



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 36"

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.

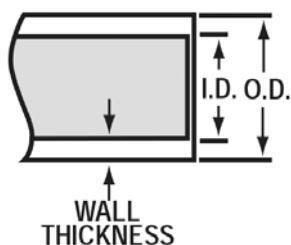
Threaded Connections - Use a quality grade thread sealant. **WARNING: SOME PIPE JOINT COMPOUNDS OR PTFE PASTES MAY CONTAIN SUBSTANCES THAT COULD CAUSE STRESS CRACKING TO PLASTIC.** Spears® Manufacturing Company recommends the use of Spears® **BLUE 75™** Thread Sealant which has been tested for compatibility 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 $\leq 0.25\%$.



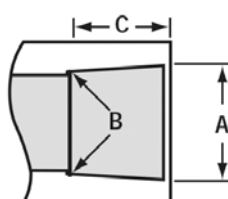
ASTM STANDARD DIMENSIONS

**SCHEDULE 40 PIPE DIMENSIONS
 ASTM D 1785**



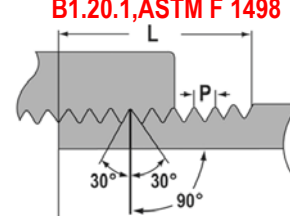
Nominal Pipe Size In.	Mean Outside Diameter In.	O. D. Tolerance In.	Minimum Wall Thickness In.
1/8	.405	± .004	.068
1/4	.540	± .004	.088
3/8	.675	± .004	.091
1/2	.840	± .004	.109
3/4	1.050	± .004	.113
1	1.315	± .005	.133
1-1/4	1.660	± .005	.140
1-1/2	1.900	± .006	.145
2	2.375	± .006	.154
2-1/2	2.875	± .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
1-1/2	1.912	1.894	± .006	1.094
2	2.387	2.369	± .006	1.156
2-1/2	2.889	2.868	± .007	1.750
3	3.516	3.492	± .008	1.875
4	4.518	4.491	± .009	2.000
5	5.583	5.553	± .010	3.000
6	6.647	6.614	± .011	3.000
8	8.655	8.610	± .015	4.000
10	10.780	10.735	± .015	5.000
12	12.780	12.735	± .015	6.000

**AMERICAN NATIONAL STANDARD
 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
1/8	27	.2639	.03704
1/4	18	.4018	.05556
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.

Fabricated Schedule 40 pressure fittings (part numbers ending with "F") are manufactured to Spears® specifications for use with pipe manufactured to ASTM D 1785. See publication FAB-7, General Specifications for Standard Fabricated Fittings' for additional information.

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



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 36"

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 $\leq 0.25\%$.

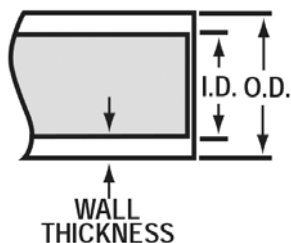




Schedule 40 Fittings Technical Schedule 40 Product Overview

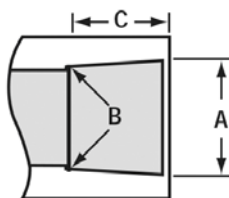
ASTM STANDARD DIMENSIONS

**SCHEDULE 40 PIPE DIMENSIONS
ASTM D 1785**



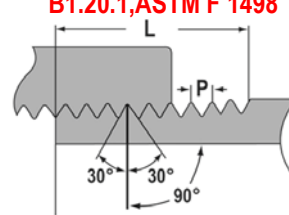
Nominal Pipe Size In.	Mean Outside Diameter In.	O. D. Tolerance In.	Minimum Wall Thickness In.
1/8	.405	± .004	.068
1/4	.540	± .004	.088
3/8	.675	± .004	.091
1/2	.840	± .004	.109
3/4	1.050	± .004	.113
1	1.315	± .005	.133
1-1/4	1.660	± .005	.140
1-1/2	1.900	± .006	.145
2	2.375	± .006	.154
2-1/2	2.875	± .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
1-1/2	1.912	1.894	± .006	1.094
2	2.387	2.369	± .006	1.156
2-1/2	2.889	2.868	± .007	1.750
3	3.516	3.492	± .008	1.875
4	4.518	4.491	± .009	2.000
5	5.583	5.553	± .010	3.000
6	6.647	6.614	± .011	3.000
8	8.655	8.610	± .015	4.000
10	10.780	10.735	± .015	5.000
12	12.780	12.735	± .015	6.000

**AMERICAN NATIONAL STANDARD
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
1/8	27	.2639	.03704
1/4	18	.4018	.05556
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.

Fabricated Schedule 40 pressure fittings (part numbers ending with "F") are manufactured to Spears® specifications for use with pipe manufactured to ASTM D 1785. See publication FAB-7, General Specifications for Standard Fabricated Fittings' for additional information.

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

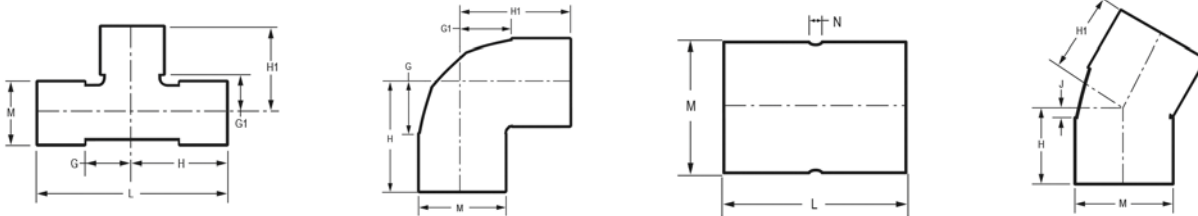
- L** = Overall length of fittings; $\pm 1/16$ inch.
M = Outside diameter of socket/thread hub; $\pm 1/16$ inch.
N = Socket bottom to socket bottom; couplings; $\pm 1/16$ inch.
W = Height of cap; $\pm 1/16$ inch.

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.

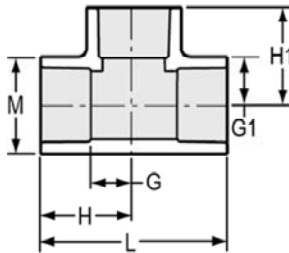
- L** = Overall length of fittings; $\pm 1/2$ inch.; wyes ± 1 inch; 14" & larger ± 1 inch.
M = Outside diameter of socket/thread hub; $\pm 1/4$ inch.
N = Socket bottom to socket bottom; couplings; $\pm 1/2$ inch.
W = Height of cap; $\pm 1/4$ inch.

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	31/32	.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	3-11/32	.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	2-13/32	2-13/32	4- 7/16	4- 7/16	8- 7/8	5- 1/32	2.34
401-050	5	3	3	6	6	12	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- 3/8	11.57
401-100	10	5-13/16	5-13/16	10-27/32	10-27/32	21-11/16	11-21/32	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	6-27/32	6-27/32	12-27/32	12-27/32	25-11/16	13- 3/4	37.29

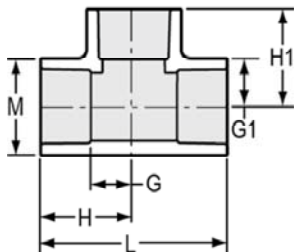


Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

Tee

Socket x Socket x Socket

(Continued)

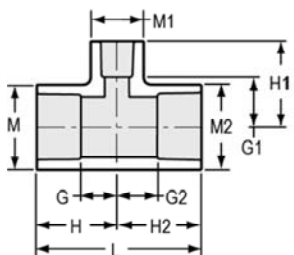


Part Number	Size	G	G1	H	H1	L	M	Approx. Wt. (Lbs.)
401-120F*	12	10- 3/4	10- 3/16	17	16- 7/16	34	13- 9/16	56.36
401-140	14	7- 1/32	7- 1/32	14- 7/32	14- 1/32	28- 7/16	15-21/32	61.75
401-140F*	14	11- 3/8	11	18- 3/8	18	36- 3/4	14- 7/8	73.73
401-160F*	16	15	12- 7/8	23	20- 7/8	46	17	106.38
401-180F*	18	15- 7/8	13- 3/8	24- 7/8	22- 3/8	49- 3/4	19- 1/8	154.39
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	3/8X1/2	17/32	21/32	17/32	2- 1/32	1- 3/4	2- 1/32	4- 1/16	7/8	1- 3/32	7/8	.08
401-074	1/2X3/4	9/16	9/16	9/16	1- 5/16	1- 9/16	1- 5/16	2- 5/8	1-3/32	1-5/16	1-3/32	.07
401-075	1/2X1	25/32	9/16	25/32	1-17/32	1-11/16	1-17/32	3- 1/16	1- 1/16	1- 5/8	1- 1/16	.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	5/8	5/8	1-13/16	1-15/32	1- 3/8	3- 3/16	1- 5/16	1- 5/16	1- 1/16	.10
401-101	3/4X1/2	1/2	5/8	1/2	1- 7/16	1- 3/8	1- 7/16	2-7/8	1- 5/16	1- 1/8	1- 5/16	.08
D401-101	3/4X1/2	9/16	19/32	17/32	1-17/32	1-27/32	1-17/32	3- 1/16	1- 5/16	1- 3/32	1- 5/16	.10
401-102	3/4X1	23/32	5/8	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	23/32	23/32	27/32	1-25/32	1-25/32	1-19/32	3- 7/16	1- 5/8	1- 5/8	1- 3/32	.15
401-124	1X3/4X1/2	5/8	23/32	19/32	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	23/32	13/16	23/32	1-25/32	1-13/16	1-21/32	3- 7/16	1-19/32	1- 5/16	1- 5/16	.15
401-126	1X3/4X1	3/4	13/16	13/16	1-29/32	1-15/16	1-13/16	3- 3/4	1- 5/8	1- 5/8	1- 5/16	.16
401-130	1X1/2	1/2	3/4	1/2	1-19/32	1-17/32	1-19/32	3- 3/16	1- 5/8	1- 1/8	1- 5/8	.12
D401-130	1X1/2	11/16	25/32	11/16	1-23/32	2- 1/32	1-23/32	3-15/32	1- 5/8	1- 1/8	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	31/32	27/32	31/32	2- 3/32	2- 3/32	2- 3/32	4- 3/16	1- 5/8	1-31/32	1- 5/8	.21
401-133	1X1-1/2	1- 1/8	13/16	1- 1/8	2- 1/4	2-3/32	2- 1/4	4- 15/32	1- 5/8	2- 1/4	1- 5/8	.25
401-134	1X2	1- 7/16	27/32	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	1-23/32	3-21/32	2	1- 1/8	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	31/32	1- 1/16	7/8	2- 5/32	2- 3/32	1-29/32	4- 1/16	2	1-11/16	1- 5/8	.22
401-166	1-1/4X1/2	1/2	31/32	1/2	1-25/32	1-3/4	1-25/32	3- 9/16	1-31/32	1- 3/32	1-31/32	.18

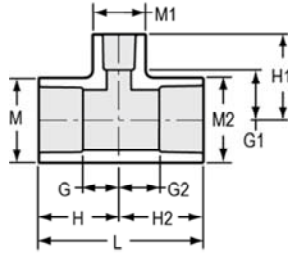
Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



Tee - Reducing

Socket x Socket x Socket

(Continued)



Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	M2	Approx. Wt. (Lbs.)
D401-166	1-1/4X1/2	23/32	31/32	23/32	1-31/32	2- 3/16	1-31/32	3-29/32	2	1- 1/8	2	.21
401-167	1-1/4X3/4	21/32	31/32	21/32	1-29/32	1-31/32	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	3-27/32	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	1-31/32	2- 7/32	1-31/32	.30
401-170	1-1/4X2	1-11/32	1	1-11/32	2-19/32	2- 3/8	2-19/32	5- 3/16	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- 1/8	2	.21
401-201	1-1/2X1-1/4X3/4	21/32	1- 5/32	21/32	1-15/16	2- 3/16	1-15/16	3- 7/8	2- 1/4	1-11/32	2	.25
401-202	1-1/2X1-1/4X1	13/16	1- 3/16	13/16	2- 1/8	2- 9/32	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- 7/32	1- 1/8	2- 7/32	.22
D401-209	1-1/2X1/2	17/32	1- 1/16	17/32	1-27/32	2- 5/16	1-27/32	3-11/16	2- 7/32	1- 1/16	2- 7/32	.22
401-210	1-1/2X3/4	21/32	1- 3/32	21/32	1-31/32	2- 3/32	1-31/32	3-29/32	2- 7/32	1- 5/16	2- 7/32	.24
401-211	1-1/2X1	25/32	27/32	25/32	2- 3/32	1-31/32	2- 3/32	4- 3/16	2- 7/32	1- 5/8	2- 7/32	.27
401-212	1-1/2X1-1/4	1	1- 3/16	1	2- 9/32	2- 7/16	2- 9/32	4-19/32	2- 1/4	2	2- 1/4	.31
401-213	1-1/2X2	1- 5/16	1- 3/16	1- 5/16	2- 5/8	2- 9/16	2- 5/8	5- 7/32	2- 1/4	2- 3/4	2- 1/4	.39
401-214	1-1/2X2-1/2	1-21/32	1- 3/16	1-21/32	2-31/32	2-15/16	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- 7/32	2-19/32	2-19/32	2-11/32	5	2- 3/4	2- 3/4	1- 5/8	.40
401-238	2X1-1/2X3/4	21/32	1-13/32	21/32	2- 1/32	2-13/32	1-31/32	4	2-23/32	1- 5/16	2- 1/4	.31
401-239	2X1-1/2X1	13/16	1- 1/2	13/16	2- 1/8	2- 5/8	2- 1/8	4- 9/32	2- 3/4	1- 5/8	2- 1/4	.36
401-241	2X1-1/2X1-1/2	1	1- 9/32	1- 1/32	2- 3/8	2- 9/16	2- 5/16	4-11/16	2-23/32	2- 7/32	2- 7/32	.37
401-247	2X1/2	35/64	1-11/32	35/64	1-59/64	2- 3/32	1-59/64	3-27/32	2-23/32	1- 3/32	2-23/32	.32
D401-247	2X1/2	9/16	1- 7/32	9/16	1-15/16	2- 1/2	1-15/16	3- 7/8	2-23/32	1- 1/16	2-23/32	.30
401-248	2X3/4	21/32	1- 1/2	21/32	2- 1/32	2- 1/16	2- 1/32	4- 1/16	2- 3/4	1-11/32	2- 3/4	.32
401-249	2X1	13/16	1- 3/8	13/16	2- 3/16	2- 1/2	2- 3/16	4- 3/8	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	4-23/32	2-23/32	1-31/32	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	2-23/32	2- 1/4	2-23/32	.42
401-253 ¹	2X3	2- 7/8	1-13/16	2- 7/8	4- 1/4	3-13/16	4- 1/4	8- 1/2	4	4	3-15/16	2.38
401-254 ¹	2X4	3-13/32	2- 3/8	3-13/32	4-25/32	4- 3/8	4-25/32	9- 9/16	5- 1/16	5- 1/16	5- 1/16	4.06
401-257	2X1-1/2X2	1-3/8	1-3/8	1-3/8	2-3/4	2-3/4	2-3/4	5-7/16	2-3/4	2-3/4	2-1/4	.47
401-287	2-1/2X1/2	25/32	1-15/32	25/32	2-17/32	2- 7/32	2-17/32	5- 1/16	3- 5/16	1- 1/16	3- 5/16	.56
401-288	2-1/2X3/4	7/8	1- 9/16	7/8	2- 5/8	2- 1/2	2- 5/8	5- 9/32	3- 5/16	1- 5/16	3- 5/16	.59
401-289	2-1/2X1	13/16	1-17/32	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	5-31/32	3-11/32	2- 1/32	3-11/32	.74
401-291	2-1/2X1-1/2	1- 3/16	1- 5/8	1- 3/16	2-31/32	2-15/16	2-31/32	5-15/16	3-11/32	2- 1/4	3-11/32	.69
401-292	2-1/2X2	1-13/32	1-21/32	1-13/32	3- 3/16	3- 1/32	3- 3/16	6- 3/8	3- 5/16	2- 3/4	3- 5/16	.76
401-293 ¹	2-1/2X3	2- 1/4	1-31/32	2- 1/4	4- 1/4	3-13/16	4- 1/4	8-15/32	4	4	4	2.19
401-294 ¹	2-1/2X4	2- 3/4	2- 3/8	2- 3/4	4- 3/4	4- 3/8	4- 3/4	9- 1/2	5- 1/16	5	5- 1/16	3.85
401-333	3X1/2	11/16	1-13/16	11/16	2- 9/16	2-17/32	2- 9/16	5- 1/32	3-31/32	1- 3/32	3-31/32	.70
401-334	3X3/4	3/4	2	3/4	2-21/32	3	2-21/32	5- 9/32	4	1-11/32	4	.84
401-335	3X1	29/32	1-25/32	29/32	2-51/64	2-29/32	2-51/64	5-19/32	3-31/32	1-19/32	3-31/32	.83
401-336	3X1-1/4	1- 7/32	1-31/32	1- 7/32	2-31/32	3- 7/32	2-31/32	5-15/16	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	4- 1/16	2- 7/32	4- 1/16	.98
401-338	3X2	1- 7/16	1-13/16	1- 7/16	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	3-11/16	3- 5/8	7- 1/4	4- 3/16	3-17/32	4- 3/16	1.91
401-342	3X4	2-19/32	2	2-19/32	4- 1/2	4- 1/32	4- 1/2	8-31/32	3-31/32	5- 1/32	3-31/32	1.78

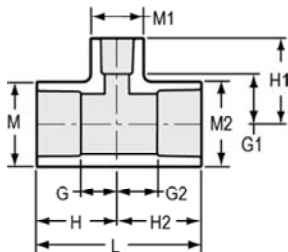


Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

Tee - Reducing

Socket x Socket x Socket

(Continued)



Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	M2	Approx. Wt. (Lbs.)
401-344 ¹	3X6	5- 1/2	4	5- 1/2	7- 1/2	7	7- 1/2	15	7- 1/4	7- 1/4	7- 1/4	10.33
401-416	4X3/4	25/32	2- 9/32	25/32	2-13/16	3- 9/32	2-13/16	5- 5/8	5- 3/32	1- 5/16	5- 3/32	1.01
401-417	4X1	13/16	2- 9/16	13/16	2-13/16	3- 5/8	2-13/16	5-19/32	5- 1/32	1-19/32	5- 1/32	1.20
401-418	4X1-1/4	1- 1/16	2- 9/32	1- 1/16	3- 3/32	3-17/32	3- 3/32	6- 3/16	5	1-31/32	5	1.31
401-419	4X1-1/2	1- 3/16	2-17/32	1- 3/16	3- 3/16	3-27/32	3- 3/16	6-13/32	5- 1/16	2- 1/4	5- 1/16	1.34
401-420	4X2	1-13/32	2- 3/4	1-13/32	3- 7/16	4- 5/32	3- 7/16	6- 7/8	5- 1/32	2- 3/4	5- 1/32	1.55
401-421 ¹	4X2-1/2	1-31/32	3- 3/32	1-31/32	4- 3/32	4-27/32	4- 3/32	8- 5/32	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 ¹	4X6	5- 1/2	3- 1/2	5- 1/2	7- 1/2	7	7- 1/2	14-15/16	6- 7/8	7- 1/2	6- 7/8	10.08
401-428 ¹	4X8	6- 3/4	4- 1/2	6- 3/4	8- 3/4	8- 1/2	8- 3/4	17- 1/2	9- 1/4	9- 5/8	9- 5/8	20.10
401-486 ¹	5X2	1-11/32	3- 1/32	1-11/32	4-11/32	4-13/32	4-11/32	8-23/32	6- 1/8	2-23/32	6- 1/8	2.43
401-487 ¹	5X2-1/2	2	3- 5/8	2	5- 1/32	5- 3/8	5- 1/32	10- 1/16	6- 5/32	4- 1/32	6- 5/32	3.48
401-488	5X3	2	3- 3/16	2	5- 1/32	5- 1/16	5- 1/32	10- 1/16	6- 5/32	4- 1/32	6- 5/32	3.10
401-490	5X4	2- 1/2	3- 5/32	2- 1/2	5- 9/16	5- 3/16	5- 9/16	11- 1/8	6- 5/32	5- 1/32	6- 5/32	3.59
401-526 ¹	6X1-1/4	1- 3/8	4- 1/16	1- 3/8	4-27/32	5- 5/16	4-27/32	9-11/16	7- 1/4	2- 3/4	7- 1/4	3.45
401-527 ¹	6X1-1/2	1- 3/8	3- 7/8	1- 3/8	4-27/32	5- 3/16	4-27/32	9-11/16	7- 1/4	2-11/16	7- 1/4	3.52
401-528	6X2	1-13/32	3- 5/8	1-13/32	4-13/32	4-31/32	4-13/32	8-27/32	7- 1/4	2- 3/4	7- 1/4	3.39
401-529 ¹	6X2-1/2	1-31/32	4- 1/8	1-31/32	4-31/32	5- 7/8	4-31/32	9-15/16	7- 1/4	4- 1/32	7- 1/4	4.25
401-530	6X3	1-31/32	3- 5/8	1-31/32	4-31/32	5- 1/2	4-31/32	10	7- 1/4	4	7- 1/4	3.88
401-532	6X4	2-17/32	3- 5/8	2-17/32	5- 9/16	5- 5/8	5- 9/16	11- 1/8	7-1/4	5	7-1/4	4.40
401-533 ¹	6X5	3- 1/2	4- 1/2	3- 1/2	7	7- 1/2	7	14	7- 3/16	7- 3/16	7- 3/8	7.84
401-535 ¹	6X8	5-29/32	4-15/32	5-29/32	8-15/16	8-1/2	8-15/16	17-7/8	9-5/8	9-13/32	9-5/8	19.55
401-537 ¹	6X10	8	5-13/16	8	11- 3/8	10-13/16	11- 3/8	22- 3/4	11- 1/2	11- 9/16	11- 1/2	37.53
401-578 ¹	8X2	2	5- 7/8	2	6	7	6	12	9- 1/4	4	9- 1/4	6.74
401-579 ¹	8X2-1/2	2	5- 5/16	2	6	7- 5/16	6	12	9- 5/16	4	9- 5/16	6.65
401-580	8X3	1-31/32	4-21/32	1-31/32	6- 1/32	6-5/8	6- 1/32	12- 1/16	9-11/32	4	9-11/32	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 ¹	8X5	3-21/32	5- 1/4	3-21/32	7-21/32	8- 1/4	7-21/32	15- 5/16	9- 5/16	7- 1/4	9- 5/16	10.61
401-585	8X6	3- 5/8	4- 3/4	3- 5/8	7-21/32	7-25/32	7-21/32	15-11/32	9-11/32	7- 1/4	9-11/32	8.66
401-589 ¹	8X10	6-23/32	5-11/16	6-23/32	11- 7/32	10- 1/2	11- 7/32	22- 7/16	11- 9/16	11- 9/16	11- 9/16	38.39
401-621F ⁺	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 ⁺	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 ¹	10X3	3-13/16	7	3-13/16	9- 3/8	9	9- 3/8	18- 3/4	12	7- 1/2	12	26.22
401-624 ¹	10X4	3-27/32	7- 3/8	3-27/32	9-11/32	9- 3/8	9-11/32	18-11/16	12	7- 1/2	12	26.10
401-625F ⁺	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	5-27/32	3-25/32	9-3/8	8-7/8	9-3/8	18-25/32	12-1/16	7-9/16		24.00
401-626F ⁺	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 ¹	10X8	5- 3/4	7- 3/16	5- 3/4	10- 7/8	11- 1/4	10- 7/8	21-11/16	11-11/16	11-11/16	11- 1/2	31.98
401-628F ⁺	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 ⁺	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	119.31
401-636F ⁺	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

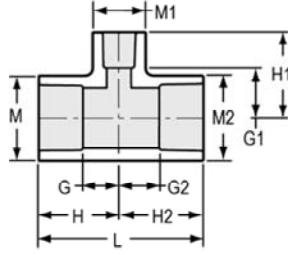
Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



Tee - Reducing

Socket x Socket x Socket

(Continued)



Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	M2	Approx. Wt. (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 ¹	12X6	4- 7/8	8- 5/16	4- 7/8	11- 7/16	11- 3/4	11- 7/16	22-13/16	14- 1/4	9- 3/4	14- 1/4	45.29
401-668	12X8	4- 7/8	7- 1/2	4- 7/8	11-15/32	11- 7/16	11-15/32	22-29/32	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 ¹	12X10	6-13/16	8-1/2	6-13/16	12-7/8	13- 1/2	12-7/8	25- 5/8	13- 3/4	13- 3/4	13- 3/4	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	257.51
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
401-700F ⁺	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	14-11/32	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	201.79
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
401-792F ⁺	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

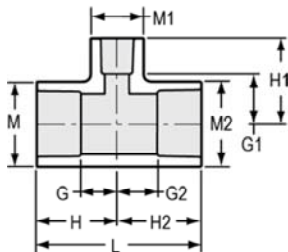


Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

Tee - Reducing

Socket x Socket x Socket

(Continued)



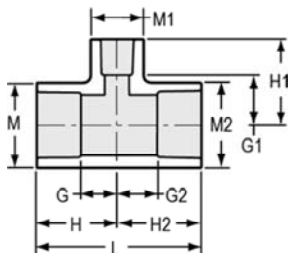
Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	M2	Approx. Wt. (Lbs.)
401-794F [*]	18X14	12- 7/8	12- 7/8	12- 7/8	21- 7/8	19- 7/8	21- 7/8	43- 3/4	19- 1/8	14- 7/8	19- 1/8	91.37
401-796F [*]	18X16	13- 7/8	13-13/16	13- 7/8	22- 7/8	21-13/16	22- 7/8	45- 3/4	19- 1/8	17	19- 1/8	134.40
401-811F [*]	20X2	6- 3/4	12- 7/16	6- 3/4	16- 3/4	14- 3/16	16- 3/4	33- 1/2	21- 3/16	2-11/16	21- 3/16	90.98
401-813F [*]	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	95.43
401-814F [*]	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 [*]	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 [*]	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 [*]	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	131.22
401-822F [*]	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 [*]	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 [*]	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 [*]	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 [*]	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 [*]	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 [*]	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 [*]	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 [*]	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 [*]	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 [*]	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 [*]	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 [*]	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 [*]	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 [*]	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

¹ Outlet sized with Bushing

* Fabricated

Short Socket Tees

Socket Style Sch 40



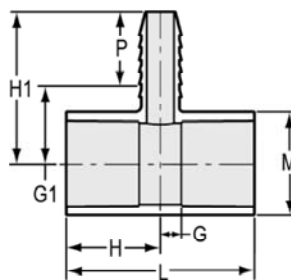
Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	M2	Approx. Wt. (Lbs.)
S401-249	2X2X1	11/16	2- 7/32	11/16	2- 3/32	1- 1/4	1-11/32	3- 7/16	2-23/32	1- 5/8	2-23/32	.27
S401-251	2x2x1-1/2	1	1- 1/4	31/32	2- 3/8	2- 3/8	1- 5/8	4	2-23/32	2- 7/32	2-23/32	.33

Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



Transition Tee for P.E. Hose Laterals

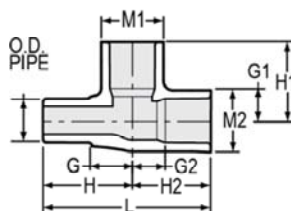
Socket x Insert (.580 I.D.)



Part Number	Size	G	G1	H	H1	L	M	P	Approx. Wt. (Lbs.)
1102-007	3/4	13/32	3/4	1-13/32	2- 1/4	2-13/16	1- 5/16	1- 1/2	.08
1102-130	1X1/2	3/16	13/16	1- 7/16	2- 5/16	2- 7/8	1-19/32	1- 1/2	.11
1102-248	2X2X3/4	1/2	1- 7/160	1-27/32	2-15/16	3-11/160	2-23/32	1- 1/2	.28
1102-250	2X1-1/4	11/16	1-15/32	2- 1/16	2-31/32	4- 1/8	2- 3/4	1- 1/2	.33

Tee - Street

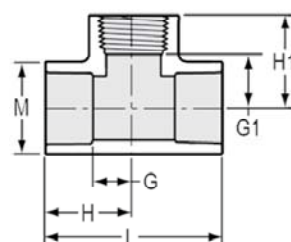
Spigot x Socket x Socket



Part Number	Size	G	G1	G2	H	H1	H2	L	M1	M2	Approx. Wt. (Lbs.)
444-005	1/2	23/32	23/32	1/2	1-19/32	1-21/32	1-19/32	3- 5/32	1- 3/16	1- 3/16	.10
444-007	3/4	13/16	27/32	7/8	1-13/16	1- 7/8	1-13/16	3- 5/8	1-13/32	1-13/32	.15
444-010	1	1	1-31/32	1-31/32	2- 1/8	2	2- 1/8	4- 7/32	1- 3/4	1- 3/4	.25
444-012	1-1/4	1- 1/4	1- 5/32	1- 1/8	2- 7/16	2- 5/16	2- 7/16	4-27/32	2- 3/32	2- 3/32	.38
444-015	1-1/2	1-13/16	1- 1/8	1- 1/8	2- 7/8	2- 9/16	2- 9/16	5- 3/8	2-11/32	2-11/32	.51
444-020	2	1-19/32	1-11/16	1-19/32	3- 3/32	3- 3/16	3- 3/32	6- 5/32	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.)
402-003	3/8	7/16	1/2	1-11/16	1- 1/16	3- 3/8	29/32	.06
402-005	1/2	1/2	1/2	1- 1/4	1- 7/32	2- 1/2	1- 3/32	.06
402-007	3/4	21/32	23/32	1-21/32	1- 7/16	3- 9/32	1- 5/16	.10
402-010	1	13/16	7/8	1-15/16	1- 7/8	3- 7/8	1- 5/8	.16
402-012	1-1/4	29/32	1- 1/8	2- 5/32	2- 1/16	4- 5/16	2	.29
402-015	1-1/2	1- 1/32	1- 1/8	2-11/32	2- 1/16	4-11/16	2- 1/4	.34
402-020	2	1- 5/16	1-15/32	2- 5/8	2-13/32	5- 7/32	2- 3/4	.49
402-025	2-1/2	1- 1/2	1-11/16	3- 1/4	2-31/32	6- 1/2	3- 3/8	.95

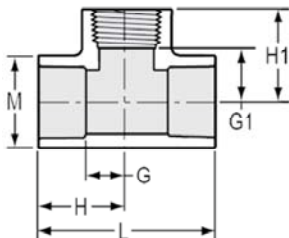


Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

Tee

Socket x Socket x Fipt

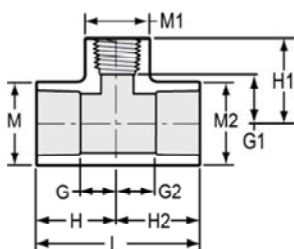
(Continued)



Part Number	Size	G	G1	H	H1	L	M	Approx. Wt. (Lbs.)
402-030	3	1-13/16	2- 1/32	3-11/16	3- 3/8	7-11/32	4	1.38
402-040	4	2- 5/16	2-15/32	4-11/32	3-15/16	8-21/32	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	9/16	3/8	1- 1/8	1- 1/8	1- 1/8	2- 1/4	1- 1/16	13/16	1- 1/16	.05
402-074	1/2X3/4	21/32	1/2	21/32	1-13/32	1- 5/16	1-13/32	2-13/16	1- 1/16	1-11/32	1-1/16	.08
402-094	3/4X1/2X1/2	1/2	11/16	9/16	1- 1/2	1- 7/16	1- 5/16	2-13/16	1- 9/32	1- 1/16	1- 3/32	.09
402-095	3/4X1/2X3/4	13/16	21/32	5/8	1-13/16	1- 7/16	1- 3/8	3- 3/16	1- 5/16	1- 5/16	1- 3/32	.11
402-097	3/4X1/8	9/32	5/8	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	1-21/32	1- 9/16	1-17/32	3- 3/16	1- 5/8	1- 1/16	1- 5/16	.11
402-125	1X3/4X3/4	9/16	23/32	11/16	1-11/16	1-17/32	1-11/16	3- 3/8	1-19/32	1- 9/32	1- 9/32	.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	1-3/32	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	19/32	1- 9/32	19/32	1-25/32	1-25/32	1- 3/4	3-17/32	2	1- 1/8	1- 5/8	.18
402-157	1-1/4X1X3/4	13/16	1- 1/32	3/4	1-13/16	1-23/32	1- 3/4	3- 9/16	2	1- 5/16	1- 5/8	.18
402-158	1-1/4X1X1	13/16	1- 5/32	13/16	2- 1/16	2- 1/8	1-15/16	4	1-31/32	1-21/32	1- 5/8	.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- 1/16	13/16	2- 1/16	1- 3/4	2- 1/16	4- 1/8	2	1- 5/16	2	.18
402-168	1-1/4X1	21/32	1- 1/32	21/32	1- 7/8	1-27/32	1- 7/8	3-25/32	1-31/32	1- 5/8	1-31/32	.21
402-199	1-1/2X1-1/4X1/2	19/32	1- 9/32	19/32	1-27/32	1-29/32	27/32	3-23/32	2- 1/4	1- 1/8	2	.22
402-201	1-1/2X1-1/4X3/4	11/16	1- 5/32	5/8	1-31/32	2- 5/32	1-29/32	3- 7/8	2- 1/4	1- 5/16	2	.25
402-202	1-1/2X1-1/4X1	13/16	1- 1/8	3/4	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- 3/32	21/32	1-31/32	1-27/32	1-31/32	3-29/32	2- 1/4	1- 5/16	2- 1/4	.24
402-211	1-1/2X1	25/32	1- 1/16	25/32	2- 3/32	1-15/16	2- 3/32	4- 3/16	2- 1/4	1- 5/8	2- 1/4	.26
402-212	1-1/2X1-1/4	1	1- 3/32	1	2- 9/32	2- 1/32	2- 9/32	4-19/32	2- 1/4	2	2- 1/4	.32
402-238	2X1-1/2X3/4	11/16	1-13/32	5/8	2- 1/32	2-13/32	1-31/32	4	2- 3/4	1- 5/16	2- 1/4	.31
402-239	2X1-1/2X1	13/16	1-13/32	3/4	2- 3/16	2-17/32	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	41/64	1-11/32	41/64	2- 1/64	2- 3/32	2- 1/64	4- 1/32	2- 3/4	1-11/32	2- 3/4	.32
402-249	2X1	13/16	1-13/32	13/16	2- 3/16	2- 1/4	2- 3/16	4- 3/8	2-23/32	1- 5/8	2-23/32	.33

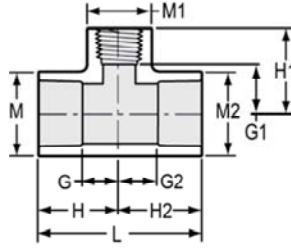
Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



Tee - Reducing

Socket x Socket x Fipt

(Continued)



Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	M2	Approx. Wt. (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	1-31/32	2-23/32	.39
402-251	2X1-1/2	1- 1/16	1- 1/4	1- 1/16	2- 5/16	2- 3/16	2- 5/16	4-19/32	2- 3/4	2- 1/4	2- 3/4	.39
402-287	2-1/2X1/2	1/2	1-11/16	1/2	2- 1/4	2- 3/8	2- 1/4	4- 1/2	3- 3/8	1- 3/16	3- 3/8	.54
402-288	2-1/2X3/4	13/16	1-11/16	13/16	2- 9/16	2- 7/16	2- 9/16	5- 1/8	3- 3/8	1- 3/8	3- 3/8	.64
402-289	2-1/2X1	1	1-23/32	1	2- 3/4	2- 5/8	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	1-25/32	1- 1/32	2-25/32	2-21/32	2-25/32	5- 9/16	3-11/32	2- 1/32	3-11/32	.75
402-291	2-1/2X1-1/2	1- 1/16	1-25/32	1- 1/16	2-13/16	2- 3/4	2-13/16	5- 5/8	3- 3/8	2-13/32	3- 3/8	.77
402-292	2-1/2X2	1- 1/2	1-27/32	1- 1/2	3- 1/4	2-27/32	3- 1/4	6-17/32	3-11/32	3	3-11/32	.97
402-333	3X1/2	19/32	2- 1/16	19/32	2-15/32	2-25/32	2-15/32	4-15/16	3-31/32	1- 3/16	3-31/32	.77
402-334	3X3/4	13/16	2- 1/32	13/16	2-23/32	2-25/32	2-23/32	5-13/32	4	1- 3/8	4	.82
402-335	3X1	31/32	2- 1/8	31/32	2- 7/8	3	2- 7/8	5-23/32	4- 1/32	1-11/16	4-1/32	.91
402-336	3X1-1/4	1	2- 1/32	1	2-63/64	3- 1/32	2-63/64	5-31/32	4	2	4	.97
402-337	3X1-1/2	1- 7/32	2- 1/8	1- 7/32	3- 3/32	3- 1/16	3- 3/32	6- 3/16	4	2-13/32	4	1.00
402-338	3X2	1- 1/2	2- 1/8	1- 1/2	3- 13/32	3- 1/8	3- 13/32	6-25/32	4	3	4	1.21
402-417	4X1	27/32	2- 5/8	27/32	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- 1/2	1- 1/8	3- 1/8	3- 1/2	3- 1/8	6- 1/4	5	2- 1/4	5	1.48
402-420	4X2	1- 3/8	2- 3/4	1- 3/8	3-13/32	3- 3/4	3-13/32	6-25/32	5- 1/32	3	5- 1/32	1.66
402-422	4X3	2	2- 1/2	2	4- 1/32	3-29/32	4- 1/32	8- 1/16	5- 1/16	4- 9/32	5- 1/16	2.18
402-490	5X4	2- 1/2	3- 1/8	2- 1/2	5-17/32	4-29/32	5-17/32	11- 1/16	6- 3/32	5- 1/32	6- 3/32	3.68
402-525 ¹	6X1	1- 3/8	4-11/32	1- 3/8	4-27/32	5-11/32	4-27/32	9-11/16	7- 7/32	2-23/32	7- 7/32	3.64
402-528	6X2	1- 3/8	3-19/32	1- 3/8	4-27/32	4-23/32	4-27/32	9-23/32	7- 1/4	2-25/32	7- 1/4	3.53
402-530	6X3	2	3-19/32	2	5-15/32	5- 7/32	5-15/32	10-15/16	7- 1/4	4- 1/32	7- 1/4	4.12
402-532	6X4	2- 1/2	3- 5/8	2- 1/2	6	5-11/32	6	12	7- 7/32	5- 1/16	7- 7/32	4.96
402-578 ¹	8X2	2	6- 1/8	2	6	7- 1/8	6	12	9- 5/16	3-15/16	9- 5/16	6.84
402-580 ¹	8X3	2- 9/16	5-23/32	1-31/32	6- 9/16	7- 5/16	6- 9/16	13- 1/8	9- 5/16	5	9- 5/16	7.85
402-582 ¹	8X4	3-5/8	5-1/4	3-5/8	7-21/32	6-3/4	7-21/32	15-5/16	9-5/16	7-11/32	9- 5/16	11.20
402-621F [*]	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 [*]	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 [*]	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 [*]	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 [*]	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 [*]	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 [*]	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

¹ Outlet-sized with Bushing

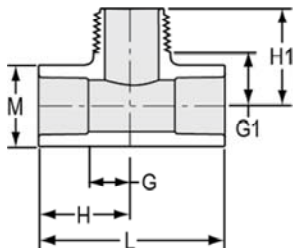
* Fabricated



Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information

Tee

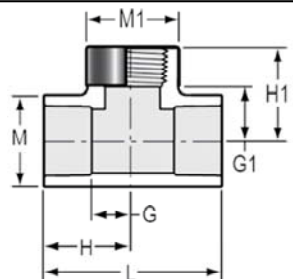
Socket x Mipt



Part Number	Size	G	G1	H	H1	L	M	Approx. Wt. (Lbs.)
402B-010	1	5/8	1- 1/16	1- 3/4	2	3- 7/16	1- 5/8	.15

Tee - Special Reinforced

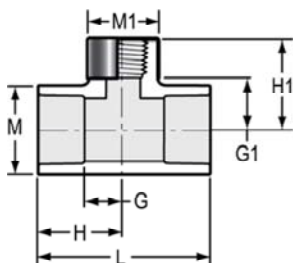
Socket x SR Fipt - Stainless Steel Collar



Part Number	Size	G	G1	H	H1	L	M	M1	Approx. Wt. (Lbs.)
402-005SR	1/2	19/32	15/32	1-15/32	1-11/32	2-15/16	1- 5/32	13/16	.12
402-012SR	1-1/4	1	1-5/16	2-7/32	2-1/4	4-15/32	1-31/32	2- 1/16	.31

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	15/32	11/16	1- 5/16	1- 7/32	2- 5/8	1- 5/32	13/16	.08
402-098SR	3/4X1/4	7/16	13/16	1- 7/16	1-11/32	2- 7/8	1- 3/8	13/16	.11
402-101SR	3/4X1/2	25/32	1/2	1- 5/8	1- 7/16	3- 1/4	1- 3/8	1- 3/16	.14
402-166SR	1-1/4X1/2	7/16	1- 1/8	1-11/16	1- 7/8	3- 3/8	2- 3/32	1- 3/16	.26
402-168SR	1-1/4X1	27/32	1- 1/32	2- 3/32	1-29/32	4- 7/32	2- 3/32	1-23/32	.34
402-212SR	1-1/2X1-1/4	1- 1/32	1- 5/32	2- 7/16	2- 3/32	4-27/32	2- 3/8	2- 1/16	.49
402-287SR	2-1/2X1/2	1/2	1-11/16	2- 1/4	2- 3/8	4- 1/2	3- 3/8	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- 3/8	1- 3/8	.65
402-289SR	2-1/2X1	1	1-23/32	2- 3/4	2- 5/8	5- 1/2	3-11/32	1-11/16	.74
402-290SR	2-1/2X1-1/4	1- 1/32	1-25/32	2-25/32	2-21/32	5- 9/16	3-11/32	2- 1/32	.77
402-291SR	2-1/2X1-1/2	1- 1/16	1-25/32	2-13/16	2- 3/4	5- 5/8	3- 3/8	2- 7/16	.79
402-292SR	2-1/2X2	1- 1/2	1-27/32	3- 1/4	2-27/32	6-17/32	3-11/32	3	1.01
402-333SR	3X1/2	19/32	2- 1/16	2-15/32	2-25/32	4-15/16	3-31/32	1- 3/16	.77
402-334SR	3X3/4	13/16	2- 1/32	2-23/32	2-25/32	5-13/32	4	1- 3/8	.83
402-335SR	3X1	31/32	2-1/8	2- 7/8	3	5-23/32	4- 1/32	1-23/32	.94

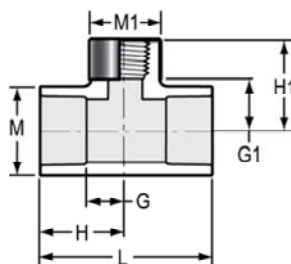
Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



Tee - Special Reinforced Reducing

Socket x SR Fipt - Stainless Steel Collar

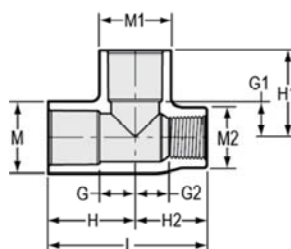
(Continued)



Part Number	Size	G	G1	H	H1	L	M	M1	Approx. Wt. (Lbs.)
402-336SR	3X1-1/4	1- 1/32	2- 3/32	2-29/32	3- 3/32	5-13/16	4	2- 1/16	1.00
402-337SR	3X1-1/2	1- 7/32	2- 1/8	3- 3/32	3- 3/32	6- 9/32	3-31/32	2- 7/16	1.06
402-338SR	3X2	1- 1/2	2- 1/16	3-13/32	3- 1/16	6- 7/8	4	3	1.24
402-417SR	4X1	27/32	2- 5/8	27/32	3-17/32	5- 3/4	5- 1/32	1-23/32	1.27
402-419SR	4X1-1/2	1- 1/8	2-25/32	3- 1/8	3- 3/4	6- 9/32	5- 1/32	2- 7/16	1.51
402-420SR	4X2	1- 3/8	2-25/32	3-13/32	3-25/32	6-25/32	5- 1/32	3- 1/32	1.71
402-422SR	4X3	2	2- 1/2	4- 1/32	3-15/16	8- 1/16	5- 1/16	4- 9/32	2.25

Tee - Reducing

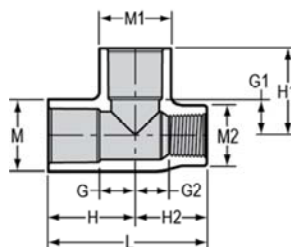
Socket x Fipt x Socket



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

Tee - Special Reinforced Reducing

Socket x SR Fipt-Stainless Steel Collar x Socket



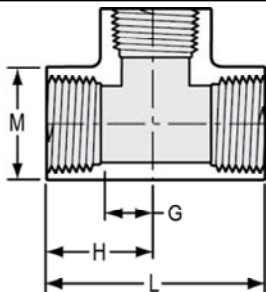
Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	M2	Approx. Wt. (Lbs.)
403-095SR	3/4X1/2X3/4	11/16	11/16	11/16	1-11/16	1-11/16	1-13/32	3- 1/8	1-13/32	1-13/32	1- 7/32	.15



Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

Tee

Fipt x Fipt x Fipt



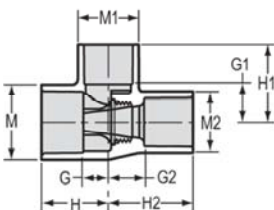
Part Number	Size	G	H	L	M	Approx. Wt. (Lbs.)
405-005	1/2	17/32	1- 1/4	2- 1/2	1- 3/32	.07
405-007	3/4	19/32	1- 3/8	2- 3/4	1- 9/32	.10
405-010	1	5/8	1-19/32	3- 3/16	1-23/32	.18
405-012	1-1/4	15/16	1-15/16	3- 7/8	2- 7/32	.47
405-015	1-1/2	1	2	4- 1/32	2- 7/32	.36
405-020	2	1- 1/4	2- 5/16	4-19/32	2-23/32	.51
405-025 ¹	2-1/2	2-13/16	4-11/32	8-11/16	4- 1/32	2.81

¹ 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)

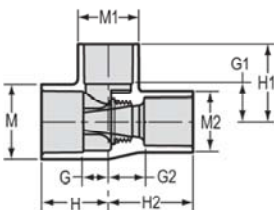
Special spa jet fitting with standard 7/16" nozzle plus optional 3/8" or 1/4".



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

Venturied Tee, Multi Configuration - Socket Style Sch 40

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



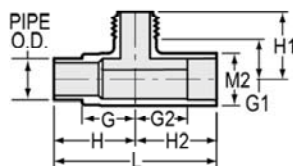
Part Number	Size	G	G1	G2	H	H1	H2	M	M1	M2	Approx. Wt. (Lbs.)
473-210	with 7/16" Nozzle	19/32	1-3/32	19/32	1-13/16	2-3/32	1-7/8	2-1/4	1-5/16	2-3/8	.32
473-210-1/4	with 1/4" Nozzle	19/32	1-3/32	19/32	1-13/16	2-3/32	1-7/8	2-1/4	1-5/16	2-3/8	.32
473-210-3/8	with 3/8" Nozzle	19/32	1-3/32	19/32	1-13/16	2-3/32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

Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



Manifold Tee

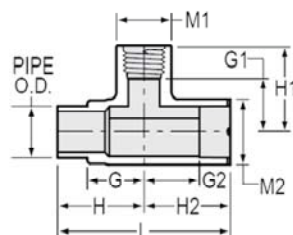
Spigot x Socket x Mipt



Part Number	Size	G	G1	G2	H	H1	H2	L	M2	Approx. Wt. (Lbs.)
476-010	1	1-23/32	1-1/4	1-11/16	2- 5/8	2- 5/32	2- 5/8	5- 1/4	1-21/32	.23

Manifold Tee

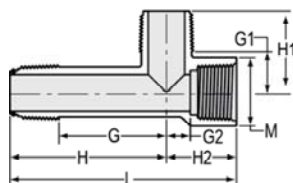
Spigot x Socket x Fipt



Part Number	Size	G	G1	G2	H	H1	H2	L	M1	M2	Approx. Wt. (Lbs.)
477-010	1	1-23/32	1- 1/4	1-11/16	2- 5/8	2- 5/32	2- 5/8	5- 1/4	1-21/32	1-21/32	.27

Manifold Tee - O-ring Sealed

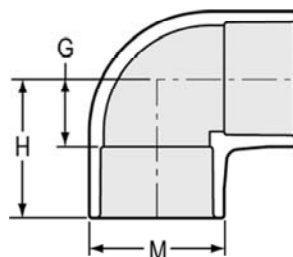
O-ring Sealed Mipt x Fipt x Mipt
 EPDM O-ring Seal on Tee run



Part Number	Size	G	G1	G2	H	H1	H2	L	M	Approx. Wt. (Lbs.)
451A-010	1	2-19/32	31/32	3/4	3-13/16	1-31/32	1-11/16	5- 1/2	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- 1/8	.04

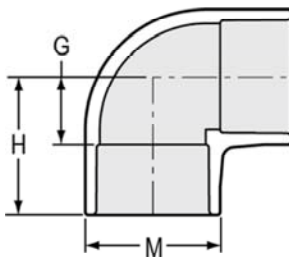


Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

90° EII

Socket x Socket

(Continued)

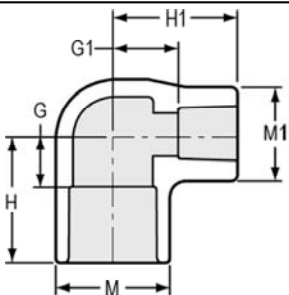


Part Number	Size	G	H	M	Approx. Wt. (Lbs.)
406-007	3/4	9/16	1- 1/2	1-11/32	.07
406-010	1	11/16	1-3/4	1- 5/8	.11
406-012	1-1/4	31/32	2- 5/32	2	.20
406-015	1-1/2	1- 1/16	2-11/32	2- 1/4	.24
406-020	2	1-5/16	2-11/16	2- 3/4	.37
406-025	2-1/2	1- 1/2	3- 1/4	3-11/32	.71
406-030	3	1-27/32	3-23/32	4	1.05
406-040	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- 1/8	6- 5/32	3.24
406-060	6	3-17/32	6- 9/16	7- 9/32	4.74
406-080	8	4-13/32	8- 7/16	9- 3/8	8.87
406-100	10	5-13/16	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	7- 1/16	13- 9/16	14- 1/4	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	15-11/16	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	120.91
406-240F*	24	23-7/16	35-7/16	25- 3/8	172.90

* Fabricated

90° EII - Reducing

Socket x Socket



Part Number	Size	G	G1	H	H1	M	M1	Approx. Wt. (Lbs.)
406-053	3/8X1/2	7/16	15/32	1-11/16	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	1/2	11/16	1- 1/2	1-15/16	1- 5/16	1- 1/8	.07
406-130	1X1/2	9/16	1- 1/16	1-11/16	1-13/16	1- 5/8	1- 1/8	.08
D406-130	1X1/2	9/16	19/32	1-11/16	1-27/32	1- 5/8	1- 3/32	.12
406-131	1X3/4	21/32	23/32	1-25/32	1-23/32	1-19/32	1- 5/16	.11
406-166	1-1/4X1/2	9/16	1	1-13/16	1- 3/4	2	1- 3/32	.11

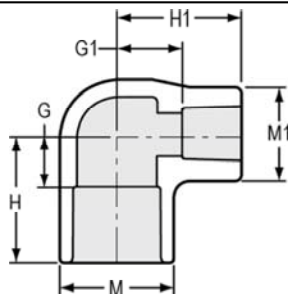
Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



90° EII - Reducing

Socket x Socket

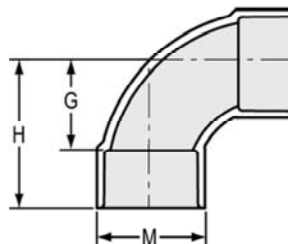
(Continued)



Part Number	Size	G	G1	H	H1	M	M1	Approx. Wt. (Lbs.)
D406-166	1-1/4X1/2	9/16	1	1-25/32	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	17/32	1- 1/8	1-27/32	1- 7/8	2- 7/32	1- 3/32	.15
406-211	1-1/2X1	13/16	1- 3/32	2- 1/8	2- 5/32	2- 1/4	1- 5/8	.20
406-212	1-1/2X1-1/4	31/32	1- 3/32	2- 9/32	2-11/32	2- 7/32	1-31/32	.23
406-249	2X1	27/32	1-11/32	2- 7/32	2-15/32	2-23/32	1-19/32	.29
406-250	2X1-1/4	1	1- 3/8	2-3/8	2-19/32	2-3/4	2	.30
406-251	2X1-1/2	1- 1/8	1- 5/16	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	1- 1/2	3	2- 7/8	3-11/32	2-23/32	.55
406-292N	2-1/2X2 (2-1/2 Spigot)	1- 1/4	2- 9/32	3	3- 3/16	3- 5/16	2- 7/8	.70

90° EII - Sweep

Socket x Socket



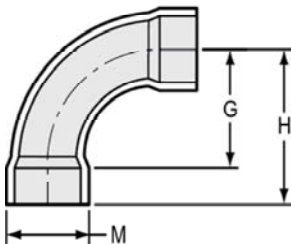
Part Number	Size	G	H	M	Approx. Wt. (Lbs.)
406-005S	1/2	27/32	1-23/32	1- 3/16	.07
406-007S	3/4	1- 1/32	2- 1/32	1-13/32	.11
406-010S	1	1-5/16	2-3/8	1-5/8	.15
406-012S	1-1/4	1- 9/16	2-13/16	2- 3/32	.29
406-015S	1-1/2	1- 3/4	3-1/16	2-1/4	.28
406-020S	2	2-9/32	3-11/16	2-3/4	.46
406-025S	2-1/2	3- 3/16	4-31/32	3-11/32	.87
406-030S	3	3-1/32	4-15/16	4	1.24



Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information

90° EII - Long Sweep

Socket x Socket

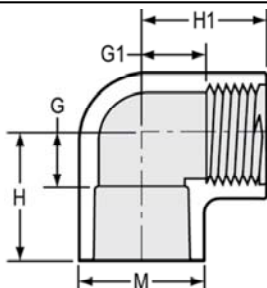


Part Number	Size	G	H	M	Approx. Wt. (Lbs.)
406-025LSF*	2-1/2	5- 7/16	7- 7/16	3- 1/4	1.11
406-030LSF*	3	7	9	3-15/16	1.59
406-040LSF*	4	9	11-1/4	5	2.77
406-060LSF*	6	13	16- 1/4	7- 3/16	6.96
406-080LSF*	8	22- 7/16	26-11/16	9- 1/4	18.94
406-100LSF*	10	27	32-1/4	11-1/2	31.27

* Fabricated

90° EII

Socket x Fipt



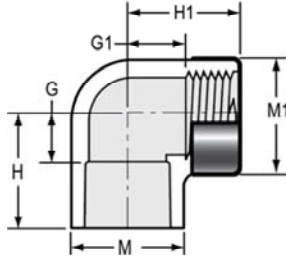
Part Number	Size	G	G1	H	H1	M	Approx. Wt. (Lbs.)
407-005	1/2	1/2	1/2	1- 1/4	1- 1/4	1- 3/32	.05
407-007	3/4	9/16	9/16	1- 9/16	1- 9/32	1- 5/16	.08
407-010	1	11/16	21/32	1-13/16	1- 9/16	1- 5/8	.14
407-012	1-1/4	7/8	1- 1/16	2- 1/8	2- 1/32	2- 1/16	.25
407-015	1-1/2	1	1- 1/16	2- 5/16	2	2- 1/4	.25
407-020	2	1- 3/16	1- 9/32	2-11/32	2-11/32	2-11/32	.44
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	1-31/32	3-11/16	3-21/32	4	1.15
407-040	4	2- 5/16	2-15/32	4- 5/16	3-15/16	5- 1/16	1.85

Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



90° EII - Special Reinforced & Reducing 90° EII

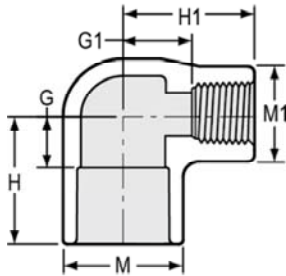
Socket x SR Fipt - Stainless Steel Collar



Part Number	Size	G	G1	H	H1	M	M1	Approx. Wt. (Lbs.)
407-005SR	1/2	1/2	9/16	1- 1/4	1- 9/32	1- 3/32	1- 7/32	.07
407-007SR	3/4	9/16	21/32	1-13/32	1-13/32	1- 3/8	1-13/32	.09
407-010SR	1	19/32	13/16	1-23/32	1-23/32	1-11/16	1-23/32	.20
407-012SR	1-1/4	7/8	1- 5/32	2- 1/8	2- 1/32	2- 1/16	2- 1/16	.28
407-211SR	1-1/2X1	13/16	1-1/8	2-3/32	2	2-1/4	1-11/16	.26
407-249SR	2X1	1- 3/16	1- 9/16	2- 5/16	2- 3/8	2- 3/4	1-11/16	.34
407-251SR	2X1-1/2	1- 1/8	1-19/32	2- 1/2	2-17/32	2-23/32	2- 7/16	.44

90° EII - Reducing

Socket x Fipt



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

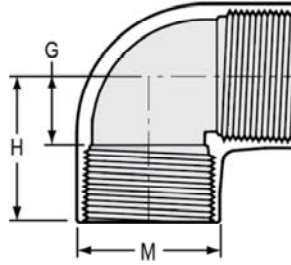


Schedule 40 Fittings Technical

Schedule 40 Fittings Dimensions & Information

90° EII

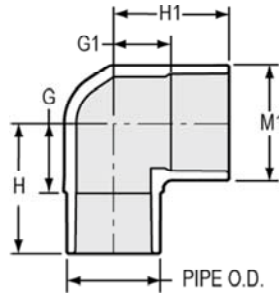
Fipt x Fipt



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	1/2	1- 1/4	1- 5/16	.08
408-010	1	5/8	1-17/32	1- 5/8	.15
408-012	1-1/4	1	2	1-31/32	.25
408-015	1-1/2	1-1/8	2-5/32	2-1/4	.34
408-020	2	1- 5/16	2-11/32	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	3/4	15/32	1- 15/32	1- 1/4	1- 3/32	.04
409-007	3/4	27/32	17/32	1-27/32	1-17/32	1-11/32	.07
409-010	1	31/32	11/16	2- 3/32	1-13/16	1- 5/8	.12
409-012	1-1/4	1- 3/16	13/16	2-15/32	2- 1/16	1-31/32	.18
409-015	1-1/2	1-11/32	1- 1/16	2- 5/8	2- 3/8	2- 1/4	.25
409-020	2	1-19/32	1-7/32	3	2- 5/8	2-23/32	.34
409-025	2-1/2	1-15/16	1-15/32	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	2-29/32	2- 5/16	4-15/16	4-11/32	5- 1/16	1.85
409-050	5	4- 1/2	3	7- 3/4	6	6- 1/8	4.27
409-060	6	5- 1/4	3- 1/2	8- 7/8	6-15/16	7- 1/2	5.99
409-080	8	6- 3/8	4-15/32	10- 9/16	8- 1/2	9- 5/16	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	143.08
409-240F*	24	29-7/16	23-7/16	42-7/16	35-7/16	25-3/8	238.36

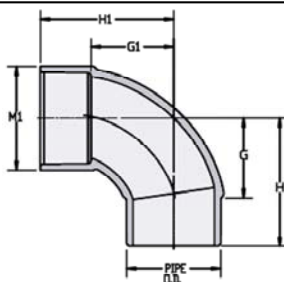
* Fabricated

Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



90° Street Ell - Sweep

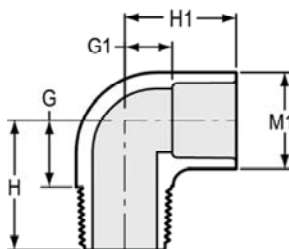
Socket x Spigot



Part Number	Size	G	G1	H	H1	M1	Approx. Wt. (Lbs.)
409-015S	1-1/2	1-3/4	1-3/4	3-1/16	3-1/16	2-1/4	.27
409-020S	2	2-1/4	2-3/16	3-11/16	3-11/16	2-3/4	.44
409-025S	2-1/2	2-3/4	2-11/16	4-9/16	4-9/16	3-11/32	.84
409-030S	3	3-1/16	2-15/16	5	5	3-31/32	1.19

90° Street Ell

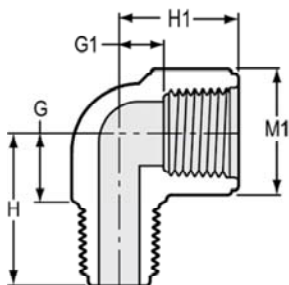
Mipt x Socket



Part Number	Size	G	G1	H	H1	M1	Approx. Wt. (Lbs.)
410-005	1/2	21/32	3/8	1-11/32	1- 5/32	1- 3/32	.04
410-007	3/4	13/16	1/2	1-17/32	1-1/2	1- 5/16	.07
410-010	1	1- 1/32	11/16	1-29/32	1-13/16	1- 5/8	.12
410-012	1-1/4	1-3/16	3/4	2- 3/32	2	2	.18
410-015	1-1/2	1-13/32	1	2-13/32	2- 5/16	2- 7/32	.25
410-020	2	1- 5/8	1-11/32	2- 9/16	2-23/32	2-23/32	.40
410-030	3	2-11/16	1-27/32	3-31/32	3-23/32	4	1.03
410-101	3/4X1/2	23/32	13/32	1- 7/16	1- 1/4	1- 3/32	.05
410-102	3/4X1	3/4	1/2	1- 3/4	1-11/32	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	.04
412-007	3/4	13/16	7/16	1-17/32	1- 3/16	1-11/32	.06
412-010	1	7/8	9/16	1-1/2	1- 7/16	1- 1/2	.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

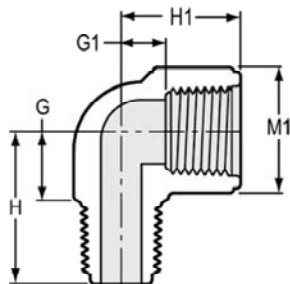


Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information

90° Street Ell

Mipt x Fipt

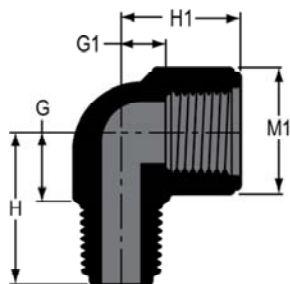
(Continued)



Part Number	Size	G	G1	H	H1	M1	Approx. Wt. (Lbs.)
412-020	2	1- 9/16	1- 1/4	2- 3/4	2- 5/16	2-23/32	.38
412-030	3	2-25/32	1- 7/8	4-15/32	3	4- 3/4	1.35

HDPE 90° Street Ell

Mipt x Fipt

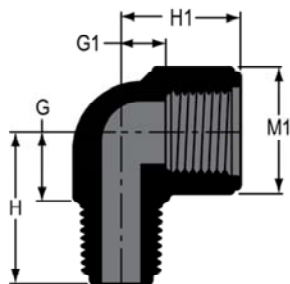


Part Number	Size	G	G1	H	H1	M1	Approx. Wt. (Lbs.)
M412-005	1/2	23/32	11/32	1-13/32	1- 1/16	1- 1/8	.02
M412-007	3/4	13/16	7/16	1-17/32	1- 3/16	1-11/32	.04
M412-010	1	15/16	5/8	1-25/32	1- 1/2	1- 5/8	.07
M412-012	1-1/4	1- 7/32	7/8	2- 7/32	1- 7/8	1-31/32	.15
M412-015	1-1/2	1-11/32	1- 1/16	2-11/32	2- 1/8	2- 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- 1/16	.03
MS412-007	3/4	13/16	7/16	1- 5/16	1-1/8	1-1/4	.03
MS412-010	1	7/8	9/16	1- 3/16	1- 3/8	1-1/2	.05
MS412-101	3/4X1/2	21/32	1/2	1- 7/32	1- 1/8	1	.02

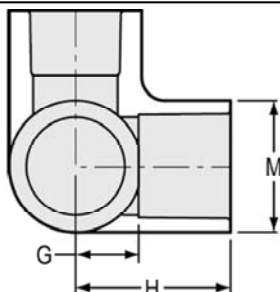
High Density Polyethylene - Not NSF-listed - Not pressure rated.

Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



Side Outlet EII

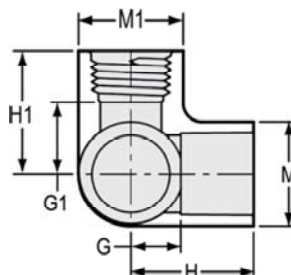
Socket x Socket x Socket



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	13/16	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

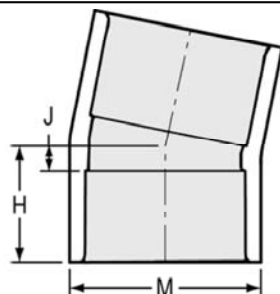
Socket x Socket x Fipt



Part Number	Size	G	G1	H	H1	M	M1	Approx. Wt. (Lbs.)
414-005	1/2	1/2	1/2	1- 1/4	1- 1/4	1- 3/32	1- 3/32	.07
414-007	3/4	9/16	5/8	1- 9/16	1- 7/16	1- 9/32	1- 9/32	.09
414-101	3/4X1/2	9/16	21/32	1- 9/16	1-13/32	1- 5/16	1- 1/16	.09
414-130	1X1/2	11/16	13/16	1-13/16	1- 9/16	1- 5/8	1- 1/16	.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- 3/4	1/4	2-13/16	.33
411-025F*	2-1/2	2-11/16	11/16	3- 1/4	.66

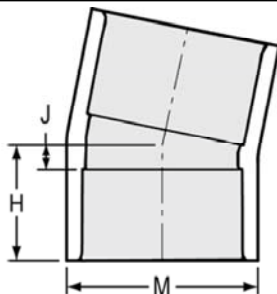


Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information

11-1/4° EII

Socket x Socket

(Continued)

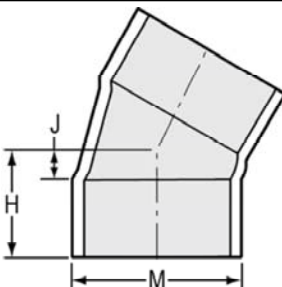


Part Number	Size	H	J	M	Approx. Wt. (Lbs.)
411-030	3	1- 7/8	5/16	4- 1/8	.87
411-040	4	2-21/32	13/32	5- 1/4	1.51
411-045F*	4-1/2	3- 1/4	3/4	5- 7/16	1.31
411-050F*	5	3-13/16	13/16	6- 1/16	1.87
411-060F*	6	4- 1/4	1	7- 3/16	2.95
411-080F*	8	5- 5/16	1- 1/16	9- 1/4	4.84
411-100F*	10	6-11/16	1-7/16	11- 1/2	9.41
411-120F*	12	7-13/16	1-9/16	13-9/16	14.09
411-140F*	14	9	2	14- 7/8	20.77
411-160F*	16	10-3/8	2-3/8	16-3/4	28.88
411-180F*	18	11-11/16	2-11/16	19- 1/8	42.88
411-200F*	20	13-1/16	3-1/16	21- 3/16	56.42
411-240F*	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*	1/2	1- 3/8	3/8	1- 1/16	.04
415-007F*	3/4	1- 7/16	7/16	1- 1/4	.07
415-010F*	1	1- 3/4	1/2	1- 9/16	.11
415-012F*	1-1/4	2- 1/8	5/8	1-15/16	.18
415-015F*	1-1/2	2- 3/16	11/16	2- 3/16	.22
415-020F*	2	2- 1/2	3/4	2-11/16	.41
415-025F*	2-1/2	2-15/16	15/16	3- 1/4	.61
415-030F*	3	3- 5/16	1- 1/16	3-15/16	1.07
415-040F*	4	3- 7/16	1- 3/16	5	1.53
415-045F*	4-1/2	3- 3/4	1- 1/4	5- 7/16	1.48
415-050F*	5	4- 5/16	1- 5/16	6- 1/16	2.63
415-060F*	6	4- 7/8	1- 5/8	7- 3/16	3.20
415-080F*	8	6- 1/8	1- 7/8	9- 1/4	5.39
415-100F*	10	7-11/16	2-7/16	11- 1/2	10.66

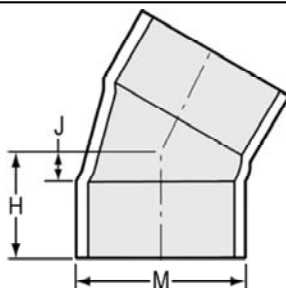
Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



30° EII

Socket x Socket

(Continued)

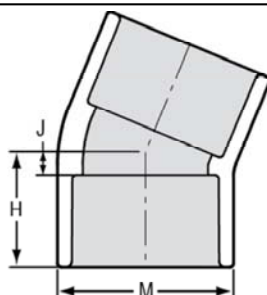


Part Number	Size	H	J	M	Approx. Wt. (Lbs.)
415-120F*	12	9	2-3/4	13-9/16	16.57
415-140F*	14	10-5/16	3-5/16	14- 7/8	23.88
415-160F*	16	11-13/16	3-13/16	17	34.14
415-180F*	18	13-3/8	4-3/8	19- 1/8	49.74
415-200F*	20	14-15/16	4-15/16	21-3/16	64.48
415-240F*	24	18	6	25-3/8	109.36

* 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	3/16	1- 7/16	.16
416-010	1	1- 3/8	9/32	1-23/32	.26
416-012	1-1/4	1- 1/2	11/32	2- 3/32	.21
416-015	1-1/2	1-21/32	9/32	2-11/32	.25
416-015F*	1-1/2	2-1/8	5/8	2-3/16	.22
416-020	2	1-23/32	3/8	2-23/32	.24
416-025	2-1/2	2- 1/4	1/2	3- 1/2	.69
416-025F*	2-1/2	2-13/16	13/16	3- 1/4	.66
416-030	3	2-13/32	9/16	4- 5/32	.83
416-040	4	2-27/32	19/32	5- 3/16	1.68
416-045F*	4-1/2	3- 9/16	1- 1/16	5- 7/16	1.58
416-050F*	5	4- 1/8	1- 1/8	6- 1/16	2.11
416-060	6	4- 9/16	1- 9/32	7- 3/16	4.39
416-060F*	6	4- 5/8	1- 3/8	7- 3/16	3.24
416-080	8	5- 7/8	1- 3/4	9- 3/4	8.38
416-080F*	8	12-11/16	3-11/16	9-1/8	5.72
416-100F*	10	7-5/16	2-1/16	11- 1/2	10.04
416-120F*	12	8- 1/2	2- 1/4	13- 9/16	14.91
416-140F*	14	9-3/4	2-3/4	14-7/8	20.77
416-160F*	16	11- 1/4	3- 1/4	17	30.96
416-180F*	18	12-11/16	3-11/16	19-1/8	46.31

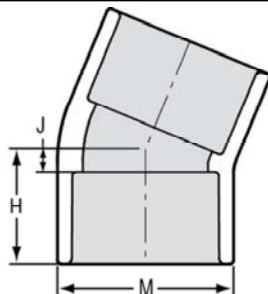


Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

22-1/2° Ell

Socket x Socket

(Continued)

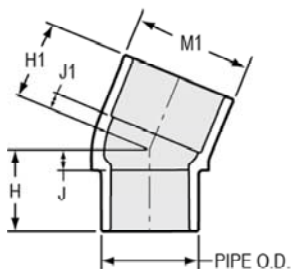


Part Number	Size	H	J	M	Approx. Wt. (Lbs.)
416-200F*	20	14-1/8	4-1/8	21- 3/16	60.45
416-240F*	24	17-1/16	5-1/16	25-3/8	100.95

* Fabricated

22-1/2° Street Ell

Spigot x Socket



Part Number	Size	H	H1	J	J1	M1	Approx. Wt. (Lbs.)
442-005	1/2	1- 1/16	1	1/4	1/4	1- 5/32	.04
442-007	3/4	1-3/8	1-1/8	11/32	5/32	1-7/16	.07
442-010	1	1-15/32	1- 3/8	11/32	9/32	1-11/16	.13
442-012	1-1/4	1- 1/2	1- 3/8	3/16	1-11/16	2- 1/16	.19
442-015	1-1/2	1-21/32	1- 7/8	9/32	1/2	2- 3/8	.26
442-020	2	2	1-29/32	15/32	13/32	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- 1/2	2- 5/16	21/32	7/16	4- 5/32	.95
442-040	4	4- 3/8	2- 7/8	1- 7/8	5/8	5- 1/4	1.64
442-060	6	5-11/16	3-15/16	2- 3/8	7/8	7- 5/8	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- 3/8	5- 1/8	3- 1/8	1- 1/8	9- 3/4	11.85
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

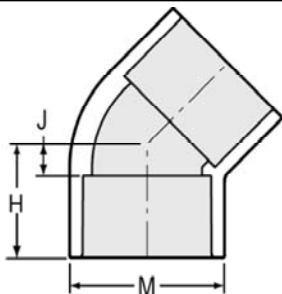
* Fabricated

Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



45° EII

Socket x Socket

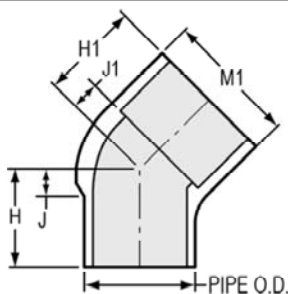


Part Number	Size	H	J	M	Approx. Wt. (Lbs.)
417-005	1/2	1	1/4	1- 3/32	.03
417-007	3/4	1- 3/8	7/16	1- 5/16	.07
417-010	1	1- 1/2	15/32	1-21/32	.11
417-012	1-1/4	1-25/32	17/32	2	.16
417-015	1-1/2	1-29/32	19/32	2- 1/4	.22
417-020	2	2- 1/16	11/16	2- 3/4	.31
417-025	2-1/2	2- 7/16	11/16	3- 3/8	.56
417-030	3	2-27/32	27/32	4	.83
417-040	4	3- 3/32	1- 3/32	5- 1/32	1.26
417-045F*	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*	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*	8	6-7/8	2-5/8	9-1/4	7.44
417-100	10	7-5/8	2-19/32	12-1/8	18.98
417-100F*	10	8-9/16	3-5/16	11-1/2	10.33
417-120	12	9-19/32	3- 3/32	14- 5/16	32.01
417-120F*	12	10	3-3/4	13-9/16	15.96
417-140	14	10- 5/16	3- 5/16	15- 5/8	79.13
417-140F*	14	11-7/16	4-7/16	14- 7/8	25.96
417-160F*	16	13-1/8	5-1/8	17	34.85
417-180F*	18	14- 7/8	5- 7/8	19- 1/8	54.89
417-200F*	20	16-9/16	6-9/16	21- 3/16	70.53
417-240F*	24	19-15/16	7-15/16	25-3/8	117.78

* Fabricated

45° Street EII

Spigot x Socket



Part Number	Size	H	H1	J	J1	M1	Approx. Wt. (Lbs.)
427-005	1/2	1- 9/32	1- 9/32	11/32	13/32	1- 3/16	.06
427-007	3/4	1- 1/2	1-17/32	7/16	17/32	1-13/32	.09
427-010	1	1-1/2	1-3/8	11/32	7/16	1-5/8	.09
427-012	1-1/4	1-25/32	1-29/32	1/2	21/32	2- 3/32	.22

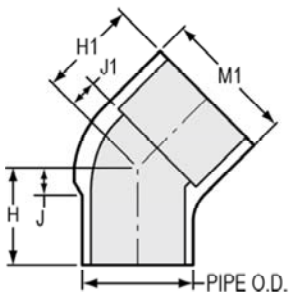


Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

45° Street Ell

Spigot x Socket

(Continued)

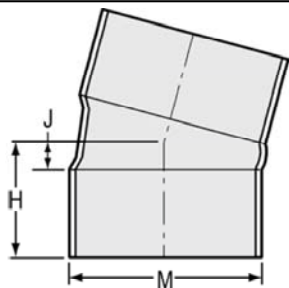


Part Number	Size	H	H1	J	J1	M1	Approx. Wt. (Lbs.)
427-015	1-1/2	2- 1/32	1-3/4	11/16	7/16	2-1/4	.19
427-020	2	2	2	5/8	5/8	2-23/32	.30
427-025	2-1/2	2- 5/8	2- 5/8	3/4	7/8	3-11/32	.59
427-030	3	2-31/32	3- 1/32	1	1- 7/32	4- 5/32	1.18
427-040	4	3-29/32	3-5/16	1-1/32	1-1/16	5-1/4	2.14
427-050	5	6- 1/8	4- 3/8	2- 7/8	1- 3/8	6- 1/16	3.64
427-060	6	5- 1/4	6- 1/4	1- 3/4	3	7- 5/8	5.72
427-080	8	6- 5/8	5-31/32	2-19/32	1- 3/4	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

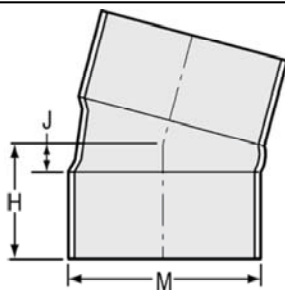
Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



15° EII

Socket x Socket

(Continued)

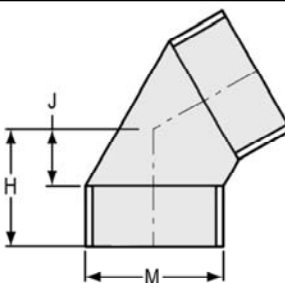


Part Number	Size	H	J	M	Approx. Wt. (Lbs.)
418-140F*	14	9-1/4	2-1/4	14-7/8	20.77
418-160F*	16	10- 5/8	2- 5/8	17	30.20
418-180F*	18	12	3	19- 1/8	44.60
418-200F*	20	13-7/16	3-7/16	21-3/16	58.44
418-240F*	24	16-3/16	4-3/16	25-3/8	98.14

* Fabricated

60° EII

Socket x Socket



Part Number	Size	H	J	M	Approx. Wt. (Lbs.)
424-005F*	1/2	1- 5/8	5/8	1- 1/16	.07
424-007F*	3/4	1-11/16	11/16	1- 1/4	.06
424-010F*	1	2	3/4	1- 9/16	.11
424-012F*	1-1/4	2- 1/2	1	1-15/16	.38
424-015F*	1-1/2	2- 9/16	1- 1/16	2- 3/16	.24
424-020F*	2	2-15/16	1- 3/16	2-11/16	.48
424-025F*	2-1/2	3- 1/2	1- 1/2	3- 1/4	.85
424-030F*	3	3-15/16	1-11/16	3-15/16	1.19
424-040F*	4	4- 1/4	2	5	1.70
424-045F*	4-1/2	4- 5/8	2- 1/8	5- 7/16	.15
424-050F*	5	5- 5/16	2- 5/16	6- 1/16	2.42
424-060F*	6	6- 1/16	2-13/16	7- 3/16	3.54
424-080F*	8	7- 5/8	3- 3/8	9- 1/4	6.60
424-100F*	10	9-9/16	4-5/16	11- 1/2	11.60
424-120F*	12	11-3/16	4- 15/16	13- 9/16	17.46
424-140F*	14	12-3/4	5-3/4	14-7/8	28.03
424-160F*	16	14-5/8	6-5/8	17	36.38
424-180F*	18	16-9/16	7-9/16	19-1/8	60.04
424-200F*	20	23-11/16	13-11/16	22-1/16	108.82
424-240F*	24	28-3/8	16-3/8	25-3/8	122.08

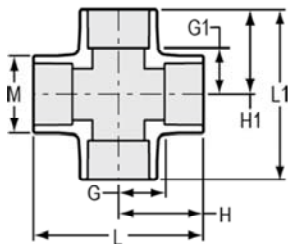
* Fabricated



Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

Cross

Socket x Socket x Socket x Socket

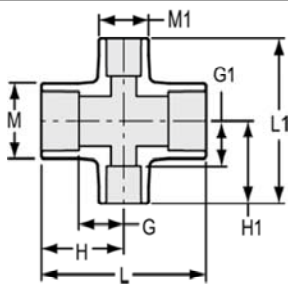


Part Number	Size	G	G1	H	H1	L	L1	M	Approx. Wt. (Lbs.)
420-005	1/2	1/2	1/2	1-1/4	1-1/4	2-1/2	2-1/2	1- 3/32	.07
420-007	3/4	9/16	9/16	1- 9/16	1- 9/16	3- 1/8	3- 1/8	1- 5/16	.11
420-010	1	13/16	13/16	1-15/16	1-15/16	3- 7/8	3- 7/8	1- 5/8	.23
420-012	1-1/4	1- 3/32	1- 3/32	2-11/32	2-11/32	4-23/32	4-23/32	2- 1/16	.42
420-015	1-1/2	1- 1/4	1- 1/4	2-19/32	2-19/32	5- 5/32	5- 5/32	2- 5/16	.53
420-020	2	1-17/32	1-17/32	2-29/32	2-29/32	5-27/32	5-27/32	2-13/16	.78
420-025	2-1/2	1-21/32	1-21/32	3-21/32	3-21/32	7-11/32	7-11/32	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- 1/2	4- 1/2	9- 1/32	9- 1/32	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	180.12
420-200F*	20	18- 1/4	15-7/16	28- 1/4	25-7/16	56- 1/2	50-7/8	21- 3/16	249.88
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 ¹	3/4X1/2	1- 7/16	1- 1/16	1- 9/16	1-13/16	3- 1/8	3- 5/8	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	1-17/32	.29
420-167 ¹	1-1/4X3/4	1- 1/8	1-21/32	2-11/32	2-21/32	4-11/16	5- 5/16	2- 1/32	2- 1/32	.64
420-168 ¹	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 ¹	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 ¹	2X1-1/4	1- 9/16	2- 1/16	2-15/16	3-15/16	5-27/32	6- 5/8	2-13/16	2-13/16	1.15
420-251 ¹	2X1-1/2	1-17/32	1-25/32	2-29/32	3- 1/8	5-13/16	6- 1/4	2-25/32	2-25/32	1.04
420-288 ¹	2-1/2X3/4	1-21/32	3- 3/32	3-21/32	4- 3/32	7-11/32	8- 7/32	3- 3/8	3- 3/8	2.21

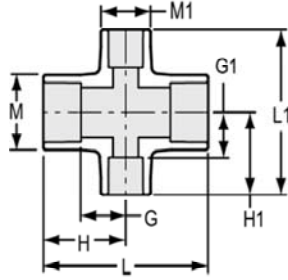
Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



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 ¹	2-1/2X1	7/8	1-23/32	2-11/16	2- 7/8	5-11/32	5- 3/4	3- 1/2	1- 3/4	.96
420-335 ¹	3X1	1-15/16	3- 1/4	3-15/16	4- 3/8	7- 7/8	8- 3/4	4	4	2.71
420-336 ¹	3X1-1/4	2	3- 1/8	3-15/16	4- 3/8	7- 7/8	8- 3/4	4	4	2.71
420-337 ¹	3X1-1/2	1-31/32	3- 1/16	3-31/32	4- 3/8	7-15/16	8-23/32	4- 1/32	4- 1/32	2.69
420-338 ¹	3X2	2- 1/16	2- 5/8	3-31/32	4- 9/32	7-29/32	8- 9/16	4- 1/32	4- 1/32	2.67
420-339 ¹	3X2-1/2	1-15/16	2-11/32	3-15/16	4-11/32	7- 7/8	8-11/16	4	4	2.48
420-420 ¹	4X2	2- 1/2	3-17/32	4- 1/2	4-29/32	9- 1/32	9-13/16	5- 1/32	5- 1/4	4.95
420-421 ¹	4X2-1/2	2- 1/2	2-15/16	4- 1/2	4-15/16	9	9- 7/8	5	5	4.74
420-422 ¹	4X3	2- 1/2	2-15/16	4- 1/2	4-15/16	9	9- 7/8	5	5	4.81
420-528F ⁺	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 ⁺	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 ⁺	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 ⁺	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 ⁺	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 ⁺	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 ⁺	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 ⁺	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 ⁺	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 ⁺	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 ⁺	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 ⁺	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 ⁺	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 ⁺	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 ⁺	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 ⁺	12X2	5- 1/4	8- 1/4	11- 1/2	10	23	20	13- 9/16	2-11/16	27.06
420-662F ⁺	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 ⁺	12X3	5- 3/4	9	12	11- 1/4	24	22- 1/2	13- 9/16	3-15/16	27.42
420-664F ⁺	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 ⁺	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 ⁺	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 ⁺	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 ⁺	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 ⁺	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 ⁺	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 ⁺	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 ⁺	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 ⁺	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 ⁺	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 ⁺	16X2	6- 3/8	9- 3/4	14- 3/8	11- 1/2	28- 3/4	23	17	2-11/16	66.96

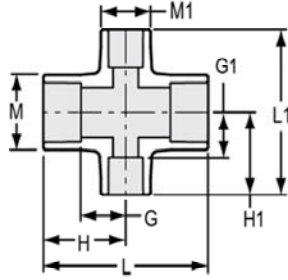


Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information

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 [*]	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 [*]	16X4	8	10-13/16	16	13- 1/16	32	26- 1/8	17	5	61.13
420-756F [*]	16X6	9	10- 7/8	17	14- 1/8	34	28- 1/4	17	7- 3/16	66.59
420-758F [*]	16X8	10	10-13/16	18	15- 1/16	36	30- 1/8	17	9- 1/4	78.84
420-760F [*]	16X10	11	11- 7/8	19	17- 1/8	38	34- 1/4	17	11- 1/2	80.00
420-762F [*]	16X12	12	11-11/16	20	17-15/16	40	35- 7/8	17	13- 9/16	103.58
420-764F [*]	16X14	13	11-15/16	21	18-15/16	42	37- 7/8	17	14- 7/8	108.37
420-781F [*]	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 [*]	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 [*]	18X4	7- 3/4	11- 3/4	16- 3/4	14	33- 1/2	28	19- 1/8	5	78.50
420-786F [*]	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 [*]	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 [*]	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 [*]	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 [*]	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 [*]	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 [*]	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	91.28
420-813F [*]	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	96.02
420-814F [*]	20X4	8- 1/4	12- 3/4	18- 1/4	15	36- 1/2	30	21- 3/16	5	102.80
420-816F [*]	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	112.55
420-818F [*]	20X8	10- 1/4	12- 3/4	20- 1/4	17	40- 1/2	34	21- 3/16	9- 1/4	124.82
420-820F [*]	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	137.50
420-822F [*]	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	151.24
420-824F [*]	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	165.99
420-826F [*]	20X16	14- 1/4	14-13/16	24- 1/4	22-13/16	48- 1/2	45- 5/8	21- 3/16	17	187.90
420-828F [*]	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	212.68
420-901F [*]	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 [*]	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 [*]	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 [*]	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 [*]	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 [*]	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 [*]	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 [*]	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 [*]	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 [*]	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 [*]	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	312.49

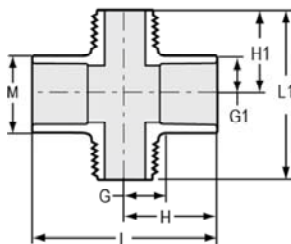
¹ Outlet sized with Bushing
* Fabricated

Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



Cross

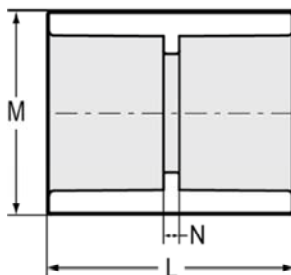
Socket x Mipt x Socket x Mipt



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	L	M	N	Approx. Wt. (Lbs.)
429-003	3/8	2- 5/8	7/8	1/8	.03
429-005	1/2	1-19/32	1- 3/32	3/32	.03
429-005N	1/2	1-5/8	1-1/16	3/32	.02
429-007	3/4	2- 1/8	1- 5/16	3/32	.05
429-007N	3/4	2- 3/32	1- 5/16	3/32	.05
429-010	1	2- 1/8	1-19/32	1/8	.07
429-010N	1	2-3/8	1-21/32	3/32	.09
429-012	1-1/4	2-11/32	1-31/32	3/32	.10
429-015	1-1/2	2- 5/8	2- 7/32	3/32	.14
429-020	2	2- 7/8	2- 3/4	3/32	.20
429-025	2-1/2	3- 3/4	3- 5/16	3/16	.40
429-030	3	3-31/32	4	3/16	.56
429-040	4	4- 1/4	5- 1/32	3/16	.85
429-045F*	4-1/2	6-1/4	5- 7/16	1-1/4	1.45
429-050	5	6- 3/16	6- 1/8	3/16	1.66
429-060	6	6- 5/16	7- 1/4	1/4	2.15
429-080	8	8-11/32	9-11/32	1/4	4.18
429-100	10	10- 3/8	11- 9/16	15/32	7.29
429-100F*	10	12- 3/8	11- 1/2	1- 7/8	8.39
429-120	12	12- 3/8	13-21/32	3/8	11.71
429-120F*	12	14- 3/4	13- 9/16	2- 1/4	13.26
429-140	14	14-13/32	15- 5/8	7/16	27.26
429-140F*	14	16- 1/4	14- 7/8	2- 1/4	17.65
429-160F*	16	18- 5/8	17	2- 5/8	27.00
429-180F*	18	21- 3/4	19- 1/8	3- 3/4	39.45
429-200F*	20	24	21- 3/16	4	52.39
429-240F*	24	29- 1/4	25- 3/8	5- 1/4	82.20

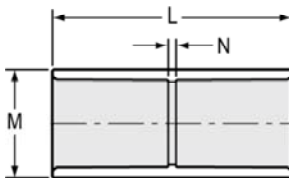
* Fabricated



Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

Coupling - Deep Socket

Socket x Socket

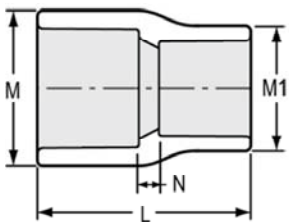


Part Number	Size	L	M	N	Approx. Wt. (Lbs.)
479-005N	1/2	2- 1/2	1- 1/16	3/16	.03
479-007	3/4	2- 7/8	1- 5/16	3/32	.07
479-010	1	3- 5/8	1- 5/8	3/32	.12
479-012	1-1/4	4-3/32	1-31/32	3/32	.18
479-015	1-1/2	4- 5/8	2- 1/4	1/8	.24
479-020	2	5- 3/32	2- 3/4	3/32	.36
479-025	2-1/2	7- 1/2	3- 5/16	1/4	.79
479-030	3	8	4	1/4	1.05
479-040	4	8-5/32	5	3/16	1.53
479-045F*	4-1/2	9-1/2	5-7/16	1-1/2	1.91
479-050F*	5	15-3/4	6-1/16	1-3/4	4.00
479-060F*	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	1/8	.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	15/32	.10
429-168	1-1/4X1	2-11/16	2- 1/8	1- 3/4	5/16	.16
429-210	1-1/2X3/4	2-27/32	2-13/32	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	1-13/32	23/32	.30
429-249	2X1	3- 1/2	2-13/16	2- 5/16	3/4	.32
429-250	2X1-1/4	3- 1/16	2-23/32	1-31/32	17/32	.19
429-251	2X1-1/2	2-13/16	2-27/32	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- 5/8	3-15/32	2- 7/8	7/16	.48
429-335 ¹	3X1	4- 3/16	4- 5/32	2- 7/8	1- 1/4	.91
429-337	3X1-1/2	4- 3/16	4- 5/32	2-29/32	1	.69

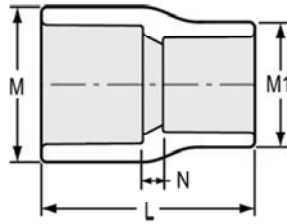
Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



Coupling - Reducer

Socket x Socket

(Continued)



Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
429-338	3X2	4	4- 5/32	2- 7/8	5/8	.74
429-339	3X2-1/2	4- 5/16	4	4	21/32	.56
429-340F*	3X2-1/2	5- 5/8	3- 7/8	3- 1/4	1- 3/8	.68
429-416 ¹	4X3/4	5- 7/32	5- 1/32	2-25/32	2- 3/16	1.03
429-417 ¹	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	5	5- 1/4	4- 1/8	3/4	1.27
429-422	4X3	4- 5/8	5- 1/4	4- 5/32	15/32	1.25
429-422F*	4X3	6-1/2	4-15/16	3-15/16	2	1.07
429-460F*	4-1/2X4	6-11/16	5- 7/16	5	1-15/16	1.27
429-486F*	5X2	8	6-1/16	5-1/16	3-11/16	2.42
429-487F*	5X2-1/2	8-1/16	6-1/16	5	3-5/16	2.53
429-488F*	5X3	8	6- 1/16	5-1/16	3- 1/8	2.29
429-490F*	5X4	7-11/16	6- 1/16	5	2- 7/16	1.58
429-491F*	5X4-1/2	7- 7/16	6- 1/16	5- 7/16	1-15/16	1.69
429-528F*	6X2	9-3/16	7- 1/8	5- 1/16	4- 5/8	2.77
429-530F*	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	1-11/32	2.08
429-532F*	6X4	8-7/8	7-1/8	5	3-3/8	2.04
429-533F*	6X5	8- 5/8	7- 1/8	6- 1/16	2- 3/8	2.29
429-534F*	6X4-1/2	8-11/16	7- 1/8	5- 7/16	2-15/16	2.03
429-578F*	8X2	14-13/16	9- 3/16	5-1/16	9- 1/4	5.75
429-580F*	8X3	14-13/16	9- 3/16	5-1/16	8-11/16	5.71
429-582	8X4	8- 7/16	9-11/32	5- 1/16	2-11/32	3.95
429-582F*	8X4	14-1/2	9-3/16	5	8	4.80
429-583F*	8X5	14- 1/4	9- 3/16	6- 1/16	7	5.16
429-585	8X6	8-13/32	9-11/32	7- 9/32	1-11/32	4.00
429-585F*	8X6	11	9-3/16	7-3/16	3-1/2	3.73
429-621F*	10X2	17-11/16	11- 3/8	5-1/16	11-1/8	8.57
429-623F*	10X3	17-11/16	11- 3/8	5-1/16	10-9/16	7.73
429-624	10X4	10- 7/16	11-17/32	5- 1/16	3-11/32	7.35
429-624F*	10X4	17-3/8	11- 3/8	5	9-7/8	7.18
429-625F*	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- 1/4	7.11
429-626F*	10X6	13- 7/8	11- 3/8	7- 1/4	5- 3/8	6.61
429-628	10X8	10- 7/16	11- 5/8	9- 3/8	1- 3/8	7.07
429-628F*	10X8	13- 1/4	11- 9/16	9- 7/16	3- 3/4	8.95
429-661F*	12X2	24-5/16	13-9/16	5-1/16	16-3/4	16.96
429-663F*	12X3	24-5/16	13-9/16	5-1/16	16-3/16	15.85
429-664F*	12X4	24	13- 9/16	5	15- 1/2	15.20
429-665F*	12X5	23-3/4	13-9/16	6-1/16	14-1/2	16.51

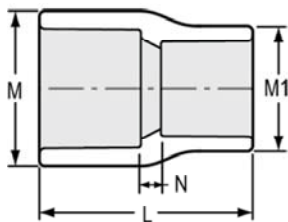


Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information

Coupling - Reducer

Socket x Socket

(Continued)



Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
429-666	12X6	12-13/32	13-21/32	7- 9/32	3- 9/32	10.46
429-666F*	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- 1/4	10.57
429-668F*	12X8	15- 3/4	13- 9/16	9- 7/16	5- 1/4	12.30
429-670	12X10	12-3/8	13-21/32	11-19/32	1-9/32	10.83
429-670F*	12X10	15- 1/8	13- 9/16	11- 9/16	3- 5/8	13.68
429-693F*	14X3	26- 3/16	14-13/16	5-1/16	17- 5/16	18.94
429-694F*	14X4	25- 7/8	14-13/16	5	16- 5/8	17.51
429-696F*	14X6	22- 3/8	14-13/16	7- 1/4	12- 1/8	17.18
429-698F*	14X8	21-3/4	14- 3/4	9-7/16	10-1/2	20.81
429-700F*	14X10	17	14-13/16	11- 9/16	4- 3/4	14.51
429-702F*	14X12	16- 1/2	15	13- 3/4	3- 1/4	19.05
429-751F*	16X2	32-13/16	17	5-1/16	23- 1/2	33.95
429-754F*	16X4	32- 1/2	17	5	22- 1/4	29.72
429-756F*	16X6	29	17	7- 3/16	17- 3/4	30.08
429-758F*	16X8	24- 3/4	17	9- 7/16	12- 1/2	28.87
429-760F*	16X10	24	17	11- 9/16	10- 3/4	30.50
429-762F*	16X12	18- 7/8	17	13- 3/4	4- 5/8	22.64
429-764F*	16X14	18- 1/2	16- 7/8	14- 7/8	3- 1/2	22.84
429-786F*	18X6	38	19	7- 3/16	25- 3/4	50.29
429-788F*	18X8	33- 3/4	19	9- 7/16	20- 1/2	46.36
429-790F*	18X10	33	19	11- 9/16	18- 3/4	46.43
429-792F*	18X12	27- 7/8	19	13-3/4	12- 5/8	44.77
429-794F*	18X14	27- 1/2	19	14- 7/8	11- 1/2	43.64
429-796F*	18X16	21- 5/8	19	17	4- 5/8	30.97
429-814F*	20X4	50- 1/2	21- 1/8	5	38- 1/4	74.00
429-816F*	20X6	47	21- 1/8	7- 3/16	33- 3/4	74.44
429-818F*	20X8	42- 3/4	21- 1/8	9- 7/16	28- 1/2	72.15
429-820F*	20X10	42	21- 1/8	11- 9/16	26- 3/4	82.75
429-822F*	20X12	36- 7/8	21- 1/8	13- 3/4	20- 5/8	76.33
429-824F*	20X14	36- 1/2	21-1/8	14- 7/8	19- 1/2	74.41
429-826F*	20X16	30- 5/8	21- 1/8	17	12- 5/8	58.52
429-828F*	20X18	23- 1/4	21- 1/8	19- 1/8	4- 1/4	46.31
429-906F*	24X6	59- 1/4	25- 3/16	7- 3/16	44	134.11
429-908F*	24X8	55	25- 3/16	9- 7/16	38- 3/4	128.11
429-910F*	24X10	54- 1/4	25- 3/16	11- 9/16	37	129.44
429-912F*	24X12	49- 1/8	25- 3/16	13- 3/4	30- 7/8	108.48
429-914F*	24X14	48- 3/4	25- 3/16	14- 7/8	29- 3/4	106.10
429-916F*	24X16	42- 7/8	25- 3/16	17	22- 7/8	109.43
429-918F*	24X18	35- 1/2	25- 3/16	19- 1/8	14- 1/2	92.14

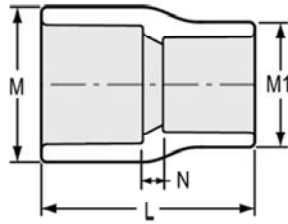
Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



Coupling - Reducer

Socket x Socket

(Continued)



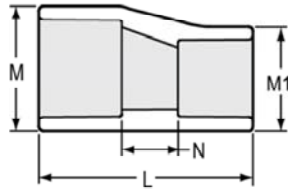
Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
429-920F ⁺	24X20	28- 3/4	25- 3/16	21- 3/16	6- 3/4	68.51

¹ Outlet sized with Bushing

⁺ Fabricated

Coupling - Eccentric Reducer

Socket x Socket



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

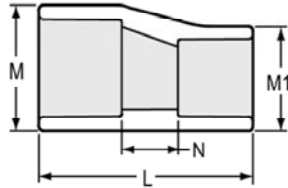


Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information

Coupling - Eccentric Reducer

Socket x Socket

(Continued)



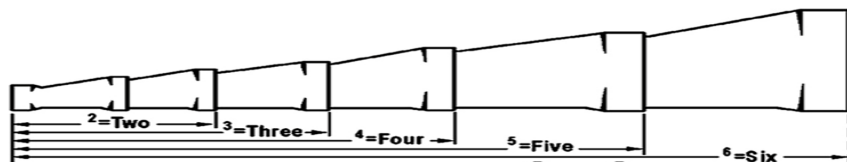
Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
429-529FE ^{3*}	6X2-1/2	19- 7/16	7- 1/8	3- 1/4	14- 3/16	3.76
429-530FE ^{2*}	6X3	16- 5/16	7- 1/8	3-15/16	10-13/16	3.16
429-532E	6X4	8-31/32	7- 9/32	5- 1/32	3-15/16	2.90
429-532FE ⁺	6X4	11- 1/8	7- 1/8	5	5- 5/8	2.27
429-533FE ⁺	6X5	10- 5/8	7- 1/8	6- 1/16	4-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

* Fabricated

Eccentric Reducer Coupling Footnotes

Multi-Step Configurations

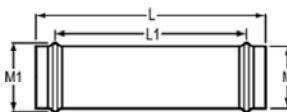
The number after the part number denotes steps listed below.



Example: 429-582 FE² (2 = 2 Step)

Repair Coupling, Schedule 40 Fabricated

Gasket x Gasket

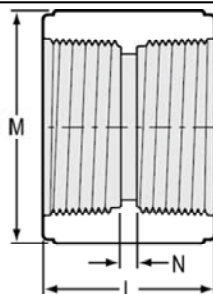


Part Number	Size	L	L1	M	M1	Approx. Wt. (Lbs.)
428-020F*	2	9- 1/8	6	2-11/16	3- 1/16	.71
428-030F*	3	15- 1/2	11- 3/4	3-15/16	4- 9/16	2.53
428-040F*	4	19- 1/2	15	5	5- 5/8	4.18
428-060F*	6	23	18-1/4	7-3/16	7-13/16	8.33
428-080F*	8	26- 1/8	21-1/2	9-1/16	9-13/16	14.00
428-100F*	10	27	22-1/8	11-1/2	12-11/16	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	66.97
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

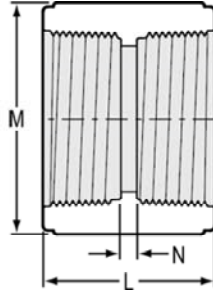


Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

Coupling

Fipt x Fipt

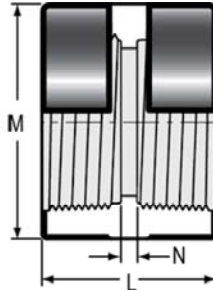
(Continued)



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- 3/16	2- 9/32	3/16	.20

Coupling - Special Reinforced

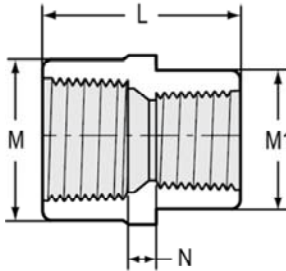
SR Fipt x SR Fipt - Stainless Steel Collar



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	1-29/32	1- 3/8	3/32	.07
430-010SR	1	1-15/16	1-23/32	1/16	.13
430-012SR	1-1/4	2- 1/16	2- 1/16	3/16	.18
430-015SR	1-1/2	2- 3/16	2- 7/16	1/4	.27
430-020SR	2	2- 1/4	3	1/4	.41

Coupling - Reducer

Fipt x Fipt



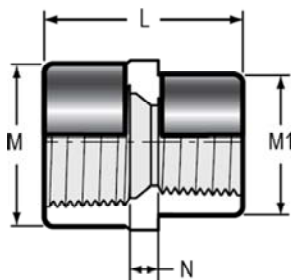
Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
430-101	3/4X1/2	1-11/16	1- 3/8	1- 3/16	1/4	.06

Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



Coupling - Special Reinforced Reducer

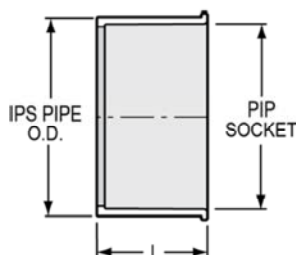
SR Fipt x SR Fipt - Stainless Steel Collar



Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
430-101SR	3/4X1/2	1- 3/4	1- 3/8	1- 7/32	1/4	.08

IPS to PIP Adapter

Spigot x Socket

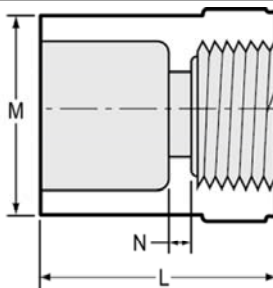


Part Number	Size	L	Approx. Wt. (Lbs.)
431-060	6	3- 9/16	.93
431-080	8	4-21/32	1.43
431-100F*	10	5- 5/8	2.53
431-120F*	12	6- 3/4	3.61

* 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- 1/8	1- 1/8	1/8	.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	1/16	.11
435-015	1-1/2	2- 5/16	2- 7/32	3/32	.13
435-020	2	2- 1/2	2- 3/4	1/8	.19
435-025	2-1/2	3- 1/4	3- 5/16	3/16	.42
435-030	3	3- 1/2	4	1/4	.55
435-040	4	3-23/32	5- 1/32	3/16	.81

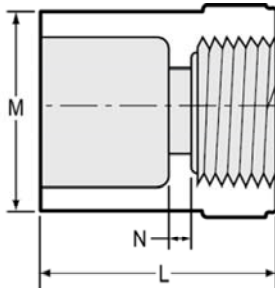


Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information

Female Adapter

Socket x Fipt

(Continued)



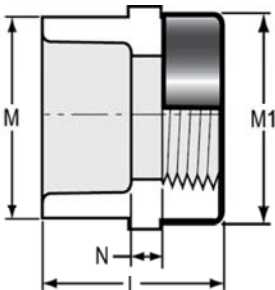
Part Number	Size	L	M	N	Approx. Wt. (Lbs.)
435-050	5	5- 1/16	6- 5/16	3/16	1.46
435-060	6	5- 3/4	7- 3/16	5/16	2.10
435-080	8	6-15/16	9- 3/8	7/16	3.87
435-100F*	10	10- 1/4	11-15/16	3	10.88
435-120F*	12	11-1/2	14- 1/8	3	16.20

"D" prefix indicates Deep Socket Adapter

* Fabricated

Female Adapter - Special Reinforced

Socket x SR Fipt - Stainless Steel Collar



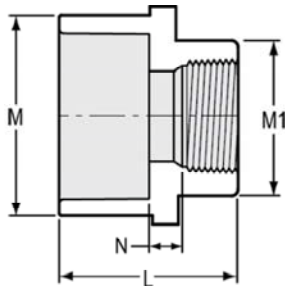
Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
435-002SR	1/4	1- 5/16	13/16	13/16	5/32	.02
435-003SR	3/8	1- 7/16	15/16	15/16	1/16	.03
435-005SR	1/2	1-23/32	1- 3/16	1- 3/16	3/32	.06
435-007SR	3/4	1- 7/8	1-13/32	1- 3/8	3/32	.07
435-010SR	1	2- 1/8	1- 3/4	1- 3/4	1/8	.12
435-012SR	1-1/4	2- 5/16	2- 3/32	2- 3/32	1/8	.18
435-015SR	1-1/2	2- 7/16	2- 7/16	2- 7/16	1/8	.27
435-020SR	2	2-11/16	3	3	1/4	.43
435-025SR	2-1/2	3- 1/4	3- 9/16	3- 9/16	1/4	.66
435-030SR	3	3- 1/2	4- 9/32	4- 5/16	5/16	.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



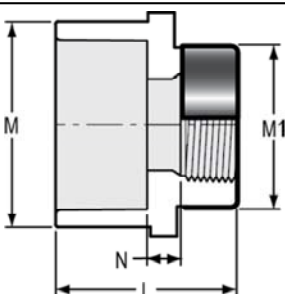
Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
435-072	1/2X1/4	1-19/32	1- 3/32	13/16	1/4	.03
435-073	1/2X3/8	1-17/32	1- 3/32	15/16	3/16	.03
435-074	1/2X3/4	1-19/32	1- 3/32	1- 5/16	3/16	.04
435-098	3/4X1/4	1-15/16	1-13/32	27/32	13/32	.05
435-101	3/4X1/2	1-13/16	1- 5/16	1- 1/8	3/32	.04
435-102	3/4X1	1-15/16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

¹ Outlet sizes with Threaded Adapter

* Fabricated

Female Adapter - Special Reinforced Reducing

Socket x SR Fipt - Stainless Steel Collar



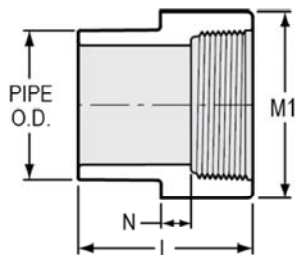
Part Number	Size	L	M	M1	N	Approx. Wt. (Lbs.)
435-072SR	1/2X1/4	1- 5/8	1- 3/32	27/32	1/4	.03
435-073SR	1/2X3/8	1-17/32	1-3/32	31/32	3/16	.03
435-074SR	1/2X3/4	1- 3/4	1- 3/16	1- 3/8	1/8	.07
435-098SR	3/4X1/4	1-15/16	1-13/32	27/32	13/32	.06
435-101SR	3/4X1/2	1- 7/8	1- 3/8	1- 3/16	1/4	.07
435-102SR	3/4X1	2- 1/16	1-13/32	1-23/32	1/4	.11
435-130SR	1X1/2	2	1-11/16	1- 3/16	7/32	.10
435-131SR	1X3/4	2- 1/16	1- 3/4	1- 3/8	3/16	.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

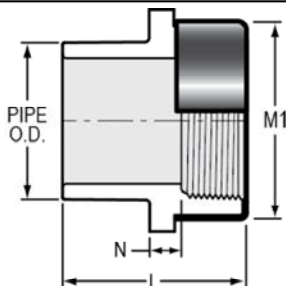
Spigot x Fipt



Part Number	Size	L	M1	N	Approx. Wt. (Lbs.)
478-005	1/2	1-19/32	1- 3/32	1/32	.03
478-007	3/4	1-15/16	1- 3/8	5/32	.05
478-010	1	2- 7/16	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	7/32	.16
478-020	2	2- 3/4	2-27/32	3/16	.20
478-030	3	3- 7/8	4	9/32	.56
478-040	4	4	5	3/8	.82

Female Spigot Adapter - Special Reinforced

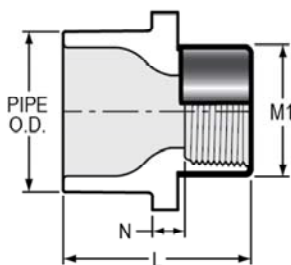
Spigot x SR Fipt - Stainless Steel Collar



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	11/32	.07
478-010SR	1	2- 1/4	1-23/32	5/16	.12
478-012SR	1-1/4	2- 7/16	2- 1/16	3/8	.17
478-015SR	1-1/2	2- 5/8	2-13/32	13/32	.25
478-020SR	2	2-13/16	3	3/8	.38
478-030SR	3	3-13/16	4- 1/4	15/32	.91
478-040SR	4	4- 3/8	5- 7/32	9/16	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- 3/8	27/32	3/16	.02
478-098SR	3/4X1/4	2- 1/16	27/32	1/2	.05

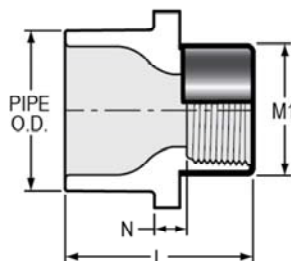
Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



**Female Spigot Adapter -
Special Reinforced Reducing**

Spigot x SR Fipt - Stainless Steel Collar

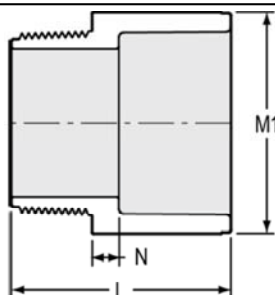
(Continued)



Part Number	Size	L	M1	N	Approx. Wt. (Lbs.)
478-128SR	1X1/4	2- 3/8	27/32	11/16	.08

Male Adapter

Mipt x Socket



Part Number	Size	L	M1	N	Approx. Wt. (Lbs.)
436-003	3/8	1- 3/8	7/8	7/32	.01
436-005	1/2	1-17/32	1- 1/8	5/32	.02
436-007	3/4	1-23/32	1- 5/16	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	3/16	.11
436-015	1-1/2	2-17/32	2- 1/4	3/16	.14
436-020	2	2-5/8	2-3/4	3/16	.20
436-025	2-1/2	3-13/16	3-13/32	9/32	.43
436-030	3	3-25/32	3-31/32	9/32	.56
436-040	4	4- 1/32	5- 1/8	9/32	.83
436-050	5	5- 5/32	6- 1/4	5/16	1.41
436-060	6	5-3/4	7- 9/32	3/4	2.33
436-080	8	6-15/16	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

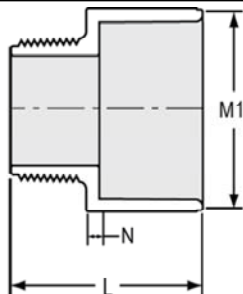
* Fabricated



Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

Male Adapter - Reducing

Mipt x Socket

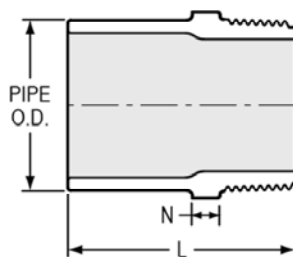


Part Number	Size	L	M1	N	Approx. Wt. (Lbs.)
436-053	3/8X1/2	1-11/16	1- 3/16	1/4	.03
436-073	1/2X3/8	1-17/32	15/16	1/8	.02
436-074	1/2X3/4	1-25/32	1-11/32	5/32	.04
436-075	1/2X1	2- 9/32	1- 5/8	17/32	.06
436-101	3/4X1/2	1-17/32	1- 1/8	3/32	.02
436-102	3/4X1	1-15/16	1-21/32	3/16	.06
436-131	1X3/4	1-15/16	1- 1/2	3/16	.05
436-132	1X1-1/4	2- 1/4	2-5/32	7/32	.10
436-133	1X1-1/2	2- 3/8	2- 1/4	1/4	.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- 7/16	3/16	.13
436-212	1-1/2X1-1/4	2-15/32	2	7/32	.12
436-213	1-1/2X2	2- 5/8	2- 3/4	15/32	.21
436-251	2X1-1/2	2- 9/16	2- 7/32	3/16	.18
436-252	2X2-1/2	3- 3/32	3- 5/16	1/4	.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	7/8	.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



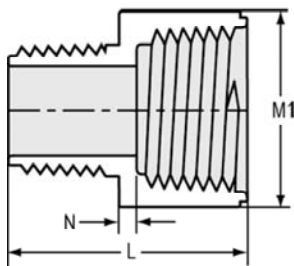
Part Number	Size	L	N	Approx. Wt. (Lbs.)
461-005	1/2	1-11/16	11/32	.02
461-007	3/4	2	13/32	.03
461-010	1	2- 1/4	11/32	.06
461-131	1X3/4	1-15/16	1/4	.05
461-012	1-1/4	2- 9/32	9/32	.09
461-015	1-1/2	2- 7/16	5/16	.12
461-020	2	2- 9/16	3/8	.18

Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



IPT Adapter

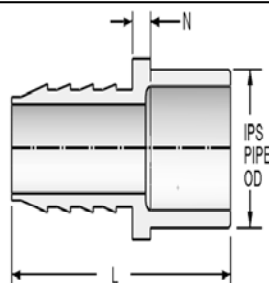
Mipt x Fipt



Part Number	Size	L	M1	N	Approx. Wt. (Lbs.)
446-003	3/8	1-13/32	29/32	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	1-17/32	1- 5/16	5/32	.03

Insert Adapter (White PVC)

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



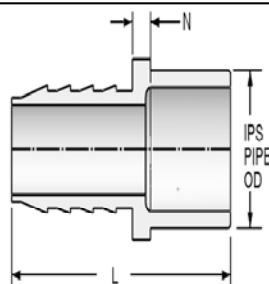
Part Number	Size	L	N	Approx. Wt. (Lbs.)
460-012N	1-1/4X1-1/4X1	3	9/32	.11
460-131N	3/4X1X3/4	2- 7/8	5/8	.06
460-132N	1X1-1/4X1	3	5/16	.10

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

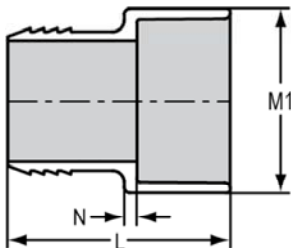
Part Number	Size	L	N	Approx. Wt. (Lbs.)
460-005	1/2	2- 7/16	7/32	.02
460-007	3/4	2-23/32	5/32	.04
460-010	1	2- 9/16	1/16	.05
460-012	1-1/4	3- 1/32	1/4	.10
460-015	1-1/2	3-1/4	3/16	.11
460-020	2	3- 1/2	3/8	.20
460-030	3	4-17/32	13/32	.57
460-040	4	5-11/32	5/16	.72
1432-060	6	7-27/32	1	1.70
1432-080*	8	9- 7/8	N/A	7.10



Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

Insert Adapter (White PVC)

Insert x Socket

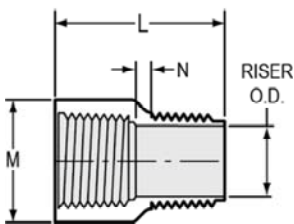


Part Number	Size	L	M1	N	Approx. Wt. (Lbs.)
474-005	1/2	2- 3/8	1- 1/16	1/8	.03
474-007	3/4	2- 7/16	1- 5/16	5/32	.04
474-010	1	2- 5/8	1- 5/8	1/8	.07
474-012	1-1/4	2-11/16	2	3/16	.10
474-015	1-1/2	3- 1/16	2- 1/4	3/16	.13
474-020	2	3	2-13/16	3/16	.16
474-030	3	4- 3/4	4	5/16	.50
474-040	4	5- 5/8	5	3/8	.81
474-060F*	6	8	7-3/16	1-1/16	3.11
474-080F*	8	11	9-11/16	2-3/16	9.23

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

Riser Extension

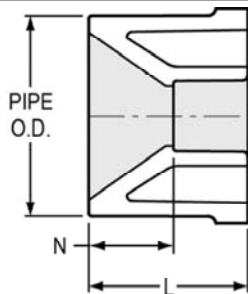
Fipt x Mipt



Part Number	Size	L	M	N	Approx. Wt. (Lbs.)
434-005	1/2	1- 1/2	1- 1/8	1/8	.02
434-007	3/4	1-17/32	1- 5/16	5/32	.03
434-010	1	1-29/32	1- 5/8	5/32	.07

Reducer Bushing Flush Style

Spigot x Socket



¹ Sized with Bushing
* Fabricated

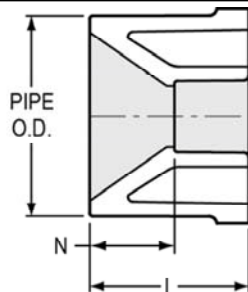
Part Number	Size	L	N	Approx. Wt. (Lbs.)
437-052	3/8X1/4	31/32	5/16	.01
437-072	1/2X1/4	1- 3/32	13/32	.02
437-073	1/2X3/8	7/8	3/8	.01
437-101	3/4X1/2	1- 1/16	9/32	.01

Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



**Reducer Bushing
 Flush Style**

Spigot x Socket



¹ Sized with Bushing
 * Fabricated

(Continued)

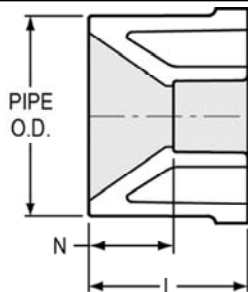
Part Number	Size	L	N	Approx. Wt. (Lbs.)
437-130	1X1/2	1- 1/4	15/32	.04
437-131	1X3/4	1- 1/4	5/16	.03
437-166	1-1/4X1/2	1-13/32	21/32	.08
437-167	1-1/4X3/4	1- 1/2	9/16	.11
437-168	1-1/4X1	1- 1/2	7/16	.06
437-209	1-1/2X1/2	1-15/32	23/32	.10
437-210	1-1/2X3/4	1- 7/16	7/16	.11
437-211	1-1/2X1	1-17/32	1/2	.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	.18
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- 3/16	1- 1/8	.36
437-291	2-1/2X1-1/2	2- 5/32	1- 3/16	.29
437-292	2-1/2X2	2- 1/16	11/16	.23
437-333	3X1/2	2-3/16	1-7/16	.52
437-334	3X3/4	2- 5/16	1- 5/16	.49
437-335	3X1	2- 7/32	1- 1/4	.48
437-336	3X1-1/4	2- 9/32	1- 1/32	.48
437-337	3X1-1/2	2- 9/32	31/32	.47
437-338	3X2	2- 7/32	9/16	.46
437-339	3X2-1/2	2- 7/32	7/16	.37
437-417 ¹	4X1	2-19/32	1-9/16	1.02
437-418 ¹	4X1-1/4	2-19/32	1-7/16	1.04
437-419	4X1-1/2	2-9/16	1-3/16	1.01
437-420	4X2	2-13/32	1- 1/32	.85
437-421	4X2-1/2	2- 5/16	9/16	.75
437-422	4X3	2-11/32	15/32	.78
437-486	5X2	3-13/32	2- 1/32	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- 5/8	2.21
437-532	6X4	3- 9/16	1- 1/2	2.09
437-534	6X5	3-17/32	7/8	1.94
437-578 ¹	8X2	5	3- 5/8	5.12
437-580 ¹	8X3	5- 1/4	3- 1/4	5.05
437-582	8X4	4-17/32	2- 1/2	4.26
437-583 ¹	8X5	4- 3/4	1- 3/4	5.93



Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information

**Reducer Bushing
Flush Style**

Spigot x Socket



(Continued)

¹ Sized with Bushing
* Fabricated

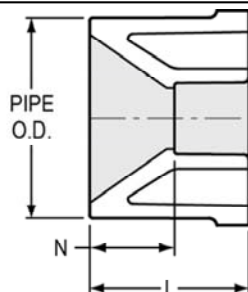
Part Number	Size	L	N	Approx. Wt. (Lbs.)
437-585	8X6	4-13/32	1- 3/8	3.99
437-623 ¹	10X3	6	3-17/32	9.36
437-624 ¹	10X4	6	3- 3/4	8.85
437-626	10X6	5- 11/32	2- 5/16	6.76
437-628	10X8	5- 11/32	1- 5/16	7.19
437-666 ¹	12X6	6-11/16	3- 3/4	15.00
437-621 ¹	10X2	6	4	10.02
437-666F*	12X6	6-5/16	3-5/16	18.74
437-668	12X8	6- 1/2	2- 7/16	11.01
437-670	12X10	6- 11/32	1- 9/32	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	97.95
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



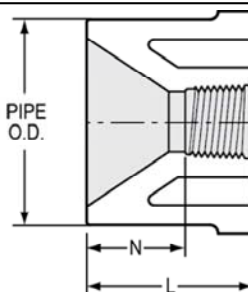
¹ Sized with Bushing
 * Fabricated

(Continued)

Part Number	Size	L	N	Approx. Wt. (Lbs.)
437-920F [*]	24X20	12	2	80.38

Reducer Bushing Flush Style

Spigot x Fipt



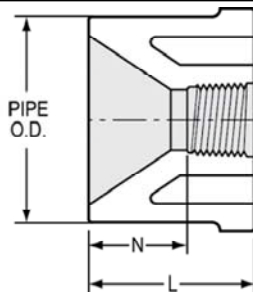
Part Number	Size	L	N	Approx. Wt. (Lbs.)
438-052	3/8X1/4	31/32	3/8	.01
438-071	1/2X1/8	1	9/16	.01
438-072	1/2X1/4	1- 1/32	7/16	.02
438-073	1/2X3/8	1	7/16	.01
438-098	3/4X1/4	1- 7/32	5/8	.04
438-101	3/4X1/2	1- 1/4	1/2	.02
438-127	1X1/8	1- 3/8	13/16	.05
438-128	1X1/4	1-13/32	25/32	.06
438-129	1X3/8	1-13/32	19/32	.06
438-130	1X1/2	1-11/32	19/32	.05
438-131	1X3/4	1- 1/16	3/8	.03
438-166	1-1/4X1/2	1-15/32	23/32	.09
438-167	1-1/4X3/4	1-15/32	23/32	.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	1-19/32	15/16	.18
438-209	1-1/2X1/2	1-23/32	31/32	.16
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- 7/8	1- 5/32	.25
438-249	2X1	1- 7/8	1	.25
438-250	2X1-1/4	1- 5/8	13/16	.18
438-251	2X1-1/2	1-19/32	5/8	.14
438-287	2-1/2X1/2	2- 3/8	1- 5/8	.41
438-288	2-1/2X3/4	2- 3/8	1- 9/16	.44
438-289	2-1/2X1	2- 5/32	1- 1/4	.33
438-290	2-1/2X1-1/4	2- 3/8	1- 3/8	.42



Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information

Reducer Bushing Flush Style

Spigot x Fipt

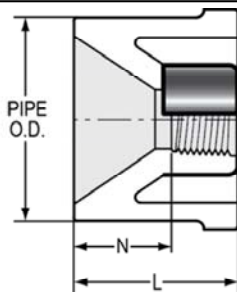


(Continued)

Part Number	Size	L	N	Approx. Wt. (Lbs.)
438-291	2-1/2X1-1/2	2- 3/8	1- 3/8	.34
438-292	2-1/2X2	2- 1/16	1- 1/16	.25
438-334	3X3/4	2- 9/32	1- 9/16	.57
438-335	3X1	2- 1/4	1-11/32	.58
438-336	3X1-1/4	2- 1/4	1- 5/16	.53
438-337	3X1-1/2	2- 1/4	1- 1/4	.58
438-338	3X2	2- 3/16	1- 7/32	.56
438-339	3X2-1/2	2- 3/8	3/4	.45
438-420	4X2	2-13/32	1-13/32	.77
438-421	4X2-1/2	2-21/32	1- 3/32	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



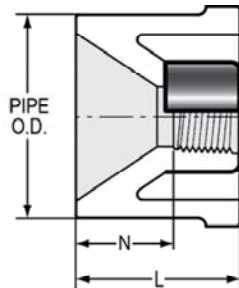
Part Number	Size	L	N	Approx. Wt. (Lbs.)
438-128SR	1X1/4	1-13/32	25/32	.07
438-207SR	1-1/2X1/4	1-19/32	15/16	.12
438-209SR	1-1/2X1/2	1-11/16	15/16	.16
438-210SR	1-1/2X3/4	1- 9/16	7/8	.14
438-247SR	2X1/2	1-29/32	1- 5/32	.25
438-248SR	2X3/4	1- 7/8	1- 1/8	.25
438-249SR	2X1	1-29/32	31/32	.26
438-334SR	3X3/4	2- 1/4	1- 1/2	.57
438-335SR	3X1	2- 1/4	1-11/32	.59
438-336SR	3X1-1/4	2- 1/4	1- 5/16	.58
438-337SR	3X1-1/2	2- 1/4	1- 3/8	.67
438-420SR	4X2	2-13/32	1-13/32	.85
438-528SR	6X2	3- 5/16	2- 9/32	2.64
438-530SR	6X3	3- 9/32	1- 7/8	2.71

Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



Reducer Bushing - Special Reinforced Flush Style

Spigot x SR Fipt - Stainless Steel Collar

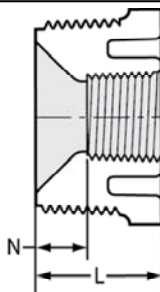


(Continued)

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



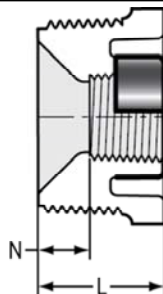
Part Number	Size	L	N	Approx. Wt. (Lbs.)
439-052	3/8X1/4	13/16	1/4	.01
439-071	1/2X1/8	27/32	13/32	.01
439-072	1/2X1/4	29/32	3/8	.01
439-073	1/2X3/8	15/16	3/8	.01
439-098	3/4X1/4	1- 1/32	15/32	.03
439-099	3/4X3/8	1- 1/32	7/16	.03
439-101	3/4X1/2	15/16	3/16	.01
439-128	1X1/4	1- 1/8	17/32	.04
439-130	1X1/2	1- 1/16	5/16	.04
439-131	1X3/4	1- 1/8	13/32	.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	19/32	.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	1-29/32	7/8	.21
439-337	3X1-1/2	1-15/16	29/32	.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

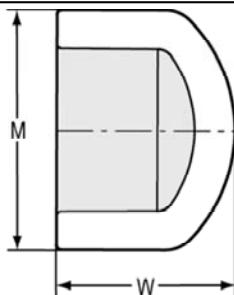
Mipt X SR Fipt - Stainless Steel Collar



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	21/32	.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	7/8	1	.01
447-005	1/2	1- 3/32	1- 1/16	.02
447-007	3/4	1- 5/16	1-9/32	.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- 9/16	.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- 13/32	2.22
447-080	8	9-3/8	6-31/32	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	14.03
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	41.68

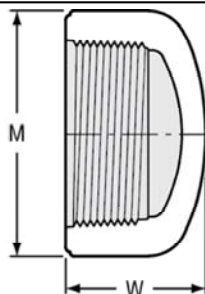
* Fabricated

Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



Cap

Fipt

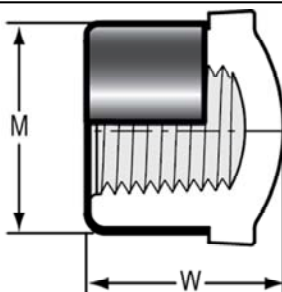


Part Number	Size	M	W	Approx. Wt. (Lbs.)
448-003	3/8	15/16	25/32	.01
448-005	1/2	1- 1/8	1- 1/32	.02
448-007	3/4	1-11/32	1- 1/16	.03
448-010	1	1- 5/8	1- 5/16	.05
448-012	1-1/4	2- 1/16	1-7/16	.09
448-015	1-1/2	2-9/32	1-9/16	.11
448-020	2	2- 3/4	1-23/32	.16
448-025	2-1/2	3- 9/32	2- 5/16	.34
448-030	3	4	2-13/32	.50
448-040	4	5- 5/32	2-13/16	.81
448-050	5	6-11/32	3-3/16	1.51
448-060	6	7- 5/16	3- 5/32	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

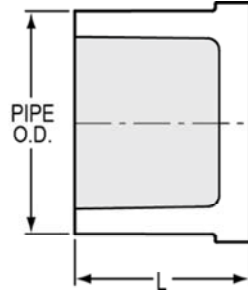


Part Number	Size	M	W	Approx. Wt. (Lbs.)
448-012SR	1-1/4	2- 1/16	1- 3/8	.12



Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

Plug Spigot

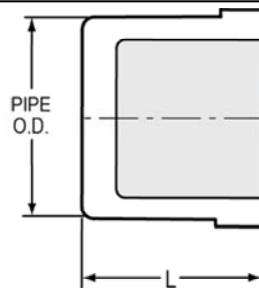


Part Number	Size	L	Approx. Wt. (Lbs.)
449-003	3/8	31/32	.01
449-005	1/2	7/8	.01
449-007	3/4	1- 1/8	.02
449-010	1	1- 3/8	.04
449-012	1-1/4	1-17/32	.08
449-015	1-1/2	1- 5/8	.10
449-020	2	1- 3/4	.16
449-025	2-1/2	2- 3/8	.34
449-030	3	2- 3/32	.38
449-040	4	2- 5/8	.76
449-060	6	3- 1/2	1.74
449-060F ⁴ *	6	10-1/4	4.85
449-080F ⁴ *	8	11-13/16	8.83
449-100F ⁴ *	10	11- 1/4	11.98
449-120F ⁴ *	12	13- 7/8	18.15
449-140F ⁴ *	14	15- 3/8	23.71
449-160F ⁴ *	16	18	32.07
449-180F ⁴ *	18	19	44.05
449-200F ⁴ *	20	23- 1/4	68.13
449-240F ⁴ *	24	27- 1/8	105.12

⁴ Plug fabricated using Cap and pipe spigot.

* Fabricated

Plug - Counter Sunk Spigot



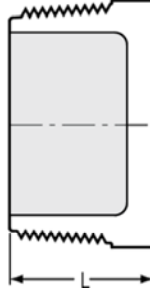
Part Number	Size	L	Approx. Wt. (Lbs.)
449-007CS	3/4	1- 1/4	.03
449-010CS	1	1- 5/32	.05

Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



Plug

Mipt



Part Number	Size	L	Approx. Wt. (Lbs.)
450-003	3/8	25/32	.01
450-005	1/2	13/16	.01
450-007	3/4	7/8	.02
450-010	1	1- 1/16	.04
450-012	1-1/4	1- 9/32	.06
450-015	1-1/2	1-11/32	.09
450-020	2	1- 3/8	.14
450-025	2-1/2	1-31/32	.26
450-030	3	1- 7/8	.38
450-040	4	2- 1/8	.72
450-060	6	2- 1/16	1.70
450-080	8	2-3/8	3.25
450-080F ^{4*}	8	9-7/8	9.29
450-100F ^{4*}	10	8- 1/2	12.68
450-120F ^{4*}	12	10- 7/8	19.68

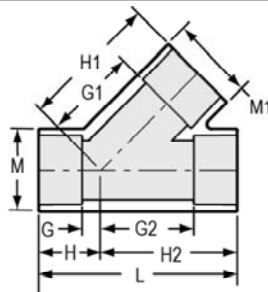
⁴ Plug fabricated using Cap and threaded pipe.

* Fabricated

Wye

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- 1/8	2- 1/16	2- 1/16	3- 3/16	1- 5/32	1- 5/32	.12
475-007	3/4	5/16	1- 3/8	1- 3/8	1- 5/16	2- 3/8	2- 3/8	3-23/32	1- 3/8	1- 3/8	.18
475-010	1	7/16	1- 7/8	1- 7/8	1- 1/2	2-29/32	2-29/32	4-13/32	1- 5/8	1- 5/8	.22
475-012	1-1/4	3/8	2- 1/4	2- 1/4	1- 5/8	3- 1/2	3- 1/2	5- 1/8	2- 1/16	2- 1/16	.50
475-015	1-1/2	9/16	2-19/32	2-19/32	1- 7/8	3-29/32	3-29/32	5-25/32	2- 7/32	2- 7/32	.46
475-020	2	7/16	3- 5/16	3- 5/16	1-31/32	4-11/16	4-11/16	6- 5/8	2-23/32	2-23/32	.69
475-025	2-1/2	11/16	4- 5/32	4- 3/32	2- 7/16	5-29/32	5-27/32	8- 9/32	3-11/32	3-11/32	1.39
475-030	3	7/8	4- 7/8	4-25/32	2- 3/4	6- 3/4	6-21/32	9-13/32	4	4	2.00
475-040	4	1- 1/4	5- 7/8	5- 7/8	3- 9/32	7-29/32	7- 7/8	11- 5/16	5- 1/32	5- 1/32	3.39
475-050F ^{2*}	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- 5/32	8-25/32	8- 3/16	4- 3/16	11-25/32	11- 3/16	15- 3/8	7- 9/16	7- 9/16	12.00
475-080	8	1-15/16	11-11/32	11-11/32	5-31/32	15-11/32	15-11/32	21- 5/16	9- 3/4	9- 3/4	25.22
475-100	10	2-13/32	14	14	7-13/32	19	19	26-13/32	11-19/32	11-19/32	26.77
475-100F ^{2*}	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	2-11/16	16- 1/8	16- 7/32	8- 3/4	22- 7/32	22- 9/32	31- 1/32	13-21/32	13-21/32	42.68

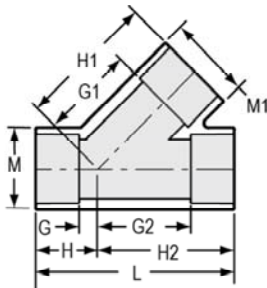


Schedule 40 Fittings Technical Schedule 40 Fittings Dimensions & Information

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)



(Continued)

Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	Approx. Wt. (Lbs.)
475-120F ^{2*}	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 ^{2*}	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 ^{2*}	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 ^{2*}	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 ^{2*}	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	196.91
475-240F ^{2*}	24	11	35	35	23	47	47	70	25- 3/8	25- 3/8	327.00

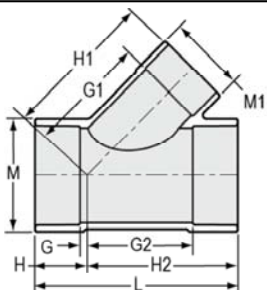
² Fiberglass reinforced.

* 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. (Lbs.)
475-101 ¹	3/4X1/2	5/16	2- 5/32	1- 3/8	1- 5/16	2-15/16	2- 3/8	3-11/16	1- 3/8	1- 3/8	.20
475-131 ¹	1X3/4	11/32	2	1- 3/4	1-15/32	3- 9/32	2- 7/8	4-11/32	1-23/32	1-23/32	.26
475-167 ¹	1-1/4X3/4	3/8	2- 3/4	2- 1/4	1- 5/8	3- 3/4	3- 1/2	5- 1/8	2- 1/16	2- 1/16	.61
475-168 ¹	1-1/4X1	3/8	2- 5/8	2- 1/4	1- 5/8	3- 3/4	3- 1/2	5- 1/8	2- 1/16	2- 1/16	.56
475-210 ¹	1-1/2X3/4	1/2	3- 1/2	2- 9/16	1- 7/8	4- 1/2	3-15/16	5-13/16	2-11/32	2-11/32	.58
475-211 ¹	1-1/2X1	1/2	3	2- 9/16	1- 7/8	4- 5/32	3-15/16	5-13/16	2-11/32	2-11/32	.58
475-212 ¹	1-1/2X1-1/4	1/2	3- 1/4	2- 9/16	1- 7/8	4- 1/2	3-15/16	5-13/16	2-11/32	2-11/32	.52
475-248 ¹	2X3/4	5/8	4- 1/4	3- 1/4	2- 1/8	5- 1/8	4- 3/4	6- 7/8	2- 7/8	2- 7/8	.85
475-249 ¹	2X1	15/32	4- 3/32	3-11/32	2	5- 1/8	4- 7/8	6- 7/8	2- 7/8	2- 7/8	.86
475-251 ¹	2X1-1/2	19/32	3- 7/16	3- 7/32	2- 1/8	4- 7/8	4- 3/4	6- 7/8	2- 7/8	2- 7/8	.82
475-292 ¹	2-1/2X2	1	5- 9/16	4- 1/2	3	6-15/16	6- 1/2	9- 9/16	4- 3/16	4- 3/16	3.22
475-335 ¹	3X1	11/16	5- 7/8	4- 7/32	2- 9/16	6-15/16	6- 1/8	8-23/32	4- 3/16	4- 3/16	2.49
475-336 ¹	3X1-1/4	7/8	5- 3/4	4- 1/8	2- 3/4	7	6	8- 3/4	4- 3/16	4- 3/16	2.49
475-337 ¹	3X1-1/2	1- 1/16	5-19/32	4-19/32	2-15/16	6-29/32	6-15/32	9-13/32	4	4	2.48
475-338 ¹	3X2	3/4	5- 9/16	4- 1/4	2- 5/8	6-15/16	6- 1/8	8- 3/4	4- 3/16	4- 3/16	2.47
475-339 ¹	3X2-1/2	7/8	4- 1/8	4-21/32	2- 3/4	6- 3/4	6	8- 3/4	4- 3/16	4- 3/16	2.37
475-420	4X2	1/8	4-13/16	4- 5/16	1- 7/8	6- 3/16	6- 5/16	8- 3/16	5- 1/32	2-23/32	1.98
475-422 ¹	4X3	5/8	5- 5/16	5- 1/8	2- 5/8	7- 7/32	7- 1/8	9- 3/4	5- 1/32	4	2.66
475-488F ^{2*}	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 ^{2*}	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 ¹	6X2	1/16	8- 5/8	6- 5/8	3	10	6-11/16	12-11/16	7- 9/16	4- 3/4	9.70

Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



Wye - Reducing

Socket x Socket x Socket

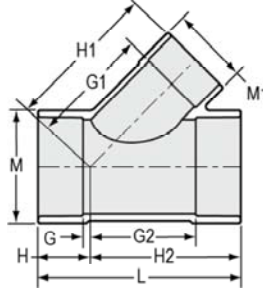
1/2" - 2" - 235 psi Maximum Internal Pressure

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)



(Continued)

Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	Approx. Wt. (Lbs.)
475-530 ¹	6X3	1/32	8- 1/4	6-21/32	3- 1/32	10- 1/4	9-21/32	12-11/16	7- 9/16	5- 7/16	9.62
475-532	6X4	31/32	6- 9/16	5-11/16	3-15/16	8-27/32	8-23/32	12-21/32	7- 9/16	5- 7/16	8.84
475-578F ^{2*}	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	11.90
475-579F ^{2*}	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 ^{2*}	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	11/16	9-1/8	8-3/16	3-5/16	11-3/8	12-3/16	15-1/2	9-23/32	5-1/4	14.81
475-582F ^{2*}	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 ^{2*}	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 ^{2*}	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 ^{2*}	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 ^{2*}	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 ^{2*}	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	12	11	4-13/16	15	16	20- 25/32	12- 1/16	7-21/32	28.18
475-626F ^{2*}	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	1-7/8	12-5/8	11-15/16	6-15/16	16-5/8	16-15/16	23-13/16	12- 1/32	9-3/4	34.14
475-628F ^{2*}	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 ^{2*}	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 ^{2*}	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 ^{2*}	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 ^{2*}	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 ^{2*}	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 ^{2*}	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 ^{2*}	14X2	2	13- 7/16	12	5	15- 3/16	19	24	14- 7/8	2-11/16	29.36
475-693F ^{2*}	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 ^{2*}	14X4	0	15- 9/16	14	7	17-13/16	21	28	14- 7/8	5	37.44
475-696F ^{2*}	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 ^{2*}	14X8	3	17-15/16	17	10	22- 3/16	24	34	14- 7/8	9- 1/8	52.01
475-700F ^{2*}	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 ^{2*}	14X12	7	20-15/16	21	14	27- 3/16	28	42	14- 7/8	13- 9/16	74.55
475-751F ^{2*}	16X2	2	14- 3/4	14	6	16- 1/2	22	28	17	2-11/16	46.49
475-753F ^{2*}	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 ^{2*}	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 ^{2*}	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 ^{2*}	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 ^{2*}	16X10	4	20- 5/16	20	12	25- 9/16	28	40	17	11- 1/2	80.02
475-762F ^{2*}	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 ^{2*}	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 ^{2*}	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 ^{2*}	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 ^{2*}	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

Socket x Socket x Socket

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

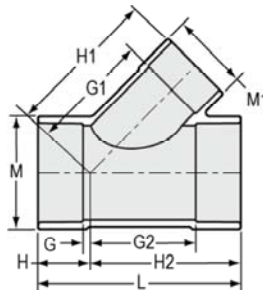
Rating @ 73°F (23°C) 2-1/2" - 6" - 150 psi

Maximum Internal Pressure Rating @ 73°F (23°

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

Maximum Internal Pressure Rating @ 73°F (23°

C)



(Continued)

Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	Approx. Wt. (Lbs.)
475-786F ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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	71.01
475-813F ²	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	73.50
475-814F ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	24X14	4	27- 7/8	28	16	34- 7/8	40	56	25- 3/8	14- 7/8	180.61
475-916F ²	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 ²	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 ²	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

¹ Sized with Bushing

² Fiberglass reinforced.

* Fabricated

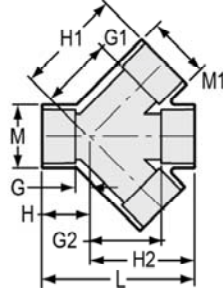
Schedule 40 Fittings Technical
Schedule 40 Fittings Dimensions & Information



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. (Lbs.)
476-020F ²	2	3-7/8	5-5/8	6-1/4	5-5/16	7	7-11/16	11- 3/4	2- 3/4	2- 3/4	3.52
476-030F ²	3	4- 7/8	8- 3/8	8- 3/8	6- 3/4	10- 1/4	10- 1/4	17	4	4	7.85
476-040F ²	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 ²	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 ²	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 ²	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 ²	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 ²	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

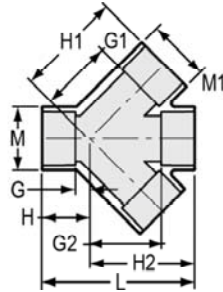
² Fiberglass reinforced.

* 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. (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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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	11.74
476-580F ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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

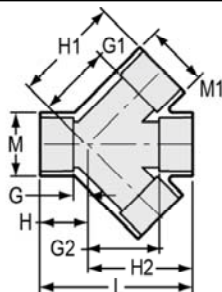


Double Wye - Reducing

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)

(Continued)



Part Number	Size	G	G1	G2	H	H1	H2	L	M	M1	Approx. Wt. (Lbs.)
476-661F ^{2*}	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 ^{2*}	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 ^{2*}	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 ^{2*}	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 ^{2*}	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 ^{2*}	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	54.71
476-670F ^{2*}	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 ^{2*}	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 ^{2*}	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

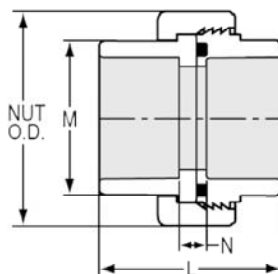
² Fiberglass reinforced.

* 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

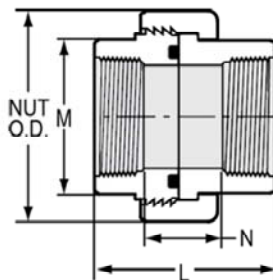
Part Number	Size	L	M	N	NUT O.D.	Approx. Wt. (Lbs.)
457-005	1/2	1-27/32	1- 3/32	11/32	1-23/32	.08
457-007	3/4	2- 3/16	1- 5/16	11/32	1-31/32	.11
457-010	1	2- 7/16	1- 5/8	11/32	2- 3/8	.17
457-012	1-1/4	2-29/32	1-31/32	13/32	2-11/16	.24
457-015	1-1/2	3- 1/32	2- 1/4	3/8	3- 3/32	.32
457-020	2	3- 9/32	2-23/32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

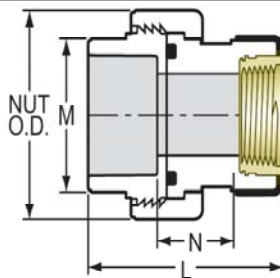


Pressure Rating
 150 psi @ 73°F

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	1-31/32	.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- 9/32	2- 1/4	3/8	3- 3/32	.31
458-020	2	2- 1/2	2-23/32	1/2	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	5/8	5- 3/32	1.25
458-040	4	3- 9/16	5- 1/32	5/8	6- 3/16	1.75
458-060	6	4-27/32	7- 1/4	1- 1/2	8- 7/8	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

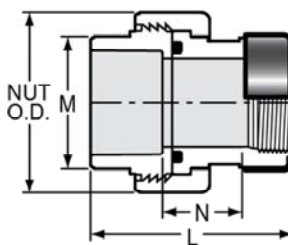
Part Number	Size	L	M	N	NUT O.D.	Approx. Wt. (Lbs.)
459-010BR	1	2-13/16	1- 7/8	1- 1/32	2- 7/8	.52
459-012BR	1-1/4	3- 9/32	2- 7/32	1- 1/16	3- 5/16	.68
459-015BR	1-1/2	3- 1/2	2- 9/16	1- 3/32	3-17/32	.91
459-020BR	2	3- 5/8	2- 7/8	1- 1/4	4- 5/16	1.54

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	7/8	29/32	1-11/16	.09
459-003SR	3/8	2- 5/16	1	1	1-13/16	.06
459-005SR	1/2	2- 9/32	1- 9/32	21/32	1-31/32	.16

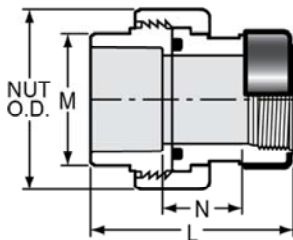


Schedule 40 Fittings Technical
Schedule 40 Unions Dimensions & Information

**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. (Lbs.)
459-007SR	3/4	2-19/32	1-17/32	27/32	2- 1/2	.27
459-010SR	1	2-15/16	1-11/16	7/8	2- 7/8	.39
459-012SR	1-1/4	3- 7/32	2- 1/16	31/32	3- 5/16	.54
459-015SR	1-1/2	3- 7/16	2- 9/16	1- 1/16	3- 9/16	.67
459-020SR	2	4- 1/8	3	1- 9/16	4- 5/32	1.11
459-030SR	3	5- 9/32	4- 5/16	1-31/32	5-13/16	2.61
459-040SR	4	5-15/16	5- 1/4	2- 1/8	5- 3/4	4.02



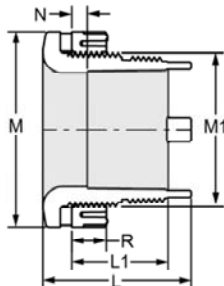
Schedule 40 Fittings Technical
Schedule 40 Tank Adapters Dimensions & Information



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

