- 1/4 | 14-11/16 | 17- 1/4 | 34- 1/2 | 21- 3/16 | 3-15/16  | 21- 3/16 | 93.24              |
| 401-814F <sup>1</sup> | 20X4  | 8- 1/4  | 12- 3/4  | 8- 1/4  | 18- 1/4 | 15       | 18- 1/4 | 36- 1/2 | 21- 3/16 | 5        | 21- 3/16 | 98.01              |
| 401-816F <sup>1</sup> | 20X6  | 9- 1/4  | 12-13/16 | 9- 1/4  | 19- 1/4 | 16- 1/16 | 19- 1/4 | 38- 1/2 | 21- 3/16 | 7- 3/16  | 21- 3/16 | 106.18             |
| 401-818F <sup>1</sup> | 20X8  | 10- 1/4 | 12- 3/4  | 10- 1/4 | 20- 1/4 | 17       | 20- 1/4 | 40- 1/2 | 21- 3/16 | 9- 1/4   | 21- 3/16 | 115.35             |
| 401-820F <sup>1</sup> | 20X10 | 11- 1/4 | 13-13/16 | 11- 1/4 | 21- 1/4 | 19- 1/16 | 21- 1/4 | 42- 1/2 | 21- 3/16 | 11- 1/2  | 21- 3/16 | 128.34             |
| 401-822F <sup>1</sup> | 20X12 | 12- 1/4 | 13- 5/8  | 12- 1/4 | 22- 1/4 | 19- 7/8  | 22- 1/4 | 44- 1/2 | 21- 3/16 | 13- 9/16 | 21- 3/16 | 142.75             |
| 401-824F <sup>1</sup> | 20X14 | 13- 1/4 | 13- 7/8  | 13- 1/4 | 23- 1/4 | 20- 7/8  | 23- 1/4 | 46- 1/2 | 21- 3/16 | 14- 7/8  | 21- 3/16 | 148.52             |
| 401-826F <sup>1</sup> | 20X16 | 14- 1/4 | 14-13/16 | 14- 1/4 | 24- 1/4 | 22-13/16 | 24- 1/4 | 48- 1/2 | 21- 3/16 | 17       | 21- 3/16 | 160.59             |
| 401-828F <sup>1</sup> | 20X18 | 15- 1/4 | 14- 3/8  | 15- 1/4 | 25- 1/4 | 23- 3/8  | 25- 1/4 | 50- 1/2 | 21- 3/16 | 19- 1/8  | 21- 3/16 | 176.98             |
| 401-901F <sup>1</sup> | 24X2  | 8- 1/8  | 14- 5/16 | 8- 1/8  | 20- 1/8 | 16- 1/16 | 20- 1/8 | 40- 1/4 | 25- 3/8  | 2-11/16  | 25-3/8   | 165.75             |
| 401-903F <sup>1</sup> | 24X3  | 8- 5/8  | 14- 5/16 | 8- 5/8  | 20- 5/8 | 16- 9/16 | 20- 5/8 | 41- 1/4 | 25- 3/8  | 3-15/16  | 25-3/8   | 152.09             |
| 401-904F <sup>1</sup> | 24X4  | 9- 1/8  | 14- 5/8  | 9- 1/8  | 21- 1/8 | 16- 7/8  | 21- 1/8 | 42- 1/4 | 25- 3/8  | 5        | 25- 3/8  | 158.05             |
| 401-906F <sup>1</sup> | 24X6  | 10- 1/8 | 14-11/16 | 10- 1/8 | 22- 1/8 | 17-15/16 | 22- 1/8 | 44- 1/4 | 25- 3/8  | 7- 3/16  | 25- 3/8  | 170.12             |
| 401-908F <sup>1</sup> | 24X8  | 11- 1/8 | 14- 5/8  | 11- 1/8 | 23- 1/8 | 18- 7/8  | 23- 1/8 | 46- 1/4 | 25- 3/8  | 9- 1/4   | 25- 3/8  | 183.44             |
| 401-910F <sup>1</sup> | 24X10 | 12- 1/8 | 15-11/16 | 12- 1/8 | 24- 1/8 | 20-15/16 | 24- 1/8 | 48- 1/4 | 25- 3/8  | 11- 1/2  | 25- 3/8  | 214.07             |
| 401-912F <sup>1</sup> | 24X12 | 13- 1/8 | 15- 1/2  | 13- 1/8 | 25- 1/8 | 21- 3/4  | 25- 1/8 | 50- 1/4 | 25- 3/8  | 13- 9/16 | 25- 3/8  | 220.59             |
| 401-914F <sup>1</sup> | 24X14 | 13- 3/4 | 15- 3/4  | 13- 3/4 | 25- 3/4 | 22- 3/4  | 25- 3/4 | 51- 1/2 | 25- 3/8  | 14- 7/8  | 25- 3/8  | 232.53             |
| 401-916F <sup>1</sup> | 24X16 | 14- 3/4 | 16-11/16 | 14- 3/4 | 26- 3/4 | 24-11/16 | 26- 3/4 | 53- 1/2 | 25- 3/8  | 17       | 25- 3/8  | 224.31             |
| 401-918F <sup>1</sup> | 24X18 | 15- 3/4 | 16- 1/4  | 15- 3/4 | 27- 3/4 | 25- 1/4  | 27- 3/4 | 55- 1/2 | 25- 3/8  | 19- 1/8  | 25- 3/8  | 258.48             |
| 401-920F <sup>1</sup> | 24X20 | 16- 3/4 | 17-5/16  | 16- 3/4 | 28- 3/4 | 27-5/16  | 27-5/16 | 57- 1/2 | 25- 3/8  | 21- 3/16 | 25- 3/8  | 280.00             |

<sup>1</sup> Outlet sized with Bushing

\* Fabricated

### Short Socket Tees

Socket Style Sch 40



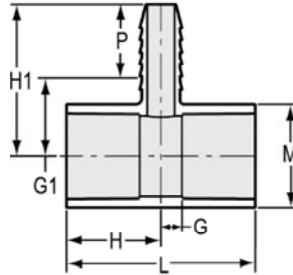
| Part Number | Size      | G     | G1      | G2    | H       | H1     | H2      | L       | M       | M1      | M2      | Approx. Wt. (Lbs.) |
|-------------|-----------|-------|---------|-------|---------|--------|---------|---------|---------|---------|---------|--------------------|
| S401-249    | 2X2X1     | 11/16 | 2- 7/32 | 11/16 | 2- 3/32 | 1- 1/4 | 1-11/32 | 3- 7/16 | 2-23/32 | 1- 5/8  | 2-23/32 | .27                |
| S401-251    | 2x2x1-1/2 | 1     | 1- 1/4  | 31/32 | 2- 3/8  | 2- 3/8 | 1- 5/8  | 4       | 2-23/32 | 2- 7/32 | 2-23/32 | .33                |

Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



**Transition Tee for P.E. Hose  
 Laterals**

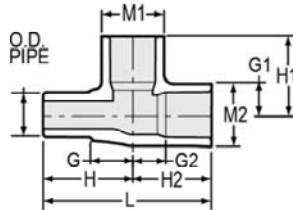
Socket x Insert (.580 I.D.)



| Part Number              | Size    | G     | G1      | H       | H1      | L        | M       | P      | Approx. Wt. (Lbs.) |
|--------------------------|---------|-------|---------|---------|---------|----------|---------|--------|--------------------|
| <a href="#">1102-007</a> | 3/4     | 13/32 | 3/4     | 1-13/32 | 2- 1/4  | 2-13/16  | 1- 5/16 | 1- 1/2 | .08                |
| <a href="#">1102-130</a> | 1X1/2   | 11/32 | 27/32   | 1-15/32 | 2-11/32 | 2-15/16  | 1-5/8   | 1- 1/2 | .11                |
| <a href="#">1102-248</a> | 2X2X3/4 | 15/32 | 1-15/32 | 1-27/32 | 2-31/32 | 3-11/160 | 2-23/32 | 1- 1/2 | .28                |
| <a href="#">1102-250</a> | 2X1-1/4 | 11/16 | 1-1/2   | 2- 1/16 | 3       | 4- 1/8   | 2- 3/4  | 1- 1/2 | .33                |

**Tee - Street**

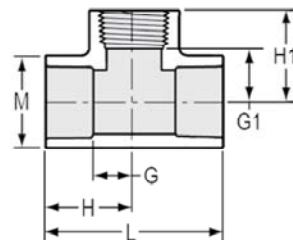
Spigot x Socket x Socket



| Part Number             | Size  | G       | G1     | G2     | H       | H1      | H2      | L       | M1      | M2      | Approx. Wt. (Lbs.) |
|-------------------------|-------|---------|--------|--------|---------|---------|---------|---------|---------|---------|--------------------|
| <a href="#">444-005</a> | 1/2   | 25/32   | 19/32  | 19/32  | 1-11/16 | 1-13/32 | 1-15/32 | 3- 5/32 | 1- 3/16 | 1- 3/16 | .10                |
| <a href="#">444-007</a> | 3/4   | 15/16   | 11/16  | 11/16  | 1-15/16 | 1-11/16 | 1-11/16 | 3- 5/8  | 1-13/32 | 1-13/32 | .15                |
| <a href="#">444-010</a> | 1     | 1-3/32  | 7/8    | 7/8    | 2-7/32  | 2       | 2       | 4- 7/32 | 1- 3/4  | 1- 3/4  | .25                |
| <a href="#">444-012</a> | 1-1/4 | 1-15/16 | 1-1/32 | 1-1/32 | 2-9/16  | 2-9/32  | 2-9/32  | 4-27/32 | 2-1/8   | 2-1/8   | .38                |
| <a href="#">444-015</a> | 1-1/2 | 1-7/16  | 1-3/16 | 1-3/16 | 2-13/16 | 2- 9/16 | 2- 9/16 | 5- 3/8  | 2-3/8   | 2-3/8   | .51                |
| <a href="#">444-020</a> | 2     | 1-23/32 | 1-7/16 | 1-7/16 | 3-1/4   | 2-15/16 | 2-15/16 | 6-3/16  | 2- 7/8  | 2- 7/8  | .78                |

**Tee**

Socket x Socket x Fipt



| Part Number             | Size  | G       | G1      | H       | H1      | L       | M       | Approx. Wt. (Lbs.) |
|-------------------------|-------|---------|---------|---------|---------|---------|---------|--------------------|
| <a href="#">402-003</a> | 3/8   | 7/16    | 1/2     | 1-11/16 | 1- 1/16 | 3- 3/8  | 29/32   | .06                |
| <a href="#">402-005</a> | 1/2   | 1/2     | 1/2     | 1- 1/4  | 1- 7/32 | 2- 1/2  | 1- 3/32 | .06                |
| <a href="#">402-007</a> | 3/4   | 21/32   | 23/32   | 1-21/32 | 1- 7/16 | 3- 9/32 | 1- 5/16 | .10                |
| <a href="#">402-010</a> | 1     | 11/16   | 13/16   | 1-3/4   | 1-11/16 | 3-1/2   | 1- 5/8  | .16                |
| <a href="#">402-012</a> | 1-1/4 | 29/32   | 1- 1/8  | 2- 5/32 | 2- 1/16 | 4- 5/16 | 2       | .29                |
| <a href="#">402-015</a> | 1-1/2 | 1- 1/32 | 1- 1/8  | 2-11/32 | 2- 1/16 | 4-11/16 | 2- 1/4  | .34                |
| <a href="#">402-020</a> | 2     | 1- 5/16 | 1-13/32 | 2- 5/8  | 2-11/32 | 5-1/4   | 2- 3/4  | .49                |
| <a href="#">402-025</a> | 2-1/2 | 1- 1/2  | 1-19/32 | 3- 1/4  | 2-29/32 | 6- 1/2  | 3-11/32 | .95                |

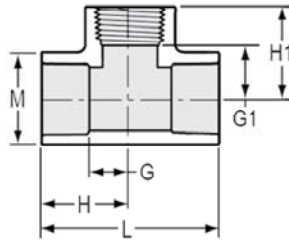


Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**

## Tee

(Continued)

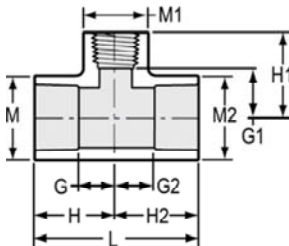
Socket x Socket x Fipt



| Part Number | Size | G       | G1      | H       | H1     | L       | M      | Approx. Wt. (Lbs.) |
|-------------|------|---------|---------|---------|--------|---------|--------|--------------------|
| 402-030     | 3    | 1-13/16 | 1-29/32 | 3-11/16 | 3-5/16 | 7-3/8   | 4      | 1.38               |
| 402-040     | 4    | 2-5/16  | 2-13/32 | 4-11/32 | 3-7/8  | 8-11/16 | 5-1/16 | 2.23               |

## Tee - Reducing

Socket x Socket x Fipt



| Part Number | Size            | G     | G1      | G2    | H       | H1      | H2      | L       | M       | M1      | M2      | Approx. Wt. (Lbs.) |
|-------------|-----------------|-------|---------|-------|---------|---------|---------|---------|---------|---------|---------|--------------------|
| 402-071     | 1/2X1/8         | 9/32  | 17/32   | 9/32  | 1-1/32  | 1       | 1-1/32  | 2-1/16  | 1-3/32  | 9/16    | 1-3/32  | .04                |
| 402-072     | 1/2X1/4         | 3/8   | 17/32   | 3/8   | 1-1/8   | 1-1/8   | 1-1/8   | 2-1/4   | 1-3/32  | 7/8     | 1-3/32  | .05                |
| 402-074     | 1/2X3/4         | 21/32 | 17/32   | 21/32 | 1-13/32 | 1-11/32 | 1-13/32 | 2-13/16 | 1-3/32  | 1-5/16  | 1-3/32  | .08                |
| 402-094     | 3/4X1/2X1/2     | 17/32 |         | 17/32 | 1-17/32 | 1-13/32 | 1-9/32  | 2-13/16 | 1-5/16  | 1-3/32  | 1-3/32  | .09                |
| 402-095     | 3/4X1/2X3/4     | 23/32 | 23/32   | 21/32 | 1-21/32 | 1-7/16  | 1-13/32 | 3-1/16  | 1-5/16  | 1-5/16  | 1-3/32  | .11                |
| 402-097     | 3/4X1/8         | 9/32  | 21/32   | 9/32  | 1-7/32  | 1-3/32  | 1-7/32  | 2-7/16  | 1-5/16  | 9/16    | 1-5/16  | .06                |
| 402-101     | 3/4X1/2         | 17/32 | 11/16   | 17/32 | 1-17/32 | 1-13/32 | 1-17/32 | 3-3/32  | 1-5/16  | 1-3/32  | 1-5/16  | .09                |
| 402-124     | 1X3/4X1/2       | 17/32 | 13/16   | 17/32 | 1-19/32 | 1-17/32 | 1-15/32 | 3-3/16  | 1-5/8   | 1-3/32  | 1-5/16  | .11                |
| 402-125     | 1X3/4X3/4       | 9/16  | 3/4     | 3/4   | 1-11/16 | 1-17/32 | 1-3/4   | 3-7/16  | 1-19/32 | 1-5/16  | 1-5/16  | .13                |
| 402-130     | 1X1/2           | 1/2   | 13/16   | 1/2   | 1-5/8   | 1-17/32 | 1-5/8   | 3-1/4   | 1-5/8   | 1-1/8   | 1-5/8   | .13                |
| 402-131     | 1X3/4           | 21/32 | 13/16   | 21/32 | 1-25/32 | 1-17/32 | 1-25/32 | 3-9/16  | 1-5/8   | 1-5/16  | 1-5/8   | .15                |
| 402-156     | 1-1/4X1X1/2     | 17/32 | 1-7/32  | 5/8   | 1-25/32 | 1-3/4   | 1-3/4   | 3-17/32 | 2       | 1-3/32  | 1-5/8   | .18                |
| 402-157     | 1-1/4X1X3/4     | 9/16  | 29/32   | 3/4   | 1-13/16 | 1-11/16 | 1-7/8   | 3-11/16 | 2       | 1-5/16  | 1-19/32 | .18                |
| 402-158     | 1-1/4X1X1       | 25/32 | 1-7/32  | 13/16 | 2-1/32  | 2-3/32  | 1-15/16 | 3-31/32 | 2       | 1-5/8   | 1-19/32 | .25                |
| 402-166     | 1-1/4X1/2       | 23/32 | 15/16   | 23/32 | 1-31/32 | 1-11/16 | 1-31/32 | 3-15/16 | 1-31/32 | 1-3/32  | 1-31/32 | .21                |
| 402-167     | 1-1/4X3/4       | 13/16 | 1       | 13/16 | 2-1/16  | 1-23/32 | 2-1/16  | 4-1/8   | 1-31/32 | 1-5/16  | 1-31/32 | .18                |
| 402-168     | 1-1/4X1         | 21/32 | 15/16   | 21/32 | 1-29/32 | 1-13/16 | 1-29/32 | 3-13/16 | 1-31/32 | 1-5/8   | 1-31/32 | .21                |
| 402-199     | 1-1/2X1-1/4X1/2 | 17/32 | 1-1/4   | 5/8   | 1-27/32 | 1-7/8   | 1-7/8   | 3-23/32 | 2-1/4   | 1-3/32  | 2       | .22                |
| 402-201     | 1-1/2X1-1/4X3/4 | 21/32 | 1-13/32 | 21/32 | 1-31/32 | 2-1/8   | 1-29/32 | 3-7/8   | 2-1/4   | 1-11/32 | 2       | .25                |
| 402-202     | 1-1/2X1-1/4X1   | 13/16 | 1-11/32 | 13/16 | 2-1/8   | 2-1/4   | 2-1/16  | 4-3/16  | 2-1/4   | 1-5/8   | 2       | .29                |
| 402-209     | 1-1/2X1/2       | 7/16  | 1-3/32  | 7/16  | 1-3/4   | 1-13/16 | 1-3/4   | 3-1/2   | 2-1/4   | 1-3/32  | 2-1/4   | .20                |
| 402-210     | 1-1/2X3/4       | 21/32 | 1-1/8   | 21/32 | 1-31/32 | 1-27/32 | 1-31/32 | 3-15/16 | 2-1/4   | 1-5/16  | 2-1/4   | .24                |
| 402-211     | 1-1/2X1         | 13/16 | 1-11/32 | 13/16 | 2-1/8   | 2-1/4   | 2-1/8   | 4-1/4   | 2-1/4   | 1-5/8   | 2-1/4   | .26                |
| 402-212     | 1-1/2X1-1/4     | 1     | 1-1/8   | 1     | 2-9/32  | 2-1/16  | 2-9/32  | 4-9/16  | 2-1/4   | 2       | 2-1/4   | .32                |
| 402-238     | 2X1-1/2X3/4     | 21/32 | 1-21/32 | 21/32 | 2-1/32  | 2-3/8   | 1-31/32 | 4       | 2-3/4   | 1-11/32 | 2-1/4   | .31                |
| 402-239     | 2X1-1/2X1       | 13/16 | 1-5/8   | 13/16 | 2-3/16  | 2-1/2   | 2-1/8   | 4-5/16  | 2-3/4   | 1-5/8   | 2-1/4   | .37                |
| 402-247     | 2X1/2           | 21/32 | 1-3/8   | 21/32 | 2-1/32  | 2-1/8   | 2-1/32  | 4-1/16  | 2-23/32 | 1-1/8   | 2-23/32 | .33                |
| 402-248     | 2X3/4           | 21/32 | 1-3/8   | 21/32 | 2-1/32  | 2-3/32  | 2-1/32  | 4-1/16  | 2-23/32 | 1-5/16  | 2-23/32 | .32                |
| 402-249     | 2X1             | 13/16 | 1-11/32 | 13/16 | 2-3/16  | 2-1/4   | 2-3/16  | 4-3/8   | 2-23/32 | 1-5/8   | 2-23/32 | .33                |

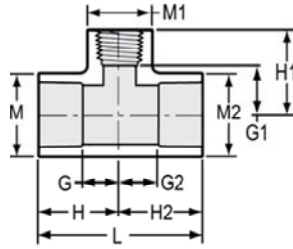
Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



**Tee - Reducing**

Socket x Socket x Fipt

(Continued)



| Part Number           | Size        | G       | G1      | G2      | H        | H1      | H2       | L       | M        | M1      | M2       | Approx. Wt.<br>(Lbs.) |
|-----------------------|-------------|---------|---------|---------|----------|---------|----------|---------|----------|---------|----------|-----------------------|
| 402-250               | 2X1-1/4     | 1       | 1- 3/8  | 1       | 2- 3/8   | 2- 5/16 | 2- 3/8   | 4- 3/4  | 2-23/32  | 2       | 2-23/32  | .39                   |
| 402-251               | 2X1-1/2     | 1- 1/16 | 1- 1/4  | 1- 1/16 | 2- 5/16  | 2-7/32  | 2- 5/16  | 4-19/32 | 2-23/32  | 2- 1/4  | 2-23/32  | .39                   |
| 402-287               | 2-1/2X1/2   | 1/2     | 1-11/16 | 1/2     | 2- 1/4   | 2-13/32 | 2- 1/4   | 4- 1/2  | 3-11/32  | 1- 3/16 | 3-11/32  | .54                   |
| 402-288               | 2-1/2X3/4   | 13/16   | 1-23/32 | 13/16   | 2- 9/16  | 2- 7/16 | 2- 9/16  | 5- 1/8  | 3-11/32  | 1- 3/8  | 3- 3/8   | .64                   |
| 402-289               | 2-1/2X1     | 1       | 1-11/16 | 1       | 2- 3/4   | 2-19/32 | 2- 3/4   | 5- 1/2  | 3-11/32  | 1-11/16 | 3-11/32  | .72                   |
| 402-290               | 2-1/2X1-1/4 | 1- 1/32 | 1-13/16 | 1- 1/32 | 2-25/32  | 2-3/4   | 2-25/32  | 5- 9/16 | 3-11/32  | 2-1/16  | 3-11/32  | .75                   |
| 402-291               | 2-1/2X1-1/2 | 1- 1/16 | 1-25/32 | 1- 1/16 | 2-13/16  | 2-23/32 | 2-13/16  | 5- 5/8  | 3-11/32  | 2-13/32 | 3-11/32  | .77                   |
| 402-292               | 2-1/2X2     | 1- 1/2  | 1-25/32 | 1- 1/2  | 3- 1/4   | 2-3/4   | 3- 1/4   | 6-1/2   | 3-11/32  | 3       | 3-11/32  | .97                   |
| 402-333               | 3X1/2       | 19/32   | 2       | 19/32   | 2-15/32  | 2-23/32 | 2-15/32  | 4-15/16 | 4        | 1- 3/16 | 4        | .77                   |
| 402-334               | 3X3/4       | 13/16   | 2-1/16  | 13/16   | 2-23/32  | 2-25/32 | 2-23/32  | 5-7/16  | 4        | 1- 3/8  | 4        | .82                   |
| 402-335               | 3X1         | 31/32   | 2-1/16  | 31/32   | 2- 7/8   | 2-31/32 | 2- 7/8   | 5-3/4   | 4        | 1-11/16 | 4        | .91                   |
| 402-336               | 3X1-1/4     | 1-1/32  | 2-1/8   | 1-1/32  | 2-29/32  | 3-1/16  | 2-29/32  | 5-13/16 | 4        | 2-1/16  | 4        | .97                   |
| 402-337               | 3X1-1/2     | 1- 7/32 | 2-5/32  | 1- 7/32 | 3- 3/32  | 3-3/32  | 3- 3/32  | 6- 3/16 | 4        | 2-13/32 | 4        | 1.00                  |
| 402-338               | 3X2         | 1- 1/2  | 2-5/32  | 1- 1/2  | 3- 13/32 | 3- 1/8  | 3- 13/32 | 6-13/16 | 4        | 3       | 4        | 1.21                  |
| 402-417               | 4X1         | 7/8     | 2- 5/8  | 7/8     | 2- 7/8   | 3- 1/2  | 2- 7/8   | 5- 3/4  | 5- 1/32  | 1-11/16 | 5- 1/32  | 1.25                  |
| 402-419               | 4X1-1/2     | 1- 1/8  | 2-13/16 | 1- 1/8  | 3-5/32   | 3-25/32 | 3-5/32   | 6-5/16  | 5-1/32   | 2-9/32  | 5-1/32   | 1.48                  |
| 402-420               | 4X2         | 1- 3/8  | 2-13/16 | 1- 3/8  | 3-13/32  | 3-25/32 | 3-13/32  | 6-13/16 | 5- 1/32  | 3       | 5- 1/32  | 1.66                  |
| 402-422               | 4X3         | 2       | 2-17/32 | 2       | 4- 1/32  | 3-15/16 | 4- 1/32  | 8- 1/16 | 5-1/32   | 4- 9/32 | 5-1/32   | 2.18                  |
| 402-490               | 5X4         | 2- 1/2  | 3-11/32 | 2- 1/2  | 5-9/16   | 5-1/16  | 5-9/16   | 11-1/8  | 6-1/8    | 5- 1/32 | 6-1/8    | 3.68                  |
| 402-525 <sup>1</sup>  | 6X1         | 1-13/32 | 4-1/2   | 1-13/32 | 4-7/16   | 5-3/8   | 4-7/16   | 8-7/8   | 7-1/4    | 2-25/32 | 7-1/4    | 3.64                  |
| 402-528               | 6X2         | 1- 3/8  | 3-5/8   | 1- 3/8  | 4-27/32  | 4-11/16 | 4-27/32  | 9-11/16 | 7- 1/4   | 2-23/32 | 7- 1/4   | 3.53                  |
| 402-530               | 6X3         | 2       | 3-5/8   | 2       | 5-1/2    | 5-1/4   | 5-1/2    | 11      | 7- 1/4   | 4       | 7- 1/4   | 4.12                  |
| 402-532               | 6X4         | 2- 1/2  | 3- 5/8  | 2- 1/2  | 6        | 5-3/8   | 6        | 12      | 7-1/4    | 5- 1/16 | 7-1/4    | 4.96                  |
| 402-578 <sup>1</sup>  | 8X2         | 2       | 6       | 2       | 6-1/32   | 7       | 6-1/32   | 12-1/16 | 9- 5/16  | 4       | 9- 5/16  | 6.84                  |
| 402-580 <sup>1</sup>  | 8X3         | 2-1/2   | 5-11/16 | 2-1/2   | 6- 9/16  | 7-3/32  | 6- 9/16  | 13- 1/8 | 9- 5/16  | 5-1/32  | 9- 5/16  | 7.85                  |
| 402-582 <sup>1</sup>  | 8X4         | 3-5/8   | 6-3/4   | 3-5/8   | 7-21/32  | 8-7/32  | 7-21/32  | 15-5/16 | 9-5/16   | 7-11/32 | 9- 5/16  | 11.20                 |
| 402-621F <sup>+</sup> | 10X2        | 4-7/8   | 6-3/8   | 4-7/8   | 10-1/8   | 7-5/16  | 10-1/8   | 20-1/4  | 11-1/2   | 2-3/4   | 11-1/2   | 19.38                 |
| 402-622F <sup>+</sup> | 10X2-1/2    | 5-5/8   | 8-7/16  | 5-5/8   | 10-7/8   | 9-3/4   | 10-7/8   | 21-3/4  | 11-1/2   | 3- 5/16 | 11-1/2   | 22.13                 |
| 402-623F <sup>+</sup> | 10X3        | 5-3/8   | 6-3/8   | 5-3/8   | 10-5/8   | 8       | 10-5/8   | 21-1/4  | 11-1/2   | 4       | 11-1/2   | 20.79                 |
| 402-624F <sup>+</sup> | 10X4        | 5-7/8   | 6-7/16  | 5-7/8   | 11-1/8   | 8-1/8   | 11-1/8   | 22-1/4  | 11- 1/2  | 5- 1/16 | 11- 1/2  | 22.95                 |
| 402-661F <sup>+</sup> | 12X2        | 5-1/4   | 7-5/16  | 5-1/4   | 11-1/2   | 8-5/16  | 11-1/2   | 23      | 13-9/16  | 2-3/4   | 13-9/16  | 26.91                 |
| 402-663F <sup>+</sup> | 12X3        | 5-3/4   | 7-3/8   | 5-3/4   | 12       | 9       | 12       | 24      | 13-9/16  | 4       | 13-9/16  | 29.29                 |
| 402-664F <sup>+</sup> | 12X4        | 7       | 7-3/8   | 7       | 13-1/4   | 9-1/8   | 13-1/4   | 26-1/2  | 13- 9/16 | 5- 1/16 | 13- 9/16 | 31.47                 |

<sup>1</sup> Outlet-sized with Bushing  
<sup>+</sup> Fabricated

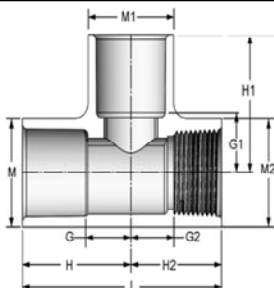


## Schedule 40 Fittings Technical

### Schedule 40 Fittings Dimensions & Information

#### Tees

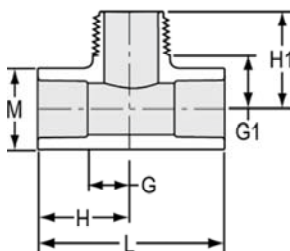
Socket X Fipt X Socket



| Part Number | Size | G     | G1    | G2    | H       | H1      | H2    | L      | M      | M1     | M2     | Approx. Wt. (Lbs.) |
|-------------|------|-------|-------|-------|---------|---------|-------|--------|--------|--------|--------|--------------------|
| 403-007     | 3/4  | 21/32 | 21/32 | 21/32 | 1-21/32 | 1-21/32 | 1-3/8 | 3-1/16 | 1-5/16 | 1-5/16 | 1-5/16 | .10                |

#### Tee

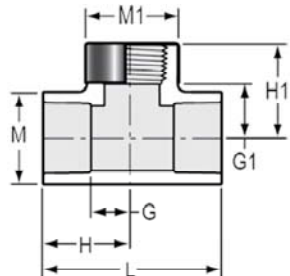
Socket x Mipt



| Part Number | Size | G     | G1 | H       | H1    | L      | M     | Approx. Wt. (Lbs.) |
|-------------|------|-------|----|---------|-------|--------|-------|--------------------|
| 402B-010    | 1    | 21/32 | 1  | 1-23/32 | 1-7/8 | 3-7/16 | 1-5/8 | .15                |

#### Tee - Special Reinforced

Socket x SR Fipt - Stainless Steel Collar



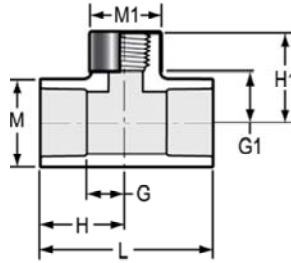
| Part Number | Size  | G     | G1    | H       | H1     | L       | M      | M1     | Approx. Wt. (Lbs.) |
|-------------|-------|-------|-------|---------|--------|---------|--------|--------|--------------------|
| 402-005SR   | 1/2   | 19/32 | 21/32 | 1-15/32 | 1-3/8  | 2-15/16 | 1-7/32 | 1-3/16 | .12                |
| 402-012SR   | 1-1/4 | 29/32 | 1-1/8 | 2-5/32  | 2-1/16 | 4-5/16  | 2      | 2-1/16 | .31                |

Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



**Tee - Special Reinforced Reducing**

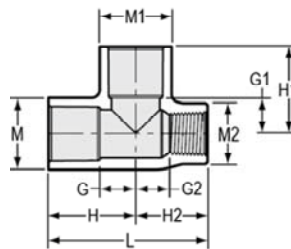
Socket x SR Fipt - Stainless Steel Collar



| Part Number | Size        | G       | G1      | H       | H1      | L       | M       | M1      | Approx. Wt. (Lbs.) |
|-------------|-------------|---------|---------|---------|---------|---------|---------|---------|--------------------|
| 402-072SR   | 1/2X1/4     | 7/16    | 11/16   | 1- 5/16 | 1- 7/32 | 2- 5/8  | 1- 5/32 | 27/32   | .08                |
| 402-098SR   | 3/4X1/4     | 7/16    | 13/16   | 1- 7/16 | 1-11/32 | 2- 7/8  | 1- 3/8  | 27/32   | .11                |
| 402-101SR   | 3/4X1/2     | 19/32   | 23/32   | 1-19/32 | 1-15/32 | 3-7/32  | 1-13/32 | 1- 3/16 | .14                |
| 402-166SR   | 1-1/4X1/2   | 7/16    | 1- 1/8  | 1-11/16 | 1-27/32 | 3- 3/8  | 2- 3/32 | 1- 3/16 | .26                |
| 402-168SR   | 1-1/4X1     | 27/32   | 1-1/32  | 2-1/8   | 1-29/32 | 4-1/4   | 2-3/32  | 1-11/16 | .34                |
| 402-212SR   | 1-1/2X1-1/4 | 1- 1/32 | 1- 5/32 | 2- 7/16 | 2- 3/32 | 4-7/8   | 2- 3/8  | 2- 1/16 | .49                |
| 402-287SR   | 2-1/2X1/2   | 1/2     | 1-11/16 | 2- 1/4  | 2-13/32 | 4- 1/2  | 3-11/32 | 1- 3/16 | .55                |
| 402-288SR   | 2-1/2X3/4   | 13/16   | 1-23/32 | 2- 9/16 | 2- 7/16 | 5- 1/8  | 3-11/32 | 1- 3/8  | .65                |
| 402-289SR   | 2-1/2X1     | 1       | 1-11/16 | 2- 3/4  | 2- 5/8  | 5- 1/2  | 3-11/32 | 1-23/32 | .74                |
| 402-290SR   | 2-1/2X1-1/4 | 1- 1/32 | 1-13/16 | 2-25/32 | 2-3/4   | 5- 9/16 | 3-11/32 | 2-1/16  | .77                |
| 402-291SR   | 2-1/2X1-1/2 | 1- 1/16 | 1-25/32 | 2-13/16 | 2- 3/4  | 5- 5/8  | 3-11/32 | 2- 7/16 | .79                |
| 402-292SR   | 2-1/2X2     | 1- 1/2  | 1-25/32 | 3- 1/4  | 2-25/32 | 6-1/2   | 3-11/32 | 3-1/32  | 1.01               |
| 402-333SR   | 3X1/2       | 19/32   | 2       | 2-15/32 | 2-23/32 | 4-15/16 | 3-31/32 | 1- 3/16 | .77                |
| 402-334SR   | 3X3/4       | 13/16   | 2-1/16  | 2-23/32 | 2-13/16 | 5-7/16  | 4       | 1- 3/8  | .83                |
| 402-335SR   | 3X1         | 1       | 2-1/16  | 2- 7/8  | 3       | 5-3/4   | 4       | 1-23/32 | .94                |
| 402-336SR   | 3X1-1/4     | 1- 1/32 | 2-1/8   | 2-29/32 | 3- 3/32 | 5-13/16 | 4       | 2- 1/16 | 1.00               |
| 402-337SR   | 3X1-1/2     | 1- 7/32 | 2-5/32  | 3- 3/32 | 3-1/8   | 6-3/16  | 3-31/32 | 2- 7/16 | 1.06               |
| 402-338SR   | 3X2         | 1- 1/2  | 2-5/32  | 3-13/32 | 3-5/32  | 6-13/16 | 4       | 3       | 1.24               |
| 402-417SR   | 4X1         | 7/8     | 2- 5/8  | 2-7/8   | 3-17/32 | 5- 3/4  | 5- 1/32 | 1-23/32 | 1.27               |
| 402-419SR   | 4X1-1/2     | 1- 1/8  | 2-13/16 | 3-5/32  | 3-25/32 | 6-5/16  | 5- 1/32 | 2- 7/16 | 1.51               |
| 402-420SR   | 4X2         | 1- 3/8  | 2-13/16 | 3-13/32 | 3-13/16 | 6-13/16 | 5- 1/32 | 3- 1/32 | 1.71               |
| 402-422SR   | 4X3         | 2       | 2-17/32 | 4- 1/32 | 3-15/16 | 8- 1/16 | 5-1/32  | 4- 9/32 | 2.25               |

**Tee - Reducing**

Socket x Fipt x Socket



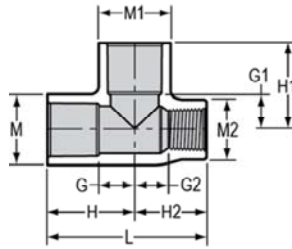
| Part Number | Size        | G     | G1    | G2    | H       | H1      | H2     | L       | M       | M1      | M2      | Approx. Wt. (Lbs.) |
|-------------|-------------|-------|-------|-------|---------|---------|--------|---------|---------|---------|---------|--------------------|
| 403-095     | 3/4X1/2X3/4 | 11/16 | 11/16 | 11/16 | 1-11/16 | 1-11/16 | 1- 3/8 | 3- 3/32 | 1-13/32 | 1-13/32 | 1- 3/16 | .14                |



Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**

**Tee - Special Reinforced Reducing**

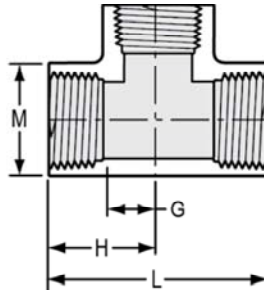
Socket x SR Fipt-Stainless Steel Collar x Socket



| Part Number | Size        | G     | G1    | G2    | H       | H1      | H2      | L      | M       | M1      | M2     | Approx. Wt. (Lbs.) |
|-------------|-------------|-------|-------|-------|---------|---------|---------|--------|---------|---------|--------|--------------------|
| 403-095SR   | 3/4X1/2X3/4 | 11/16 | 11/16 | 11/16 | 1-11/16 | 1-11/16 | 1-13/32 | 3-3/32 | 1-13/32 | 1-13/32 | 1-3/16 | .15                |

**Tee**

Fipt x Fipt x Fipt



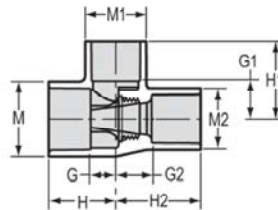
| Part Number          | Size  | G      | H       | L       | M       | Approx. Wt. (Lbs.) |
|----------------------|-------|--------|---------|---------|---------|--------------------|
| 405-005              | 1/2   | 17/32  | 1- 1/4  | 2- 1/2  | 1-1/8   | .07                |
| 405-007              | 3/4   | 9/16   | 1- 3/8  | 2- 3/4  | 1- 9/32 | .10                |
| 405-010              | 1     | 23/32  | 1-19/32 | 3- 3/16 | 1-23/32 | .18                |
| 405-012              | 1-1/4 | 15/16  | 1-31/32 | 3-29/32 | 2-1/4   | .47                |
| 405-015              | 1-1/2 | 1      | 2-1/32  | 4-1/16  | 2- 7/32 | .36                |
| 405-020              | 2     | 1- 1/4 | 2- 5/16 | 4-5/8   | 2-23/32 | .51                |
| 405-025 <sup>1</sup> | 2-1/2 | 2-3/4  | 4-11/32 | 8-11/16 | 4- 1/32 | 2.81               |

<sup>1</sup> Outlet sized with Bushing

**Venturied Tee, Multi Configuration - Socket Style Sch 40**

1-1/2" Socket (2" Spigot) x 1-1/2" Socket x 3/4" Socket (1" Spigot)

Special spa jet fitting with standard 7/16" nozzle plus optional 3/8" or 1/4".



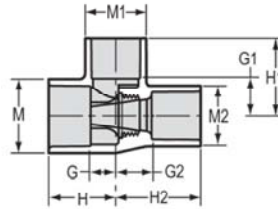
| Part Number | Size              | G    | G1    | G2  | H      | H1      | H2    | M     | M1     | M2     | Approx. Wt. (Lbs.) |
|-------------|-------------------|------|-------|-----|--------|---------|-------|-------|--------|--------|--------------------|
| 473-825     | with 7/16" Nozzle | 9/16 | 13/16 | 3/4 | 1-7/16 | 1-11/16 | 1-7/8 | 1-5/8 | 1-5/16 | 1-5/16 | .15                |
| 473-825-1/4 | with 1/4" Nozzle  | 9/16 | 13/16 | 3/4 | 1-7/16 | 1-11/16 | 1-7/8 | 1-5/8 | 1-5/16 | 1-5/16 | .15                |
| 473-825-3/8 | with 3/8" Nozzle  | 9/16 | 13/16 | 3/4 | 1-7/16 | 1-11/16 | 1-7/8 | 1-5/8 | 1-5/16 | 1-5/16 | .15                |

Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



**Venturied Tee, Multi  
Configuration - Socket Style  
Sch 40**

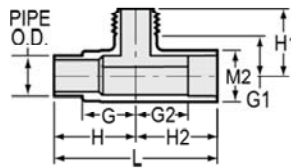
1" Socket x 3/4" Socket (1" Spigot) x 3/4" Socket (1" Spigot)



| Part Number | Size              | G     | G1     | G2    | H       | H1     | H2    | M     | M1     | M2    | Approx. Wt. (Lbs.) |
|-------------|-------------------|-------|--------|-------|---------|--------|-------|-------|--------|-------|--------------------|
| 473-210     | with 7/16" Nozzle | 19/32 | 1-3/32 | 19/32 | 1-13/16 | 2-3/32 | 1-7/8 | 2-1/4 | 1-5/16 | 2-3/8 | .32                |
| 473-210-1/4 | with 1/4" Nozzle  | 19/32 | 1-3/32 | 19/32 | 1-13/16 | 2-3/32 | 1-7/8 | 2-1/4 | 1-5/16 | 2-3/8 | .32                |
| 473-210-3/8 | with 3/8" Nozzle  | 19/32 | 1-3/32 | 19/32 | 1-13/16 | 2-3/32 | 1-7/8 | 2-1/4 | 1-5/16 | 2-3/8 | .32                |

**Manifold Tee**

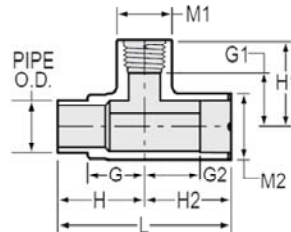
Spigot x Socket x Mipt



| Part Number | Size | G       | G1     | G2      | H      | H1      | H2     | L      | M2      | Approx. Wt. (Lbs.) |
|-------------|------|---------|--------|---------|--------|---------|--------|--------|---------|--------------------|
| 476-010     | 1    | 1-23/32 | 1-5/16 | 1-11/16 | 2- 5/8 | 2- 5/32 | 2- 5/8 | 5- 1/4 | 1-11/16 | .23                |

**Manifold Tee**

Spigot x Socket x Fipt



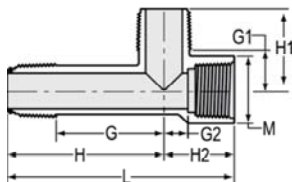
| Part Number | Size | G       | G1     | G2      | H      | H1      | H2     | L      | M1      | M2      | Approx. Wt. (Lbs.) |
|-------------|------|---------|--------|---------|--------|---------|--------|--------|---------|---------|--------------------|
| 477-010     | 1    | 1-23/32 | 1-9/32 | 1-11/16 | 2- 5/8 | 2- 5/32 | 2- 5/8 | 5- 1/4 | 1-11/16 | 1-11/16 | .27                |



Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**

## Manifold Tee - O-ring Sealed

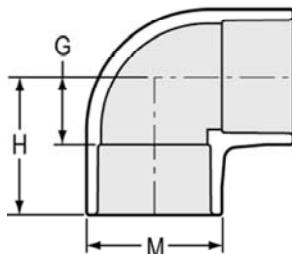
O-ring Sealed Mipt x Fipt x Mipt  
EPDM O-ring Seal on Tee run



| Part Number | Size | G       | G1 | G2   | H       | H1 | H2      | L       | M       | Approx. Wt. (Lbs.) |
|-------------|------|---------|----|------|---------|----|---------|---------|---------|--------------------|
| 451A-010    | 1    | 2-19/32 | 1  | 9/16 | 3-25/32 | 2  | 1-11/16 | 5-15/32 | 1-21/32 | .19                |

## 90° EII

Socket x Socket



| Part Number | Size  | G        | H        | M        | Approx. Wt. (Lbs.) |
|-------------|-------|----------|----------|----------|--------------------|
| 406-003     | 3/8   | 3/8      | 1- 1/8   | 7/8      | .02                |
| 406-005     | 1/2   | 1/2      | 1- 1/4   | 1-3/32   | .04                |
| 406-007     | 3/4   | 9/16     | 1- 1/2   | 1-5/16   | .07                |
| 406-010     | 1     | 11/16    | 1-25/32  | 1- 5/8   | .11                |
| 406-012     | 1-1/4 | 31/32    | 2- 5/32  | 2        | .20                |
| 406-015     | 1-1/2 | 1- 1/16  | 2-3/8    | 2- 1/4   | .25                |
| 406-020     | 2     | 1-5/16   | 2-11/16  | 2- 3/4   | .37                |
| 406-025     | 2-1/2 | 1-17/32  | 3-5/16   | 3-11/32  | .73                |
| 406-030     | 3     | 1-7/8    | 3-3/4    | 4        | 1.05               |
| 406-040     | 4     | 2-13/32  | 4-7/16   | 5- 1/32  | 1.71               |
| 406-045F*   | 4-1/2 | 8- 5/8   | 6- 1/8   | 5- 7/16  | 3.54               |
| 406-050     | 5     | 3- 1/16  | 6-1/16   | 6- 5/32  | 3.24               |
| 406-060     | 6     | 3-9/16   | 6- 9/16  | 7- 9/32  | 4.66               |
| 406-080     | 8     | 4-13/32  | 8- 7/16  | 9- 3/8   | 8.87               |
| 406-100     | 10    | 5-27/32  | 10-27/32 | 11-19/32 | 15.55              |
| 406-100F*   | 10    | 9-13/16  | 15-1/16  | 11- 1/2  | 17.51              |
| 406-120     | 12    | 6-15/16  | 12-15/16 | 13-11/16 | 27.98              |
| 406-120F*   | 12    | 11-3/16  | 17-7/16  | 13- 9/16 | 30.66              |
| 406-140     | 14    | 7- 1/2   | 14- 1/2  | 15-9/16  | 54.20              |
| 406-140F*   | 14    | 13-3/16  | 20-3/16  | 14- 7/8  | 41.54              |
| 406-160F*   | 16    | 15-1/4   | 23-1/4   | 17       | 59.37              |
| 406-180F*   | 18    | 17-5/16  | 26-5/16  | 19- 1/8  | 82.00              |
| 406-200F*   | 20    | 19-13/16 | 29-13/16 | 22-1/16  | 118.12             |
| 406-240F*   | 24    | 23-7/16  | 35-7/16  | 25- 3/8  | 172.90             |

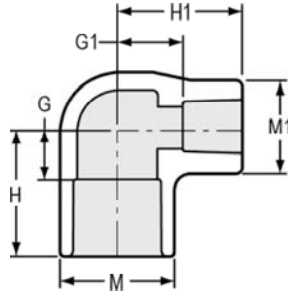
\* Fabricated

Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



**90° Ell - Reducing**

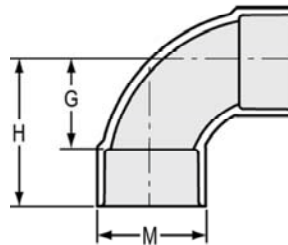
Socket x Socket



| Part Number | Size                   | G       | G1      | H       | H1      | M       | M1      | Approx. Wt. (Lbs.) |
|-------------|------------------------|---------|---------|---------|---------|---------|---------|--------------------|
| 406-053     | 1/2X3/8                | 1-5/32  | 7/16    | 1-23/32 | 1-15/16 | 1- 1/8  | 29/32   | .05                |
| 406-101     | 3/4X1/2                | 1/2     | 19/32   | 1- 1/2  | 1-11/32 | 1- 5/16 | 1- 3/32 | .06                |
| D406-101    | 3/4X1/2                | 19/32   | 21/32   | 1-17/32 | 1-29/32 | 1- 5/16 | 1- 1/8  | .07                |
| 406-130     | 1X1/2                  | 15/32   | 3/4     | 1-17/32 | 1-1/2   | 1- 5/8  | 1-3/32  | .08                |
| D406-130    | 1X1/2                  | 5/8     | 13/16   | 1-11/16 | 2-1/16  | 1- 5/8  | 1- 3/32 | .12                |
| 406-131     | 1X3/4                  | 21/32   | 13/16   | 1-25/32 | 1-13/16 | 1-5/8   | 1- 5/16 | .11                |
| 406-166     | 1-1/4X1/2              | 9/16    | 1       | 1-13/16 | 1- 3/4  | 2       | 1- 3/32 | .11                |
| D406-166    | 1-1/4X1/2              | 9/16    | 1       | 1-13/16 | 2- 1/4  | 2       | 1- 3/32 | .13                |
| 406-167     | 1-1/4X3/4              | 23/32   | 1       | 1-31/32 | 1-15/16 | 2       | 1- 5/16 | .12                |
| 406-168     | 1-1/4X1                | 11/16   | 7/8     | 1-15/16 | 2       | 2       | 1-21/32 | .16                |
| 406-209     | 1-1/2X1/2              | 9/16    | 1- 1/8  | 1-7/8   | 1- 7/8  | 2-1/4   | 1- 3/32 | .15                |
| 406-211     | 1-1/2X1                | 13/16   | 1-1/8   | 2- 1/8  | 2-3/16  | 2- 1/4  | 1- 5/8  | .20                |
| 406-212     | 1-1/2X1-1/4            | 1       | 1- 3/32 | 2- 9/32 | 2-11/32 | 2-1/4   | 2       | .23                |
| 406-249     | 2X1                    | 13/16   | 1-3/8   | 2-3/16  | 2-1/2   | 2-3/4   | 1-5/8   | .29                |
| 406-250     | 2X1-1/4                | 1       | 1- 3/8  | 2-3/8   | 2-5/8   | 2-3/4   | 2       | .30                |
| 406-251     | 2X1-1/2                | 1-1/16  | 1-9/32  | 2-15/32 | 2- 9/16 | 2- 3/4  | 2- 1/4  | .32                |
| 406-251N    | 2X1-1/2                | 1- 1/16 | 1-21/32 | 2- 7/16 | 2-15/16 | 2- 3/4  | 2- 3/8  | .42                |
| 406-292     | 2-1/2X2                | 1- 1/4  | 2-5/16  | 3       | 3-11/16 | 3-11/32 | 2-7/8   | .55                |
| 406-292N    | 2-1/2X2 (2-1/2 Spigot) | 1- 1/4  | 2-5/16  | 3       | 3-11/16 | 3-11/32 | 2- 7/8  | .70                |

**90° Ell - Sweep**

Socket x Socket



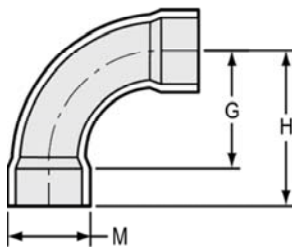
| Part Number | Size  | G       | H       | M       | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|---------|--------------------|
| 406-005S    | 1/2   | 1       | 1-3/4   | 1-3/32  | .06                |
| 406-007S    | 3/4   | 1-1/16  | 2-1/16  | 1-13/32 | .09                |
| 406-010S    | 1     | 1-5/16  | 2-3/8   | 1-5/8   | .15                |
| 406-012S    | 1-1/4 | 1- 9/16 | 2-13/16 | 2- 3/32 | .29                |
| 406-015S    | 1-1/2 | 1-25/32 | 3-3/32  | 2-9/32  | .31                |
| 406-020S    | 2     | 2-5/16  | 3-11/16 | 2-13/16 | .51                |
| 406-025S    | 2-1/2 | 2-13/16 | 4-19/32 | 3-11/32 | .87                |
| 406-030S    | 3     | 3-7/32  | 4-5/32  | 4-1/16  | 1.39               |



## Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

### 90° EII - Long Sweep

Socket x Socket

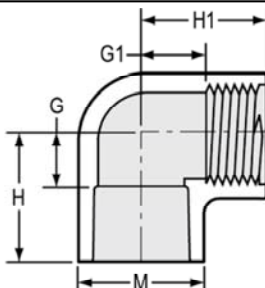


| Part Number | Size  | G        | H        | M       | Approx. Wt. (Lbs.) |
|-------------|-------|----------|----------|---------|--------------------|
| 406-025LSF* | 2-1/2 | 5- 7/16  | 7- 7/16  | 3- 1/4  | 1.11               |
| 406-030LSF* | 3     | 7        | 9        | 3-15/16 | 1.59               |
| 406-040LSF* | 4     | 9        | 11-1/4   | 5       | 2.77               |
| 406-060LSF* | 6     | 13       | 16- 1/4  | 7- 3/16 | 6.96               |
| 406-080LSF* | 8     | 22- 7/16 | 26-11/16 | 9- 1/4  | 18.94              |
| 406-100LSF* | 10    | 27       | 32-1/4   | 11-1/2  | 31.27              |

\* Fabricated

### 90° EII

Socket x Fipt



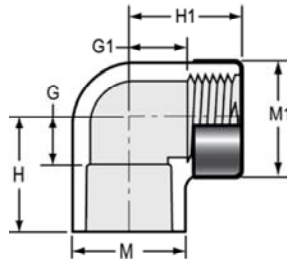
| Part Number | Size  | G       | G1      | H       | H1      | M       | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|---------|---------|---------|--------------------|
| 407-005     | 1/2   | 1/2     | 1/2     | 1- 1/4  | 1- 1/4  | 1- 3/32 | .05                |
| 407-007     | 3/4   | 9/16    | 9/16    | 1- 9/16 | 1- 9/32 | 1- 5/16 | .08                |
| 407-010     | 1     | 11/16   | 11/16   | 1-13/16 | 1- 9/16 | 1- 5/8  | .14                |
| 407-012     | 1-1/4 | 7/8     | 1-1/8   | 2- 1/8  | 2-1/16  | 2- 1/16 | .25                |
| 407-015     | 1-1/2 | 1       | 1- 1/16 | 2- 5/16 | 2       | 2- 1/4  | .25                |
| 407-020     | 2     | 1- 3/16 | 1-5/16  | 2-11/32 | 2-11/32 | 2-23/32 | .46                |
| 407-025     | 2-1/2 | 1- 1/2  | 1- 1/2  | 3- 1/2  | 3- 1/16 | 3- 5/16 | .93                |
| 407-030     | 3     | 1-13/16 | 1-29/32 | 3-11/16 | 3-5/16  | 4       | 1.15               |
| 407-040     | 4     | 2- 5/16 | 2-15/32 | 4-11/32 | 3-7/8   | 5- 1/16 | 1.85               |

Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



**90° EII - Special Reinforced & Reducing 90° EII**

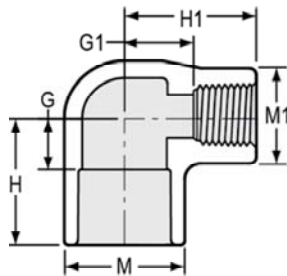
Socket x SR Fipt - Stainless Steel Collar



| Part Number               | Size    | G      | G1      | H       | H1      | M       | M1      | Approx. Wt. (Lbs.) |
|---------------------------|---------|--------|---------|---------|---------|---------|---------|--------------------|
| <a href="#">407-005SR</a> | 1/2     | 1/2    | 17/32   | 1- 1/4  | 1- 9/32 | 1- 3/32 | 1- 7/32 | .07                |
| <a href="#">407-007SR</a> | 3/4     | 9/16   | 21/32   | 1-9/16  | 1-13/32 | 1- 3/8  | 1-3/8   | .09                |
| <a href="#">407-010SR</a> | 1       | 19/32  | 11/16   | 1-23/32 | 1-23/32 | 1-11/16 | 1-23/32 | .20                |
| <a href="#">407-012SR</a> | 1-1/4   | 7/8    | 1-1/16  | 2- 1/8  | 2-1/16  | 2- 1/16 | 2- 1/16 | .28                |
| <a href="#">407-211SR</a> | 1-1/2X1 | 13/16  | 1-1/8   | 2-1/8   | 2       | 2-1/4   | 1-23/32 | .26                |
| <a href="#">407-249SR</a> | 2X1     | 13/16  | 1-15/32 | 2-3/16  | 2- 3/8  | 2-23/32 | 1-11/16 | .34                |
| <a href="#">407-251SR</a> | 2X1-1/2 | 1- 1/8 | 1-9/16  | 2- 1/2  | 2-17/32 | 2-3/4   | 2- 7/16 | .44                |

**90° EII - Reducing**

Socket x Fipt



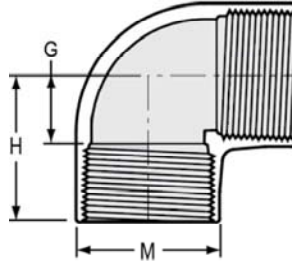
| Part Number             | Size        | G      | G1      | H       | H1      | M       | M1      | Approx. Wt. (Lbs.) |
|-------------------------|-------------|--------|---------|---------|---------|---------|---------|--------------------|
| <a href="#">407-053</a> | 1/2X3/8     | 17/32  | 17/32   | 1- 9/32 | 1- 9/32 | 7/8     | 1- 3/32 | .04                |
| <a href="#">407-074</a> | 3/4X1/2     | 21/32  | 9/16    | 1-13/32 | 1-11/32 | 1- 5/16 | 1- 3/32 | .08                |
| <a href="#">407-101</a> | 3/4X1/2     | 9/16   | 5/8     | 1- 1/2  | 1- 3/8  | 1- 5/16 | 1- 3/32 | .07                |
| <a href="#">407-130</a> | 1X1/2       | 7/16   | 23/32   | 1-9/16  | 1- 7/16 | 1- 5/8  | 1- 3/32 | .09                |
| <a href="#">407-131</a> | 1X3/4       | 21/32  | 13/16   | 1-25/32 | 1-17/32 | 1- 5/8  | 1- 5/16 | .11                |
| <a href="#">407-168</a> | 1-1/4X1     | 21/32  | 1       | 2-29/32 | 1-7/8   | 1-31/32 | 1- 5/8  | .18                |
| <a href="#">407-211</a> | 1-1/2X1     | 13/16  | 1-1/8   | 2-1/8   | 2       | 2- 1/4  | 1-11/16 | .24                |
| <a href="#">407-212</a> | 1-1/2X1-1/4 | 1      | 1-1/8   | 2-9/32  | 2-1/8   | 2-7/32  | 1-31/32 | .24                |
| <a href="#">407-249</a> | 2X1         | 13/16  | 1-15/32 | 2-3/16  | 2- 3/8  | 2- 3/4  | 1-11/16 | .30                |
| <a href="#">407-250</a> | 2X1-1/4     | 1      | 1- 1/4  | 2- 3/8  | 2-3/16  | 2- 3/4  | 2       | .31                |
| <a href="#">407-251</a> | 2X1-1/2     | 1- 1/8 | 1- 9/16 | 2- 1/2  | 2- 1/2  | 2-3/4   | 2-13/32 | .41                |



## Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

### 90° EII

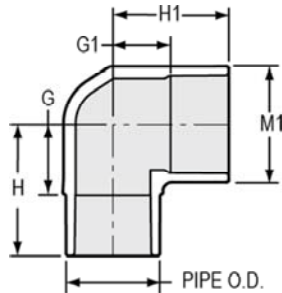
Fipt x Fipt



| Part Number | Size  | G       | H       | M       | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|---------|--------------------|
| 408-005     | 1/2   | 1/2     | 1- 7/32 | 1- 3/32 | .06                |
| 408-007     | 3/4   | 17/32   | 1- 1/4  | 1- 5/16 | .08                |
| 408-010     | 1     | 21/32   | 1-9/16  | 1- 5/8  | .15                |
| 408-012     | 1-1/4 | 1       | 2       | 1-31/32 | .25                |
| 408-015     | 1-1/2 | 1-3/16  | 2-5/32  | 2-1/4   | .34                |
| 408-020     | 2     | 1- 5/16 | 2-3/8   | 2- 3/4  | .48                |

### 90° Street EII

Spigot x Socket



| Part Number | Size  | G        | G1       | H        | H1       | M1       | Approx. Wt. (Lbs.) |
|-------------|-------|----------|----------|----------|----------|----------|--------------------|
| 409-005     | 1/2   | 23/32    | 1/2      | 1- 15/32 | 1- 1/4   | 1-1/8    | .04                |
| 409-007     | 3/4   | 27/32    | 17/32    | 1-27/32  | 1-17/32  | 1-11/32  | .07                |
| 409-010     | 1     | 1        | 11/16    | 2-1/8    | 1-13/16  | 1- 5/8   | .12                |
| 409-012     | 1-1/4 | 1-7/32   | 13/16    | 2-15/32  | 2- 1/16  | 1-31/32  | .18                |
| 409-015     | 1-1/2 | 1-11/32  | 1- 1/16  | 2-21/32  | 2- 3/8   | 2- 1/4   | .25                |
| 409-020     | 2     | 1-5/8    | 1-7/32   | 3        | 2- 5/8   | 2-23/32  | .34                |
| 409-025     | 2-1/2 | 1-15/16  | 1-1/2    | 3-11/16  | 3-1/4    | 3-11/32  | .76                |
| 409-030     | 3     | 2- 9/32  | 1-13/16  | 4- 5/32  | 3-11/16  | 4        | 1.08               |
| 409-040     | 4     | 2-31/32  | 2- 5/16  | 4-15/16  | 4-11/32  | 5-1/32   | 1.85               |
| 409-050     | 5     | 6-1/16   | 3-1/16   | 9-9/16   | 6-1/16   | 6- 1/8   | 4.27               |
| 409-060     | 6     | 6-9/16   | 3-9/16   | 9-9/16   | 6-9/16   | 7-1/4    | 5.99               |
| 409-080     | 8     | 8-1/2    | 4-1/2    | 12-1/2   | 8- 1/2   | 9-3/8    | 10.70              |
| 409-100F*   | 10    | 9-9/16   | 9-9/16   | 14-13/16 | 14-13/16 | 11-1/2   | 20.09              |
| 409-140F*   | 14    | 12-15/16 | 12-15/16 | 19-15/16 | 19-15/16 | 14- 7/8  | 44.65              |
| 409-160F*   | 16    | 19-1/4   | 15-1/4   | 28-1/4   | 23-1/4   | 17       | 74.84              |
| 409-180F*   | 18    | 21-13/16 | 17-5/16  | 31-13/16 | 26-5/16  | 19- 1/8  | 115.96             |
| 409-200F*   | 20    | 24-3/8   | 19-3/8   | 35-3/8   | 29-3/8   | 21- 3/16 | 139.78             |
| 409-240F*   | 24    | 29-7/16  | 23-7/16  | 42-7/16  | 35-7/16  | 25-3/8   | 238.36             |

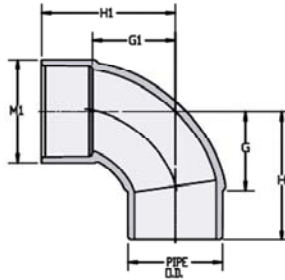
\* Fabricated

Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



### 90° Street Ell - Sweep

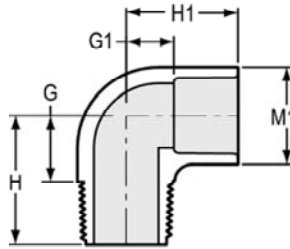
Socket x Spigot



| Part Number | Size  | G       | G1      | H       | H1      | M1      | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|---------|---------|---------|--------------------|
| 409-015S    | 1-1/2 | 1-25/32 | 1-25/32 | 3-3/32  | 3-3/32  | 2-13/16 | .29                |
| 409-020S    | 2     | 2-5/16  | 2-5/16  | 3-11/16 | 3-11/16 | 2-13/16 | .49                |
| 409-025S    | 2-1/2 | 2-13/16 | 2-13/16 | 4-19/32 | 4-19/32 | 3-11/32 | .84                |
| 409-030S    | 3     | 3-3/32  | 3-3/32  | 5-3/32  | 5-3/32  | 4-1/16  | 1.32               |

### 90° Street Ell

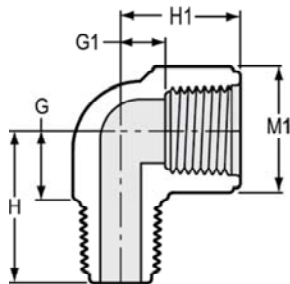
Mipt x Socket



| Part Number | Size    | G       | G1    | H       | H1      | M1      | Approx. Wt. (Lbs.) |
|-------------|---------|---------|-------|---------|---------|---------|--------------------|
| 410-005     | 1/2     | 11/16   | 13/32 | 1-3/8   | 1- 5/32 | 1- 3/32 | .04                |
| 410-007     | 3/4     | 27/32   | 15/32 | 1-17/32 | 1-15/32 | 1- 5/16 | .07                |
| 410-010     | 1       | 1-1/16  | 23/32 | 1-15/16 | 1-27/32 | 1- 5/8  | .12                |
| 410-012     | 1-1/4   | 1-7/32  | 3/4   | 2- 3/32 | 2       | 1-31/32 | .18                |
| 410-015     | 1-1/2   | 1-11/32 | 1     | 2-1/4   | 2- 5/16 | 2-1/4   | .25                |
| 410-020     | 2       | 1- 5/8  | 1-1/4 | 2- 9/16 | 2-5/8   | 2-23/32 | .40                |
| 410-030     | 3       | 2-3/4   | 1-7/8 | 4-1/16  | 3-3/4   | 4       | 1.03               |
| 410-101     | 3/4X1/2 | 3/4     | 1/2   | 1-15/32 | 1- 1/4  | 1- 3/32 | .05                |
| 410-102     | 3/4X1   | 1       | 15/32 | 1-11/16 | 1-19/32 | 1- 5/8  | .09                |

### 90° Street Ell

Mipt x Fipt



| Part Number | Size  | G       | G1    | H       | H1      | M1      | Approx. Wt. (Lbs.) |
|-------------|-------|---------|-------|---------|---------|---------|--------------------|
| 412-005     | 1/2   | 23/32   | 11/32 | 1-13/32 | 1- 1/16 | 1- 1/8  | .05                |
| 412-007     | 3/4   | 7/8     | 15/32 | 1-9/16  | 1- 3/16 | 1-11/32 | .06                |
| 412-010     | 1     | 31/32   | 21/32 | 1-27/32 | 1-9/16  | 1-21/32 | .12                |
| 412-012     | 1-1/4 | 1- 7/32 | 7/8   | 2- 7/32 | 1- 7/8  | 1-31/32 | .19                |
| 412-015     | 1-1/2 | 1-5/16  | 1     | 2-11/32 | 2- 1/32 | 2- 7/32 | .24                |

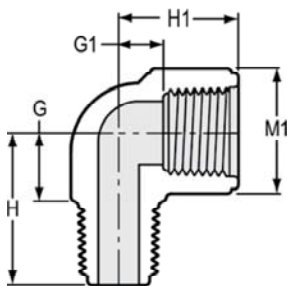


Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**

### 90° Street Ell

Mipt x Fipt

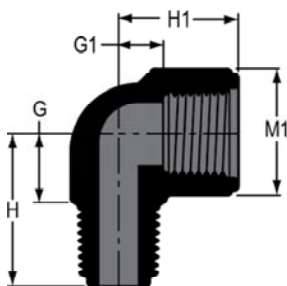
(Continued)



| Part Number | Size | G       | G1      | H       | H1      | M1      | Approx. Wt. (Lbs.) |
|-------------|------|---------|---------|---------|---------|---------|--------------------|
| 412-020     | 2    | 1-19/32 | 1- 1/4  | 2-21/32 | 2- 5/16 | 2-23/32 | .38                |
| 412-030     | 3    | 2-3/4   | 1-29/32 | 4-1/16  | 3-5/16  | 4       | 1.35               |

### HDPE 90° Street Ell

Mipt x Fipt

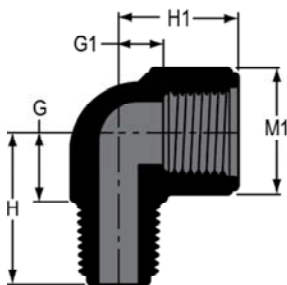


| Part Number | Size  | G       | G1     | H       | H1      | M1       | Approx. Wt. (Lbs.) |
|-------------|-------|---------|--------|---------|---------|----------|--------------------|
| M412-005    | 1/2   | 23/32   | 7/16   | 1-13/32 | 1-1/8   | 1- 1/8   | .02                |
| M412-007    | 3/4   | 13/16   | 7/16   | 1-17/32 | 1- 3/16 | 1-11/32  | .04                |
| M412-010    | 1     | 15/16   | 21/32  | 1-13/16 | 1-17/32 | 1- 5/8   | .07                |
| M412-012    | 1-1/4 | 1- 7/32 | 31/32  | 2- 7/32 | 2       | 2-3/32   | .15                |
| M412-015    | 1-1/2 | 1-11/32 | 1-3/32 | 2-11/32 | 2- 1/8  | 2- 13/32 | .19                |

High Density Polyethylene - Not NSF-listed - Not pressure rated.

### HDPE 90° Street Ell

Mipt x Fipt (Short Pattern)



| Part Number | Size    | G     | G1    | H       | H1     | M1      | Approx. Wt. (Lbs.) |
|-------------|---------|-------|-------|---------|--------|---------|--------------------|
| MS412-005   | 1/2     | 21/32 | 5/16  | 1- 3/16 | 31/32  | 1-1/32  | .03                |
| MS412-007   | 3/4     | 3/4   | 15/32 | 1- 5/16 | 1-3/32 | 1-9/32  | .03                |
| MS412-010   | 1       | 7/8   | 9/16  | 1-9/16  | 1- 3/8 | 1-17/32 | .05                |
| MS412-101   | 3/4X1/2 | 21/32 | 15/32 | 1-3/16  | 1-3/32 | 1-1/16  | .02                |

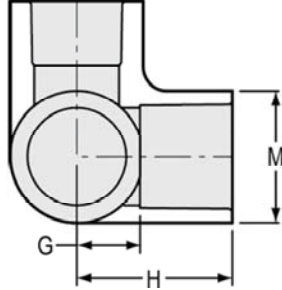
High Density Polyethylene - Not NSF-listed - Not pressure rated.

Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



### Side Outlet EII

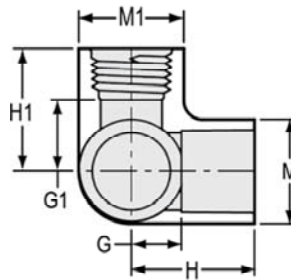
Socket x Socket x Socket



| Part Number | Size  | G       | H       | M       | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|---------|--------------------|
| 413-005     | 1/2   | 1/2     | 1- 1/4  | 1- 3/32 | .06                |
| 413-007     | 3/4   | 9/16    | 1- 9/16 | 1- 5/16 | .09                |
| 413-010     | 1     | 3/4     | 1- 7/8  | 1- 5/8  | .17                |
| 413-015     | 1-1/2 | 1-1/32  | 2-11/32 | 2-1/4   | .32                |
| 413-020     | 2     | 1- 5/16 | 2- 5/8  | 2- 3/4  | .48                |

### Side Outlet EII

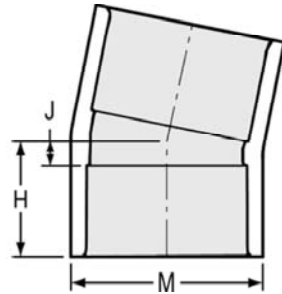
Socket x Socket x Fipt



| Part Number | Size    | G     | G1    | H       | H1      | M       | M1      | Approx. Wt. (Lbs.) |
|-------------|---------|-------|-------|---------|---------|---------|---------|--------------------|
| 414-005     | 1/2     | 1/2   | 17/32 | 1- 1/4  | 1- 1/4  | 1- 3/32 | 1- 3/32 | .07                |
| 414-007     | 3/4     | 9/16  | 21/32 | 1- 9/16 | 1- 7/16 | 1-5/16  | 1-5/16  | .09                |
| 414-101     | 3/4X1/2 | 9/16  | 21/32 | 1- 9/16 | 1-13/32 | 1- 5/16 | 1-3/32  | .08                |
| 414-130     | 1X1/2   | 11/16 | 13/16 | 1-13/16 | 1- 9/16 | 1- 5/8  | 1-3/32  | .14                |

### 11-1/4° EII

Socket x Socket



| Part Number | Size  | H       | J     | M       | Approx. Wt. (Lbs.) |
|-------------|-------|---------|-------|---------|--------------------|
| 411-005F°   | 1/2   | 1- 5/16 | 5/16  | 1- 1/16 | .05                |
| 411-007F°   | 3/4   | 1- 5/16 | 5/16  | 1- 1/4  | .05                |
| 411-010F°   | 1     | 1- 9/16 | 5/16  | 1- 9/16 | .12                |
| 411-012F°   | 1-1/4 | 2       | 1/2   | 1-15/16 | .18                |
| 411-015     | 1-1/2 | 1-19/32 | 7/32  | 2- 3/8  | .24                |
| 411-015F°   | 1-1/2 | 2       | 1/2   | 2- 3/16 | .22                |
| 411-020     | 2     | 1-23/32 | 7/32  | 2-27/32 | .33                |
| 411-025F°   | 2-1/2 | 2-11/16 | 11/16 | 3- 1/4  | .66                |

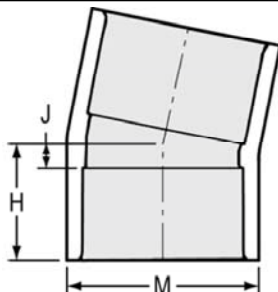


Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**

**11-1/4° EII**

Socket x Socket

(Continued)

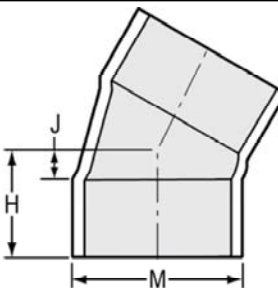


| Part Number           | Size  | H        | J       | M        | Approx. Wt. (Lbs.) |
|-----------------------|-------|----------|---------|----------|--------------------|
| 411-030               | 3     | 2-3/16   | 5/16    | 4-5/32   | .87                |
| 411-040               | 4     | 2-21/32  | 3/8     | 5- 1/4   | 1.51               |
| 411-045F <sup>+</sup> | 4-1/2 | 3- 1/4   | 3/4     | 5- 7/16  | 1.31               |
| 411-050F <sup>+</sup> | 5     | 3-13/16  | 13/16   | 6- 1/16  | 1.87               |
| 411-060F <sup>+</sup> | 6     | 4- 1/4   | 1       | 7- 3/16  | 2.95               |
| 411-080F <sup>+</sup> | 8     | 5- 5/16  | 1- 1/16 | 9- 1/4   | 4.84               |
| 411-100F <sup>+</sup> | 10    | 6-11/16  | 1-7/16  | 11- 1/2  | 9.41               |
| 411-120F <sup>+</sup> | 12    | 7-13/16  | 1-9/16  | 13-9/16  | 14.09              |
| 411-140F <sup>+</sup> | 14    | 9        | 2       | 14- 7/8  | 20.77              |
| 411-160F <sup>+</sup> | 16    | 10-3/8   | 2-3/8   | 16-3/4   | 28.88              |
| 411-180F <sup>+</sup> | 18    | 11-11/16 | 2-11/16 | 19- 1/8  | 42.88              |
| 411-200F <sup>+</sup> | 20    | 13-1/16  | 3-1/16  | 21- 3/16 | 55.12              |
| 411-240F <sup>+</sup> | 24    | 15-3/4   | 3-3/4   | 25-3/8   | 95.34              |

\* Fabricated

**30° EII**

Socket x Socket



| Part Number           | Size  | H       | J       | M       | Approx. Wt. (Lbs.) |
|-----------------------|-------|---------|---------|---------|--------------------|
| 415-005F <sup>+</sup> | 1/2   | 1- 3/8  | 3/8     | 1- 1/16 | .04                |
| 415-007F <sup>+</sup> | 3/4   | 1- 7/16 | 7/16    | 1- 1/4  | .07                |
| 415-010F <sup>+</sup> | 1     | 1- 3/4  | 1/2     | 1- 9/16 | .11                |
| 415-012F <sup>+</sup> | 1-1/4 | 2- 1/8  | 5/8     | 1-15/16 | .18                |
| 415-015F <sup>+</sup> | 1-1/2 | 2- 3/16 | 11/16   | 2- 3/16 | .22                |
| 415-020F <sup>+</sup> | 2     | 2- 1/2  | 3/4     | 2-11/16 | .41                |
| 415-025F <sup>+</sup> | 2-1/2 | 2-15/16 | 15/16   | 3- 1/4  | .61                |
| 415-030F <sup>+</sup> | 3     | 3- 5/16 | 1- 1/16 | 3-15/16 | 1.07               |
| 415-040F <sup>+</sup> | 4     | 3- 7/16 | 1- 3/16 | 5       | 1.53               |
| 415-045F <sup>+</sup> | 4-1/2 | 3- 3/4  | 1- 1/4  | 5- 7/16 | 1.48               |
| 415-050F <sup>+</sup> | 5     | 4- 5/16 | 1- 5/16 | 6- 1/16 | 2.63               |
| 415-060F <sup>+</sup> | 6     | 4- 7/8  | 1- 5/8  | 7- 3/16 | 3.20               |
| 415-080F <sup>+</sup> | 8     | 6- 1/8  | 1- 7/8  | 9- 1/4  | 5.39               |
| 415-100F <sup>+</sup> | 10    | 7-11/16 | 2-7/16  | 11- 1/2 | 10.66              |

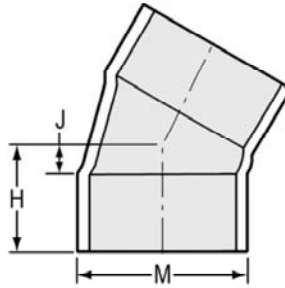
Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



### 30° EII

Socket x Socket

(Continued)

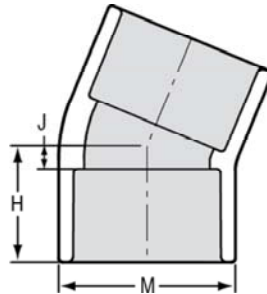


| Part Number           | Size | H        | J       | M       | Approx. Wt. (Lbs.) |
|-----------------------|------|----------|---------|---------|--------------------|
| 415-120F <sup>*</sup> | 12   | 9        | 2-3/4   | 13-9/16 | 16.57              |
| 415-140F <sup>*</sup> | 14   | 10-5/16  | 3-5/16  | 14- 7/8 | 23.88              |
| 415-160F <sup>*</sup> | 16   | 11-13/16 | 3-13/16 | 17      | 34.14              |
| 415-180F <sup>*</sup> | 18   | 13-3/8   | 4-3/8   | 19- 1/8 | 49.74              |
| 415-200F <sup>*</sup> | 20   | 14-15/16 | 4-15/16 | 21-3/16 | 63.00              |
| 415-240F <sup>*</sup> | 24   | 18       | 6       | 25-3/8  | 109.36             |

\* Fabricated

### 22-1/2° EII

Socket x Socket



| Part Number           | Size  | H        | J       | M        | Approx. Wt. (Lbs.) |
|-----------------------|-------|----------|---------|----------|--------------------|
| 416-005               | 1/2   | 1- 1/16  | 3/16    | 1- 5/32  | .05                |
| 416-007               | 3/4   | 1- 3/16  | 7/32    | 1-13/32  | .16                |
| 416-010               | 1     | 1-11/32  | 7/32    | 1-23/32  | .26                |
| 416-012               | 1-1/4 | 1- 1/2   | 1/4     | 2- 3/32  | .21                |
| 416-015               | 1-1/2 | 1-21/32  | 9/32    | 2-11/32  | .25                |
| 416-015F <sup>*</sup> | 1-1/2 | 2-1/8    | 5/8     | 2-3/16   | .22                |
| 416-020               | 2     | 1-23/32  | 11/32   | 2-23/32  | .24                |
| 416-025               | 2-1/2 | 2-7/32   | 15/32   | 3- 1/2   | .69                |
| 416-025F <sup>*</sup> | 2-1/2 | 2-13/16  | 13/16   | 3- 1/4   | .66                |
| 416-030               | 3     | 2-3/8    | 1/2     | 4- 5/32  | .98                |
| 416-040               | 4     | 2-7/8    | 5/8     | 5-1/4    | 1.68               |
| 416-045F <sup>*</sup> | 4-1/2 | 3- 9/16  | 1- 1/16 | 5- 7/16  | 1.58               |
| 416-050F <sup>*</sup> | 5     | 4- 1/8   | 1- 1/8  | 6- 1/16  | 2.11               |
| 416-060               | 6     | 3-15/16  | 7/8     | 7-9/16   | 4.39               |
| 416-060F <sup>*</sup> | 6     | 4- 5/8   | 1- 3/8  | 7- 3/16  | 3.24               |
| 416-080               | 8     | 5-1/16   | 1-1/32  | 9- 3/4   | 8.38               |
| 416-080F <sup>*</sup> | 8     | 12-11/16 | 3-11/16 | 9-1/8    | 5.72               |
| 416-100F <sup>*</sup> | 10    | 7-5/16   | 2-1/16  | 11- 1/2  | 10.04              |
| 416-120F <sup>*</sup> | 12    | 8- 1/2   | 2- 1/4  | 13- 9/16 | 14.91              |
| 416-140F <sup>*</sup> | 14    | 9-3/4    | 2-3/4   | 14-7/8   | 20.77              |
| 416-160F <sup>*</sup> | 16    | 11- 1/4  | 3- 1/4  | 17       | 30.96              |
| 416-180F <sup>*</sup> | 18    | 12-11/16 | 3-11/16 | 19-1/8   | 46.31              |

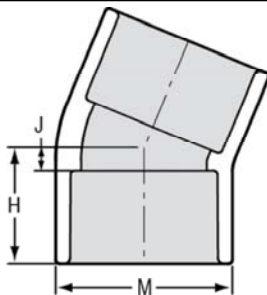


Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**

## 22-1/2° EII

Socket x Socket

(Continued)

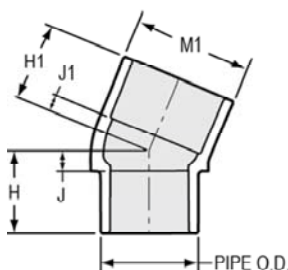


| Part Number | Size | H       | J      | M        | Approx. Wt. (Lbs.) |
|-------------|------|---------|--------|----------|--------------------|
| 416-200F*   | 20   | 14-1/8  | 4-1/8  | 21- 3/16 | 59.06              |
| 416-240F*   | 24   | 17-1/16 | 5-1/16 | 25-3/8   | 100.95             |

\* Fabricated

## 22-1/2° Street EII

Spigot x Socket



| Part Number | Size  | H       | H1      | J       | J1     | M1      | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|---------|--------|---------|--------------------|
| 442-005     | 1/2   | 1-1/8   | 15/16   | 4-1/4   | 1/32   | 1-3/16  | .04                |
| 442-007     | 3/4   | 1-11/32 | 1-1/8   | 5/16    | 1/8    | 1-13/32 | .07                |
| 442-010     | 1     | 1-1/2   | 1-11/32 | 3/8     | 3/16   | 1-23/32 | .13                |
| 442-012     | 1-1/4 | 1-11/16 | 1-1/2   | 7/16    | 1/4    | 2-3/32  | .19                |
| 442-015     | 1-1/2 | 1-27/32 | 1-11/16 | 15/32   | 5/16   | 2-11/32 | .26                |
| 442-020     | 2     | 2-1/16  | 1-7/8   | 17/32   | 3/8    | 2- 7/8  | .39                |
| 442-025     | 2-1/2 | 2- 7/32 | 2- 7/32 | 15/32   | 15/32  | 3- 1/2  | .66                |
| 442-025F*   | 2-1/2 | 4-11/16 | 1-11/16 | 1-15/16 | 5/16   | 3- 1/4  | .61                |
| 442-030     | 3     | 2-13/32 | 2-13/32 | 17/32   | 17/32  | 4- 5/32 | .95                |
| 442-040     | 4     | 3       | 2- 7/8  | 1- 7/8  | 5/8    | 5- 1/4  | 1.64               |
| 442-060     | 6     | 5-7/8   | 3-29/32 | 2-7/8   | 7/8    | 7-9/16  | 5.72               |
| 442-060F*   | 6     | 6-3/4   | 3-1/8   | 2-3/4   | 1/8    | 7-3/16  | 2.59               |
| 442-080     | 8     | 7-1/16  | 5- 1/8  | 3-1/16  | 1-1/16 | 9- 3/4  | 11.35              |
| 442-080F*   | 8     | 8-11/16 | 3-1/2   | 3-11/16 | 3/4    | 9-1/4   | 6.94               |
| 442-100F*   | 10    | 10-5/8  | 4-7/16  | 4-5/8   | 13/16  | 11-1/2  | 10.67              |
| 442-120F*   | 12    | 12-1/4  | 5-3/16  | 5-1/4   | 1-1/16 | 13-9/16 | 15.74              |

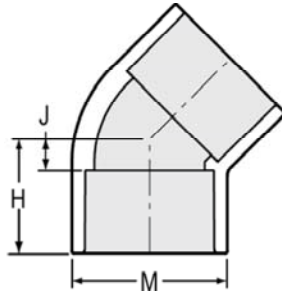
\* Fabricated

Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



### 45° Ell

Socket x Socket

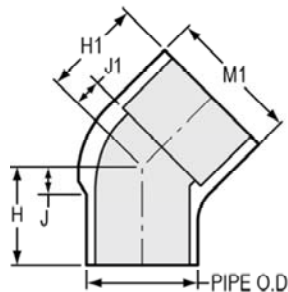


| Part Number           | Size  | H        | J       | M        | Approx. Wt. (Lbs.) |
|-----------------------|-------|----------|---------|----------|--------------------|
| 417-005               | 1/2   | 1        | 1/4     | 1- 3/32  | .03                |
| 417-007               | 3/4   | 1- 3/8   | 7/16    | 1- 5/16  | .07                |
| 417-010               | 1     | 1- 1/2   | 15/32   | 1-5/8    | .11                |
| 417-012               | 1-1/4 | 1-25/32  | 17/32   | 2        | .17                |
| 417-015               | 1-1/2 | 1-29/32  | 19/32   | 2- 1/4   | .22                |
| 417-020               | 2     | 2- 1/16  | 11/16   | 2- 3/4   | .31                |
| 417-025               | 2-1/2 | 2- 7/16  | 11/16   | 3- 3/8   | .56                |
| 417-030               | 3     | 2-27/32  | 27/32   | 4        | .83                |
| 417-040               | 4     | 3-1/8    | 1- 3/32 | 5        | 1.26               |
| 417-045F <sup>*</sup> | 4-1/2 | 4- 3/16  | 1-11/16 | 5- 7/16  | 1.67               |
| 417-050               | 5     | 4- 3/8   | 1- 3/8  | 6- 5/32  | 2.44               |
| 417-050F <sup>*</sup> | 5     | 4-13/16  | 1-13/16 | 6-1/16   | 2.29               |
| 417-060               | 6     | 4- 3/4   | 1-23/32 | 7- 9/32  | 3.58               |
| 417-080               | 8     | 6        | 2       | 9- 3/8   | 6.56               |
| 417-080F <sup>*</sup> | 8     | 6-7/8    | 2-5/8   | 9-1/4    | 7.44               |
| 417-100               | 10    | 7-11/16  | 2-5/8   | 12-3/16  | 18.98              |
| 417-100F <sup>*</sup> | 10    | 8-9/16   | 3-5/16  | 11-1/2   | 10.33              |
| 417-120               | 12    | 9-3/16   | 3- 3/32 | 14- 5/16 | 32.01              |
| 417-120F <sup>*</sup> | 12    | 10       | 3-3/4   | 13-9/16  | 15.96              |
| 417-140               | 14    | 10-11/32 | 3- 5/16 | 15- 5/8  | 39.64              |
| 417-140F <sup>*</sup> | 14    | 11-7/16  | 4-7/16  | 14- 7/8  | 25.96              |
| 417-160F <sup>*</sup> | 16    | 13-1/8   | 5-1/8   | 17       | 34.85              |
| 417-180F <sup>*</sup> | 18    | 14- 7/8  | 5- 7/8  | 19- 1/8  | 54.89              |
| 417-200F <sup>*</sup> | 20    | 16-9/16  | 6-9/16  | 21- 3/16 | 68.90              |
| 417-240F <sup>*</sup> | 24    | 19-15/16 | 7-15/16 | 25-3/8   | 117.78             |

\* Fabricated

### 45° Street Ell

Spigot x Socket



| Part Number | Size  | H       | H1      | J     | J1    | M1      | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|-------|-------|---------|--------------------|
| 427-005     | 1/2   | 1-3/8   | 1-1/8   | 15/32 | 1/4   | 1- 3/16 | .06                |
| 427-007     | 3/4   | 1-17/32 | 1-3/8   | 17/32 | 3/8   | 1-13/32 | .09                |
| 427-010     | 1     | 1-25/32 | 1-1/2   | 19/32 | 11/32 | 1-23/32 | .09                |
| 427-012     | 1-1/4 | 2       | 1-23/32 | 3/4   | 15/32 | 2- 3/32 | .22                |



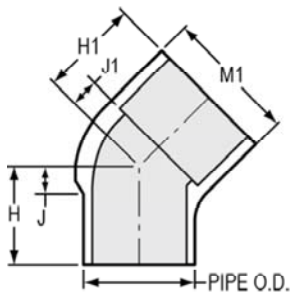
## Schedule 40 Fittings Technical

### Schedule 40 Fittings Dimensions & Information

#### 45° Street Ell

Spigot x Socket

(Continued)

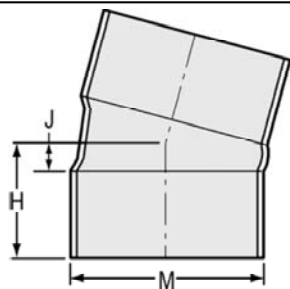


| Part Number | Size  | H        | H1       | J        | J1      | M1      | Approx. Wt. (Lbs.) |
|-------------|-------|----------|----------|----------|---------|---------|--------------------|
| 427-015     | 1-1/2 | 2-3/16   | 1-29/32  | 13/16    | 17/32   | 2-3/8   | .19                |
| 427-020     | 2     | 2-7/16   | 2-1/8    | 15/16    | 5/8     | 2-7/8   | .30                |
| 427-025     | 2-1/2 | 2-25/32  | 2-15/32  | 11/16    | 29/32   | 3-11/32 | .59                |
| 427-030     | 3     | 3-3/16   | 2-3/4    | 1-5/16   | 7/8     | 4-3/16  | 1.18               |
| 427-040     | 4     | 3-7/8    | 3-11/32  | 1-5/8    | 1-3/32  | 5-1/4   | 2.14               |
| 427-050     | 5     | 6        | 4- 3/8   | 2- 7/8   | 1- 3/8  | 6       | 3.55               |
| 427-060     | 6     | 5-1/8    | 4-3/4    | 2-1/8    | 1-3/4   | 7-19/32 | 5.72               |
| 427-080     | 8     | 6-19/32  | 6        | 2-9/16   | 2       | 9- 3/4  | 10.59              |
| 427-140F*   | 14    | 11-7/16  | 11-7/16  | 4-7/16   | 4-7/16  | 14-7/8  | 22.00              |
| 427-160F*   | 16    | 18-1/8   | 13-1/8   | 9-1/8    | 5-1/8   | 17      | 44.00              |
| 427-180F*   | 18    | 20-3/8   | 14-7/8   | 10-3/8   | 5-7/8   | 19-1/8  | 66.00              |
| 427-200F*   | 20    | 22-9/16  | 16-9/16  | 11-9/16  | 6-9/16  | 21-3/16 | 84.00              |
| 427-240F*   | 24    | 26-15/16 | 19-15/16 | 13-15/16 | 7-15/16 | 25-3/8  | 154.23             |

\* Fabricated

#### 15° Ell

Socket x Socket



| Part Number | Size  | H       | J      | M        | Approx. Wt. (Lbs.) |
|-------------|-------|---------|--------|----------|--------------------|
| 418-005F*   | 1/2   | 1- 5/16 | 5/16   | 1- 1/16  | .04                |
| 418-007F*   | 3/4   | 1- 5/16 | 5/16   | 1- 1/4   | .07                |
| 418-010F*   | 1     | 1- 5/8  | 3/8    | 1- 9/16  | .09                |
| 418-012F*   | 1-1/4 | 2       | 1/2    | 1-15/16  | .18                |
| 418-015F*   | 1-1/2 | 2       | 1/2    | 2- 3/16  | .22                |
| 418-020F*   | 2     | 2- 5/16 | 9/16   | 2-11/16  | .29                |
| 418-025F*   | 2-1/2 | 2- 3/4  | 3/4    | 3- 1/4   | .57                |
| 418-030F*   | 3     | 3       | 3/4    | 3-15/16  | .77                |
| 418-040F*   | 4     | 3-1/16  | 13/16  | 5        | 1.36               |
| 418-045F*   | 4-1/2 | 3- 3/8  | 7/8    | 5- 7/16  | 1.35               |
| 418-050F*   | 5     | 3- 7/8  | 7/8    | 6- 1/16  | 1.88               |
| 418-060F*   | 6     | 4- 3/8  | 1- 1/8 | 7- 3/16  | 2.66               |
| 418-080F*   | 8     | 5- 1/2  | 1- 1/4 | 9- 1/4   | 5.95               |
| 418-100F*   | 10    | 6-7/8   | 1-5/8  | 11- 1/2  | 9.41               |
| 418-120F*   | 12    | 8       | 1-3/4  | 13- 9/16 | 14.09              |

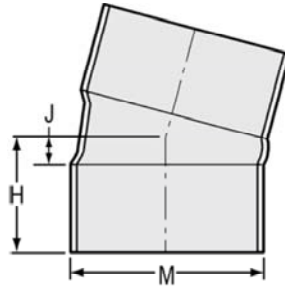
Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



**15° EII**

Socket x Socket

(Continued)

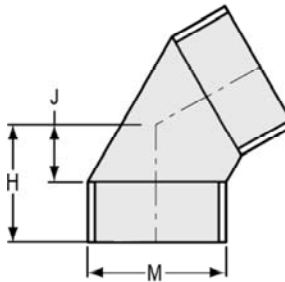


| Part Number           | Size | H       | J      | M       | Approx. Wt. (Lbs.) |
|-----------------------|------|---------|--------|---------|--------------------|
| 418-140F <sup>*</sup> | 14   | 9-1/4   | 2-1/4  | 14-7/8  | 20.77              |
| 418-160F <sup>*</sup> | 16   | 10- 5/8 | 2- 5/8 | 17      | 30.20              |
| 418-180F <sup>*</sup> | 18   | 12      | 3      | 19- 1/8 | 44.60              |
| 418-200F <sup>*</sup> | 20   | 13-7/16 | 3-7/16 | 21-3/16 | 57.09              |
| 418-240F <sup>*</sup> | 24   | 16-3/16 | 4-3/16 | 25-3/8  | 98.14              |

\* Fabricated

**60° EII**

Socket x Socket



| Part Number           | Size  | H        | J        | M        | Approx. Wt. (Lbs.) |
|-----------------------|-------|----------|----------|----------|--------------------|
| 424-005F <sup>*</sup> | 1/2   | 1- 5/8   | 5/8      | 1- 1/16  | .07                |
| 424-007F <sup>*</sup> | 3/4   | 1-11/16  | 11/16    | 1- 1/4   | .06                |
| 424-010F <sup>*</sup> | 1     | 2        | 3/4      | 1- 9/16  | .11                |
| 424-012F <sup>*</sup> | 1-1/4 | 2- 1/2   | 1        | 1-15/16  | .38                |
| 424-015F <sup>*</sup> | 1-1/2 | 2- 9/16  | 1- 1/16  | 2- 3/16  | .24                |
| 424-020F <sup>*</sup> | 2     | 2-15/16  | 1- 3/16  | 2-11/16  | .48                |
| 424-025F <sup>*</sup> | 2-1/2 | 3- 1/2   | 1- 1/2   | 3- 1/4   | .85                |
| 424-030F <sup>*</sup> | 3     | 3-15/16  | 1-11/16  | 3-15/16  | 1.19               |
| 424-040F <sup>*</sup> | 4     | 4- 1/4   | 2        | 5        | 1.70               |
| 424-045F <sup>*</sup> | 4-1/2 | 4- 5/8   | 2- 1/8   | 5- 7/16  | .15                |
| 424-050F <sup>*</sup> | 5     | 5- 5/16  | 2- 5/16  | 6- 1/16  | 2.42               |
| 424-060F <sup>*</sup> | 6     | 6- 1/16  | 2-13/16  | 7- 3/16  | 3.54               |
| 424-080F <sup>*</sup> | 8     | 7- 5/8   | 3- 3/8   | 9- 1/4   | 6.60               |
| 424-100F <sup>*</sup> | 10    | 9-9/16   | 4-5/16   | 11- 1/2  | 11.60              |
| 424-120F <sup>*</sup> | 12    | 11-3/16  | 4- 15/16 | 13- 9/16 | 17.46              |
| 424-140F <sup>*</sup> | 14    | 12-3/4   | 5-3/4    | 14-7/8   | 28.03              |
| 424-160F <sup>*</sup> | 16    | 14-5/8   | 6-5/8    | 17       | 36.38              |
| 424-180F <sup>*</sup> | 18    | 16-9/16  | 7-9/16   | 19-1/8   | 60.04              |
| 424-200F <sup>*</sup> | 20    | 23-11/16 | 13-11/16 | 22-1/16  | 106.31             |
| 424-240F <sup>*</sup> | 24    | 28-3/8   | 16-3/8   | 25-3/8   | 122.08             |

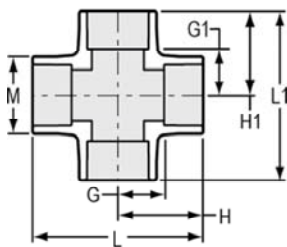
\* Fabricated



## Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

### Cross

Socket x Socket x Socket x Socket

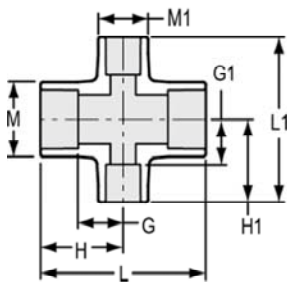


| Part Number | Size  | G       | G1       | H        | H1       | L       | L1      | M        | Approx. Wt. (Lbs.) |
|-------------|-------|---------|----------|----------|----------|---------|---------|----------|--------------------|
| 420-005     | 1/2   | 1/2     | 1/2      | 1-1/4    | 1-1/4    | 2-1/2   | 2-1/2   | 1- 3/32  | .07                |
| 420-007     | 3/4   | 9/16    | 9/16     | 1- 9/16  | 1- 9/16  | 3- 1/8  | 3- 1/8  | 1- 5/16  | .11                |
| 420-010     | 1     | 13/16   | 13/16    | 1-15/16  | 1-15/16  | 3- 7/8  | 3- 7/8  | 1- 5/8   | .23                |
| 420-012     | 1-1/4 | 1- 3/32 | 1- 3/32  | 2-11/32  | 2-11/32  | 4-11/16 | 4-11/16 | 2-1/32   | .42                |
| 420-015     | 1-1/2 | 1-9/32  | 1-9/32   | 2-19/32  | 2-19/32  | 5-3/16  | 5-3/16  | 2-9/32   | .53                |
| 420-020     | 2     | 1-9/16  | 1-9/16   | 2-15/16  | 2-15/16  | 5-7/8   | 5-7/8   | 2-13/16  | .78                |
| 420-025     | 2-1/2 | 1-11/16 | 1-11/16  | 3-11/16  | 3-11/16  | 7-3/8   | 7-3/8   | 3- 3/8   | 1.54               |
| 420-030     | 3     | 2- 1/16 | 2- 1/16  | 3-31/32  | 3-31/32  | 7-15/16 | 7-15/16 | 4        | 1.74               |
| 420-040     | 4     | 2- 1/2  | 2- 1/2   | 4-17/32  | 4-17/32  | 9-1/16  | 9-1/16  | 5- 1/32  | 3.23               |
| 420-050F*   | 5     | 6       | 6        | 9        | 9        | 18      | 18      | 6- 1/16  | 9.55               |
| 420-060F*   | 6     | 6- 3/16 | 6- 3/16  | 9- 7/16  | 9- 7/16  | 18- 7/8 | 18- 7/8 | 7- 3/16  | 11.75              |
| 420-080F*   | 8     | 8- 9/16 | 8- 9/16  | 12-13/16 | 12-13/16 | 25- 5/8 | 25- 5/8 | 9- 1/4   | 29.27              |
| 420-100F*   | 10    | 9- 7/8  | 9- 3/8   | 15- 1/8  | 14- 5/8  | 30- 1/4 | 29- 1/4 | 11- 1/2  | 42.69              |
| 420-120F*   | 12    | 10- 3/4 | 10- 3/16 | 17       | 16- 7/16 | 34      | 32- 7/8 | 13- 9/16 | 65.48              |
| 420-140F*   | 14    | 11- 1/4 | 11       | 18- 3/8  | 18       | 36- 3/4 | 36      | 14- 7/8  | 86.19              |
| 420-160F*   | 16    | 15      | 12- 7/8  | 23       | 20- 7/8  | 46      | 41- 3/4 | 17       | 131.31             |
| 420-180F*   | 18    | 15- 7/8 | 13- 3/8  | 24- 7/8  | 22- 3/8  | 49- 3/4 | 44- 3/4 | 19- 1/8  | 186.98             |
| 420-200F*   | 20    | 18- 1/4 | 15-7/16  | 28- 1/4  | 25-7/16  | 56- 1/2 | 50-7/8  | 21- 3/16 | 244.12             |
| 420-240F*   | 24    | 21- 1/8 | 17- 1/2  | 33- 1/8  | 29- 1/2  | 66- 1/4 | 59      | 25- 3/8  | 398.21             |

\* Fabricated

### Cross - Reducing

Socket x Socket x Socket x Socket



| Part Number          | Size      | G       | G1      | H       | H1      | L       | L1      | M       | M1      | Approx. Wt. (Lbs.) |
|----------------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|--------------------|
| 420-101 <sup>1</sup> | 3/4X1/2   | 9/16    | 15/16   | 1- 9/16 | 1-11/16 | 3- 1/8  | 3-7/8   | 1- 5/16 | 1- 5/16 | .15                |
| 420-131              | 1X3/4     | 23/32   | 5/8     | 1- 5/8  | 1- 5/8  | 3- 1/4  | 3- 1/4  | 1- 7/8  | 1-1/2   | .29                |
| 420-167 <sup>1</sup> | 1-1/4X3/4 | 1-3/32  | 1-11/16 | 2-11/32 | 2-5/8   | 4-11/16 | 5-1/4   | 2- 1/32 | 2- 1/32 | .64                |
| 420-168 <sup>1</sup> | 1-1/4X1   | 1- 3/32 | 1- 9/16 | 2-11/32 | 2- 5/8  | 4-23/32 | 5- 7/32 | 2- 1/16 | 2- 1/16 | .54                |
| 420-248 <sup>1</sup> | 2X3/4     | 11/16   | 1- 7/16 | 2- 7/32 | 2- 7/16 | 4-13/32 | 4- 7/8  | 2-29/32 | 1-13/32 | .54                |
| 420-249              | 2X1       | 13/16   | 1- 3/8  | 2- 3/16 | 2- 1/2  | 4- 3/8  | 5       | 2- 3/4  | 1- 5/8  | .41                |
| 420-250 <sup>1</sup> | 2X1-1/4   | 1- 9/16 | 1-29/32 | 2-15/16 | 3-5/32  | 5-7/8   | 6-5/16  | 2-13/16 | 2-13/16 | 1.14               |
| 420-251 <sup>1</sup> | 2X1-1/2   | 1-9/16  | 1-27/32 | 2-15/16 | 3-5/32  | 7-5/8   | 6-5/16  | 2-13/16 | 2-13/16 | 1.04               |
| 420-288 <sup>1</sup> | 2-1/2X3/4 | 1-11/16 | 3-1/32  | 3-11/16 | 3-31/32 | 7-3/8   | 7-15/16 | 3- 3/8  | 3- 3/8  | 2.21               |

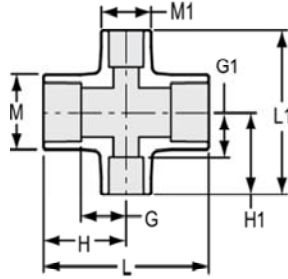
**Schedule 40 Fittings Technical**  
**Schedule 40 Fittings Dimensions & Information**



**Cross - Reducing**

Socket x Socket x Socket x Socket

(Continued)



| Part Number           | Size     | G       | G1       | H        | H1       | L       | L1      | M        | M1       | Approx. Wt. (Lbs.) |
|-----------------------|----------|---------|----------|----------|----------|---------|---------|----------|----------|--------------------|
| 420-289 <sup>1</sup>  | 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   | .96                |
| 420-335 <sup>1</sup>  | 3X1      | 2-3/32  | 3- 1/4   | 3-31/32  | 4-9/32   | 7-15/16 | 8-9/16  | 4        | 4        | 2.71               |
| 420-336 <sup>1</sup>  | 3X1-1/4  | 2-3/32  | 3-3/32   | 3-31/32  | 4-11/32  | 7-15/16 | 8-11/16 | 4        | 4        | 2.71               |
| 420-337 <sup>1</sup>  | 3X1-1/2  | 2-3/32  | 3-1/32   | 3-31/32  | 4-11/32  | 7-15/16 | 8-11/16 | 4        | 4        | 2.76               |
| 420-338 <sup>1</sup>  | 3X2      | 2-3/32  | 2-13/16  | 3-31/32  | 4- 9/32  | 7-15/16 | 8- 9/16 | 4        | 4        | 2.67               |
| 420-339 <sup>1</sup>  | 3X2-1/2  | 2-3/32  | 2-1/2    | 3-31/32  | 4-9/32   | 7-15/16 | 8-9/16  | 4        | 4        | 2.48               |
| 420-420 <sup>1</sup>  | 4X2      | 2- 1/2  | 3-17/32  | 4-17/32  | 4-29/32  | 9-1/16  | 9-13/16 | 5- 1/32  | 5-1/32   | 4.88               |
| 420-421 <sup>1</sup>  | 4X2-1/2  | 2- 1/2  | 3-1/32   | 4-17/32  | 4-13/16  | 9-1/16  | 9-5/8   | 5-1/32   | 5-1/32   | 4.74               |
| 420-422 <sup>1</sup>  | 4X3      | 2- 1/2  | 2-15/16  | 4-17/32  | 4-27/32  | 9-1/16  | 9-11/16 | 5-1/32   | 5-1/32   | 4.81               |
| 420-528F <sup>+</sup> | 6X2      | 5- 1/8  | 5- 5/16  | 8- 3/8   | 7- 1/16  | 16- 3/4 | 14- 1/8 | 7- 3/16  | 2-11/16  | 7.21               |
| 420-529F <sup>+</sup> | 6X2 1/2  | 5- 3/8  | 5-13/16  | 8- 5/8   | 7-13/16  | 17- 1/4 | 15- 5/8 | 7- 3/16  | 3- 1/4   | 8.56               |
| 420-530F <sup>+</sup> | 6X3      | 5- 7/8  | 6- 1/16  | 9- 1/8   | 8- 5/16  | 18- 1/4 | 16- 5/8 | 7- 3/16  | 3-15/16  | 8.83               |
| 420-532F <sup>+</sup> | 6X4      | 6- 1/2  | 6- 3/8   | 9- 3/4   | 8- 5/8   | 19- 1/2 | 17- 1/4 | 7- 3/16  | 5        | 10.20              |
| 420-578F <sup>+</sup> | 8X2      | 5- 5/16 | 6- 1/4   | 9- 9/16  | 8        | 19- 1/8 | 16      | 9- 1/4   | 2-11/16  | 14.37              |
| 420-579F <sup>+</sup> | 8X2 1/2  | 5-9/16  | 6-3/4    | 9-13/16  | 8-3/4    | 19-5/8  | 17-1/2  | 9-1/4    | 3-1/4    | 14.29              |
| 420-580F <sup>+</sup> | 8X3      | 5-11/16 | 7        | 9-15/16  | 9- 1/4   | 19- 7/8 | 18- 1/2 | 9- 1/4   | 3-15/16  | 15.70              |
| 420-582F <sup>+</sup> | 8X4      | 6- 5/16 | 7- 5/16  | 10- 9/16 | 9- 9/16  | 21- 1/8 | 19- 1/8 | 9- 1/4   | 5        | 17.10              |
| 420-585F <sup>+</sup> | 8X6      | 7- 5/16 | 7- 3/8   | 11- 9/16 | 10- 5/8  | 23- 1/8 | 21- 1/4 | 9- 1/4   | 7- 3/16  | 20.11              |
| 420-621F <sup>+</sup> | 10X2     | 4- 7/8  | 7- 1/4   | 10- 1/8  | 9        | 20- 1/4 | 18      | 11- 1/2  | 2-11/16  | 18.96              |
| 420-622F <sup>+</sup> | 10X2-1/2 | 5- 5/8  | 7- 3/4   | 10- 7/8  | 9- 3/4   | 21- 3/4 | 19- 1/2 | 11- 1/2  | 3- 1/4   | 21.13              |
| 420-623F <sup>+</sup> | 10X3     | 5- 3/8  | 8        | 10- 5/8  | 10- 1/4  | 21- 1/4 | 20- 1/2 | 11- 1/2  | 3-15/16  | 20.02              |
| 420-624F <sup>+</sup> | 10X4     | 5- 7/8  | 8- 5/16  | 11- 1/8  | 10- 9/16 | 22- 1/4 | 21- 1/8 | 11- 1/2  | 5        | 22.73              |
| 420-626F <sup>+</sup> | 10X6     | 6- 7/8  | 8- 3/8   | 12- 1/8  | 11- 5/8  | 24- 1/4 | 23- 1/4 | 11- 1/2  | 7- 3/16  | 26.47              |
| 420-628F <sup>+</sup> | 10X8     | 8- 1/2  | 8- 5/16  | 13- 3/4  | 12- 9/16 | 27- 1/2 | 25- 1/8 | 11- 1/2  | 9- 1/4   | 33.72              |
| 420-661F <sup>+</sup> | 12X2     | 5- 1/4  | 8- 1/4   | 11- 1/2  | 10       | 23      | 20      | 13- 9/16 | 2-11/16  | 27.06              |
| 420-662F <sup>+</sup> | 12X2-1/2 | 5- 3/4  | 8- 3/4   | 12       | 10- 3/4  | 24      | 21- 1/2 | 13- 9/16 | 3- 1/4   | 29.22              |
| 420-663F <sup>+</sup> | 12X3     | 5- 3/4  | 9        | 12       | 11- 1/4  | 24      | 22- 1/2 | 13- 9/16 | 3-15/16  | 27.42              |
| 420-664F <sup>+</sup> | 12X4     | 7       | 9- 5/16  | 13- 1/4  | 11- 9/16 | 26- 1/2 | 23- 1/8 | 13- 9/16 | 5        | 34.36              |
| 420-666F <sup>+</sup> | 12X6     | 8       | 9- 3/8   | 14- 1/4  | 12- 5/8  | 28- 1/2 | 25- 1/4 | 13- 9/16 | 7- 3/16  | 39.38              |
| 420-668F <sup>+</sup> | 12X8     | 8- 3/4  | 9- 5/16  | 15       | 13- 9/16 | 30      | 27- 1/8 | 13- 9/16 | 9- 1/4   | 45.23              |
| 420-670F <sup>+</sup> | 12X10    | 10- 1/4 | 10- 3/8  | 16- 1/2  | 15- 5/8  | 33      | 31- 1/4 | 13- 9/16 | 11- 1/2  | 54.83              |
| 420-691F <sup>+</sup> | 14X2     | 5- 7/8  | 8-13/16  | 12- 7/8  | 10- 9/16 | 25- 3/4 | 21- 1/8 | 14- 7/8  | 2-11/16  | 36.88              |
| 420-693F <sup>+</sup> | 14X3     | 6- 1/2  | 9- 9/16  | 13- 1/2  | 11-13/16 | 27      | 23- 5/8 | 14- 7/8  | 3-15/16  | 40.77              |
| 420-694F <sup>+</sup> | 14X4     | 7- 3/8  | 9- 7/8   | 14- 3/8  | 12- 1/8  | 28- 3/4 | 24- 1/4 | 14- 7/8  | 5        | 44.62              |
| 420-696F <sup>+</sup> | 14X6     | 7- 7/8  | 9-15/16  | 14- 7/8  | 13- 3/16 | 29- 3/4 | 26- 3/8 | 14- 7/8  | 7- 3/16  | 49.43              |
| 420-698F <sup>+</sup> | 14X8     | 8- 7/8  | 9- 7/8   | 15- 7/8  | 14- 1/8  | 31- 3/4 | 28- 1/4 | 14- 7/8  | 9- 1/4   | 53.85              |
| 420-700F <sup>+</sup> | 14X10    | 10- 3/8 | 10-15/16 | 17- 3/8  | 16- 3/16 | 34- 3/4 | 32- 3/8 | 14- 7/8  | 11- 1/2  | 68.63              |
| 420-702F <sup>+</sup> | 14X12    | 11- 3/8 | 10- 3/4  | 18- 3/8  | 17       | 36- 3/4 | 34      | 14- 7/8  | 13- 9/16 | 66.56              |
| 420-751F <sup>+</sup> | 16X2     | 6- 3/8  | 9- 3/4   | 14- 3/8  | 11- 1/2  | 28- 3/4 | 23      | 17       | 2-11/16  | 66.96              |

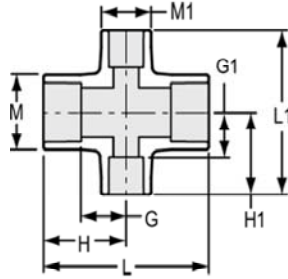


Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**

**Cross - Reducing**

Socket x Socket x Socket x Socket

(Continued)



| Part Number           | Size  | G       | G1       | H       | H1       | L       | L1      | M        | M1       | Approx. Wt. (Lbs.) |
|-----------------------|-------|---------|----------|---------|----------|---------|---------|----------|----------|--------------------|
| 420-753F <sup>1</sup> | 16X3  | 6- 1/2  | 10- 1/2  | 14- 1/2 | 12- 3/4  | 29      | 25- 1/2 | 17       | 3-15/16  | 42.85              |
| 420-754F <sup>1</sup> | 16X4  | 8       | 10-13/16 | 16      | 13- 1/16 | 32      | 26- 1/8 | 17       | 5        | 61.13              |
| 420-756F <sup>1</sup> | 16X6  | 9       | 10- 7/8  | 17      | 14- 1/8  | 34      | 28- 1/4 | 17       | 7- 3/16  | 66.59              |
| 420-758F <sup>1</sup> | 16X8  | 10      | 10-13/16 | 18      | 15- 1/16 | 36      | 30- 1/8 | 17       | 9- 1/4   | 78.84              |
| 420-760F <sup>1</sup> | 16X10 | 11      | 11- 7/8  | 19      | 17- 1/8  | 38      | 34- 1/4 | 17       | 11- 1/2  | 80.00              |
| 420-762F <sup>1</sup> | 16X12 | 12      | 11-11/16 | 20      | 17-15/16 | 40      | 35- 7/8 | 17       | 13- 9/16 | 103.58             |
| 420-764F <sup>1</sup> | 16X14 | 13      | 11-15/16 | 21      | 18-15/16 | 42      | 37- 7/8 | 17       | 14- 7/8  | 108.37             |
| 420-781F <sup>1</sup> | 18X2  | 6- 1/4  | 10-11/16 | 15- 1/4 | 12- 7/16 | 30- 1/2 | 24- 7/8 | 19- 1/8  | 2-11/16  | 72.58              |
| 420-783F <sup>1</sup> | 18X3  | 7- 1/4  | 11- 7/16 | 16- 1/4 | 13-11/16 | 32- 1/2 | 27- 3/8 | 19- 1/8  | 3-15/16  | 78.50              |
| 420-784F <sup>1</sup> | 18X4  | 7- 3/4  | 11- 3/4  | 16- 3/4 | 14       | 33- 1/2 | 28      | 19- 1/8  | 5        | 78.50              |
| 420-786F <sup>1</sup> | 18X6  | 8- 3/4  | 11-13/16 | 17- 3/4 | 15- 1/16 | 35- 1/2 | 30- 1/8 | 19- 1/8  | 7- 3/16  | 91.22              |
| 420-788F <sup>1</sup> | 18X8  | 9- 3/4  | 11- 3/4  | 18- 3/4 | 16       | 37- 1/2 | 32      | 19- 1/8  | 9- 1/4   | 102.28             |
| 420-790F <sup>1</sup> | 18X10 | 10- 3/4 | 12-13/16 | 19- 3/4 | 18- 1/16 | 39- 1/2 | 36- 1/8 | 19- 1/8  | 11- 1/2  | 89.64              |
| 420-792F <sup>1</sup> | 18X12 | 11- 3/4 | 12- 5/8  | 20- 3/4 | 18- 7/8  | 41- 1/2 | 37- 3/4 | 19- 1/8  | 13- 9/16 | 133.17             |
| 420-794F <sup>1</sup> | 18X14 | 12- 7/8 | 12- 7/8  | 21- 7/8 | 19- 7/8  | 43- 3/4 | 39- 3/4 | 19- 1/8  | 14- 7/8  | 133.94             |
| 420-796F <sup>1</sup> | 18X16 | 13- 7/8 | 13-13/16 | 22- 7/8 | 21-13/16 | 45- 3/4 | 43- 5/8 | 19- 1/8  | 17       | 184.29             |
| 420-811F <sup>1</sup> | 20X2  | 6- 3/4  | 12- 7/16 | 16- 3/4 | 14- 3/16 | 33- 1/2 | 28- 3/8 | 21- 3/16 | 2-11/16  | 89.19              |
| 420-813F <sup>1</sup> | 20X3  | 7- 1/4  | 12- 7/16 | 17- 1/4 | 14-11/16 | 34- 1/2 | 29- 3/8 | 21- 3/16 | 3-15/16  | 93.84              |
| 420-814F <sup>1</sup> | 20X4  | 8- 1/4  | 12- 3/4  | 18- 1/4 | 15       | 36- 1/2 | 30      | 21- 3/16 | 5        | 100.48             |
| 420-816F <sup>1</sup> | 20X6  | 9- 1/4  | 12-13/16 | 19- 1/4 | 16- 1/16 | 38- 1/2 | 32- 1/8 | 21- 3/16 | 7- 3/16  | 110.05             |
| 420-818F <sup>1</sup> | 20X8  | 10- 1/4 | 12- 3/4  | 20- 1/4 | 17       | 40- 1/2 | 34      | 21- 3/16 | 9- 1/4   | 122.12             |
| 420-820F <sup>1</sup> | 20X10 | 11- 1/4 | 13-13/16 | 21- 1/4 | 19- 1/16 | 42- 1/2 | 38- 1/8 | 21- 3/16 | 11- 1/2  | 134.62             |
| 420-822F <sup>1</sup> | 20X12 | 12- 1/4 | 13- 5/8  | 22- 1/4 | 19- 7/8  | 44- 1/2 | 39- 3/4 | 21- 3/16 | 13- 9/16 | 148.17             |
| 420-824F <sup>1</sup> | 20X14 | 13- 1/4 | 13- 7/8  | 23- 1/4 | 20- 7/8  | 46- 1/2 | 41- 3/4 | 21- 3/16 | 14- 7/8  | 162.74             |
| 420-826F <sup>1</sup> | 20X16 | 14- 1/4 | 14-13/16 | 24- 1/4 | 22-13/16 | 48- 1/2 | 45- 5/8 | 21- 3/16 | 17       | 184.42             |
| 420-828F <sup>1</sup> | 20X18 | 15- 1/4 | 14- 3/8  | 25- 1/4 | 23- 3/8  | 50- 1/2 | 46- 3/4 | 21- 3/16 | 19- 1/8  | 208.96             |
| 420-901F <sup>1</sup> | 24X2  | 8- 1/8  | 14- 5/16 | 20- 1/8 | 16- 1/16 | 40- 1/4 | 32- 1/8 | 25- 3/8  | 2-11/16  | 95.94              |
| 420-903F <sup>1</sup> | 24X3  | 8- 5/8  | 14- 5/16 | 20- 5/8 | 16- 9/16 | 41- 1/4 | 33- 1/8 | 25- 3/8  | 3-15/16  | 152.74             |
| 420-904F <sup>1</sup> | 24X4  | 9- 1/8  | 14- 5/8  | 21- 1/8 | 16- 7/8  | 42- 1/4 | 33- 3/4 | 25- 3/8  | 5        | 159.08             |
| 420-906F <sup>1</sup> | 24X6  | 10- 1/8 | 14-11/16 | 22- 1/8 | 17-15/16 | 44- 1/4 | 35- 7/8 | 25- 3/8  | 7- 3/16  | 171.99             |
| 420-908F <sup>1</sup> | 24X8  | 11- 1/8 | 14- 5/8  | 23- 1/8 | 18- 7/8  | 46- 1/4 | 37- 3/4 | 25- 3/8  | 9- 1/4   | 187.41             |
| 420-910F <sup>1</sup> | 24X10 | 12- 1/8 | 15-11/16 | 24- 1/8 | 20-15/16 | 48- 1/4 | 41- 7/8 | 25- 3/8  | 11- 1/2  | 203.25             |
| 420-912F <sup>1</sup> | 24X12 | 13- 1/8 | 15- 1/2  | 25- 1/8 | 21- 3/4  | 50- 1/4 | 43- 1/2 | 25- 3/8  | 13- 9/16 | 220.14             |
| 420-914F <sup>1</sup> | 24X14 | 13- 3/4 | 15- 3/4  | 25- 3/4 | 22- 3/4  | 51- 1/2 | 45- 1/2 | 25- 3/8  | 14- 7/8  | 235.24             |
| 420-916F <sup>1</sup> | 24X16 | 14- 3/4 | 16-11/16 | 26- 3/4 | 24-11/16 | 53- 1/2 | 49- 3/8 | 25- 3/8  | 17       | 258.30             |
| 420-918F <sup>1</sup> | 24X18 | 15- 3/4 | 16- 1/4  | 27- 3/4 | 25- 1/4  | 55- 1/2 | 50- 1/2 | 25- 3/8  | 19- 1/8  | 284.22             |
| 420-920F <sup>1</sup> | 24X20 | 16- 3/4 | 17-5/16  | 28- 3/4 | 27-5/16  | 57- 1/2 | 54-5/8  | 25- 3/8  | 21- 3/16 | 310.91             |

<sup>1</sup> Outlet sized with Bushing

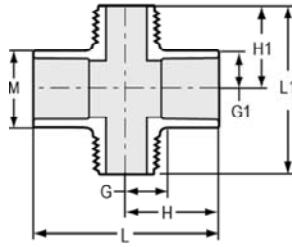
\* Fabricated

Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



### Cross

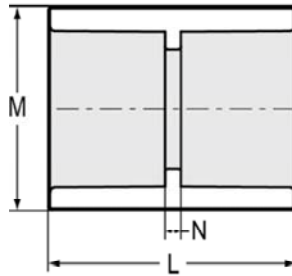
Socket x Mipt x Socket x Mipt



| Part Number | Size | G     | G1    | H       | H1     | L      | L1     | M      | Approx. Wt. (Lbs.) |
|-------------|------|-------|-------|---------|--------|--------|--------|--------|--------------------|
| 421A-010    | 1    | 21/32 | 13/16 | 1-23/32 | 1- 7/8 | 3-7/16 | 3- 3/4 | 1- 5/8 | .18                |

### Coupling

Socket x Socket



| Part Number | Size  | M        | N      | Approx. Wt. (Lbs.) |
|-------------|-------|----------|--------|--------------------|
| 429-003     | 3/8   | 7/8      | 1/16   | .03                |
| 429-005     | 1/2   | 1- 3/32  | 3/32   | .03                |
| 429-005N    | 1/2   | 1-1/16   | 3/32   | .02                |
| 429-007     | 3/4   | 1- 5/16  | 3/32   | .05                |
| 429-007N    | 3/4   | 1- 5/16  | 3/32   | .05                |
| 429-010     | 1     | 1-5/8    | 3/32   | .07                |
| 429-010N    | 1     | 1-21/32  | 3/32   | .09                |
| 429-012     | 1-1/4 | 1-31/32  | 3/32   | .10                |
| 429-015     | 1-1/2 | 2- 7/32  | 3/32   | .14                |
| 429-020     | 2     | 2- 3/4   | 3/32   | .20                |
| 429-025     | 2-1/2 | 3-11/32  | 3/16   | .40                |
| 429-030     | 3     | 4        | 3/16   | .56                |
| 429-040     | 4     | 5- 1/32  | 3/16   | .85                |
| 429-045F*   | 4-1/2 | 5- 7/16  | 1-1/4  | 1.45               |
| 429-050     | 5     | 6-1/4    | 3/16   | 1.66               |
| 429-060     | 6     | 7- 1/4   | 1/4    | 2.15               |
| 429-080     | 8     | 9-3/8    | 1/4    | 4.18               |
| 429-100     | 10    | 11- 9/16 | 3/8    | 7.29               |
| 429-100F*   | 10    | 11- 1/2  | 1- 7/8 | 8.39               |
| 429-120     | 12    | 13-11/16 | 3/8    | 11.71              |
| 429-120F*   | 12    | 13- 9/16 | 2- 1/4 | 13.26              |
| 429-140     | 14    | 15-5/8   | 3/8    | 27.26              |
| 429-140F*   | 14    | 14- 7/8  | 2- 1/4 | 17.65              |
| 429-160F*   | 16    | 17       | 2- 5/8 | 27.00              |
| 429-180F*   | 18    | 19- 1/8  | 3- 3/4 | 39.45              |
| 429-200F*   | 20    | 21- 3/16 | 4      | 51.18              |
| 429-240F*   | 24    | 25- 3/8  | 5- 1/4 | 82.20              |

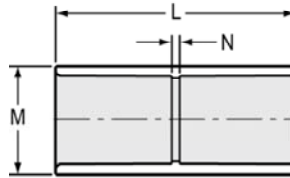
\* Fabricated



## Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

### Coupling - Deep Socket

Socket x Socket

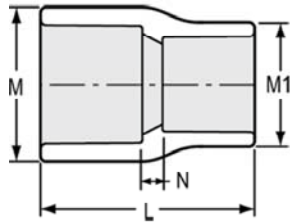


| Part Number           | Size  | L       | M       | N     | Approx. Wt. (Lbs.) |
|-----------------------|-------|---------|---------|-------|--------------------|
| 479-005N              | 1/2   | 2- 1/2  | 1- 1/16 | 3/32  | .03                |
| 479-007               | 3/4   | 2- 7/8  | 1- 5/16 | 3/32  | .07                |
| 479-010               | 1     | 3- 5/8  | 1- 5/8  | 3/32  | .12                |
| 479-012               | 1-1/4 | 4-3/32  | 1-31/32 | 3/32  | .18                |
| 479-015               | 1-1/2 | 4-19/32 | 2- 1/4  | 3/32  | .24                |
| 479-020               | 2     | 5- 3/32 | 2- 3/4  | 3/32  | .36                |
| 479-025               | 2-1/2 | 7-7/16  | 3- 5/16 | 3/16  | .79                |
| 479-030               | 3     | 7-15/16 | 3-31/32 | 3/16  | 1.05               |
| 479-040               | 4     | 8-3/16  | 5       | 3/16  | 1.53               |
| 479-045F <sup>*</sup> | 4-1/2 | 9-1/2   | 5-7/16  | 1-1/2 | 1.91               |
| 479-050F <sup>*</sup> | 5     | 15-3/4  | 6-1/16  | 1-3/4 | 4.00               |
| 479-060F <sup>*</sup> | 6     | 12      | 7-3/16  | 1-1/2 | 3.72               |

\* Fabricated

### Coupling - Reducer

Socket x Socket



| Part Number          | Size        | L       | M       | M1      | N      | Approx. Wt. (Lbs.) |
|----------------------|-------------|---------|---------|---------|--------|--------------------|
| 429-101              | 3/4X1/2     | 1-25/32 | 1- 5/16 | 1- 3/32 | 3/32   | .03                |
| 429-130              | 1X1/2       | 2- 7/32 | 1- 5/8  | 1- 3/32 | 13/32  | .07                |
| 429-131              | 1X3/4       | 2- 1/8  | 1- 5/8  | 1- 5/16 | 1/8    | .06                |
| 429-166              | 1-1/4X1/2   | 2- 9/16 | 2- 3/32 | 1- 5/32 | 7/16   | .13                |
| 429-167              | 1-1/4X3/4   | 2-19/32 | 1-31/32 | 1- 5/16 | 13/32  | .10                |
| 429-168              | 1-1/4X1     | 2-11/16 | 2-3/32  | 1-23/32 | 5/16   | .16                |
| 429-210              | 1-1/2X3/4   | 2-7/8   | 2-7/16  | 1-13/32 | 15/32  | .21                |
| 429-211              | 1-1/2X1     | 2-11/16 | 2- 7/32 | 1- 5/8  | 11/32  | .13                |
| 429-212              | 1-1/2X1-1/4 | 2-13/16 | 2-13/32 | 2- 1/8  | 5/32   | .21                |
| 429-247              | 2X1/2       | 3- 3/32 | 2- 7/8  | 1- 5/32 | 11/16  | .29                |
| 429-248              | 2X3/4       | 3-7/32  | 2-7/8   | 1-7/16  | 11/16  | .30                |
| 429-249              | 2X1         | 3- 1/2  | 3       | 1-3/4   | 13/16  | .36                |
| 429-250              | 2X1-1/4     | 3-1/16  | 2-23/32 | 1-31/32 | 1/2    | .19                |
| 429-251              | 2X1-1/2     | 2-13/16 | 2-23/32 | 2- 1/4  | 1/8    | .18                |
| 429-291              | 2-1/2X1-1/2 | 3- 3/4  | 3- 1/2  | 2- 3/8  | 19/32  | .51                |
| 429-292              | 2-1/2X2     | 3-21/32 | 3-1/2   | 2- 7/8  | 3/8    | .48                |
| 429-335 <sup>1</sup> | 3X1         | 4-1/4   | 4-5/32  | 2-7/8   | 1-5/16 | .91                |
| 429-337              | 3X1-1/2     | 3-1/2   | 4-3/16  | 2-3/8   | 7/32   | .69                |

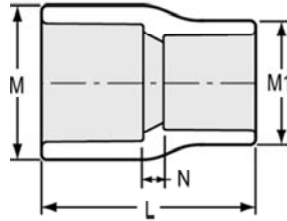
Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



## Coupling - Reducer

Socket x Socket

(Continued)



| Part Number           | Size    | L        | M        | M1      | N       | Approx. Wt.<br>(Lbs.) |
|-----------------------|---------|----------|----------|---------|---------|-----------------------|
| 429-338               | 3X2     | 4        | 4-5/32   | 2-7/8   | 19/32   | .74                   |
| 429-339               | 3X2-1/2 | 4-5/32   | 4        | 3-11/32 | 1/2     | .56                   |
| 429-340F <sup>+</sup> | 3X2-1/2 | 5- 5/8   | 3- 7/8   | 3- 1/4  | 1- 3/8  | .68                   |
| 429-416 <sup>1</sup>  | 4X3/4   | 5-1/4    | 5- 1/32  | 2-3/4   | 2-1/4   | 1.03                  |
| 429-417 <sup>1</sup>  | 4X1     | 5-1/4    | 5-1/32   | 2-25/32 | 2-5/32  | 1.03                  |
| 429-420               | 4X2     | 5        | 5-1/32   | 2-3/4   | 1- 5/8  | .87                   |
| 429-421               | 4X2-1/2 | 4-25/32  | 5-1/4    | 3-1/2   | 25/32   | 1.27                  |
| 429-422               | 4X3     | 4- 5/8   | 5- 1/4   | 4- 5/32 | 15/32   | 1.25                  |
| 429-422F <sup>+</sup> | 4X3     | 6-1/2    | 4-15/16  | 3-15/16 | 2       | 1.07                  |
| 429-460F <sup>+</sup> | 4-1/2X4 | 6-11/16  | 5- 7/16  | 5       | 1-15/16 | 1.27                  |
| 429-486F <sup>+</sup> | 5X2     | 8-1/16   | 6-1/16   | 5-5/16  | 3-11/16 | 2.42                  |
| 429-487F <sup>+</sup> | 5X2-1/2 | 8-1/16   | 6-1/16   | 5       | 3-5/16  | 2.53                  |
| 429-488F <sup>+</sup> | 5X3     | 8        | 6- 1/16  | 5-1/16  | 3- 1/8  | 2.29                  |
| 429-490F <sup>+</sup> | 5X4     | 7-11/16  | 6- 1/16  | 5       | 2- 7/16 | 1.58                  |
| 429-491F <sup>+</sup> | 5X4-1/2 | 7- 7/16  | 6- 1/16  | 5- 7/16 | 1-15/16 | 1.69                  |
| 429-528F <sup>+</sup> | 6X2     | 9-1/4    | 7- 1/8   | 5-5/16  | 4- 5/8  | 2.77                  |
| 429-530F <sup>+</sup> | 6X3     | 9- 3/16  | 7- 1/8   | 5-1/16  | 4- 1/16 | 2.82                  |
| 429-532               | 6X4     | 6-15/32  | 7-1/4    | 5-1/32  | 1-13/32 | 2.08                  |
| 429-532F <sup>+</sup> | 6X4     | 8-7/8    | 7-1/8    | 5       | 3-3/8   | 2.04                  |
| 429-533F <sup>+</sup> | 6X5     | 8- 5/8   | 7- 1/8   | 6- 1/16 | 2- 3/8  | 2.29                  |
| 429-534F <sup>+</sup> | 6X4-1/2 | 8-11/16  | 7- 1/8   | 5- 7/16 | 2-15/16 | 2.03                  |
| 429-578F <sup>+</sup> | 8X2     | 14-7/8   | 9- 3/16  | 5-5/16  | 9- 1/4  | 5.75                  |
| 429-580F <sup>+</sup> | 8X3     | 14-13/16 | 9- 3/16  | 5-1/16  | 8-11/16 | 5.71                  |
| 429-582               | 8X4     | 8-13/32  | 9-3/8    | 5-1/32  | 2-3/8   | 3.95                  |
| 429-582F <sup>+</sup> | 8X4     | 14-1/2   | 9-3/16   | 5       | 8       | 4.80                  |
| 429-583F <sup>+</sup> | 8X5     | 14- 1/4  | 9- 3/16  | 6- 1/16 | 7       | 5.16                  |
| 429-585               | 8X6     | 8-13/32  | 9-3/8    | 7-9/32  | 1-3/8   | 4.00                  |
| 429-585F <sup>+</sup> | 8X6     | 11       | 9-3/16   | 7-3/16  | 3-1/2   | 3.73                  |
| 429-621F <sup>+</sup> | 10X2    | 17-3/4   | 11- 3/8  | 5-5/16  | 11-1/8  | 8.57                  |
| 429-623F <sup>+</sup> | 10X3    | 17-11/16 | 11- 3/8  | 5-1/16  | 10-9/16 | 7.73                  |
| 429-624               | 10X4    | 10- 7/16 | 11-9/16  | 5-1/32  | 3-13/32 | 7.35                  |
| 429-624F <sup>+</sup> | 10X4    | 17-3/8   | 11- 3/8  | 5       | 9-7/8   | 7.18                  |
| 429-625F <sup>+</sup> | 10X5    | 17-1/8   | 11-3/8   | 6-1/16  | 8-7/8   | 7.31                  |
| 429-626               | 10X6    | 10-7/16  | 11-9/16  | 7-9/32  | 2-13/32 | 7.11                  |
| 429-626F <sup>+</sup> | 10X6    | 13- 7/8  | 11- 3/8  | 7- 1/4  | 5- 3/8  | 6.61                  |
| 429-628               | 10X8    | 10-7/16  | 11-9/16  | 9-3/8   | 1-13/32 | 7.07                  |
| 429-628F <sup>+</sup> | 10X8    | 13- 1/4  | 11- 9/16 | 9- 7/16 | 3- 3/4  | 8.95                  |
| 429-661F <sup>+</sup> | 12X2    | 24-3/8   | 13-9/16  | 5-5/16  | 16-3/4  | 16.96                 |
| 429-663F <sup>+</sup> | 12X3    | 24-5/16  | 13-9/16  | 5-1/16  | 16-3/16 | 15.85                 |
| 429-664F <sup>+</sup> | 12X4    | 24       | 13- 9/16 | 5       | 15- 1/2 | 15.20                 |
| 429-665F <sup>+</sup> | 12X5    | 23-3/4   | 13-9/16  | 6-1/16  | 14-1/2  | 16.51                 |

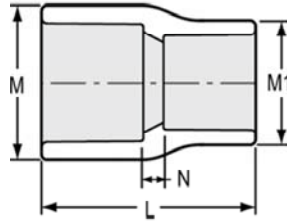


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## Coupling - Reducer

(Continued)

Socket x Socket



| Part Number           | Size  | L        | M        | M1       | N        | Approx. Wt.<br>(Lbs.) |
|-----------------------|-------|----------|----------|----------|----------|-----------------------|
| 429-666               | 12X6  | 12-13/32 | 13-21/32 | 7-9/32   | 3-3/8    | 10.46                 |
| 429-666F <sup>+</sup> | 12X6  | 20- 1/2  | 13- 9/16 | 7- 1/4   | 11       | 14.72                 |
| 429-668               | 12X8  | 12-13/32 | 13-21/32 | 9-3/8    | 2-3/8    | 10.57                 |
| 429-668F <sup>+</sup> | 12X8  | 15- 3/4  | 13- 9/16 | 9- 7/16  | 5- 1/4   | 12.30                 |
| 429-670               | 12X10 | 12-13/32 | 13-21/32 | 11-9/16  | 1-13/32  | 10.83                 |
| 429-670F <sup>+</sup> | 12X10 | 15- 1/8  | 13- 9/16 | 11- 9/16 | 3- 5/8   | 14.44                 |
| 429-693F <sup>+</sup> | 14X3  | 26- 3/16 | 14-13/16 | 5-1/16   | 17- 5/16 | 18.94                 |
| 429-694F <sup>+</sup> | 14X4  | 25- 7/8  | 14-13/16 | 5        | 16- 5/8  | 17.51                 |
| 429-696F <sup>+</sup> | 14X6  | 22- 3/8  | 14-13/16 | 7- 1/4   | 12- 1/8  | 17.18                 |
| 429-698F <sup>+</sup> | 14X8  | 21-3/4   | 14- 3/4  | 9-7/16   | 10-1/2   | 20.81                 |
| 429-700F <sup>+</sup> | 14X10 | 17       | 14-13/16 | 11- 9/16 | 4- 3/4   | 14.51                 |
| 429-702F <sup>+</sup> | 14X12 | 16- 1/2  | 15       | 13- 3/4  | 3- 1/4   | 19.05                 |
| 429-751F <sup>+</sup> | 16X2  | 32-7/8   | 17       | 5-5/16   | 23- 1/2  | 33.95                 |
| 429-754F <sup>+</sup> | 16X4  | 32- 1/2  | 17       | 5        | 22- 1/4  | 29.72                 |
| 429-756F <sup>+</sup> | 16X6  | 29       | 17       | 7- 3/16  | 17- 3/4  | 30.08                 |
| 429-758F <sup>+</sup> | 16X8  | 24- 3/4  | 17       | 9- 7/16  | 12- 1/2  | 28.87                 |
| 429-760F <sup>+</sup> | 16X10 | 24       | 17       | 11- 9/16 | 10- 3/4  | 30.50                 |
| 429-762F <sup>+</sup> | 16X12 | 18- 7/8  | 17       | 13- 3/4  | 4- 5/8   | 22.64                 |
| 429-764F <sup>+</sup> | 16X14 | 18- 1/2  | 16- 7/8  | 14- 7/8  | 3- 1/2   | 22.84                 |
| 429-786F <sup>+</sup> | 18X6  | 38       | 19       | 7- 3/16  | 25- 3/4  | 50.29                 |
| 429-788F <sup>+</sup> | 18X8  | 33- 3/4  | 19       | 9- 7/16  | 20- 1/2  | 46.36                 |
| 429-790F <sup>+</sup> | 18X10 | 33       | 19       | 11- 9/16 | 18- 3/4  | 46.43                 |
| 429-792F <sup>+</sup> | 18X12 | 27- 7/8  | 19       | 13-3/4   | 12- 5/8  | 44.77                 |
| 429-794F <sup>+</sup> | 18X14 | 27- 1/2  | 19       | 14- 7/8  | 11- 1/2  | 43.64                 |
| 429-796F <sup>+</sup> | 18X16 | 21- 5/8  | 19       | 17       | 4- 5/8   | 30.97                 |
| 429-814F <sup>+</sup> | 20X4  | 50- 1/2  | 21- 1/8  | 5        | 38- 1/4  | 74.00                 |
| 429-816F <sup>+</sup> | 20X6  | 47       | 21- 1/8  | 7- 3/16  | 33- 3/4  | 74.44                 |
| 429-818F <sup>+</sup> | 20X8  | 42- 3/4  | 21- 1/8  | 9- 7/16  | 28- 1/2  | 72.15                 |
| 429-820F <sup>+</sup> | 20X10 | 42       | 21- 1/8  | 11- 9/16 | 26- 3/4  | 82.75                 |
| 429-822F <sup>+</sup> | 20X12 | 36- 7/8  | 21- 1/8  | 13- 3/4  | 20- 5/8  | 76.33                 |
| 429-824F <sup>+</sup> | 20X14 | 36- 1/2  | 21-1/8   | 14- 7/8  | 19- 1/2  | 74.41                 |
| 429-826F <sup>+</sup> | 20X16 | 30- 5/8  | 21- 1/8  | 17       | 12- 5/8  | 58.52                 |
| 429-828F <sup>+</sup> | 20X18 | 23- 1/4  | 21- 1/8  | 19- 1/8  | 4- 1/4   | 46.31                 |
| 429-906F <sup>+</sup> | 24X6  | 59- 1/4  | 25- 3/16 | 7- 3/16  | 44       | 132.86                |
| 429-908F <sup>+</sup> | 24X8  | 55       | 25- 3/16 | 9- 7/16  | 38- 3/4  | 126.86                |
| 429-910F <sup>+</sup> | 24X10 | 54- 1/4  | 25- 3/16 | 11- 9/16 | 37       | 128.19                |
| 429-912F <sup>+</sup> | 24X12 | 49- 1/8  | 25- 3/16 | 13- 3/4  | 30- 7/8  | 108.48                |
| 429-914F <sup>+</sup> | 24X14 | 48- 3/4  | 25- 3/16 | 14- 7/8  | 29- 3/4  | 106.10                |
| 429-916F <sup>+</sup> | 24X16 | 42- 7/8  | 25- 3/16 | 17       | 22- 7/8  | 108.17                |
| 429-918F <sup>+</sup> | 24X18 | 35- 1/2  | 25- 3/16 | 19- 1/8  | 14- 1/2  | 90.89                 |

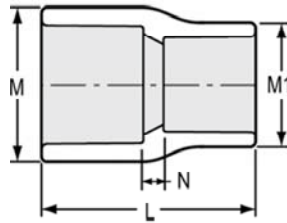
Schedule 40 Fittings Technical  
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## Coupling - Reducer

Socket x Socket

(Continued)



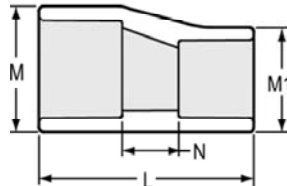
| Part Number           | Size  | L       | M        | M1       | N      | Approx. Wt. (Lbs.) |
|-----------------------|-------|---------|----------|----------|--------|--------------------|
| 429-920F <sup>*</sup> | 24X20 | 28- 3/4 | 25- 3/16 | 21- 3/16 | 6- 3/4 | 66.93              |

<sup>1</sup> Outlet sized with Bushing

\* Fabricated

## Coupling - Eccentric Reducer

Socket x Socket



| Part Number             | Size        | L       | M       | M1      | N        | Approx. Wt. (Lbs.) |
|-------------------------|-------------|---------|---------|---------|----------|--------------------|
| 429-131FE <sup>*</sup>  | 1X3/4       | 3-5/8   | 1-9/16  | 1-1/4   | 1-3/8    | .07                |
| 429-168FE <sup>*</sup>  | 1-1/4X1     | 4-3/8   | 1-15/16 | 1-9/16  | 1-5/8    | .11                |
| 429-211FE <sup>*</sup>  | 1-1/2X1     | 5-3/16  | 2-3/16  | 1-9/16  | 2-7/16   | .16                |
| 429-212FE <sup>*</sup>  | 1-1/2X1-1/4 | 4-1/4   | 2- 3/16 | 1-15/16 | 1-1/4    | .19                |
| 429-249FE <sup>*</sup>  | 2X1         | 8-3/8   | 2-11/16 | 1-9/16  | 5-3/8    | .38                |
| 429-250FE <sup>*</sup>  | 2X1-1/4     | 5- 3/4  | 2- 5/8  | 1-15/16 | 2- 1/2   | .28                |
| 429-251FE <sup>*</sup>  | 2X1-1/2     | 5-1/8   | 2-11/16 | 2- 3/16 | 1-7/8    | .29                |
| 429-290FE <sup>2*</sup> | 2-1/2X1-1/4 | 9- 5/8  | 3- 3/16 | 1-15/16 | 6- 1/8   | .59                |
| 429-291FE <sup>2*</sup> | 2-1/2X1-1/2 | 9       | 3- 3/16 | 2- 3/16 | 5-1/2    | .59                |
| 429-292FE <sup>*</sup>  | 2-1/2X2     | 6- 3/8  | 3- 3/16 | 2-11/16 | 2- 5/8   | .44                |
| 429-335FE <sup>3*</sup> | 3X1         | 13-3/4  | 3-13/16 | 1-9/16  | 10-1/4   | .94                |
| 429-336FE <sup>2*</sup> | 3X1-1/4     | 11- 1/8 | 3-13/16 | 1-15/16 | 7- 3/8   | .74                |
| 429-337FE <sup>2*</sup> | 3X1-1/2     | 10-1/2  | 3-13/16 | 2- 3/16 | 6-3/4    | .77                |
| 429-338E                | 3X2         | 5-7/8   | 4-3/16  | 2-7/8   | 2-15/32  | 1.00               |
| 429-338FE <sup>*</sup>  | 3X2         | 7-15/16 | 3-13/16 | 2-11/16 | 3-15/16  | .59                |
| 429-339FE <sup>*</sup>  | 3X2-1/2     | 6- 3/4  | 3- 7/8  | 3- 1/4  | 2- 1/2   | .79                |
| 429-417FE <sup>4*</sup> | 4X1         | 18-3/4  | 4-15/16 | 1-9/16  | 15-1/4   | 1.75               |
| 429-418FE <sup>3*</sup> | 4X1-1/4     | 16- 1/8 | 4-15/16 | 1-15/16 | 12- 3/8  | 1.69               |
| 429-419FE <sup>3*</sup> | 4X1-1/2     | 15-1/2  | 4-15/16 | 2- 3/16 | 11-3/4   | 1.71               |
| 429-420E                | 4X2         | 7-15/32 | 5-1/32  | 2-23/32 | 4-1/16   | 1.28               |
| 429-420FE <sup>2*</sup> | 4X2         | 12-1/4  | 4-15/16 | 2-11/16 | 8-1/2    | 2.14               |
| 429-421FE <sup>2*</sup> | 4X2-1/2     | 11- 3/4 | 4-15/16 | 3- 1/4  | 7- 1/2   | 1.64               |
| 429-422FE <sup>*</sup>  | 4X3         | 8- 5/8  | 4-15/16 | 3-15/16 | 4- 1/8   | 1.22               |
| 429-490FE <sup>*</sup>  | 5X4         | 9- 7/16 | 6- 1/16 | 5       | 4- 3/16  | 1.90               |
| 429-527FE <sup>4*</sup> | 6X1-1/2     | 22-7/8  | 7-1/8   | 2-3/16  | 18-1/8   | 3.70               |
| 429-528FE <sup>2*</sup> | 6X2         | 15-9/16 | 7- 1/8  | 2-3/4   | 10-15/16 | 3.51               |

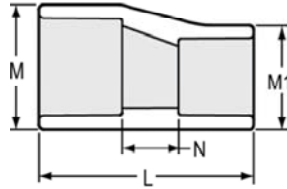


Schedule 40 Fittings Technical  
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## Coupling - Eccentric Reducer

(Continued)

Socket x Socket



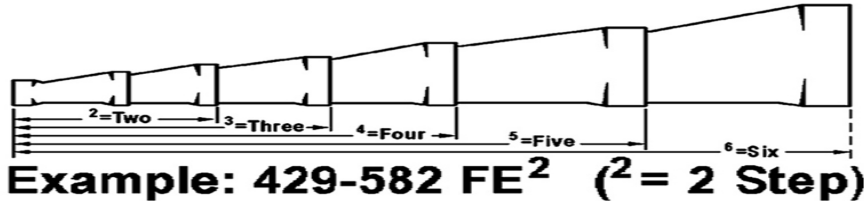
| Part Number             | Size    | L        | M       | M1      | N        | Approx. Wt.<br>(Lbs.) |
|-------------------------|---------|----------|---------|---------|----------|-----------------------|
| 429-529FE <sup>3"</sup> | 6X2-1/2 | 19-1/8   | 7- 1/8  | 3- 1/4  | 13-7/8   | 3.76                  |
| 429-530FE <sup>2"</sup> | 6X3     | 16- 5/16 | 7- 1/8  | 3-15/16 | 10-13/16 | 3.16                  |
| 429-532E                | 6X4     | 8-31/32  | 7- 9/32 | 5- 1/32 | 3-15/16  | 2.90                  |
| 429-532FE <sup>+</sup>  | 6X4     | 10-13/16 | 7- 1/8  | 5       | 5-5/16   | 2.27                  |
| 429-533FE <sup>+</sup>  | 6X5     | 10- 5/8  | 7- 1/8  | 6- 1/16 | 4- 3/8   | 2.84                  |
| 429-578FE <sup>3"</sup> | 8X2     | 27-3/16  | 9- 3/16 | 2-3/4   | 21-9/16  | 9.64                  |
| 429-580FE <sup>3"</sup> | 8X3     | 25       | 9- 3/16 | 3-15/16 | 18-1/2   | 7.18                  |
| 429-582FE <sup>2"</sup> | 8X4     | 19-11/16 | 9- 3/16 | 5       | 13-7/16  | 8.21                  |
| 429-583FE <sup>2"</sup> | 8X5     | 15- 5/8  | 9- 3/16 | 6- 1/16 | 12- 3/8  | 6.77                  |
| 429-585FE <sup>+</sup>  | 8X6     | 14- 3/8  | 9- 3/16 | 7- 3/16 | 6- 7/8   | 4.85                  |
| 429-624FE <sup>2"</sup> | 10X4    | 22-7/16  | 11- 3/8 | 5       | 15-3/16  | 10.13                 |
| 429-625FE <sup>2"</sup> | 10X5    | 22-3/8   | 11-3/8  | 6-1/16  | 14-1/8   | 9.33                  |
| 429-626FE <sup>+</sup>  | 10X6    | 17- 1/8  | 11- 3/8 | 7- 1/4  | 8- 5/8   | 7.48                  |
| 429-628FE <sup>+</sup>  | 10X8    | 16-11/16 | 11- 3/8 | 9- 1/4  | 7-3/16   | 8.48                  |
| 429-664FE <sup>3"</sup> | 12X4    | 32-7/16  | 13- 1/2 | 5       | 24-3/16  | 20.15                 |
| 429-666FE <sup>2"</sup> | 12X6    | 27- 1/8  | 13- 1/2 | 7- 1/4  | 17- 5/8  | 16.79                 |
| 429-668FE <sup>2"</sup> | 12X8    | 26-11/16 | 13- 1/2 | 9- 1/4  | 16-3/16  | 18.12                 |
| 429-670FE <sup>+</sup>  | 12X10   | 18- 3/8  | 13- 1/2 | 11- 1/2 | 6- 7/8   | 13.53                 |
| 429-696FE <sup>2"</sup> | 14X6    | 31- 3/8  | 15      | 7- 1/4  | 21- 1/8  | 26.14                 |
| 429-698FE <sup>2"</sup> | 14X8    | 30-15/16 | 15      | 9- 1/4  | 19-11/16 | 26.76                 |
| 429-700FE <sup>+</sup>  | 14X10   | 22- 3/4  | 15      | 11- 3/4 | 10- 1/2  | 23.23                 |
| 429-702FE <sup>+</sup>  | 14X12   | 19       | 15      | 13- 3/4 | 5- 3/4   | 21.29                 |
| 429-756FE <sup>3"</sup> | 16X6    | 43- 5/8  | 17      | 7- 1/4  | 32- 3/8  | 42.00                 |
| 429-758FE <sup>3"</sup> | 16X8    | 42-3/16  | 17      | 9- 1/4  | 30-15/16 | 42.02                 |
| 429-760FE <sup>2"</sup> | 16X10   | 34- 7/8  | 17      | 11- 1/2 | 21- 5/8  | 38.22                 |
| 429-762FE <sup>1"</sup> | 16X12   | 26- 1/2  | 17      | 13- 3/4 | 12- 1/4  | 30.12                 |
| 429-764FE <sup>+</sup>  | 16X14   | 21-3/4   | 16- 7/8 | 14- 7/8 | 6- 3/4   | 24.61                 |
| 429-786FE <sup>4"</sup> | 18X6    | 56       | 19      | 7- 1/4  | 43- 3/4  | 71.11                 |
| 429-788FE <sup>4"</sup> | 18X8    | 55-9/16  | 19      | 9- 1/4  | 42-5/16  | 70.92                 |
| 429-790FE <sup>3"</sup> | 18X10   | 47- 1/4  | 19      | 11- 1/2 | 33       | 65.31                 |
| 429-792FE <sup>2"</sup> | 18X12   | 38- 7/8  | 19      | 13- 3/4 | 23- 5/8  | 55.50                 |
| 429-794FE <sup>2"</sup> | 18X14   | 34- 1/8  | 19      | 14- 7/8 | 18- 1/8  | 49.03                 |
| 429-796FE <sup>+</sup>  | 18X16   | 25       | 19      | 17      | 8        | 38.72                 |

\* Fabricated

## Eccentric Reducer Coupling Footnotes

### Multi-Step Configurations

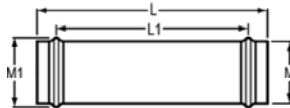
The number after the part number denotes steps listed below.



## Repair Coupling, Schedule 40

### Fabricated

Gasket x Gasket

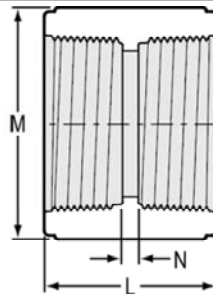


| Part Number | Size | L       | L1      | M       | M1       | Approx. Wt. (Lbs.) |
|-------------|------|---------|---------|---------|----------|--------------------|
| 428-020F*   | 2    | 9- 1/8  | 6       | 2-11/16 | 3- 1/16  | .71                |
| 428-030F*   | 3    | 15- 1/2 | 11- 3/4 | 3-15/16 | 4- 9/16  | 2.53               |
| 428-040F*   | 4    | 19- 1/2 | 15      | 5       | 5- 5/8   | 4.18               |
| 428-060F*   | 6    | 23      | 18-1/4  | 7-3/16  | 7-13/16  | 8.33               |
| 428-080F*   | 8    | 26- 1/8 | 21-1/2  | 9-1/16  | 9-13/16  | 14.00              |
| 428-100F*   | 10   | 27      | 22-1/8  | 11-1/2  | 12-11/16 | 20.94              |
| 428-120F*   | 12   | 28-1/4  | 22-5/8  | 13-9/16 | 14-13/16 | 28.48              |
| 428-140F*   | 14   | 30      | 21-1/2  | 14- 7/8 | 16-3/8   | 36.67              |
| 428-160F*   | 16   | 31      | 24      | 17      | 18- 1/2  | 49.66              |
| 428-180F*   | 18   | 32      | 22-5/8  | 19-1/8  | 20-7/8   | 69.60              |
| 428-200F*   | 20   | 32      | 23-1/2  | 21-3/16 | 23-3/16  | 80.72              |
| 428-240F*   | 24   | 32      | 23-1/2  | 25-3/8  | 27-3/4   | 127.12             |

\* Fabricated

## Coupling

Fipt x Fipt



| Part Number | Size | L       | M       | N    | Approx. Wt. (Lbs.) |
|-------------|------|---------|---------|------|--------------------|
| 430-005     | 1/2  | 1- 9/16 | 1- 1/8  | 3/32 | .03                |
| 430-007     | 3/4  | 1- 9/16 | 1-11/32 | 3/32 | .04                |

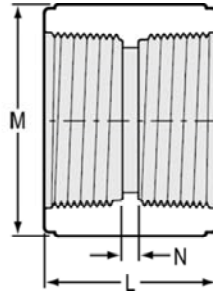


Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**

### Coupling

Fipt x Fipt

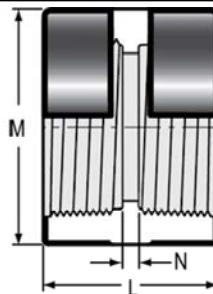
(Continued)



| Part Number | Size  | L       | M       | N    | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|------|--------------------|
| 430-010     | 1     | 2- 1/16 | 1-11/16 | 3/32 | .08                |
| 430-012     | 1-1/4 | 2-7/32  | 2- 9/32 | 3/16 | .20                |

### Coupling - Special Reinforced

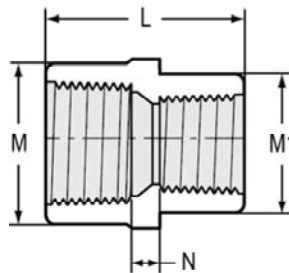
SR Fipt x SR Fipt - Stainless Steel Collar



| Part Number | Size  | L       | M       | N    | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|------|--------------------|
| 430-005SR   | 1/2   | 1- 9/16 | 1- 3/16 | 3/32 | .06                |
| 430-007SR   | 3/4   | 1-19/32 | 1- 3/8  | 3/32 | .07                |
| 430-010SR   | 1     | 1-15/16 | 1-11/16 | 5/32 | .13                |
| 430-012SR   | 1-1/4 | 2- 1/16 | 2- 1/16 | 5/32 | .18                |
| 430-015SR   | 1-1/2 | 2- 3/16 | 2- 7/16 | 1/4  | .27                |
| 430-020SR   | 2     | 2- 1/4  | 3       | 7/32 | .41                |

### Coupling - Reducer

Fipt x Fipt



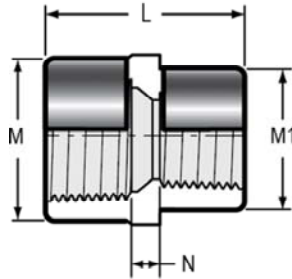
| Part Number | Size    | L       | M      | M1      | N   | Approx. Wt. (Lbs.) |
|-------------|---------|---------|--------|---------|-----|--------------------|
| 430-101     | 3/4X1/2 | 1-11/16 | 1- 3/8 | 1- 3/16 | 1/4 | .06                |

Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



**Coupling - Special Reinforced Reducer**

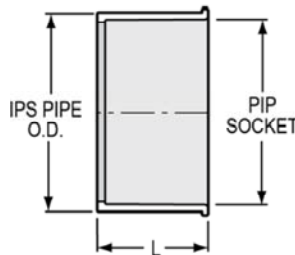
SR Fipt x SR Fipt - Stainless Steel Collar



| Part Number | Size    | L      | M      | M1     | N   | Approx. Wt. (Lbs.) |
|-------------|---------|--------|--------|--------|-----|--------------------|
| 430-101SR   | 3/4X1/2 | 1- 3/4 | 1- 3/8 | 1-3/16 | 1/4 | .08                |

**IPS to PIP Adapter**

Spigot x Socket

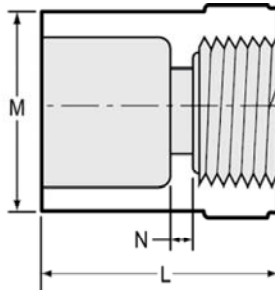


| Part Number | Size | L       | Approx. Wt. (Lbs.) |
|-------------|------|---------|--------------------|
| 431-060     | 6    | 3- 9/16 | .93                |
| 431-080     | 8    | 4-21/32 | 1.43               |
| 431-100F*   | 10   | 5- 5/8  | 2.53               |
| 431-120F*   | 12   | 6- 3/4  | 3.61               |

\* Fabricated

**Female Adapter**

Socket x Fipt



| Part Number | Size  | L       | M       | N    | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|------|--------------------|
| 435-003     | 3/8   | 1- 7/16 | 1       | 3/32 | .03                |
| 435-005     | 1/2   | 1-19/32 | 1- 3/32 | 3/32 | .03                |
| D435-005    | 1/2   | 2-1/16  | 1-3/32  | 3/32 | .04                |
| 435-007     | 3/4   | 1-13/16 | 1- 5/16 | 3/32 | .05                |
| D435-007    | 3/4   | 2- 7/32 | 1- 5/16 | 3/32 | .05                |
| 435-010     | 1     | 2       | 1-5/8   | 3/32 | .08                |
| 435-012     | 1-1/4 | 2- 9/32 | 1-31/32 | 3/32 | .11                |
| 435-015     | 1-1/2 | 2-3/8   | 2-1/4   | 3/32 | .13                |
| 435-020     | 2     | 2- 1/2  | 2- 3/4  | 3/32 | .19                |
| 435-025     | 2-1/2 | 3- 1/4  | 3- 5/16 | 3/16 | .42                |
| 435-030     | 3     | 3- 1/2  | 4       | 3/16 | .55                |
| 435-040     | 4     | 3-23/32 | 5- 1/32 | 3/16 | .81                |

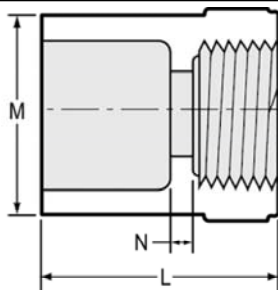


## Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

### Female Adapter

Socket x Fipt

(Continued)



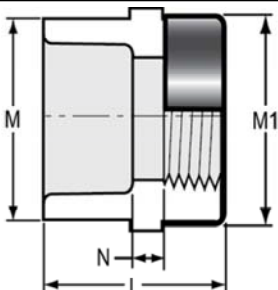
| Part Number | Size | L       | M        | N     | Approx. Wt. (Lbs.) |
|-------------|------|---------|----------|-------|--------------------|
| 435-050     | 5    | 5- 1/16 | 6- 5/16  | 3/16  | 1.46               |
| 435-060     | 6    | 5-25/32 | 7-7/16   | 11/32 | 2.10               |
| 435-080     | 8    | 7       | 9- 3/8   | 13/32 | 3.87               |
| 435-100F*   | 10   | 10- 1/4 | 11-15/16 | 3     | 10.88              |
| 435-120F*   | 12   | 11-1/2  | 14- 1/8  | 3     | 16.20              |

"D" prefix indicates Deep Socket Adapter

\* Fabricated

### Female Adapter - Special Reinforced

Socket x SR Fipt - Stainless Steel Collar



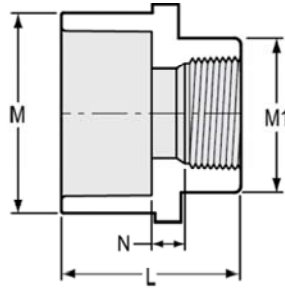
| Part Number | Size  | L       | M       | M1      | N    | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|---------|------|--------------------|
| 435-002SR   | 1/4   | 1- 5/16 | 27/32   | 27/32   | 3/32 | .02                |
| 435-003SR   | 3/8   | 1-15/32 | 15/16   | 31/32   | 3/32 | .03                |
| 435-005SR   | 1/2   | 1-23/32 | 1- 3/16 | 1-5/32  | 3/32 | .06                |
| 435-007SR   | 3/4   | 1- 7/8  | 1-13/32 | 1- 3/8  | 3/32 | .07                |
| 435-010SR   | 1     | 2- 1/8  | 1-23/32 | 1-23/32 | 3/32 | .12                |
| 435-012SR   | 1-1/4 | 2- 5/16 | 2- 3/32 | 2- 3/32 | 3/32 | .18                |
| 435-015SR   | 1-1/2 | 2- 7/16 | 2-13/32 | 2- 7/16 | 3/32 | .27                |
| 435-020SR   | 2     | 2-23/32 | 3       | 3-1/32  | 1/4  | .43                |
| 435-025SR   | 2-1/2 | 3-9/32  | 3- 9/16 | 3- 9/16 | 3/16 | .66                |
| 435-030SR   | 3     | 3- 1/2  | 4-1/4   | 4-9/32  | 3/16 | .96                |
| 435-040SR   | 4     | 3-15/16 | 5- 7/32 | 5- 7/32 | 3/16 | 1.37               |

Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



### Female Adapter - Reducing

Socket x Fipt



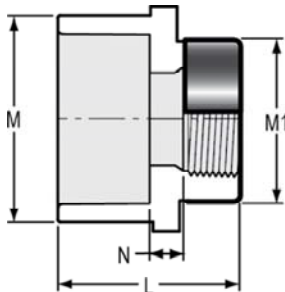
| Part Number           | Size    | L       | M       | M1      | N       | Approx. Wt. (Lbs.) |
|-----------------------|---------|---------|---------|---------|---------|--------------------|
| 435-072               | 1/2X1/4 | 1-19/32 | 1- 3/32 | 13/16   | 1/4     | .03                |
| 435-073               | 1/2X3/8 | 1-17/32 | 1- 3/32 | 15/16   | 3/16    | .03                |
| 435-074               | 1/2X3/4 | 1-5/8   | 1- 3/32 | 1-11/32 | 1/8     | .04                |
| 435-098               | 3/4X1/4 | 1-15/16 | 1-13/32 | 27/32   | 11/32   | .05                |
| 435-101               | 3/4X1/2 | 1-13/16 | 1- 5/16 | 1- 1/8  | 3/32    | .04                |
| 435-102               | 3/4X1   | 1-15/16 | 1-19/32 | 1- 5/16 | 3/32    | .07                |
| 435-130               | 1X1/2   | 1-7/8   | 1- 5/8  | 1- 1/8  | 3/32    | .07                |
| 435-131               | 1X3/4   | 2- 1/8  | 1- 5/8  | 1-11/32 | 1/4     | .07                |
| 435-133               | 1X1-1/2 | 2- 3/8  | 1-19/32 | 2-5/16  | 1/4     | .12                |
| 435-168               | 1-1/4X1 | 2- 1/2  | 1-31/32 | 1- 5/8  | 11/32   | .11                |
| 435-247               | 2X1/2   | 2-25/32 | 2-23/32 | 1- 3/16 | 21/32   | .19                |
| 435-460F <sup>1</sup> | 4-1/2X4 | 7-11/16 | 5-7/16  | 5-1/8   | 3-3/4   | 1.91               |
| 435-578F <sup>1</sup> | 8X2     | 14- 7/8 | 9-3/16  | 5-5/16  | 9- 5/8  | 6.21               |
| 435-582F <sup>1</sup> | 8X4     | 11-1/2  | 9-1/8   | 7-3/16  | 5-3/4   | 6.60               |
| 435-628F <sup>*</sup> | 10X8    | 11-3/4  | 11- 3/4 | 9- 1/4  | 4-13/16 | 9.25               |

<sup>1</sup> Outlet sizes with Threaded Adapter

<sup>\*</sup> Fabricated

### Female Adapter - Special Reinforced Reducing

Socket x SR Fipt - Stainless Steel Collar



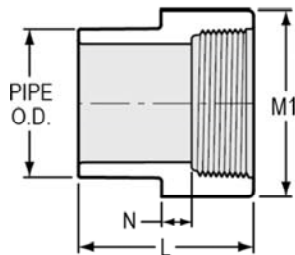
| Part Number | Size    | L       | M       | M1      | N     | Approx. Wt. (Lbs.) |
|-------------|---------|---------|---------|---------|-------|--------------------|
| 435-072SR   | 1/2X1/4 | 1- 5/8  | 1- 3/32 | 27/32   | 1/4   | .03                |
| 435-073SR   | 1/2X3/8 | 1-17/32 | 1-3/32  | 31/32   | 3/16  | .03                |
| 435-074SR   | 1/2X3/4 | 1-23/32 | 1- 3/16 | 1- 3/8  | 3/32  | .07                |
| 435-098SR   | 3/4X1/4 | 1-31/32 | 1-13/32 | 27/32   | 11/32 | .06                |
| 435-101SR   | 3/4X1/2 | 1-27/32 | 1- 3/8  | 1- 3/16 | 3/32  | .07                |
| 435-102SR   | 3/4X1   | 2-1/32  | 1-13/32 | 1-11/16 | 3/32  | .11                |
| 435-130SR   | 1X1/2   | 2-1/32  | 1-11/16 | 1- 3/16 | 5/32  | .10                |
| 435-131SR   | 1X3/4   | 2-3/32  | 1- 3/4  | 1- 3/8  | 1/4   | .11                |
| 435-247SR   | 2X1/2   | 2-13/16 | 2-23/32 | 1-3/16  | 21/32 | .20                |



Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**

### Female Spigot Adapter

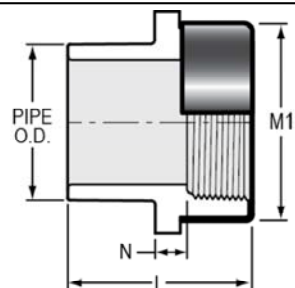
Spigot x Fipt



| Part Number | Size  | L       | M1      | N    | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|------|--------------------|
| 478-005     | 1/2   | 1-19/32 | 1- 3/32 | 1/8  | .03                |
| 478-007     | 3/4   | 1-15/16 | 1- 3/8  | 5/32 | .05                |
| 478-010     | 1     | 2-13/32 | 1-23/32 | 5/32 | .10                |
| 478-012     | 1-1/4 | 2- 9/16 | 2-3/32  | 3/16 | .13                |
| 478-015     | 1-1/2 | 2-21/32 | 2-11/32 | 3/16 | .16                |
| 478-020     | 2     | 2-9/16  | 2-23/32 | 7/32 | .20                |
| 478-030     | 3     | 3- 7/8  | 4       | 1/4  | .56                |
| 478-040     | 4     | 4       | 5-1/16  | 9/32 | .82                |

### Female Spigot Adapter - Special Reinforced

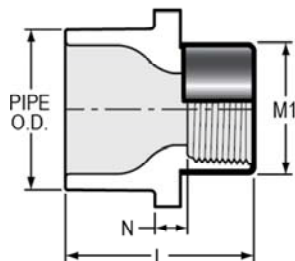
Spigot x SR Fipt - Stainless Steel Collar



| Part Number | Size  | L       | M1      | N    | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|------|--------------------|
| 478-005SR   | 1/2   | 1- 3/4  | 1- 3/16 | 5/32 | .05                |
| 478-007SR   | 3/4   | 1-15/16 | 1- 3/8  | 3/16 | .07                |
| 478-010SR   | 1     | 2- 1/4  | 1-23/32 |      | .12                |
| 478-012SR   | 1-1/4 | 2-15/32 | 2- 1/16 | 1/4  | .17                |
| 478-015SR   | 1-1/2 | 2-21/32 | 2-7/16  | 9/32 | .25                |
| 478-020SR   | 2     | 2-13/16 | 3       | 9/32 | .38                |
| 478-030SR   | 3     | 3-27/32 | 4-9/32  | 9/16 | .91                |
| 478-040SR   | 4     | 4- 3/8  | 5-1/4   | 5/8  | 1.36               |

### Female Spigot Adapter - Special Reinforced Reducing

Spigot x SR Fipt - Stainless Steel Collar



| Part Number | Size    | L       | M1    | N    | Approx. Wt. (Lbs.) |
|-------------|---------|---------|-------|------|--------------------|
| 478-072SR   | 1/2X1/4 | 1-13/32 | 27/32 | 1/8  | .02                |
| 478-098SR   | 3/4X1/4 | 1-27/32 | 27/32 | 7/32 | .05                |

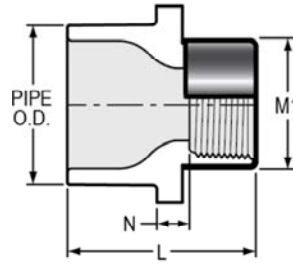
Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



**Female Spigot Adapter -  
Special Reinforced Reducing**

Spigot x SR Fipt - Stainless Steel Collar

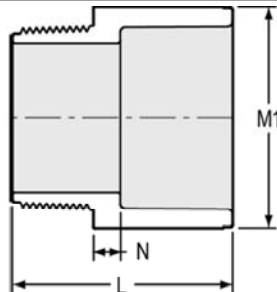
(Continued)



| Part Number | Size  | L      | M1    | N     | Approx. Wt.<br>(Lbs.) |
|-------------|-------|--------|-------|-------|-----------------------|
| 478-128SR   | 1X1/4 | 2- 3/8 | 27/32 | 21/32 | .08                   |

**Male Adapter**

Mipt x Socket



| Part Number | Size  | L       | M1       | N       | Approx. Wt.<br>(Lbs.) |
|-------------|-------|---------|----------|---------|-----------------------|
| 436-003     | 3/8   | 1- 3/8  | 1        | 1/8     | .01                   |
| 436-005     | 1/2   | 1-17/32 | 1- 1/8   | 5/32    | .02                   |
| 436-007     | 3/4   | 1-23/32 | 1-11/32  | 5/32    | .04                   |
| 436-010     | 1     | 2- 1/16 | 1- 5/8   | 7/32    | .07                   |
| 436-012     | 1-1/4 | 2- 7/16 | 2        | 3/16    | .11                   |
| 436-015     | 1-1/2 | 2-17/32 | 2- 1/4   | 7/32    | .14                   |
| 436-020     | 2     | 2-21/32 | 2-3/4    | 7/32    | .20                   |
| 436-025     | 2-1/2 | 3-13/16 | 3-7/16   | 1/4     | .43                   |
| 436-030     | 3     | 3-25/32 | 4        | 9/32    | .56                   |
| 436-040     | 4     | 4-1/16  | 5- 1/8   | 5/16    | .83                   |
| 436-050     | 5     | 5- 5/32 | 6- 1/4   | 5/16    | 1.42                  |
| 436-060     | 6     | 5-5/32  | 7- 9/32  | 3/4     | 2.33                  |
| 436-080     | 8     | 6-21/32 | 9- 3/8   | 13/32   | 4.03                  |
| 436-100F*   | 10    | 10- 3/8 | 11-15/16 | 3- 3/16 | 11.16                 |
| 436-120F*   | 12    | 11- 1/8 | 14- 1/8  | 2- 3/4  | 16.44                 |

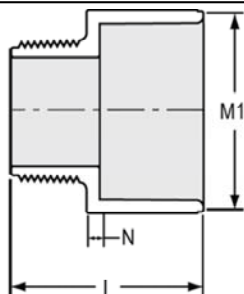
\* Fabricated



## Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

### Male Adapter - Reducing

Mipt x Socket

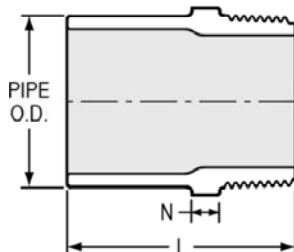


| Part Number | Size        | L       | M1      | N       | Approx. Wt. (Lbs.) |
|-------------|-------------|---------|---------|---------|--------------------|
| 436-053     | 3/8X1/2     | 1-11/16 | 1- 3/16 | 7/32    | .03                |
| 436-073     | 1/2X3/8     | 1-17/32 | 1-1/32  | 3/32    | .02                |
| 436-074     | 1/2X3/4     | 1-13/16 | 1-11/32 | 5/32    | .04                |
| 436-075     | 1/2X1       | 2- 9/32 | 1- 5/8  | 17/32   | .06                |
| 436-101     | 3/4X1/2     | 1-17/32 | 1- 1/8  | 1/16    | .02                |
| 436-102     | 3/4X1       | 1-15/16 | 1-21/32 | 3/16    | .06                |
| 436-131     | 1X3/4       | 1-15/16 | 1-5/16  | 3/16    | .05                |
| 436-132     | 1X1-1/4     | 2- 1/4  | 2       | 7/32    | .10                |
| 436-133     | 1X1-1/2     | 2-13/32 | 2- 1/4  | 9/32    | .12                |
| 436-168     | 1-1/4X1     | 2- 1/4  | 1- 5/8  | 3/16    | .08                |
| 436-169     | 1-1/4X1-1/2 | 2-17/32 | 2-1/4   | 7/32    | .13                |
| 436-212     | 1-1/2X1-1/4 | 2-15/32 | 2       | 7/32    | .12                |
| 436-213     | 1-1/2X2     | 2-7/8   | 2- 3/4  | 1/2     | .21                |
| 436-251     | 2X1-1/2     | 2- 9/16 | 2-9/32  | 7/32    | .18                |
| 436-252     | 2X2-1/2     | 3- 3/32 | 3-11/32 | 9/32    | .34                |
| 436-253     | 2X3         | 3-13/16 | 4       | 1       | .51                |
| 436-294     | 2-1/2X3     | 4- 3/32 | 4- 1/32 | 5/8     | .57                |
| 436-296     | 2-1/2X4     | 3-29/32 | 5- 3/16 | 5/16    | .81                |
| 436-342     | 3X4         | 4- 5/8  | 5- 1/16 | 1       | .96                |
| 436-492F*   | 5X6         | 10-7/16 | 7-1/8   | 5-5/16  | 3.63               |
| 436-535F*   | 6X8         | 13-1/4  | 9-3/16  | 7-1/16  | 5.83               |
| 436-537F*   | 6X10        | 15-7/8  | 11- 3/8 | 8-11/16 | 8.60               |

\* Fabricated

### Male Spigot Adapter

Spigot x Mipt



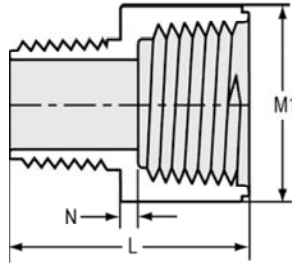
| Part Number | Size  | L       | N    | Approx. Wt. (Lbs.) |
|-------------|-------|---------|------|--------------------|
| 461-005     | 1/2   | 1-11/16 | 1/4  | .02                |
| 461-007     | 3/4   | 1-31/32 | 1/4  | .03                |
| 461-010     | 1     | 2-3/32  | 1/4  | .06                |
| 461-131     | 1X3/4 | 1-15/16 | 1/4  | .05                |
| 461-012     | 1-1/4 | 2- 9/32 | 9/32 | .09                |
| 461-015     | 1-1/2 | 2- 7/16 | 5/16 | .12                |
| 461-020     | 2     | 2- 9/16 | 3/8  | .18                |

Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



### IPT Adapter

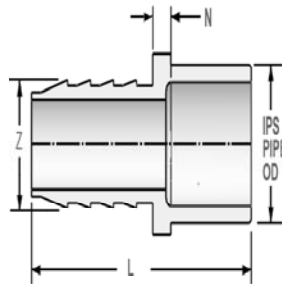
Mipt x Fipt



| Part Number | Size    | L       | M1      | N    | Approx. Wt. (Lbs.) |
|-------------|---------|---------|---------|------|--------------------|
| 446-003     | 3/8     | 1-13/32 | 1       | 5/32 | .02                |
| 446-012     | 1-1/4   | 2- 3/16 | 2       | 5/32 | .10                |
| 446-053     | 3/8X1/2 | 1-7/16  | 1-3/16  | 5/32 | .03                |
| 446-074     | 1/2X3/4 | 1-1/2   | 1- 5/16 | 5/32 | .03                |

### Insert Adapter (White PVC)

Insert x I.P.S. Spigot x I.P.S. Socket



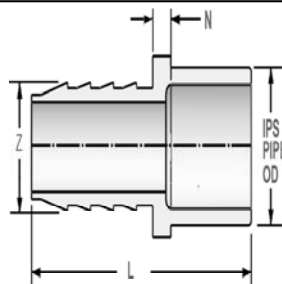
| Part Number | Size          | L      | N    | Z       | Approx. Wt. (Lbs.) |
|-------------|---------------|--------|------|---------|--------------------|
| 460-012N    | 1-1/4X1-1/4X1 | 3-1/32 | 9/32 | 1-13/32 | .11                |
| 460-131N    | 3/4X1X3/4     | 2- 7/8 | 1/4  | 27/32   | .06                |
| 460-132N    | 1X1-1/4X1     | 3-1/32 | 9/32 | 1-3/32  | .10                |

ASTM D 2609 - Plastic Insert Fitting for Polyethylene (PE) pipe N=Nesting

### Insert Adapter (White PVC)

Insert x I.P.S. Spigot

\* Fabricated



ASTM D 2609 - Plastic Insert Fitting for Polyethylene (PE) pipe

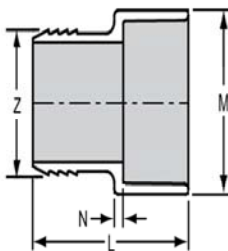
| Part Number | Size  | L       | N     | Z       | Approx. Wt. (Lbs.) |
|-------------|-------|---------|-------|---------|--------------------|
| 460-005     | 1/2   | 2- 7/16 | 3/16  | 21/32   | .02                |
| 460-007     | 3/4   | 2-23/32 | 5/32  | 27/32   | .04                |
| 460-010     | 1     | 2- 9/16 | 1/16  | 1-3/32  | .05                |
| 460-012     | 1-1/4 | 3- 1/32 | 9/32  | 1-13/32 | .10                |
| 460-015     | 1-1/2 | 3-1/4   | 3/16  | 1-21/32 | .11                |
| 460-020     | 2     | 3- 1/2  | 3/8   | 2-3/32  | .20                |
| 460-030     | 3     | 4-9/16  | 13/32 | 3-3/32  | .57                |
| 460-040     | 4     | 5-3/8   | 5/16  | 4-1/16  | .72                |
| 1432-060    | 6     | 8-1/4   | 1     | 6-3/32  | 1.74               |
| 1432-080*   | 8     | 9- 7/8  | N/A   | 8-5/32  | 7.10               |



## Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

### Insert Adapter (White PVC)

Insert x Socket

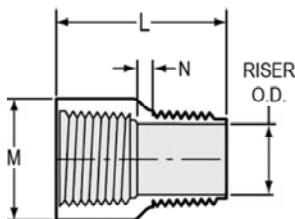


| Part Number           | Size  | L       | M       | N      | Z       | Approx. Wt. (Lbs.) |
|-----------------------|-------|---------|---------|--------|---------|--------------------|
| 474-005               | 1/2   | 2- 3/8  | 1- 1/8  | 5/32   | 21/32   | .03                |
| 474-007               | 3/4   | 2- 7/16 | 1-13/32 | 5/32   | 27/32   | .04                |
| 474-010               | 1     | 2-9/16  | 1- 5/8  | 3/16   | 1-3/32  | .07                |
| 474-012               | 1-1/4 | 2-11/16 | 2-5/32  | 5/32   | 1-13/32 | .10                |
| 474-015               | 1-1/2 | 3- 1/16 | 2-5/16  | 5/16   | 1-21/32 | .13                |
| 474-020               | 2     | 3       | 2-13/16 | 3/16   | 2-3/32  | .16                |
| 474-030               | 3     | 4- 3/4  | 4-1/32  | 9/32   | 3-3/32  | .50                |
| 474-040               | 4     | 5-21/32 | 5-1/16  | 5/16   | 4-1/16  | .81                |
| 474-060F <sup>1</sup> | 6     | 8       | 7-3/16  | 1-1/16 |         | 3.11               |
| 474-080F <sup>1</sup> | 8     | 11      | 9-11/16 | 2-3/16 |         | 9.23               |

ASTM D 2609 Plastic Insert Fittings for Polyethylene (PE) pipe

### Riser Extension

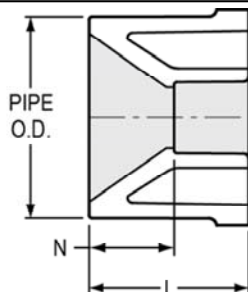
Fipt x Mipt



| Part Number | Size | L       | M       | N    | Approx. Wt. (Lbs.) |
|-------------|------|---------|---------|------|--------------------|
| 434-005     | 1/2  | 1- 1/2  | 1- 1/8  | 5/32 | .02                |
| 434-007     | 3/4  | 1-19/32 | 1- 5/16 | 7/32 | .03                |
| 434-010     | 1    | 1-7/8   | 1- 5/8  | 3/16 | .07                |

### Reducer Bushing Flush Style

Spigot x Socket



<sup>1</sup> Sized with Bushing  
\* Fabricated

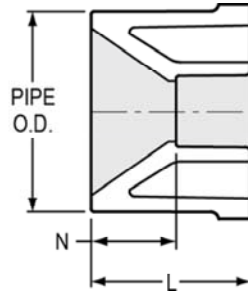
| Part Number | Size    | L       | N     | Approx. Wt. (Lbs.) |
|-------------|---------|---------|-------|--------------------|
| 437-052     | 3/8X1/4 | 31/32   | 5/16  | .01                |
| 437-072     | 1/2X1/4 | 1- 3/32 | 13/32 | .02                |
| 437-073     | 1/2X3/8 | 7/8     | 1/8   | .01                |
| 437-101     | 3/4X1/2 | 1- 1/16 | 9/32  | .01                |

Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



**Reducer Bushing  
 Flush Style**

Spigot x Socket



(Continued)

<sup>1</sup> Sized with Bushing  
 \* Fabricated

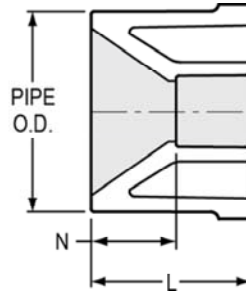
| Part Number          | Size        | L       | N       | Approx. Wt.<br>(Lbs.) |
|----------------------|-------------|---------|---------|-----------------------|
| 437-130              | 1X1/2       | 1- 1/4  | 15/32   | .04                   |
| 437-131              | 1X3/4       | 1- 1/4  | 5/16    | .03                   |
| 437-166              | 1-1/4X1/2   | 1-13/32 | 21/32   | .08                   |
| 437-167              | 1-1/4X3/4   | 1- 1/2  | 9/16    | .11                   |
| 437-168              | 1-1/4X1     | 1- 1/2  | 7/16    | .06                   |
| 437-209              | 1-1/2X1/2   | 1-15/32 | 23/32   | .10                   |
| 437-210              | 1-1/2X3/4   | 1-1/2   | 9/16    | .11                   |
| 437-211              | 1-1/2X1     | 1-17/32 | 13/32   | .11                   |
| 437-212              | 1-1/2X1-1/4 | 1-17/32 | 9/32    | .05                   |
| 437-247              | 2X1/2       | 1- 5/8  | 7/8     | .17                   |
| 437-248              | 2X3/4       | 1- 9/16 | 9/16    | .16                   |
| 437-249              | 2X1         | 1- 9/16 | 17/32   | .16                   |
| 437-250              | 2X1-1/4     | 1-19/32 | 11/32   | .17                   |
| 437-251              | 2X1-1/2     | 1- 9/16 | 1/4     | .13                   |
| 437-287              | 2-1/2X1/2   | 2- 1/4  | 1- 7/16 | .32                   |
| 437-288              | 2-1/2X3/4   | 2-1/16  | 1-1/8   | .33                   |
| 437-289              | 2-1/2X1     | 2- 1/32 | 29/32   | .41                   |
| 437-290              | 2-1/2X1-1/4 | 2-5/32  | 29/32   | .36                   |
| 437-291              | 2-1/2X1-1/2 | 2-3/32  | 3/4     | .29                   |
| 437-292              | 2-1/2X2     | 2- 1/16 | 11/16   | .23                   |
| 437-333              | 3X1/2       | 2-3/16  | 1-7/16  | .50                   |
| 437-334              | 3X3/4       | 2- 5/16 | 1-9/32  | .49                   |
| 437-335              | 3X1         | 2- 7/32 | 1-5/32  | .48                   |
| 437-336              | 3X1-1/4     | 2- 9/32 | 1- 1/32 | .48                   |
| 437-337              | 3X1-1/2     | 2- 9/32 | 31/32   | .51                   |
| 437-338              | 3X2         | 2- 7/32 | 9/16    | .46                   |
| 437-339              | 3X2-1/2     | 2- 7/32 | 7/16    | .37                   |
| 437-417 <sup>1</sup> | 4X1         | 2-5/8   | 1-9/16  | .99                   |
| 437-418 <sup>1</sup> | 4X1-1/4     | 2-5/8   | 1-3/8   | 1.00                  |
| 437-419              | 4X1-1/2     | 2-9/16  | 1-3/16  | 1.01                  |
| 437-420              | 4X2         | 2-13/32 | 1- 1/32 | .82                   |
| 437-421              | 4X2-1/2     | 2- 5/16 | 9/16    | .75                   |
| 437-422              | 4X3         | 2-11/32 | 15/32   | .78                   |
| 437-486              | 5X2         | 3-7/16  | 2-1/16  | 1.63                  |
| 437-488              | 5X3         | 3- 7/16 | 1-15/32 | 1.59                  |
| 437-490              | 5X4         | 2-31/32 | 23/32   | 1.30                  |
| 437-528              | 6X2         | 3-17/32 | 2- 5/32 | 2.15                  |
| 437-530              | 6X3         | 3-17/32 | 1-21/32 | 2.21                  |
| 437-532              | 6X4         | 3-17/32 | 1- 1/2  | 2.09                  |
| 437-534              | 6X5         | 3-17/32 | 7/8     | 1.94                  |
| 437-578 <sup>1</sup> | 8X2         | 4-15/16 | 3-17/32 | 5.09                  |
| 437-580 <sup>1</sup> | 8X3         | 4-7/8   | 2-31/32 | 5.05                  |
| 437-582              | 8X4         | 4-17/32 | 2- 1/2  | 4.26                  |
| 437-583 <sup>1</sup> | 8X5         | 4-15/16 | 1-29/32 | 5.93                  |



Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**

**Reducer Bushing**  
**Flush Style**

Spigot x Socket



(Continued)

<sup>1</sup> Sized with Bushing  
\* Fabricated

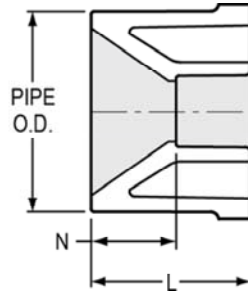
| Part Number          | Size  | L        | N       | Approx. Wt.<br>(Lbs.) |
|----------------------|-------|----------|---------|-----------------------|
| 437-585              | 8X6   | 4-13/32  | 1- 3/8  | 3.99                  |
| 437-623 <sup>1</sup> | 10X3  | 5-7/8    | 4       | 9.36                  |
| 437-624 <sup>1</sup> | 10X4  | 5-7/8    | 3-27/32 | 8.85                  |
| 437-626              | 10X6  | 5-5/16   | 2- 5/16 | 6.76                  |
| 437-628              | 10X8  | 5- 11/32 | 1- 5/16 | 7.19                  |
| 437-666 <sup>1</sup> | 12X6  | 6-3/4    | 3-23/32 | 15.00                 |
| 437-621 <sup>1</sup> | 10X2  | 5-7/8    | 4-1/2   | 10.02                 |
| 437-666F*            | 12X6  | 6-5/16   | 3-5/16  | 18.74                 |
| 437-668              | 12X8  | 6-11/32  | 2-5/16  | 11.01                 |
| 437-670              | 12X10 | 6- 11/32 | 1-5/16  | 11.89                 |
| 437-670F*            | 12X10 | 6        | 1       | 11.31                 |
| 437-696F*            | 14X6  | 7-5/8    | 4-5/8   | 24.18                 |
| 437-698F*            | 14X8  | 7- 5/16  | 3- 5/16 | 20.19                 |
| 437-700F*            | 14X10 | 7-5/16   | 2-5/16  | 21.07                 |
| 437-702F*            | 14X12 | 7        | 1       | 9.18                  |
| 437-756F*            | 16X6  | 8-5/8    | 5-5/8   | 42.59                 |
| 437-758F*            | 16X8  | 8- 5/16  | 4- 5/16 | 38.87                 |
| 437-760F*            | 16X10 | 8-5/16   | 3-5/16  | 40.96                 |
| 437-762F*            | 16X12 | 8        | 2       | 27.85                 |
| 437-764F*            | 16X14 | 8        | 1       | 18.67                 |
| 437-786F*            | 18X6  | 9-5/8    | 6-5/8   | 66.56                 |
| 437-788F*            | 18X8  | 9-5/16   | 5-5/16  | 59.62                 |
| 437-790F*            | 18X10 | 9-5/16   | 4-1/4   | 64.55                 |
| 437-792F*            | 18X12 | 9        | 3       | 51.55                 |
| 437-794F*            | 18X14 | 9        | 2       | 43.08                 |
| 437-796F*            | 18X16 | 9        | 1       | 23.70                 |
| 437-816F*            | 20X6  | 10-5/8   | 7-5/8   | 96.91                 |
| 437-818F*            | 20X8  | 10- 5/16 | 6- 5/16 | 92.92                 |
| 437-820F*            | 20X10 | 10-5/16  | 5-1/4   | 93.80                 |
| 437-822F*            | 20X12 | 10       | 4       | 81.91                 |
| 437-824F*            | 20X14 | 10       | 3       | 73.74                 |
| 437-826F*            | 20X16 | 10       | 2       | 54.05                 |
| 437-828F*            | 20X18 | 10       | 1       | 30.35                 |
| 437-906F*            | 24X6  | 12-5/8   | 9-5/8   | 180.06                |
| 437-908F*            | 24X8  | 12- 5/16 | 8- 5/16 | 173.31                |
| 437-910F*            | 24X10 | 12-5/16  | 7-1/4   | 174.19                |
| 437-912F*            | 24X12 | 12       | 6       | 162.29                |
| 437-914F*            | 24X14 | 12       | 5       | 153.82                |
| 437-916F*            | 24X16 | 12       | 4       | 136.14                |
| 437-918F*            | 24X18 | 12       | 3       | 110.74                |

Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



**Reducer Bushing  
 Flush Style**

Spigot x Socket



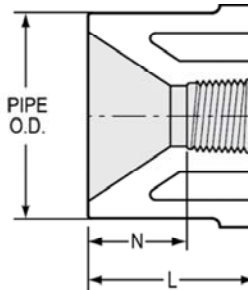
<sup>1</sup> Sized with Bushing  
 \* Fabricated

(Continued)

| Part Number | Size  | L  | N | Approx. Wt.<br>(Lbs.) |
|-------------|-------|----|---|-----------------------|
| 437-920F*   | 24X20 | 12 | 2 | 80.38                 |

**Reducer Bushing  
 Flush Style**

Spigot x Fipt



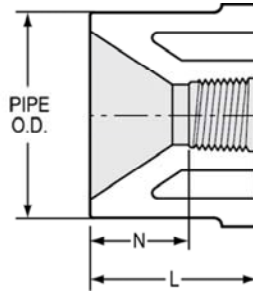
| Part Number | Size        | L       | N       | Approx. Wt.<br>(Lbs.) |
|-------------|-------------|---------|---------|-----------------------|
| 438-052     | 3/8X1/4     | 15/16   | 3/8     | .01                   |
| 438-071     | 1/2X1/8     | 1       | 9/16    | .01                   |
| 438-072     | 1/2X1/4     | 1- 1/32 | 13/32   | .02                   |
| 438-073     | 1/2X3/8     | 1       | 13/32   | .01                   |
| 438-098     | 3/4X1/4     | 1- 7/32 | 5/8     | .04                   |
| 438-101     | 3/4X1/2     | 1-7/32  | 1/2     | .02                   |
| 438-127     | 1X1/8       | 1-13/32 | 15/16   | .05                   |
| 438-128     | 1X1/4       | 1-13/32 | 13/16   | .06                   |
| 438-129     | 1X3/8       | 1-13/32 | 13/16   | .06                   |
| 438-130     | 1X1/2       | 1-11/32 | 19/32   | .05                   |
| 438-131     | 1X3/4       | 1-3/32  | 11/32   | .03                   |
| 438-166     | 1-1/4X1/2   | 1-15/32 | 23/32   | .09                   |
| 438-167     | 1-1/4X3/4   | 1-15/32 | 3/4     | .09                   |
| 438-168     | 1-1/4X1     | 1- 7/16 | 1/2     | .07                   |
| 438-206     | 1-1/2X1/8   | 1-11/16 | 1- 1/4  | .14                   |
| 438-207     | 1-1/2X1/4   | 1-9/16  | 15/16   | .13                   |
| 438-209     | 1-1/2X1/2   | 1-23/32 | 31/32   | .15                   |
| 438-210     | 1-1/2X3/4   | 1- 9/16 | 27/32   | .11                   |
| 438-211     | 1-1/2X1     | 1-23/32 | 13/16   | .14                   |
| 438-212     | 1-1/2X1-1/4 | 1- 1/2  | 9/16    | .07                   |
| 438-245     | 2X1/4       | 1- 3/4  | 1- 5/32 | .17                   |
| 438-247     | 2X1/2       | 1-29/32 | 1- 5/32 | .22                   |
| 438-248     | 2X3/4       | 1-29/32 | 1- 5/32 | .23                   |
| 438-249     | 2X1         | 1- 7/8  | 1       | .25                   |
| 438-250     | 2X1-1/4     | 1-19/32 | 21/32   | .18                   |
| 438-251     | 2X1-1/2     | 1-9/16  | 9/16    | .14                   |
| 438-287     | 2-1/2X1/2   | 2- 3/8  | 1-21/32 | .41                   |
| 438-288     | 2-1/2X3/4   | 2-7/16  | 1-5/8   | .44                   |
| 438-289     | 2-1/2X1     | 2- 5/32 | 1- 1/4  | .33                   |
| 438-290     | 2-1/2X1-1/4 | 2- 3/8  | 1-7/16  | .42                   |



Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**

**Reducer Bushing  
Flush Style**

Spigot x Fipt

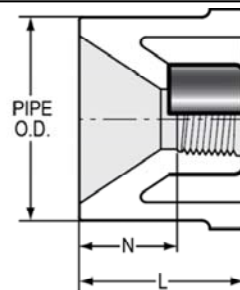


(Continued)

| Part Number | Size        | L       | N       | Approx. Wt.<br>(Lbs.) |
|-------------|-------------|---------|---------|-----------------------|
| 438-291     | 2-1/2X1-1/2 | 2-5/32  | 1-3/16  | .34                   |
| 438-292     | 2-1/2X2     | 2-1/32  | 1- 1/16 | .25                   |
| 438-334     | 3X3/4       | 2- 9/32 | 1-17/32 | .57                   |
| 438-335     | 3X1         | 2-9/32  | 1-3/8   | .55                   |
| 438-336     | 3X1-1/4     | 2-9/32  | 1-11/32 | .53                   |
| 438-337     | 3X1-1/2     | 2- 1/4  | 1-5/16  | .56                   |
| 438-338     | 3X2         | 2- 3/16 | 1- 7/32 | .56                   |
| 438-339     | 3X2-1/2     | 2- 3/8  | 1-13/16 | .45                   |
| 438-420     | 4X2         | 2-13/32 | 1-13/32 | .77                   |
| 438-421     | 4X2-1/2     | 2-21/32 | 1-5/32  | 1.04                  |
| 438-422     | 4X3         | 2-13/32 | 1       | .77                   |
| 438-488     | 5X3         | 3- 7/16 | 1-13/16 | 1.53                  |
| 438-490     | 5X4         | 2-15/16 | 1-11/32 | 1.44                  |
| 438-528     | 6X2         | 3-17/32 | 2-17/32 | 2.20                  |
| 438-530     | 6X3         | 3-17/32 | 2- 1/8  | 2.31                  |
| 438-532     | 6X4         | 3-17/32 | 2- 1/32 | 2.53                  |
| 438-534     | 6X5         | 3-31/32 | 2- 3/16 | 1.90                  |

**Reducer Bushing - Special  
Reinforced Flush Style**

Spigot x SR Fipt - Stainless Steel Collar



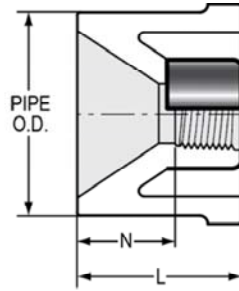
| Part Number | Size      | L       | N       | Approx. Wt.<br>(Lbs.) |
|-------------|-----------|---------|---------|-----------------------|
| 438-128SR   | 1X1/4     | 1-3/8   | 13/16   | .07                   |
| 438-207SR   | 1-1/2X1/4 | 1-9/16  | 15/16   | .15                   |
| 438-209SR   | 1-1/2X1/2 | 1-3/4   | 21/32   | .16                   |
| 438-210SR   | 1-1/2X3/4 | 1- 9/16 | 1-3/16  | .14                   |
| 438-247SR   | 2X1/2     | 1-29/32 | 1- 5/32 | .25                   |
| 438-248SR   | 2X3/4     | 1-29/32 | 1-5/32  | .28                   |
| 438-249SR   | 2X1       | 1-7/8   | 1       | .29                   |
| 438-334SR   | 3X3/4     | 2-9/32  | 1-17/32 | .57                   |
| 438-335SR   | 3X1       | 2-1/4   | 1-3/8   | .59                   |
| 438-336SR   | 3X1-1/4   | 2-9/32  | 1- 5/16 | .58                   |
| 438-337SR   | 3X1-1/2   | 2-5/16  | 1-11/32 | .67                   |
| 438-420SR   | 4X2       | 2-13/32 | 1-13/32 | .85                   |
| 438-528SR   | 6X2       | 3-9/16  | 2-9/16  | 2.64                  |
| 438-530SR   | 6X3       | 3-1/2   | 2-1/8   | 2.71                  |

Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



**Reducer Bushing - Special Reinforced Flush Style**

Spigot x SR Fipt - Stainless Steel Collar

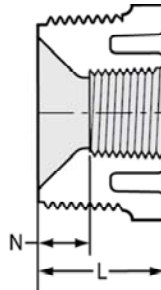


(Continued)

| Part Number | Size | L      | N       | Approx. Wt. (Lbs.) |
|-------------|------|--------|---------|--------------------|
| 438-532SR   | 6X4  | 3- 1/2 | 2- 1/32 | 2.60               |

**Reducer (T.T.) Bushing**

Mipt x Fipt



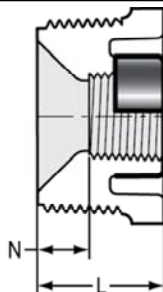
| Part Number | Size        | L       | N      | Approx. Wt. (Lbs.) |
|-------------|-------------|---------|--------|--------------------|
| 439-052     | 3/8X1/4     | 25/32   | 3/16   | .01                |
| 439-071     | 1/2X1/8     | 27/32   | 7/16   | .01                |
| 439-072     | 1/2X1/4     | 7/8     | 5/16   | .01                |
| 439-073     | 1/2X3/8     | 15/16   | 11/32  | .01                |
| 439-098     | 3/4X1/4     | 1       | 7/16   | .03                |
| 439-099     | 3/4X3/8     | 1       | 7/16   | .03                |
| 439-101     | 3/4X1/2     | 15/16   | 3/16   | .01                |
| 439-128     | 1X1/4       | 1- 1/8  | 17/32  | .04                |
| 439-130     | 1X1/2       | 1- 1/16 | 11/32  | .04                |
| 439-131     | 1X3/4       | 1- 1/8  | 3/8    | .03                |
| 439-166     | 1-1/4X1/2   | 1- 5/16 | 9/16   | .08                |
| 439-167     | 1-1/4X3/4   | 1- 9/32 | 9/16   | .08                |
| 439-168     | 1-1/4X1     | 1- 3/16 | 9/32   | .06                |
| 439-209     | 1-1/2X1/2   | 1-11/32 | 5/8    | .11                |
| 439-210     | 1-1/2X3/4   | 1-11/32 | 19/32  | .11                |
| 439-211     | 1-1/2X1     | 1-11/32 | 7/16   | .10                |
| 439-212     | 1-1/2X1-1/4 | 1-11/32 | 13/32  | .06                |
| 439-247     | 2X1/2       | 1- 3/8  | 21/32  | .16                |
| 439-248     | 2X3/4       | 1- 3/8  | 5/8    | .16                |
| 439-249     | 2X1         | 1- 3/8  | 15/32  | .16                |
| 439-250     | 2X1-1/4     | 1- 3/8  | 7/16   | .15                |
| 439-251     | 2X1-1/2     | 1- 3/8  | 13/32  | .12                |
| 439-292     | 2-1/2X2     | 1-7/8   | 7/8    | .21                |
| 439-337     | 3X1-1/2     | 1-15/16 | 15/16  | .49                |
| 439-338     | 3X2         | 1-15/16 | 15/16  | .44                |
| 439-339     | 3X2-1/2     | 1-15/16 | 5/8    | .37                |
| 439-420     | 4X2         | 2- 1/8  | 1- 1/8 | .82                |
| 439-422     | 4X3         | 2- 1/8  | 1/2    | .71                |



Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**

**Reducer Bushing - Special Reinforced Flush Style**

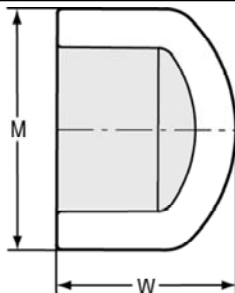
Mipt X SR Fipt - Stainless Steel Collar



| Part Number | Size      | L       | N      | Approx. Wt. (Lbs.) |
|-------------|-----------|---------|--------|--------------------|
| 439-209SR   | 1-1/2X1/2 | 1-11/32 | 19/32  | .12                |
| 439-210SR   | 1-1/2X3/4 | 1-11/32 | 19/32  | .12                |
| 439-247SR   | 2X1/2     | 1-3/8   | 5/8    | .17                |
| 439-248SR   | 2X3/4     | 1- 3/8  | 5/8    | .18                |
| 439-249SR   | 2X1       | 1- 3/8  | 15/32  | .19                |
| 439-420SR   | 4X2       | 2- 1/8  | 1- 1/8 | .86                |

**Cap**

Socket



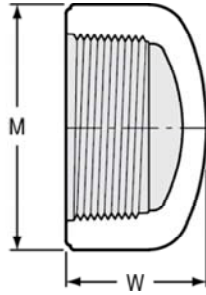
| Part Number | Size  | M        | W       | Approx. Wt. (Lbs.) |
|-------------|-------|----------|---------|--------------------|
| 447-003     | 3/8   | 29/32    | 1       | .01                |
| 447-005     | 1/2   | 1- 3/32  | 1- 1/16 | .02                |
| 447-007     | 3/4   | 1- 5/16  | 1-5/16  | .03                |
| 447-010     | 1     | 1-19/32  | 1-5/8   | .06                |
| 447-012     | 1-1/4 | 1-31/32  | 1- 3/4  | .09                |
| 447-015     | 1-1/2 | 2- 1/4   | 1-29/32 | .11                |
| 447-020     | 2     | 2-23/32  | 2- 1/32 | .17                |
| 447-025     | 2-1/2 | 3-5/16   | 2-19/32 | .32                |
| 447-030     | 3     | 4        | 3-3/8   | .49                |
| 447-040     | 4     | 5-1/32   | 3-13/32 | .77                |
| 447-045F*   | 4-1/2 | 5- 7/16  | 3- 5/8  | .88                |
| 447-050     | 5     | 6- 1/8   | 4-11/16 | 1.42               |
| 447-060     | 6     | 7-1/4    | 5-7/16  | 2.50               |
| 447-080     | 8     | 9-11/32  | 6-25/32 | 4.59               |
| 447-100F*   | 10    | 11-13/16 | 5- 1/4  | 5.70               |
| 447-120F*   | 12    | 13- 7/8  | 6- 7/8  | 8.09               |
| 447-140F*   | 14    | 15       | 7- 3/8  | 10.21              |
| 447-160F*   | 16    | 17- 1/16 | 9       | 15.41              |
| 447-180F*   | 18    | 19- 1/8  | 9       | 18.92              |
| 447-200F*   | 20    | 21- 3/16 | 12- 1/4 | 29.85              |
| 447-240F*   | 24    | 25- 5/16 | 14- 1/8 | 43.28              |

\* Fabricated

Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



**Cap**  
 Fipt

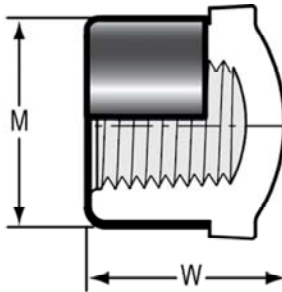


| Part Number | Size  | M        | W       | Approx. Wt. (Lbs.) |
|-------------|-------|----------|---------|--------------------|
| 448-003     | 3/8   | 15/16    | 25/32   | .01                |
| 448-005     | 1/2   | 1- 1/8   | 1- 1/32 | .02                |
| 448-007     | 3/4   | 1-11/32  | 1- 1/16 | .03                |
| 448-010     | 1     | 1-21/32  | 1-5/16  | .05                |
| 448-012     | 1-1/4 | 2-1/16   | 1-13/32 | .09                |
| 448-015     | 1-1/2 | 2-9/32   | 1-9/16  | .11                |
| 448-020     | 2     | 2-25/32  | 1-21/32 | .16                |
| 448-025     | 2-1/2 | 3-3/8    | 2-5/16  | .34                |
| 448-030     | 3     | 4-3/32   | 2-7/16  | .50                |
| 448-040     | 4     | 5-5/32   | 2-3/4   | .81                |
| 448-050     | 5     | 6-5/16   | 3-3/16  | 1.51               |
| 448-060     | 6     | 7-5/16   | 3-3/16  | 1.64               |
| 448-080F*   | 8     | 9- 3/8   | 4- 3/8  | 3.30               |
| 448-100F*   | 10    | 11- 5/8  | 5- 3/4  | 5.39               |
| 448-120F*   | 12    | 13-13/16 | 6- 3/16 | 12.00              |

\* Fabricated

**Cap - Special Reinforced**

SR Fipt - Stainless Steel Collar



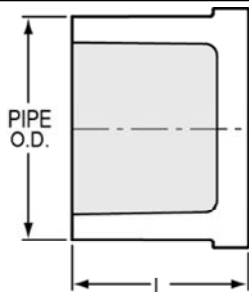
| Part Number | Size  | M      | W      | Approx. Wt. (Lbs.) |
|-------------|-------|--------|--------|--------------------|
| 448-012SR   | 1-1/4 | 2-3/32 | 1-7/16 | .12                |



Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**

## Plug

Spigot



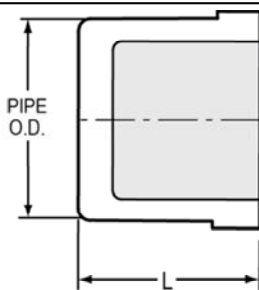
| Part Number            | Size  | L        | Approx. Wt. (Lbs.) |
|------------------------|-------|----------|--------------------|
| 449-003                | 3/8   | 15/16    | .01                |
| 449-005                | 1/2   | 7/8      | .01                |
| 449-007                | 3/4   | 1-1/8    | .02                |
| 449-010                | 1     | 1-1/4    | .04                |
| 449-012                | 1-1/4 | 1-17/32  | .08                |
| 449-015                | 1-1/2 | 1-5/8    | .10                |
| 449-020                | 2     | 1-3/4    | .16                |
| 449-025                | 2-1/2 | 2-3/8    | .34                |
| 449-030                | 3     | 2-3/32   | .38                |
| 449-040                | 4     | 2-5/8    | .76                |
| 449-060                | 6     | 3-17/32  | 1.74               |
| 449-060F <sup>4*</sup> | 6     | 10-1/4   | 4.85               |
| 449-080F <sup>4*</sup> | 8     | 11-13/16 | 8.83               |
| 449-100F <sup>4*</sup> | 10    | 11- 1/4  | 11.98              |
| 449-120F <sup>4*</sup> | 12    | 13- 7/8  | 18.15              |
| 449-140F <sup>4*</sup> | 14    | 15- 3/8  | 23.71              |
| 449-160F <sup>4*</sup> | 16    | 18       | 32.07              |
| 449-180F <sup>4*</sup> | 18    | 19       | 44.05              |
| 449-200F <sup>4*</sup> | 20    | 23- 1/4  | 67.25              |
| 449-240F <sup>4*</sup> | 24    | 27- 1/8  | 105.12             |

<sup>4</sup> Plug fabricated using Cap and pipe spigot.

\* Fabricated

## Plug - Counter Sunk

Spigot



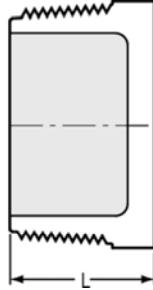
| Part Number | Size | L       | Approx. Wt. (Lbs.) |
|-------------|------|---------|--------------------|
| 449-007CS   | 3/4  | 1- 1/4  | .03                |
| 449-010CS   | 1    | 1- 5/32 | .05                |

Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



## Plug

Mipt



| Part Number            | Size  | L       | Approx. Wt. (Lbs.) |
|------------------------|-------|---------|--------------------|
| 450-003                | 3/8   | 3/4     | .01                |
| 450-005                | 1/2   | 27/32   | .01                |
| 450-007                | 3/4   | 7/8     | .02                |
| 450-010                | 1     | 1-1/16  | .04                |
| 450-012                | 1-1/4 | 1-5/16  | .06                |
| 450-015                | 1-1/2 | 1-11/32 | .09                |
| 450-020                | 2     | 1-3/8   | .17                |
| 450-025                | 2-1/2 | 1-25/32 | .26                |
| 450-030                | 3     | 1-27/32 | .38                |
| 450-040                | 4     | 2- 1/8  | .72                |
| 450-060                | 6     | 2-3/32  | 1.70               |
| 450-080                | 8     | 2-13/32 | 3.25               |
| 450-080F <sup>4*</sup> | 8     | 9-7/8   | 9.29               |
| 450-100F <sup>4*</sup> | 10    | 8- 1/2  | 12.68              |
| 450-120F <sup>4*</sup> | 12    | 10- 7/8 | 19.68              |

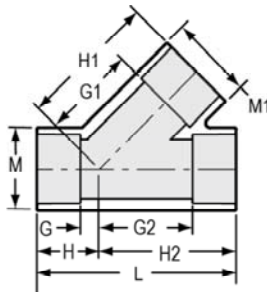
<sup>4</sup> Plug fabricated using Cap and threaded pipe.

\* Fabricated

## Wye

Socket x Socket x Socket

1/2" - 2" - 235 psi Maximum Internal Pressure Rating @ 73°F (23°C)  
2-1/2" - 6" - 150 psi Maximum Internal Pressure Rating @ 73°F (23°C)  
8" - Larger & All Fabricated Sizes- 100 psi Maximum Internal Pressure Rating @ 73°F (23°C)



| Part Number            | Size  | G       | G1       | G2       | H        | H1       | H2       | L        | M        | M1       | Approx. Wt. (Lbs.) |
|------------------------|-------|---------|----------|----------|----------|----------|----------|----------|----------|----------|--------------------|
| 475-005                | 1/2   | 1/4     | 1- 3/16  | 1- 3/16  | 1-5/32   | 2- 1/16  | 2- 1/16  | 3-7/32   | 1- 5/32  | 1- 5/32  | .12                |
| 475-007                | 3/4   | 9/32    | 1-13/32  | 1-13/32  | 1-9/32   | 2-13/32  | 2-13/32  | 3-11/16  | 1- 3/8   | 1- 3/8   | .18                |
| 475-010                | 1     | 15/32   | 1-27/32  | 1-27/32  | 1-17/32  | 2-7/8    | 2-7/8    | 4-13/32  | 1- 5/8   | 1- 5/8   | .22                |
| 475-012                | 1-1/4 | 13/32   | 2-3/16   | 2-3/16   | 1-21/32  | 3-15/32  | 3-15/32  | 5- 1/8   | 2- 1/16  | 2- 1/16  | .50                |
| 475-015                | 1-1/2 | 19/32   | 2-9/16   | 2-9/16   | 1-29/32  | 3-7/8    | 3-7/8    | 5-25/32  | 2-1/4    | 2-1/4    | .46                |
| 475-020                | 2     | 23/32   | 3-5/32   | 3-5/32   | 2-3/32   | 4-17/32  | 4-17/32  | 6- 5/8   | 2-23/32  | 2-23/32  | .69                |
| 475-025                | 2-1/2 | 15/16   | 3-13/16  | 3-13/16  | 2-11/16  | 5-9/16   | 5-9/16   | 8-1/4    | 3-11/32  | 3-11/32  | 1.39               |
| 475-030                | 3     | 1-3/32  | 4-19/32  | 4-19/32  | 2-31/32  | 6-15/32  | 6-15/32  | 9-7/16   | 4        | 4        | 2.00               |
| 475-040                | 4     | 1-5/16  | 5-13/16  | 5-13/16  | 3-11/32  | 7-13/16  | 7-13/16  | 11-5/32  | 5- 1/32  | 5- 1/32  | 3.39               |
| 475-050F <sup>2*</sup> | 5     | 3- 3/4  | 9- 3/8   | 9- 3/8   | 6- 3/4   | 12- 3/8  | 12- 3/8  | 19- 1/8  | 6- 1/16  | 6- 1/16  | 11.01              |
| 475-060                | 6     | 1-13/32 | 8-21/32  | 8-1/16   | 4-13/32  | 11-21/32 | 11-1/16  | 15-15/32 | 7- 9/16  | 7- 9/16  | 12.15              |
| 475-080                | 8     | 2-1/32  | 11-9/32  | 11-9/32  | 6-1/32   | 15-9/32  | 15-9/32  | 21- 5/16 | 9- 3/4   | 9- 3/4   | 25.85              |
| 475-100                | 10    | 2-17/32 | 13-29/32 | 13-29/32 | 7-17/32  | 18-29/32 | 18-29/32 | 26-7/16  | 11-9/16  | 11-9/16  | 26.77              |
| 475-100F <sup>2*</sup> | 10    | 6- 9/16 | 17- 1/4  | 17- 1/4  | 11-13/16 | 22- 1/2  | 22- 1/2  | 34- 5/16 | 11- 1/2  | 11- 1/2  | 44.00              |
| 475-120                | 12    | 3-1/4   | 16-3/32  | 16-3/32  | 9-1/4    | 22-3/32  | 22-3/32  | 31-11/32 | 13-11/16 | 13-11/16 | 42.68              |



## Schedule 40 Fittings Technical

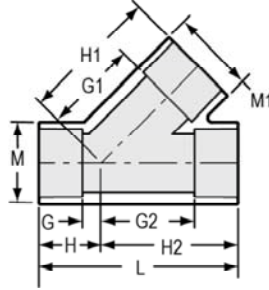
### Schedule 40 Fittings Dimensions & Information

#### Wye

(Continued)

Socket x Socket x Socket

1/2" - 2" - 235 psi Maximum Internal Pressure  
Rating @ 73°F (23°C) 2-1/2" - 6" - 150 psi  
Maximum Internal Pressure Rating @ 73°F (23°  
C) 8" - Larger & All Fabricated Sizes- 100 psi  
Maximum Internal Pressure Rating @ 73°F (23°  
C)



| Part Number           | Size | G        | G1       | G2       | H        | H1       | H2       | L       | M        | M1       | Approx. Wt.<br>(Lbs.) |
|-----------------------|------|----------|----------|----------|----------|----------|----------|---------|----------|----------|-----------------------|
| 475-120F <sup>2</sup> | 12   | 7- 5/16  | 20- 1/16 | 20- 1/16 | 13- 9/16 | 26- 5/16 | 26- 5/16 | 39- 7/8 | 13- 9/16 | 13- 9/16 | 64.53                 |
| 475-140F <sup>2</sup> | 14   | 7- 3/16  | 21- 3/16 | 21- 3/16 | 14- 3/16 | 28- 3/16 | 28- 3/16 | 42- 3/8 | 14- 7/8  | 14- 7/8  | 90.24                 |
| 475-160F <sup>2</sup> | 16   | 8- 3/4   | 24- 3/4  | 24- 3/4  | 16- 3/4  | 32- 3/4  | 32- 3/4  | 49- 1/2 | 17       | 17       | 122.99                |
| 475-180F <sup>2</sup> | 18   | 9- 7/16  | 27- 7/16 | 27- 7/16 | 18- 7/16 | 36- 7/16 | 36- 7/16 | 54- 7/8 | 19- 1/8  | 19- 1/8  | 165.52                |
| 475-200F <sup>2</sup> | 20   | 11- 7/16 | 30- 5/16 | 30- 5/16 | 21- 7/16 | 40- 5/16 | 40- 5/16 | 61- 3/4 | 21- 3/16 | 21- 3/16 | 216.85                |
| 475-240F <sup>2</sup> | 24   | 11       | 35       | 35       | 23       | 47       | 47       | 70      | 25- 3/8  | 25- 3/8  | 327.00                |

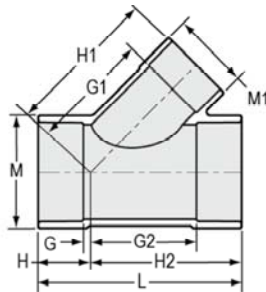
><sup>2</sup> Fiberglass reinforced.

\* Fabricated

#### Wye - Reducing

Socket x Socket x Socket

1/2" - 2" - 235 psi Maximum Internal Pressure  
Rating @ 73°F (23°C) 2-1/2" - 6" - 150 psi  
Maximum Internal Pressure Rating @ 73°F (23°  
C) 8" - Larger & All Fabricated Sizes - 100 psi  
Maximum Internal Pressure Rating @ 73°F (23°  
C)



| Part Number           | Size        | G       | G1      | G2      | H       | H1      | H2      | L        | M       | M1      | Approx. Wt.<br>(Lbs.) |
|-----------------------|-------------|---------|---------|---------|---------|---------|---------|----------|---------|---------|-----------------------|
| 475-101 <sup>1</sup>  | 3/4X1/2     | 9/32    | 1-25/32 | 1-13/32 | 1-9/32  | 2-17/32 | 2-13/32 | 3-11/16  | 1- 3/8  | 1- 3/8  | .20                   |
| 475-131 <sup>1</sup>  | 1X3/4       | 15/32   | 2-5/32  | 1-27/32 | 1-17/32 | 3-3/32  | 2- 7/8  | 4-13/32  | 1-5/8   | 1-5/8   | .26                   |
| 475-167 <sup>1</sup>  | 1-1/4X3/4   | 13/32   | 2-25/32 | 2-3/16  | 1-21/32 | 3-23/32 | 3-15/32 | 5- 1/8   | 2- 1/16 | 2- 1/16 | .61                   |
| 475-168 <sup>1</sup>  | 1-1/4X1     | 13/32   | 2-11/16 | 2-3/16  | 1-21/32 | 3-23/32 | 3-15/32 | 5- 1/8   | 2- 1/16 | 2- 1/16 | .56                   |
| 475-210 <sup>1</sup>  | 1-1/2X3/4   | 19/32   | 3-7/32  | 2- 9/16 | 1-29/32 | 4-1/8   | 3-7/8   | 5-25/32  | 2-1/4   | 2-1/4   | .58                   |
| 475-211 <sup>1</sup>  | 1-1/2X1     | 19/32   | 3       | 2- 9/16 | 1-29/32 | 4-1/8   | 3-7/8   | 5-25/32  | 2-1/4   | 2-1/4   | .58                   |
| 475-212 <sup>1</sup>  | 1-1/2X1-1/4 | 19/32   | 2-7/8   | 2- 9/16 | 1-29/32 | 4-1/8   | 3-7/8   | 5-25/32  | 2-1/4   | 2-1/4   | .52                   |
| 475-248 <sup>1</sup>  | 2X3/4       | 23/32   | 3-13/16 | 3-5/32  | 2-3/32  | 4-13/16 | 4-17/32 | 6-5/8    | 2-23/32 | 2-23/32 | .85                   |
| 475-249 <sup>1</sup>  | 2X1         | 23/32   | 3-3/4   | 3-5/32  | 2-3/32  | 4-13/16 | 4-17/32 | 6-5/8    | 2-23/32 | 2-23/32 | .86                   |
| 475-251 <sup>1</sup>  | 2X1-1/2     | 23/32   | 3-1/2   | 3-5/32  | 2-3/32  | 4-13/16 | 4-17/32 | 6-5/8    | 2-23/32 | 2-23/32 | .82                   |
| 475-292 <sup>1</sup>  | 2-1/2X2     | 15/16   | 4-1/2   | 3-13/16 | 2-11/16 | 5-7/8   | 5-9/16  | 8-1/4    | 3-11/32 | 3-11/32 | 3.22                  |
| 475-335 <sup>1</sup>  | 3X1         | 1-3/32  | 5-23/32 | 4-19/32 | 2-31/32 | 6-25/32 | 6-15/32 | 9-7/16   | 4       | 4       | 2.49                  |
| 475-336 <sup>1</sup>  | 3X1-1/4     | 1-3/32  | 5-19/32 | 4-19/32 | 2-31/32 | 6-27/32 | 6-15/32 | 9-7/16   | 4       | 4       | 2.49                  |
| 475-337 <sup>1</sup>  | 3X1-1/2     | 1-3/32  | 5-17/32 | 4-19/32 | 2-31/32 | 6-27/32 | 6-15/32 | 9-7/16   | 4       | 4       | 2.51                  |
| 475-338 <sup>1</sup>  | 3X2         | 1-3/32  | 5-9/32  | 4-19/32 | 2-31/32 | 6-25/32 | 6-15/32 | 9-7/16   | 4       | 4       | 2.47                  |
| 475-339 <sup>1</sup>  | 3X2-1/2     | 1-3/32  | 5-1/32  | 4-19/32 | 2-31/32 | 6-25/32 | 6-15/32 | 9-7/16   | 4       | 4       | 2.37                  |
| 475-420               | 4X2         | 5/32    | 4-23/32 | 4- 5/16 | 1-27/32 | 6-3/32  | 6-11/32 | 8- 3/16  | 5- 1/32 | 2-3/4   | 1.98                  |
| 475-422 <sup>1</sup>  | 4X3         | 19/32   | 5- 5/16 | 5-3/32  | 2- 5/8  | 7-3/16  | 7- 1/8  | 9- 3/4   | 5- 1/32 | 4       | 2.66                  |
| 475-488F <sup>2</sup> | 5X3         | 1-13/16 | 8-13/16 | 7-7/16  | 4-13/16 | 11-1/16 | 10-7/16 | 15-1/4   | 6-1/16  | 3-15/16 | 7.04                  |
| 475-490F <sup>2</sup> | 5X4         | 2-13/16 | 9-13/16 | 8-7/16  | 5-13/16 | 12-1/16 | 11-7/16 | 17-1/4   | 6-1/16  | 5       | 8.70                  |
| 475-528 <sup>1</sup>  | 6X2         | 0       | 8-7/8   | 6-11/16 | 3       | 10-1/4  | 9-11/16 | 12-11/16 | 7- 9/16 | 5-7/16  | 9.54                  |

**Schedule 40 Fittings Technical**  
**Schedule 40 Fittings Dimensions & Information**



## Wye - Reducing

(Continued)

Socket x Socket x Socket

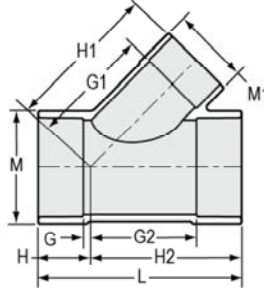
1/2" - 2" - 235 psi Maximum Internal Pressure

Rating @ 73°F (23°C) 2-1/2" - 6" - 150 psi

Maximum Internal Pressure Rating @ 73°F (23°

C) 8" - Larger & All Fabricated Sizes - 100 psi

Maximum Internal Pressure Rating @ 73°F (23°  
C)



| Part Number           | Size     | G       | G1       | G2       | H       | H1       | H2       | L        | M        | M1       | Approx. Wt.<br>(Lbs.) |
|-----------------------|----------|---------|----------|----------|---------|----------|----------|----------|----------|----------|-----------------------|
| 475-530 <sup>1</sup>  | 6X3      | 0       | 8-3/8    | 6-11/16  | 3       | 10- 1/4  | 9-11/16  | 12-11/16 | 7- 9/16  | 5- 7/16  | 9.50                  |
| 475-532               | 6X4      | 0       | 7-5/8    | 6-11/16  | 3       | 9-7/8    | 9-11/16  | 12-11/16 | 7- 9/16  | 5- 7/16  | 8.72                  |
| 475-578F <sup>2</sup> | 8X2      | 9/16    | 9- 3/4   | 9- 3/16  | 4-13/16 | 11- 1/2  | 13- 7/16 | 18- 1/4  | 9- 1/4   | 2-11/16  | 12.77                 |
| 475-579F <sup>2</sup> | 8X2-1/2  | 1       | 10-3/16  | 9-5/8    | 5-1/4   | 12-3/16  | 13-7/8   | 19-1/8   | 9-1/4    | 3-1/4    | 13.00                 |
| 475-580F <sup>2</sup> | 8X3      | 1- 5/16 | 10- 7/8  | 9-15/16  | 5- 9/16 | 13- 1/8  | 14- 3/16 | 19- 3/4  | 9- 1/4   | 3-15/16  | 14.31                 |
| 475-582               | 8X4      | 15/32   | 9-1/16   | 8-1/4    | 3-17/32 | 11-5/16  | 12-1/4   | 15-25/32 | 9-23/32  | 5-1/4    | 14.81                 |
| 475-582F <sup>2</sup> | 8X4      | 2- 1/16 | 11- 7/8  | 10-11/16 | 6- 5/16 | 14- 1/8  | 14-15/16 | 21- 1/4  | 9- 1/4   | 5        | 16.31                 |
| 475-585F <sup>2</sup> | 8X6      | 3- 1/2  | 12-13/16 | 12- 1/8  | 7- 3/4  | 16- 1/16 | 16- 3/8  | 24- 1/8  | 9- 1/4   | 7- 3/16  | 21.03                 |
| 475-621F <sup>2</sup> | 10X2     | 1/2     | 11- 3/16 | 10- 1/4  | 4- 3/4  | 12-15/16 | 15- 1/2  | 20- 1/4  | 11- 1/2  | 2-11/16  | 17.95                 |
| 475-622F <sup>2</sup> | 10X2-1/2 | 1/8     | 11-5/8   | 10-5/8   | 5-1/8   | 13-5/8   | 15-7/8   | 21       | 11-1/2   | 3-1/4    | 20.81                 |
| 475-623F <sup>2</sup> | 10X3     | 1/2     | 12- 5/16 | 11- 1/4  | 5- 3/4  | 14- 9/16 | 16- 1/2  | 22- 1/4  | 11- 1/2  | 3-15/16  | 20.25                 |
| 475-624F <sup>2</sup> | 10X4     | 1- 7/16 | 13- 5/16 | 12- 3/16 | 6-11/16 | 15- 9/16 | 17- 7/16 | 24- 1/8  | 11- 1/2  | 5        | 22.99                 |
| 475-626               | 10X6     | 3/16    | 11-29/32 | 11       | 4-13/16 | 14-15/16 | 16       | 20-13/16 | 12- 1/16 | 7-5/8    | 28.18                 |
| 475-626F <sup>2</sup> | 10X6     | 3- 1/2  | 14- 1/4  | 14- 1/4  | 8- 3/4  | 17- 1/2  | 19- 1/2  | 28- 1/4  | 11- 1/2  | 7- 3/16  | 29.73                 |
| 475-628               | 10X8     | 1-7/16  | 12-7/8   | 12-7/16  | 6-7/16  | 16-7/8   | 17-7/16  | 23-7/8   | 12-3/32  | 9-3/4    | 34.14                 |
| 475-628F <sup>2</sup> | 10X8     | 5- 1/8  | 15-11/16 | 15- 7/8  | 10- 3/8 | 19-15/16 | 21- 1/8  | 31- 1/2  | 11- 1/2  | 9- 1/4   | 34.14                 |
| 475-661F <sup>2</sup> | 12X2     | 1- 1/8  | 12- 9/16 | 11- 5/8  | 5- 1/8  | 14- 5/16 | 17- 7/8  | 23       | 13- 9/16 | 2-11/16  | 25.41                 |
| 475-663F <sup>2</sup> | 12X3     | 3/8     | 13-11/16 | 12- 3/8  | 5- 7/8  | 15-15/16 | 18- 5/8  | 24- 1/2  | 13- 9/16 | 3-15/16  | 28.74                 |
| 475-664F <sup>2</sup> | 12X4     | 3/8     | 14-11/16 | 13- 1/8  | 6- 5/8  | 16-15/16 | 19- 3/8  | 26       | 13- 9/16 | 5        | 32.24                 |
| 475-666F <sup>2</sup> | 12X6     | 2- 3/8  | 15- 5/8  | 15- 1/8  | 8- 5/8  | 18- 7/8  | 21- 3/8  | 30       | 13- 9/16 | 7- 3/16  | 38.41                 |
| 475-668F <sup>2</sup> | 12X8     | 3- 7/8  | 17- 1/16 | 16- 5/8  | 10- 1/8 | 21- 5/16 | 22- 7/8  | 33       | 13- 9/16 | 9- 1/4   | 45.53                 |
| 475-670F <sup>2</sup> | 12X10    | 5- 3/8  | 18- 1/8  | 18- 1/8  | 11- 5/8 | 23- 3/8  | 24- 3/8  | 36       | 13- 9/16 | 11- 1/2  | 55.50                 |
| 475-691F <sup>2</sup> | 14X2     | 2       | 13- 7/16 | 12       | 5       | 15- 3/16 | 19       | 24       | 14- 7/8  | 2-11/16  | 33.48                 |
| 475-693F <sup>2</sup> | 14X3     | 3/4     | 14- 9/16 | 13- 1/4  | 6- 1/4  | 16-13/16 | 20- 1/4  | 26- 1/2  | 14- 7/8  | 3-15/16  | 33.06                 |
| 475-694F <sup>2</sup> | 14X4     | 0       | 15- 9/16 | 14       | 7       | 17-13/16 | 21       | 28       | 14- 7/8  | 5        | 37.44                 |
| 475-696F <sup>2</sup> | 14X6     | 1- 1/2  | 16- 1/2  | 15- 1/2  | 8- 1/2  | 19- 3/4  | 22- 1/2  | 31       | 14- 7/8  | 7- 3/16  | 45.39                 |
| 475-698F <sup>2</sup> | 14X8     | 3       | 17-15/16 | 17       | 10      | 22- 3/16 | 24       | 34       | 14- 7/8  | 9- 1/8   | 52.01                 |
| 475-700F <sup>2</sup> | 14X10    | 4- 1/2  | 19       | 18- 1/2  | 11- 1/2 | 24- 1/4  | 25- 1/2  | 37       | 14- 7/8  | 11- 1/2  | 64.61                 |
| 475-702F <sup>2</sup> | 14X12    | 7       | 20-15/16 | 21       | 14      | 27- 3/16 | 28       | 42       | 14- 7/8  | 13- 9/16 | 74.55                 |
| 475-751F <sup>2</sup> | 16X2     | 2       | 14- 3/4  | 14       | 6       | 16- 1/2  | 22       | 28       | 17       | 2-11/16  | 46.49                 |
| 475-753F <sup>2</sup> | 16X3     | 1- 1/8  | 15- 7/8  | 14- 7/8  | 6- 7/8  | 18- 1/8  | 22- 7/8  | 29- 3/4  | 17       | 3-15/16  | 48.45                 |
| 475-754F <sup>2</sup> | 16X4     | 1/2     | 16- 7/8  | 15- 1/2  | 7- 1/2  | 19- 1/8  | 23- 1/2  | 31       | 17       | 5        | 53.59                 |
| 475-756F <sup>2</sup> | 16X6     | 1- 7/8  | 17-13/16 | 17- 7/8  | 9- 7/8  | 21- 1/16 | 25- 7/8  | 35- 3/4  | 17       | 7- 3/16  | 63.81                 |
| 475-758F <sup>2</sup> | 16X8     | 2- 1/2  | 19- 1/4  | 18- 1/2  | 10- 1/2 | 23- 1/2  | 26- 1/2  | 37       | 17       | 9- 1/4   | 68.83                 |
| 475-760F <sup>2</sup> | 16X10    | 4       | 20- 5/16 | 20       | 12      | 25- 9/16 | 28       | 40       | 17       | 11- 1/2  | 80.02                 |
| 475-762F <sup>2</sup> | 16X12    | 5- 1/2  | 22- 1/4  | 21- 1/2  | 13- 1/2 | 28- 1/2  | 29- 1/2  | 43       | 17       | 13- 9/16 | 89.53                 |
| 475-764F <sup>2</sup> | 16X14    | 6- 3/8  | 22- 1/2  | 22- 3/8  | 14- 3/8 | 29- 1/2  | 30- 3/8  | 44- 3/4  | 17       | 14- 7/8  | 100.41                |
| 475-781F <sup>2</sup> | 18X2     | 3-1/8   | 16-1/16  | 14-7/8   | 5-7/8   | 17-13/16 | 23-7/8   | 29-3/4   | 19-1/8   | 2-11/16  | 61.34                 |
| 475-783F <sup>2</sup> | 18X3     | 1-5/8   | 17-3/16  | 16-3/8   | 7-3/8   | 19-7/16  | 25-3/8   | 32-3/4   | 19-1/8   | 3-15/16  | 67.07                 |
| 475-784F <sup>2</sup> | 18X4     | 1-1/8   | 18-3/16  | 16-7/8   | 7-7/8   | 20-7/16  | 25-7/8   | 33-3/4   | 19-1/8   | 5        | 71.03                 |



## Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

### Wye - Reducing

(Continued)

Socket x Socket x Socket

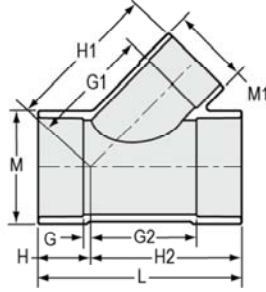
1/2" - 2" - 235 psi Maximum Internal Pressure

Rating @ 73°F (23°C) 2-1/2" - 6" - 150 psi

Maximum Internal Pressure Rating @ 73°F (23°

C) 8" - Larger & All Fabricated Sizes - 100 psi

Maximum Internal Pressure Rating @ 73°F (23°  
C)



| Part Number            | Size  | G      | G1       | G2      | H       | H1       | H2      | L       | M        | M1       | Approx. Wt.<br>(Lbs.) |
|------------------------|-------|--------|----------|---------|---------|----------|---------|---------|----------|----------|-----------------------|
| 475-786F <sup>2*</sup> | 18X6  | 7/8    | 19- 1/8  | 18- 7/8 | 9- 7/8  | 22- 3/8  | 27- 7/8 | 37- 3/4 | 19- 1/8  | 7- 3/16  | 81.78                 |
| 475-788F <sup>2*</sup> | 18X8  | 2- 3/8 | 20- 9/16 | 20- 3/8 | 11- 3/8 | 24-13/16 | 29- 3/8 | 40- 3/4 | 19- 1/8  | 9- 1/4   | 92.20                 |
| 475-790F <sup>2*</sup> | 18X10 | 3- 3/8 | 21- 5/8  | 21- 3/8 | 12- 3/8 | 26- 7/8  | 30- 3/8 | 42- 3/4 | 19- 1/8  | 11- 1/2  | 102.13                |
| 475-792F <sup>2*</sup> | 18X12 | 4- 7/8 | 23- 9/16 | 22- 7/8 | 13- 7/8 | 29-13/16 | 31- 7/8 | 45- 3/4 | 19- 1/8  | 13- 9/16 | 112.77                |
| 475-794F <sup>2*</sup> | 18X14 | 5- 3/8 | 23-13/16 | 23- 3/8 | 14- 3/8 | 30-13/16 | 32- 3/8 | 46- 3/4 | 19- 1/8  | 14- 7/8  | 122.40                |
| 475-796F <sup>2*</sup> | 18X16 | 7- 7/8 | 26- 1/16 | 25- 7/8 | 16- 7/8 | 34- 1/16 | 34- 7/8 | 51- 3/4 | 19- 1/8  | 17       | 144.27                |
| 475-811F <sup>2*</sup> | 20X2  | 3-1/8  | 17-7/16  | 16-7/8  | 6-7/8   | 19-3/16  | 26-7/8  | 33-3/4  | 21-3/16  | 2-11/16  | 69.38                 |
| 475-813F <sup>2*</sup> | 20X3  | 2-1/4  | 18-9/16  | 17-3/4  | 7-3/4   | 20-13/16 | 27-3/4  | 35-1/2  | 21-3/16  | 3-15/16  | 71.83                 |
| 475-814F <sup>2*</sup> | 20X4  | 1-5/8  | 19-9/16  | 18-3/8  | 8-3/8   | 21-13/16 | 28-3/8  | 36-3/4  | 21-3/16  | 5        | 92.13                 |
| 475-816F <sup>2*</sup> | 20X6  | 1/8    | 20- 1/2  | 19- 7/8 | 9- 7/8  | 23- 3/4  | 29- 7/8 | 39- 3/4 | 21- 3/16 | 7- 3/16  | 101.51                |
| 475-818F <sup>2*</sup> | 20X8  | 1- 3/8 | 21-15/16 | 21- 3/8 | 11- 3/8 | 26- 3/16 | 31- 3/8 | 42- 3/4 | 21- 3/16 | 9- 1/4   | 109.36                |
| 475-820F <sup>2*</sup> | 20X10 | 2- 3/8 | 23       | 22- 3/8 | 12- 3/8 | 28- 1/4  | 32- 3/8 | 44- 3/4 | 21- 3/16 | 11- 1/2  | 120.52                |
| 475-822F <sup>2*</sup> | 20X12 | 4- 3/8 | 24-15/16 | 24- 3/8 | 14- 3/8 | 31- 3/16 | 34- 3/8 | 48- 3/4 | 21- 3/16 | 13- 9/16 | 133.54                |
| 475-824F <sup>2*</sup> | 20X14 | 4- 7/8 | 25- 3/16 | 24- 7/8 | 14- 7/8 | 32- 3/16 | 34- 7/8 | 49- 3/4 | 21- 3/16 | 14- 7/8  | 147.64                |
| 475-826F <sup>2*</sup> | 20X16 | 6- 3/8 | 27- 7/16 | 26- 3/8 | 16- 3/8 | 35- 7/16 | 36- 3/8 | 52- 3/4 | 21- 3/16 | 17       | 164.09                |
| 475-828F <sup>2*</sup> | 20X18 | 7- 7/8 | 28-13/16 | 27- 7/8 | 17- 7/8 | 37-13/16 | 37- 7/8 | 55- 3/4 | 21- 3/16 | 19- 1/8  | 187.99                |
| 475-901F <sup>2*</sup> | 24X2  | 4-1/4  | 20-1/8   | 19-3/4  | 7-3/4   | 21-7/8   | 31-3/4  | 39-1/2  | 25-3/8   | 2-11/16  | 112.65                |
| 475-903F <sup>2*</sup> | 24X3  | 3-3/8  | 21-1/4   | 20-5/8  | 8-5/8   | 23-1/2   | 32-5/8  | 41-1/4  | 25-3/8   | 3-15/16  | 121.54                |
| 475-904F <sup>2*</sup> | 24X4  | 2-7/8  | 22-1/4   | 21-1/8  | 9-1/8   | 24-1/2   | 33-1/8  | 42-1/4  | 25-3/8   | 5        | 124.92                |
| 475-906F <sup>2*</sup> | 24X6  | 1- 1/4 | 23- 3/16 | 22- 3/4 | 10- 3/4 | 26- 7/16 | 34- 3/4 | 45- 1/2 | 25- 3/8  | 7- 3/16  | 149.00                |
| 475-908F <sup>2*</sup> | 24X8  | 1/4    | 24- 5/8  | 24- 1/4 | 12- 1/4 | 28- 7/8  | 36- 1/4 | 48- 1/2 | 25- 3/8  | 9- 1/4   | 165.00                |
| 475-910F <sup>2*</sup> | 24X10 | 1- 3/8 | 25-11/16 | 25- 3/8 | 13- 3/8 | 30-15/16 | 37- 3/8 | 50- 3/4 | 25- 3/8  | 11- 1/2  | 155.87                |
| 475-912F <sup>2*</sup> | 24X12 | 3- 1/4 | 27- 5/8  | 27- 1/4 | 15- 1/4 | 33- 7/8  | 39- 1/4 | 54- 1/2 | 25- 3/8  | 13- 9/16 | 195.15                |
| 475-914F <sup>2*</sup> | 24X14 | 4      | 27- 7/8  | 28      | 16      | 34- 7/8  | 40      | 56      | 25- 3/8  | 14- 7/8  | 180.61                |
| 475-916F <sup>2*</sup> | 24X16 | 6- 3/8 | 30- 1/8  | 30- 3/8 | 18- 3/8 | 38- 1/8  | 42- 3/8 | 60- 3/4 | 25- 3/8  | 17       | 235.63                |
| 475-918F <sup>2*</sup> | 24X18 | 7- 7/8 | 31- 1/2  | 31- 7/8 | 19- 7/8 | 40- 1/2  | 43- 7/8 | 63- 3/4 | 25- 3/8  | 19- 1/8  | 224.54                |
| 475-920F <sup>2*</sup> | 24X20 | 9- 1/8 | 33       | 33- 1/8 | 21- 1/8 | 43       | 45- 1/8 | 66- 1/4 | 25- 3/8  | 21- 3/16 | 256.44                |

<sup>1</sup> Sized with Bushing

<sup>2</sup> Fiberglass reinforced.

\* Fabricated

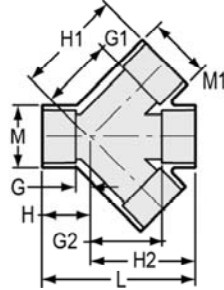
Schedule 40 Fittings Technical  
**Schedule 40 Fittings Dimensions & Information**



## Double Wye

Socket x Socket x Socket x Socket

100 psi Maximum Internal Pressure Rating @ 73°  
F (23°C)



| Part Number            | Size | G      | G1      | G2      | H        | H1      | H2      | L        | M       | M1      | Approx. Wt.<br>(Lbs.) |
|------------------------|------|--------|---------|---------|----------|---------|---------|----------|---------|---------|-----------------------|
| 476-020F <sup>2*</sup> | 2    | 3-7/8  | 5-5/8   | 6-1/4   | 5-5/16   | 7       | 7-11/16 | 12-15/16 | 2-3/4   | 2-3/4   | 3.52                  |
| 476-030F <sup>2*</sup> | 3    | 4-7/8  | 8-3/8   | 8-3/8   | 6-3/4    | 10-1/4  | 10-1/4  | 17       | 4       | 4       | 8.92                  |
| 476-040F <sup>2*</sup> | 4    | 4-5/8  | 9-1/8   | 9-1/8   | 6-7/8    | 11-3/8  | 11-3/8  | 18-1/4   | 5       | 5       | 9.69                  |
| 476-060F <sup>2*</sup> | 6    | 4-7/8  | 11-1/2  | 11-1/2  | 8-1/8    | 14-3/4  | 14-3/4  | 22-7/8   | 7-3/16  | 7-3/16  | 22.11                 |
| 476-080F <sup>2*</sup> | 8    | 5-5/8  | 14-5/16 | 14-5/16 | 9-7/8    | 18-9/16 | 18-9/16 | 28-7/16  | 9-1/4   | 9-1/4   | 36.46                 |
| 476-100F <sup>2*</sup> | 10   | 6-9/16 | 17-1/4  | 17-1/4  | 11-13/16 | 22-1/2  | 22-1/2  | 34-5/16  | 11-1/2  | 11-1/2  | 57.97                 |
| 476-120F <sup>2*</sup> | 12   | 7-5/16 | 20-1/16 | 20-1/16 | 13-9/16  | 26-5/16 | 26-5/16 | 39-7/8   | 13-9/16 | 13-9/16 | 85.55                 |
| 476-140F <sup>2*</sup> | 14   | 7-3/16 | 21-3/16 | 21-3/16 | 14-3/16  | 28-3/16 | 28-3/16 | 42-3/8   | 14-7/8  | 14-7/8  | 110.04                |

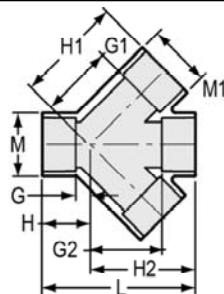
<sup>2</sup> Fiberglass reinforced.

\* Fabricated

## Double Wye - Reducing

Socket x Socket x Socket x Socket

Size 3" is 150 psi, all Fabricated Sizes- 100 psi  
Maximum Internal Pressure Rating @ 73°F (23°  
C)



| Part Number            | Size     | G       | G1       | G2       | H       | H1       | H2       | L       | M      | M1      | Approx. Wt.<br>(Lbs.) |
|------------------------|----------|---------|----------|----------|---------|----------|----------|---------|--------|---------|-----------------------|
| 476-338                | 3X2      | 3/16    | 4-1/4    | 4        | 2-1/16  | 5-3/4    | 5-7/8    | 7-15/16 | 4-3/16 | 2-7/8   | 2.27                  |
| 476-420F <sup>2*</sup> | 4X2      | 3-15/16 | 8-3/16   | 8-7/16   | 6       | 9-9/16   | 10-1/2   | 16-7/16 | 5-1/16 | 2-3/4   | 6.93                  |
| 476-421F <sup>2*</sup> | 4X2-1/2  | 1-11/16 | 7-7/16   | 6-3/16   | 3-15/16 | 9-7/16   | 8-7/16   | 12-3/8  | 5      | 3-1/4   | 8.59                  |
| 476-422F <sup>2*</sup> | 4X3      | 4-5/8   | 9-3/4    | 9-1/8    | 6-7/8   | 11-11/16 | 11-3/8   | 18-1/4  | 5      | 5-1/16  | 11.26                 |
| 476-528F <sup>2*</sup> | 6X2      | 7/8     | 8-7/16   | 7-1/2    | 4-1/8   | 10-3/16  | 10-3/4   | 14-7/8  | 7-3/16 | 2-11/16 | 8.06                  |
| 476-529F <sup>2*</sup> | 6X2-1/2  | 7/8     | 8-7/8    | 7-1/2    | 7-1/2   | 10-7/8   | 10-3/4   | 14-7/8  | 7-3/16 | 3-1/4   | 6.32                  |
| 476-530F <sup>2*</sup> | 6X3      | 1-13/16 | 9-9/16   | 8-7/16   | 5-1/16  | 11-13/16 | 11-11/16 | 16-3/4  | 7-3/16 | 3-15/16 | 10.28                 |
| 476-532F <sup>2*</sup> | 6X4      | 2-9/16  | 10-9/16  | 9-3/16   | 5-13/16 | 12-13/16 | 12-7/16  | 18-1/4  | 7-3/16 | 5       | 13.01                 |
| 476-578F <sup>2*</sup> | 8X2      | 9/16    | 9-3/4    | 9-3/16   | 4-13/16 | 11-1/2   | 13-7/16  | 18-1/4  | 9-1/4  | 2-11/16 | 12.48                 |
| 476-579F <sup>2*</sup> | 8X2-1/2  | 1       | 10-3/16  | 9-5/8    | 5-1/4   | 12-3/16  | 13-7/8   | 19-1/8  | 9-1/4  | 3-1/4   | 14.20                 |
| 476-580F <sup>2*</sup> | 8X3      | 1-5/16  | 10-7/8   | 9-15/16  | 5-9/16  | 13-1/8   | 14-3/16  | 19-3/4  | 9-1/4  | 3-15/16 | 15.79                 |
| 476-582F <sup>2*</sup> | 8X4      | 2-1/16  | 11-7/8   | 10-11/16 | 6-5/16  | 14-1/8   | 14-15/16 | 21-1/4  | 9-1/4  | 5       | 18.50                 |
| 476-585F <sup>2*</sup> | 8X6      | 3-1/2   | 12-13/16 | 12-1/8   | 7-3/4   | 16-1/16  | 16-3/8   | 24-1/8  | 9-1/4  | 7-3/16  | 24.77                 |
| 476-621F <sup>2*</sup> | 10X2     | 1/2     | 11-3/16  | 10-1/4   | 4-3/4   | 12-15/16 | 15-1/2   | 20-1/4  | 11-1/2 | 2-11/16 | 14.59                 |
| 476-622F <sup>2*</sup> | 10X2-1/2 | 1/8     | 11-5/8   | 10-5/8   | 5-1/8   | 13-5/8   | 15-7/8   | 21      | 11-1/2 | 3-1/4   | 15.13                 |
| 476-623F <sup>2*</sup> | 10X3     | 1/2     | 12-5/16  | 11-1/4   | 5-3/4   | 14-9/16  | 16-1/2   | 22-1/4  | 11-1/2 | 3-15/16 | 16.35                 |
| 476-624F <sup>2*</sup> | 10X4     | 1-7/16  | 13-5/16  | 12-3/16  | 6-11/16 | 15-9/16  | 17-7/16  | 24-1/8  | 11-1/2 | 5       | 26.45                 |
| 476-626F <sup>2*</sup> | 10X6     | 3-1/2   | 14-1/4   | 14-1/4   | 8-3/4   | 17-1/2   | 19-1/2   | 28-1/4  | 11-1/2 | 7-3/16  | 33.48                 |
| 476-628F <sup>2*</sup> | 10X8     | 5-1/8   | 15-11/16 | 15-7/8   | 10-3/8  | 19-15/16 | 21-1/8   | 31-1/2  | 11-1/2 | 9-1/4   | 42.77                 |

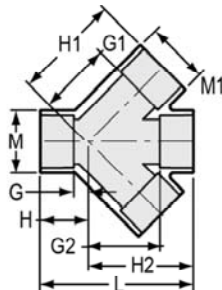


## Double Wye - Reducing

(Continued)

Socket x Socket x Socket x Socket

Size 3" is 150 psi, all Fabricated Sizes- 100 psi  
Maximum Internal Pressure Rating @ 73°F (23°  
C)



| Part Number           | Size     | G      | G1       | G2      | H       | H1       | H2      | L       | M        | M1      | Approx. Wt. (Lbs.) |
|-----------------------|----------|--------|----------|---------|---------|----------|---------|---------|----------|---------|--------------------|
| 476-661F <sup>2</sup> | 12X2     | 1- 1/8 | 12- 9/16 | 11- 5/8 | 5- 1/8  | 14- 5/16 | 17- 7/8 | 23      | 13- 9/16 | 2-11/16 | 20.67              |
| 476-662F <sup>2</sup> | 12X2 1/2 | 1-1/8  | 13       | 11-5/8  | 5-1/8   | 15       | 17-7/8  | 23      | 13-9/16  | 3-1/4   | 21.31              |
| 476-663F <sup>2</sup> | 12X3     | 3/8    | 13-11/16 | 12- 3/8 | 5- 7/8  | 15-15/16 | 18- 5/8 | 24- 1/2 | 13- 9/16 | 3-15/16 | 23.46              |
| 476-664F <sup>2</sup> | 12X4     | 3/8    | 14-11/16 | 13- 1/8 | 6- 5/8  | 16-15/16 | 19- 3/8 | 26      | 13- 9/16 | 5       | 33.25              |
| 476-666F <sup>2</sup> | 12X6     | 2- 3/8 | 15- 5/8  | 15- 1/8 | 8- 5/8  | 18- 7/8  | 21- 3/8 | 30      | 13- 9/16 | 7- 3/16 | 42.55              |
| 476-668F <sup>2</sup> | 12X8     | 3- 7/8 | 17- 1/16 | 16- 5/8 | 10- 1/8 | 21- 5/16 | 22- 7/8 | 33      | 13- 9/16 | 9- 1/4  | 54.07              |
| 476-670F <sup>2</sup> | 12X10    | 5- 3/8 | 18- 1/8  | 18- 1/8 | 11- 5/8 | 23- 3/8  | 24- 3/8 | 36      | 13- 9/16 | 11- 1/2 | 67.88              |
| 476-756F <sup>2</sup> | 16X6     | 1-7/8  | 17-13/16 | 17-7/8  | 9-7/8   | 21-1/16  | 25-7/8  | 35-3/4  | 17       | 7-3/16  | 64.27              |
| 476-786F <sup>2</sup> | 18X6     | 7/8    | 19-1/8   | 18-7/8  | 9-7/8   | 22-3/8   | 27-7/8  | 37-3/4  | 19-1/8   | 7-3/16  | 91.45              |

<sup>2</sup> Fiberglass reinforced.

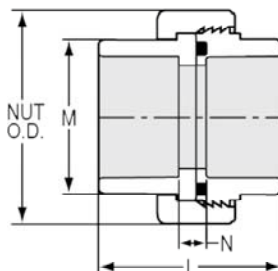
\* Fabricated

## Union - Socket/Buna

Socket x Socket with Buna-N O-ring Seal

Dimensions Also Applicable to  
497-XXX EPDM O-Ring Seals

Pressure Rating  
150 psi @ 73°F



| Part Number | Size  | L       | M       | N     | NUT O.D. | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|-------|----------|--------------------|
| 457-005     | 1/2   | 1-27/32 | 1- 3/32 | 11/32 | 1-23/32  | .08                |
| 457-007     | 3/4   | 2- 3/16 | 1- 5/16 | 11/32 | 2        | .11                |
| 457-010     | 1     | 2- 7/16 | 1- 5/8  | 11/32 | 2- 3/8   | .17                |
| 457-012     | 1-1/4 | 2-29/32 | 1-31/32 | 13/32 | 2-11/16  | .24                |
| 457-015     | 1-1/2 | 3- 1/32 | 2- 1/4  | 13/32 | 3- 3/32  | .32                |
| 457-020     | 2     | 3- 9/32 | 2-23/32 | 17/32 | 3- 5/8   | .49                |
| 457-025     | 2-1/2 | 4- 1/16 | 3-11/32 | 9/16  | 4- 3/8   | .87                |
| 457-030     | 3     | 4-11/32 | 4       | 19/32 | 5- 3/32  | 1.27               |
| 457-040     | 4     | 4-21/32 | 5- 1/32 | 5/8   | 6- 3/16  | 1.78               |
| 457-060     | 6     | 6-27/32 | 7- 9/32 | 13/16 | 8- 7/8   | 5.45               |

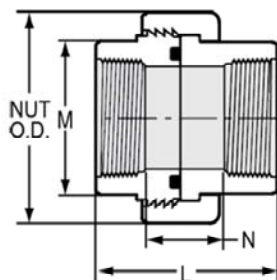
Schedule 40 Fittings Technical  
**Schedule 40 Unions Dimensions & Information**



### Union - Fipt/Buna

Fipt x Fipt with Buna O-ring Seal

Dimensions Also Applicable to  
 498-XXX EPDM O-Ring Seals



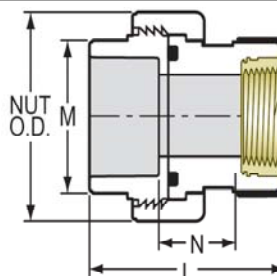
Pressure Rating  
 150 psi @ 73°F

| Part Number | Size  | L       | M       | N     | NUT O.D. | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|-------|----------|--------------------|
| 458-005     | 1/2   | 1-25/32 | 1- 3/32 | 5/16  | 1-23/32  | .08                |
| 458-007     | 3/4   | 1-25/32 | 1- 5/16 | 11/32 | 2        | .11                |
| 458-010     | 1     | 2- 1/8  | 1- 5/8  | 11/32 | 2- 3/8   | .18                |
| 458-012     | 1-1/4 | 2- 1/4  | 1-31/32 | 13/32 | 2-11/16  | .23                |
| 458-015     | 1-1/2 | 2-5/16  | 2- 1/4  | 13/32 | 3- 3/32  | .31                |
| 458-020     | 2     | 2- 1/2  | 2-3/4   | 17/32 | 3- 5/8   | .47                |
| 458-025     | 2-1/2 | 3- 5/32 | 3-11/32 | 9/16  | 4- 3/8   | .88                |
| 458-030     | 3     | 3-13/32 | 4       | 19/32 | 5- 3/32  | 1.25               |
| 458-040     | 4     | 3-17/32 | 5- 1/32 | 9/16  | 6- 3/16  | 1.75               |
| 458-060     | 6     | 6-3/16  | 6-21/32 | 2-7/8 | 11-5/8   | 5.14               |

### Union - Brass Fipt/Buna

Socket x Fipt with Brass Thread Insert & Buna-N O-ring Seal

Dimensions Also Applicable to  
 499-XXXBR EPDM O-Ring Seals



Pressure Rating  
 235 psi @ 73°F

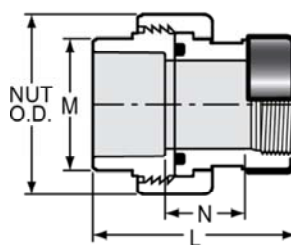
| Part Number | Size  | L       | M       | N       | NUT O.D. | Approx. Wt. (Lbs.) |
|-------------|-------|---------|---------|---------|----------|--------------------|
| 459-010BR   | 1     | 2-13/16 | 1- 7/8  | 1- 1/32 | 2- 7/8   | .52                |
| 459-012BR   | 1-1/4 | 3-5/16  | 2-1/4   | 1-5/16  | 3- 5/16  | .68                |
| 459-015BR   | 1-1/2 | 3-9/16  | 2- 9/16 | 1-13/32 | 3-9/16   | .91                |
| 459-020BR   | 2     | 3-19/32 | 2- 7/8  | 1-5/16  | 4- 5/16  | 1.54               |

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

### Union - Special Reinforced Fipt/Buna

Socket x SR Fipt with Buna O-ring Seal - Stainless Steel Collar

Dimensions Also Applicable to  
 499-XXXSR EPDM O-Ring Seals



Pressure Rating  
 235 psi @ 73°F

| Part Number | Size | L       | M       | N     | NUT O.D. | Approx. Wt. (Lbs.) |
|-------------|------|---------|---------|-------|----------|--------------------|
| 459-002SR   | 1/4  | 2- 1/8  | 15/16   | 1-7/8 | 1-21/32  | .09                |
| 459-003SR   | 3/8  | 2- 5/16 | 1-1/16  | 15/16 | 1-25/32  | .06                |
| 459-005SR   | 1/2  | 2- 9/32 | 1- 9/32 | 21/32 | 1-31/32  | .16                |

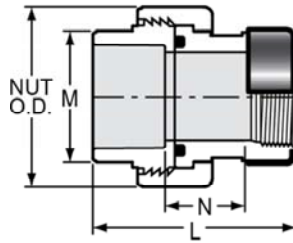


Schedule 40 Fittings Technical  
**Schedule 40 Unions Dimensions & Information**

**Union - Special Reinforced  
Fipt/Buna**

Socket x SR Fipt with Buna O-ring Seal - Stainless Steel  
Collar

Dimensions Also Applicable to  
499-XXXSR EPDM O-Ring Seals



(Continued)

Pressure Rating  
235 psi @ 73°F

| Part Number | Size  | L       | M       | N       | NUT O.D. | Approx. Wt.<br>(Lbs.) |
|-------------|-------|---------|---------|---------|----------|-----------------------|
| 459-007SR   | 3/4   | 2-19/32 | 1-17/32 | 25/32   | 2- 1/2   | .27                   |
| 459-010SR   | 1     | 2-15/16 | 1-29/32 | 29/32   | 2- 7/8   | .39                   |
| 459-012SR   | 1-1/4 | 3- 7/32 | 2-7/32  | 31/32   | 3- 5/16  | .54                   |
| 459-015SR   | 1-1/2 | 3- 7/16 | 2- 9/16 | 1-3/32  | 3-7/16   | .67                   |
| 459-020SR   | 2     | 4-3/32  | 3-1/16  | 1-19/32 | 4-3/16   | 1.11                  |
| 459-030SR   | 3     | 5-1/4   | 4-13/32 | 2       | 5-3/4    | 2.61                  |
| 459-040SR   | 4     | 5-15/16 | 5-13/32 | 2-7/32  | 7-1/8    | 4.02                  |

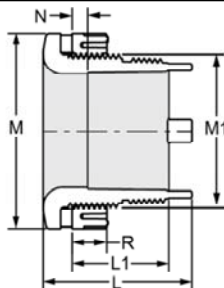


**Schedule 40 Fittings Technical**  
**Schedule 40 Tank Adapters Dimensions & Information**



**Tank Adapters with EPDM Gasket, Schedule 40**

Socket(Male Pipe Thread)  
 150 psi Maximum Internal Pressure Rating @ 73° F (23°C)



| Part Number | Size               | L       | L1      | M        | M1       | N     | R    | Outlet Socket | Outlet Thread MIPT | Approx. Wt. (Lbs.) |
|-------------|--------------------|---------|---------|----------|----------|-------|------|---------------|--------------------|--------------------|
| 4170E-005   | 1/2 Soc(1 MPT)     | 2- 5/16 | 1- 1/2  | 2- 3/16  | 1- 7/16  | 3/4   | 9/16 | 1/2           | 1                  | .16                |
| 4170E-007   | 3/4 Soc(1-1/4 MPT) | 2- 3/8  | 1- 1/2  | 2- 1/2   | 1- 13/16 | 9/16  | 9/16 | 3/4           | 1-1/4              | .24                |
| 4170E-010   | 1 Soc(1-1/2 MPT)   | 2- 3/8  | 1- 1/2  | 2- 3/4   | 2- 1/16  | 1/2   | 9/16 | 1             | 1-1/2              | .28                |
| 4170E-012   | 1-1/4 Soc(2 MPT)   | 2- 3/8  | 1- 9/16 | 3- 3/16  | 2- 1/2   | 5/16  | 9/16 | 1-1/4         | 2                  | .40                |
| 4170E-015   | 1-1/2 Soc(2 MPT)   | 2- 3/8  | 1- 9/16 | 3- 3/16  | 2- 1/2   | 1/4   | 9/16 | 1-1/2         | 2                  | .35                |
| 4170E-020   | 2 Soc(2-1/2 MPT)   | 3- 1/4  | 2- 3/8  | 3- 13/16 | 3- 1/16  | 1     | 5/8  | 2             | 2-1/2              | .58                |
| 4170E-025   | 2-1/2 Soc(3 MPT)   | 3- 1/2  | 2- 9/16 | 4- 1/2   | 3- 11/16 | 13/16 | 5/8  | 2-1/2         | 3                  | .87                |

Note: These tank adapters have both Socket and size larger Male Pipe Thread connection on external end. Adapter Nut has left hand thread to prevent loosening when installing threaded connection. End lugs allow holding body when tightening Adapter Nut.

**Tank Adapter Hole Size Requirements**

| Tank Adapter Size | Recommended Minimum Hole Size | Minimum Inside Curvature Radius (inches) | Maximum Tank Wall Thickness (inches) |
|-------------------|-------------------------------|------------------------------------------|--------------------------------------|
| 1/2               | 1-1/2                         | 5.50                                     | .44                                  |
| 3/4               | 1-7/8                         | 7.50                                     | .44                                  |
| 1                 | 2-1/8                         | 9.00                                     | .44                                  |
| 1-1/4             | 2-1/2                         | 12.00                                    | .44                                  |
| 1-1/2             | 2-1/2                         | 12.00                                    | .44                                  |
| 2                 | 3-1/8                         | 17.50                                    | .75                                  |
| 2-1/2             | 3-3/4                         | 24.50                                    | .88                                  |

