NIBCO®

Plastic Fittings Catalog

C-PF-0724

ABS, PVC, and CPVC Fittings for
Residential and Commercial Applications

NIBCO®

QUALITY PRODUCTS SINCE 1904

A recognized brand leader bringing flow control products and technologies to market, NIBCO has a history of success and innovation in the plumbing industry.

Headquartered in Elkhart, Indiana, we operate multiple manufacturing plants and distribution centers strategically located throughout the United States and globally, and offer more than 36,000 SKUs, including our NIBCO® family brands, Webstone®, Chemtrol® and Sure Seal®.

We have vertically integrated manufacturing, distribution and networked communications to provide a seamless source of information and service, 24/7. We place great emphasis on personal connections with our factory direct sales, live customer service and technical service support. We also offer unique programs to support our customers' success, including our NIBCO Partner program, Vendor Managed Inventory and EDI for wholesalers.

More than 90 percent of NIBCO-branded products are manufactured in the U.S. using high-quality materials and innovative processes and technologies to improve product performance and quality. For every high-quality valve or fitting made at NIBCO, each is made with pride by the hundreds of NIBCO associates who work there.

Today, NIBCO is a fifth-generation, family- and associate-owned business. Since 1904, we've pioneered many products and processes. As the flow control industry continues to become more demanding, we remain focused on what has made us successful: delivering more than a product and making business better for each of our customers.

VISIT OUR WEBSITE TO LEARN MORE

Visit our website for the most current information.

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Material Selection

Thermoplastic and Elastomers

ABS

(Acrylonitrile-butadiene-styrene) Class 3-2-2-2-2, conforming to ASTM D3965, is a time proven material. The smooth inner surface and superior resistance to deposit formation makes ABS drain, waste and vent material ideal for residential and commercial sanitary systems. The residential DWV system can be exposed in service to a wide temperature span. ABS-DWV has proven satisfactory for use from -40°F to 160°F. These temperature variations can occur due to ambient temperature fluctuations or the discharge of hot liquids into the system. ABS-DWV is very resistant to a wide variety of materials ranging from sewage to commercial household chemical formulations. ABS-DWV is joined by solvent cementing or threading and can easily be connected to steel, copper, or cast iron through the use of transition fittings.

PVC

(Polyvinyl Chloride) conforming to ASTM D1784 Class 12454, formerly designated Type 1, Grade 1. PVC is the most frequently specified of all thermoplastic materials. It has been used successfully for over 30 years in such areas as chemical processing, industrial plating, chilled water distribution, deionized water lines, chemical drainage, and irrigation systems. PVC is characterized by high physical properties and resistance to corrosion and chemical attack by acids, alkalies, salt solutions and many other chemicals. It is attacked, however, by polar solvents such as ketones, some chlorinated hydrocarbons, and aromatics. The maximum service temperature of PVC is 140°F. With a design stress of 2,000 psi, PVC has the highest long-term hydrostatic strength at 73°F of any of the major thermoplastics being used for piping systems. PVC is joined by solvent cementing, threading, or flanging.

CPVC

(Chlorinated Polyvinyl Chloride) Class 23447, formerly designated Type IV, Grade 1 conforming to ASTM D1784, has physical properties at 73°F similar to those of PVC and its chemical resistance is similar to or generally better than that of PVC. CPVC, with a design stress of 2000 psi has, over a period of about 30 years, proven to be an excellent material for hot corrosive liquids, hot and cold-water distribution, and similar applications above the temperature range of PVC. CPVC is joined by solvent cementing, threading, or flanging.

PTFE

PTFE (Polytetrafluoroethylene) has outstanding resistance to chemical attack by most chemicals and solvents. PTFE has a temperature rating of -200°F to 500°F. PTFE, a self-lubricating compound, is used as a seat material in NIBCO/Chemtrol® ball valves.

FPM

FPM (Fluoroelastomers or Fluorocarbons) are inherently compatible with a broad spectrum of chemicals. Because of this extensive chemical compatibility, which spans considerable concentration and temperature ranges, fluorocarbons have gained wide acceptance as a material of construction for butterfly valve "O"-rings and seats. Fluorocarbons can be used in most applications involving mineral acids (with the exception of HCl), salt solutions, chlorinated hydrocarbons, and petroleum oils.

EPDM

EPDM is a terpolymer elastomer made from ethylene, propylene and diene monomer. EPDM has good abrasion and tear resistance and offers excellent chemical resistance to a variety of acids and alkalines. It is susceptible to attack by hydrocarbons and is not recommended for applications involving petroleum oils, strong acids, or strong alkalines.

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Material Selection

Plastic Piping Standards

ASTM Test Methods	Properties	Material		
		ABS 3-2-2-2-2	PVC 12454	CPVC 23447
General D792	Specific Gravity	1.00 - 1.08	1.38	1.55
D570	Water Absorption % 24 Hrs. @ 73°F	0.3	0.05	0.05
Mechanical D638	Tensile Strength psi @ 73°F	4,500	7,000	7,000
D638	Modulus of Elasticity in Tension psi @ 73°F x 10^5	2.4	4.0	3.6
D790	Flexural Strength psi	10,000	14,500	15,600
D256	Izod Impact Strength @ 73°F (Notched)	4.0	0.65	1.5
Thermal D696	Coefficient of Thermal Expansion in/in/°Fx10^{-5}	5.0	3.0	3.8
C177	Thermal Conductivity BTU/HR/Sq. Ft./°F/in	1.35	1.2	0.95
D648	Heat Distortion Temp. °F @ 66 psi	219	165	238
D648	Heat Distortion Temp. °F @ 264 psi	180	158	212
	Resistance to Heat °F at Continuous Drainage	180	140	210
Flammability D2863	Limiting Oxygen Index (%)	19	43	60
E84	Flame Spread	150-250	15-20	15
	Underwriter's Lab Rating (Sub. 94)	94HB	94V-0	94V-0

Plastic Piping Standards

Many commercial, industrial, and governmental standards or specifications are available to assist the design engineer in specifying plastic piping systems. Standards most frequently specified in plastic piping systems are ASTM International. Following is a list and description of those standards most typically applied to industrial plastic piping.

ASTM Standard D1784

This standard covers PVC and CPVC compounds used in the manufacture of plastic pipe, valves, and fittings. It provides a means for selecting and identifying compounds on the basis of a number of physical and chemical criteria. Conformance to a particular material classification in this standard requires meeting a number of minimum physical and chemical properties.

ASTM Standards D2665 and D3311

These standards provide the material and test requirements as well as the fitting geometries for PVC-DWV (drain, waste and vent) fittings. These fittings are joined by threading or solvent cementing.

ASTM Standard D2466

This standard covers Schedule 40 PVC threaded and socket pressure fittings. Included in the standard are thread and socket specifications, lay length, wall thickness, burst, material, quality, and identification requirements.

ASTM Standard D2467

This standard covers Schedule 80 PVC threaded and socket fittings. Included in the standard are thread and socket specifications, lay length, wall thickness, burst, material, quality, and identification requirements.

ASTM Standard D2846

This standard covers plastic hot and cold-water distribution system components made in one standard dimension ratio. This includes a series of CTS (copper tube size) CPVC fittings meant for use with SDR 11 tube and plastic-to-metal transition fittings.

ASTM Standard D3965

This standard covers ABS compounds used in the manufacture of pipe and fittings. It identifies the chemical and physical properties of several ABS compositions based upon impact strength, deflection temperature under load, and tensile stress at yield point. These properties identify the polymers or blends of polymers that make up this rigid thermoplastic material.

ASTM Standards D2661 and D3311

These standards cover ABS-DWV (drain, waste and vent) by material and by physical configuration. These products are threaded or joined by solvent cement.

ASTM Standard F1498

This standard covers dimensions, tolerances, and gaging of tapered pipe threads used on plastic ends of pipe and fittings.

Material Selection

Plastic Piping Standards and Chemical Resistance

ASTM Standard F1970

This standard covers fittings and appurtenances intended to be used in PVC or CPVC plastic piping, or as a transition from such systems to metal systems. These products, such as unions, flanges, or valves, are not included in the scope of other ASTM specifications.

ASME B1.20.1 (American Society of Mechanical Engineers)

This specification details the dimensions, tolerances, and gaging of tapered pipe threads used on metallic ends of pipe and fittings, plus machined plastic threaded ends.

NSF/ANSI Standard 14 (NSF International)

This standard establishes the minimum physical and performance requirements for plastic piping system components and related materials. It also provides a basis for certification of products to consensus standards, or other physical and performance requirements where no consensus standard exists. It requires adherence to appropriate ASTM Standards and specifies minimum quality control programs. To comply with this standard the manufacturer must allow periodic testing of product and auditing of procedures by a third-party agency.

NSF/ANSI/CAN 372

This standard establishes procedures for determination of lead content based on the wetted surface area within the product. This standard is used in conjunction with NSF/ANSI/CAN 61 for the purpose of compliance with the Safe Drinking Water Act (SDWA), the federal law that ensures the quality of America's public drinking water supply.

NSF/ANSI/CAN 61

At the request of the U.S. Environmental Protection Agency (EPA), a consortium led by NSF International developed this standard. It was developed to establish minimum requirements for the control of potential adverse human health effects from products which contact drinking water. This Standard complements the performance requirements that are contained within ASTM product standards. NIBCO® PVC & CPVC fitting products intended for potable water applications are tested and certified by a third-party agency for compliance to NSF/ANSI/CAN 61.

CSA (Canadian Standards Association)

CSA Group has several codes including the Canadian Plumbing Code as well as numerous standards. Several third party agencies provide testing and certification to show compliance with these codes and standards. For further information on third party listings contact NIBCO customer service.

IAPMO (International Association of Plumbing and Mechanical Officials)

IAPMO has several codes including the Uniform Plumbing Code (UPC). Many products are third party tested and listed showing compliance to this code by one or more third party agencies. For further information contact NIBCO customer support.

Chemical Resistance

Thermoplastics exhibit a 'GO' or 'NO-GO' type of resistance when contacted by aggressive chemicals. That is, they either resist attack completely or they deteriorate rapidly, in which case, the mechanism of attack is either solvation or reaction with the base molecule. Solvation, which is the most common form of attack, involves penetration of a chemical into the plastic causing softening, swelling, and loss of physical properties. Reaction with the base molecule involves the breakage of the molecular chain, crosslinking, or substitution reactions.

The NIBCO *Chemical Resistance Guide* contains specific chemical resistance information for the various plastic and elastomeric materials used in the NIBCO product line. When interpreting the information presented in this brochure it is important to note that it is based only on unstressed immersion testing at the temperatures noted, using pure chemicals or saturated solutions, except where otherwise specified. It is unwise to specify a plastic material without chemical resistance information relative to the specific environment of the intended application. Therefore, in situations where the aggressive environment involves a mixture of chemicals, the Chemical Resistance Guide can be used to investigate the effects of individual chemicals; however, because of possible synergisms, the suitability of a particular plastic for handling a chemical mixture should be verified. Also, since chemicals are more aggressive at higher temperatures and concentrations, chemical resistance information should not be extrapolated to higher temperatures and concentrations. Conversely, chemicals are generally less aggressive at lower temperatures and concentrations; therefore, extrapolation of chemical resistance information to lower temperatures and concentrations is generally acceptable.

When chemical resistance information is not available or a first-of-a-kind process is involved, data may be obtained through immersion testing. ASTM D543 provides a method for conducting such tests, and the chemical, as well as, the temperature used in this test should be identical to the anticipated process condition.

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SPECIAL WARNING

DO NOT Allow POE OIL to Come in Contact With PVC, CPVC or ABS

Certain chemicals can cause Environmental Stress Cracking (ESC) in PVC, CPVC, and ABS piping materials. One such chemical that can be encountered in air conditioning and refrigeration condensate drains is Polyol Ester oil, commonly called POE oil, which is a type of Synthetic oil used to lubricate refrigeration compressors.

POE oil is highly incompatible with PVC, CPVC and ABS piping resulting in subsequent leaking. POE can enter the condensate system if the refrigerant circuit is opened during repair work. POE oil is also hygroscopic and can pick up moisture from the surroundings. In such cases, condensates may easily contain POE oils.

Plastic piping in hydronic heating systems can also occasionally fail because of chemical contamination by POE lubricant oil used in the heat-exchanger refrigerant. While leaks in the heat exchanger are rare, when a leak does occur, it can lead to almost immediate failure of the piping system owing to chemical attack by the POE oil lubricant in the refrigerant.

Today, there is substantial information commercially available on materials used in compressors and refrigeration equipment. It is the designer and installer's responsibility to ensure that all equipment and operating conditions in the system show good compatibility with both refrigerants and lubricants. This includes but is not limited to different coatings, metals, seals, and plastic components including condensate drains.

Make sure to always consult NIBCO's Chem-Guide and other marketing materials

Key to NIBCO Figure Numbers

DWV Fittings 1 2 3 4 - 5

1 2 TYPE OF MATERIALS

48 = PVC
58 = ABS

3 4 TYPE OF FITTING & DESCRIPTION

01 = Coupling
03 = Female Adapter
04 = Male Adapter
05 = Soil Pipe Adapter
06 = 45° Ell
07 = 90° Ell
08 = 22 1/2° Ell
10 = Wye
11 = Tee
12 = Long Turn TY
14 = Test Tee
16 = Cleanout
17 = Cap
18 = Plug
19 = Blind Flange
26 = Plug (Spg)
27 = Cap (FIPT)
28 = Cross
29 = Nipple
30 = True Y
34 = Double Y
35 = Double Tee
36 = Double Long Turn TY
37 = Double Ell
48 = Offset Closet Flange
51 = Closet Flange
53 = Closet Flange-Flush
55 = Closet Flange w/Knockout Test Plug
60 = 60° Ell
61 = 90° Ell w/Heel Inlet
63-73 = Various Stack Fittings
76 = Return Bend w/CO Hub x SJ
77 = Return Bend Hub x SJ
78 = Return Bend w/CO Hub x Hub
79 = Return Bend Hub x Hub
80 = P-Trap w/CO Hub x SJ
81 = P-Trap Hub x SJ
84 = P-Trap w/CO Hub x SJ
85 = P-Trap Hub x Hub
91 = Drum Trap
92 = P-Trap w/Union Hub x SJ
95 = P-Trap w/Union Hub x Hub

5 TYPE OF CONNECTIONS

Numerical Suffix
2 = Fitting Connection
3 = Female Connection
4 = Male Connection
7 = Slip Joint Connection
9 = Side Inlet
13 = Female Connection Indicating Hub x FIPT x Hub
14 = Female Connection Indicating Hub x Hub x FIPT
16 = Female Connection Indicating Hub x CO x Hub
17 = Female Connection Indicating FIPT x Hub x Hub
18 = Female Connection Indicating FIPT x FIPT x Hub
19 = Baffle Tee Hub x Hub x Hub

Letter Suffix
A = Adjustable Closet Flange
B = Double Fixture Tee
BAF = Baffle
CL = Water Closet Ell
CLAY = Clay
CO = Cleanout
DC = Dust Cap
DP = Dust Plug
EH = Extra Heavy
EL = Extra Long
F = Flush
FX = Fixture Tee
KO = Knockout
L = Lead & Left
LH = Low Heel
LR = Long Radius
LT = Long Turn
N = No Hub
NS = No Stop
P = Fits Pipe I.D.
R = Right
RP = Repair
S = Stack Upturn
SD = Sewer Drain ASTM-D2852
SE = Special
TE = Trap El
TPA = Tray Plug Adapter
TY = TY-Seal
V = Vent
XL = Extra Long

Schedule 40 - PVC Plastic Fittings

UNIV. PART NO.	DESCRIPTION	END CONNECTIONS
401	Tee	Slip x Slip x Slip
402	Tee	Slip x Slip x FIPT
405	Tee	FIPT x FIPT x FIPT
406	90° Ell	Slip x Slip
407	90° Ell	Slip x FIPT
408	90° Ell	FIPT x FIPT
409	90° Street Ell	Spg x Slip
410	90° Ell	MIPT x Slip
411	90° Street Ell	Spg x FIPT
412	90° Street Ell	MIPT x FIPT
414	90° Side Outlet Ell	Slip x Slip x FIPT
417	45° Ell	Slip x Slip
420	Cross	All Slip
429	Coupling	Slip x Slip
430	Coupling	FIPT x FIPT
434	Riser Extender	MIPT x FIPT
435	Female Adapter	Slip x FIPT
436	Male Adapter	MIPT x Slip
437	Bushing	Slip x Slip
438	Bushing	Spg x Slip
439	Thread Bushing	MIPT x FIPT
447	Cap	Slip
448	Thread Cap	FIPT
449	Plug	Spg
450	Thread Plug	MIPT
475	Wye	All Slip
488	Running Trap	Spg x Spg
489	P-Trap	Spg x Spg

SIZE KEY STRAIGHT SIZES		SIZE KEY REDUCING SIZES		SIZE KEY REDUCING SIZES	
1/4	002	1/2 x 1/2 x 1/4	072	2 x 1 1/2 x 3/4	238
3/8	003	1/2 x 1/2 x 3/4	074	2 x 1 1/2 x 1	239
1/2	005	3/4 x 1/2 x 1/2	094	2 x 1/2 x 1 1/2	241
3/4	007	3/4 x 1/2 x 3/4	095	2 x 2 x 1/2	247
1	010	3/4 x 3/4 x 1/2	101	2 x 2 x 3/4	248
1 1/4	012	3/4 x 3/4 x 1	102	2 x 2 x 1	249
1 1/2	015	1 x 1/2 x 1	122	2 x 2 x 1 1/4	250
2	020	1 x 3/4 x 1/2	124	2 x 2 x 1 1/2	251
2 1/2	025	1 x 3/4 x 3/4	125	2 1/2 x 2 1/2 x 1/2	287
3	030	1 x 3/4 x 1	126	2 1/2 x 2 1/2 x 3/4	288
4	040	1 x 1 x 1/2	130	2 1/2 x 2 1/2 x 1	289
5	050	1 x 1 x 3/4	131	2 1/2 x 2 1/2 x 1 1/4	290
6		1 x 1 x 1 1/4	132	2 1/2 x 2 1/2 x 1 1/2	291
060		1 x 1 x 1 1/2	133	2 1/2 x 2 1/2 x 2	292
8	080	1 1/4 x 1 x 1/2	156	3 x 3 x 1/2	333
10	100	1 1/4 x 1 x 3/4	157	3 x 3 x 3/4	334
12	120	1 1/4 x 1 x 1	158	3 x 3 x 1	335
		1 1/4 x 1 1/4 x 1/2	166	3 x 3 x 1 1/4	336
		1 1/4 x 1 1/4 x 3/4	167	3 x 3 x 1 1/2	337
		1 1/4 x 1 1/4 x 1	168	3 x 3 x 2	338
		1 1/2 x 1 1/4 x 1/2	199	3 x 3 x 4	342
		1 1/2 x 1 1/4 x 3/4	201	4 x 4 x 3/4	416
		1 1/2 x 1 1/4 x 1	202	4 x 4 x 1	417
		1 1/2 x 1 1/2 x 1/2	209	4 x 4 x 1 1/4	418
		1 1/2 x 1 1/2 x 3/4	210	4 x 4 x 1 1/2	419
		1 1/2 x 1 1/2 x 1	211	4 x 4 x 2	420
		1 1/2 x 1 1/2 x 1 1/4	212	4 x 4 x 3	422
		1 1/2 x 1 1/2 x 2	213		

Fitting Terms and Abbreviations

FIPT = Female NPT Thread
Spg = Male End (Spigot)
MIPT = Male NPT Thread
NPSM = Straight Thread for Mechanical Joint
SJ = Slip Joint
Hub = Plastic Socket

Schedule 40 Only
FIPT = Female NPT Thread
MIPT = Male NPT Thread
Slip = Female Socket
Spg = Male End (Spigot)

Ball Valve
S = Socket
T = Threaded

Schedule 80 Only
FIPT = Female NPT Thread
CL = Close
MIPT = Male NPT Thread
Slip = Female Socket
SH = Short
Spg = Male End (Spigot)

CPVC-CTS Only
C = Copper Solder Joint (Transition)
Compression = Transition Fitting
FIPT = Female NPT Thread
MIPT = Male NPT Thread
Slip = Female Socket
Spg = Male End (Spigot)
IPS = Iron Pipe Size
CTS = Copper Tube Size

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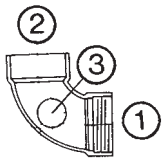
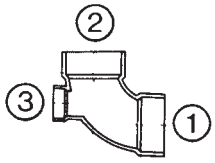
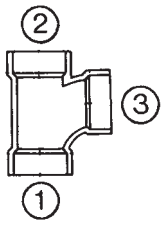
Methods of Designating Inlets of Fittings



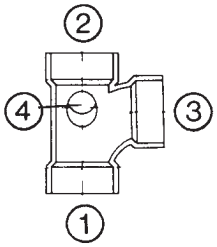
DWV 90° Ell w/Side Inlet



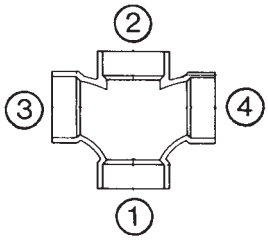
DWV 90° Ell w/High Heel Inlet



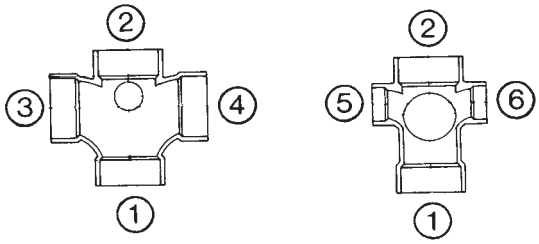
DWV Sanitary Tee



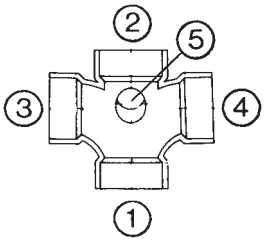
DWV Tee w/90° Right/Left Inlet



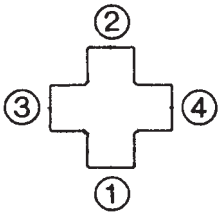
DWV Double Sanitary Tee



DWV Double Tee w/Two 90° Side Inlets



DWV Double Tee w/One 90° Side Inlet



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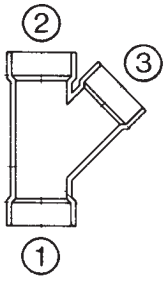
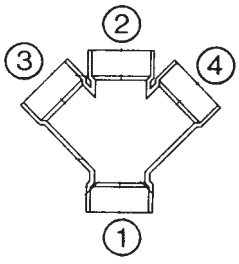


DWV 45° Y



DWV 45° Double Y

General Note:
The largest opening establishes the basic size of a reducing fitting. The largest opening is named first, except for double branch elbows where both branches are reducing; the outlet is the largest opening and named last in both cases. In designating the openings of reducing fittings, they should be read in the order indicated by the sequence of the numbers 1, 2, 3, 4, 5 and 6. In designating the outlets of side outlet reducing fittings, the side outlet is named last.

ABS & PVC-DWV Fittings

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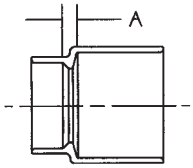
ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

ADAPTERS

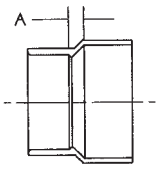
5800 4800



Soil Pipe Adapter (Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
2	.200	.301	3/8
3	.500	.708	7/16
4	.834	1.158	1/2

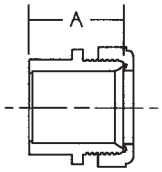
5800-SD 4800-SD



Sewer & Drain Adapter (Hub x Sewer & Drain)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
3 x 4	.362	.502	9/16

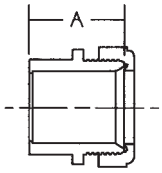
5801-2-7 4801-2-7



Trap Adapter (Spg x SJ)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/4	.085	.102	1 21/32
1 1/2	.094	.120	1 21/32
1 1/2 x 1 1/4	.084	.105	1 21/32
2	.126	.174	1 13/16

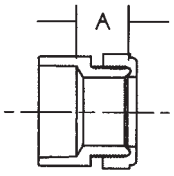
5801-2-7-C 4801-2-7-C



Trap Adapter (Spg x SJ w/Chrome Nut)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/2	.123	.149	1 21/32
† 1 1/2 x 1 1/4	.107	.128	1 21/32
* 2 F	.202	N/A	1 13/16

5801-7 4801-7



Trap Adapter (Hub x SJ)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/4	.082	.104	29/32
1 1/2	.091	.112	15/16
1 1/2 x 1 1/4	.087	.115	1 1/16
2	.125	.178	31/32

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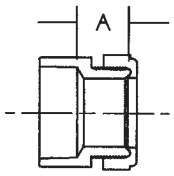
ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

ADAPTERS (Continued)

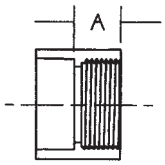
5801-7-C 4801-7-C



Trap Adapter (Hub x SJ w/Chrome Nut)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/2	.120	.141	15/16
1 1/2 x 1 1/4	.110	.138	1 1/16

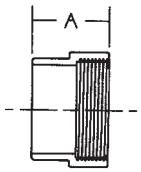
5803 4803



Adapter (Hub x FIPT)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/4	.066	.091	27/32
1 1/2	.078	.101	1
2	.096	.135	1
3	.345	.475	1 1/2
4	.552	.756	1 5/8
6	1.282	1.815	2 1/32

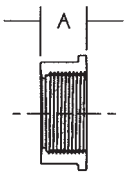
5803-2 4803-2



Adapter (Spg x FIPT)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/4	.051	.066	1 13/32
1 1/2	.070	.098	1 21/32
2	.094	.132	1 25/32
3	.325	.453	2 29/32
4	.548	.727	3 5/16
6	1.203	1.689	4 25/32

5803-2-F 4803-2-F



Flush Adapter (Spg x FIPT)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/2 x 1 1/4	.041	.055	15/16
2 x 1 1/2	.090	.118	1 1/16
3 x 2	.298	.407	1 3/4
† 3 x 1 1/2	.492	.407	1 3/4
* 4 x 3	.492	N/A	2

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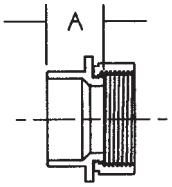
ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

ADAPTERS (Continued)

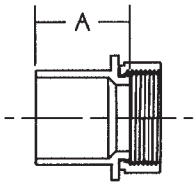
5803-2-SW



Swivel Adapter (Spg x FIPT)

NOM. SIZE	ABS APPROX. NET WT./LBS.	DIM. A INCHES
* 1 1/2	.085	1 1/8

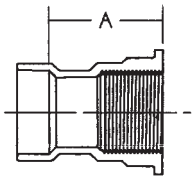
5803-2-SW-EL



Swivel Adapter (Spg x FIPT)

NOM. SIZE	ABS APPROX. NET WT./LBS.	DIM. A INCHES
* 1 1/2	.109	1 7/8

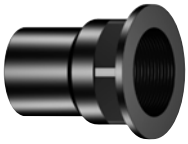
5803-TPA

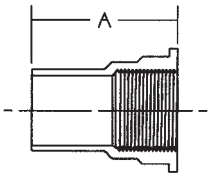


Tray Plug Adapter (Hub x NPSM Thread)

NOM. SIZE	ABS APPROX. NET WT./LBS.	DIM. A INCHES
* 1 1/2	.168	2 5/8

5803-2-TPA

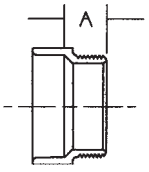




Tray Plug Adapter (Spg x NPSM Thread)

NOM. SIZE	ABS APPROX. NET WT./LBS.	DIM. A INCHES
* 1 1/2	.157	3 3/8

5804 4804



Adapter (Hub x MIPT)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/4	.055	.077	29/32
1 1/2	.060	.081	15/16
1 1/2 x 1 1/4	.060	.088	1 1/16
2	.083	.117	31/32
3	.293	.400	1 19/32
4	.484	.695	2 1/8

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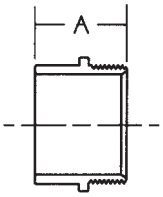
ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

ADAPTERS (Continued)

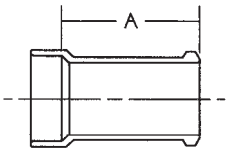
5804-2 4804-2



Adapter (Spg x MIPT)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/4	.058	.075	1 21/32
1 1/2	.063	.089	1 21/32
1 1/2 x 1 1/4	.058	.078	1 21/32
2	.084	.113	1 13/16
3	.282	.385	3 1/2
4	.454	.609	3 7/8

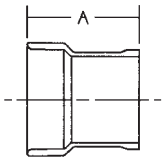
5805 4805



Soil Pipe Adapter (Hub x Spg)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/2 x 2	.189	.265	3 1/2
* 1 13/16 x 3	.391	N/A	3 13/16
2	.234	.335	3 13/16
† 2 x 3	.386	.536	3 13/16
3	.533	.744	4 3/16
3 x 4	.722	1.026	4 1/16
4	.853	1.190	4 7/16

5805-N 4805-N

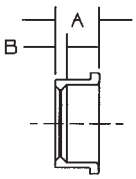


Soil Pipe Adapter (Hub x No Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/2 x 2	.083	.111	3/4
2	.119	.163	1 3/4
3	.294	.399	1 15/16
3 x 4	.351	.492	1 29/32
4	.466	.665	1 15/16

BUSHINGS

5801-2-F 4801-2-F



Flush Bushing (Spg x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
1 1/2 x 1 1/4	.031	.043	15/16	1/4
2 x 1 1/2	.079	.094	1 1/16	3/8
3 x 2	.283	.373	1 3/4	7/8
3 x 1 1/2	.290	.368	1 3/4	1
4 x 3	.411	.526	2	1/2
4 x 2	.506	.683	2	1 1/4
6 x 4	1.167	2.191	3 11/16	1 29/32
† 6 x 3	N/A	1.477	3 9/32	7/32
† 8 x 6	N/A	3.996	4 21/32	1 5/8
† 8 x 4	N/A	4.100	4 21/32	2 7/8

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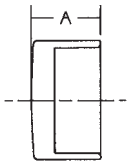
ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

CAPS

5817 4817

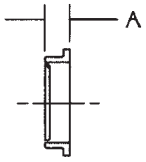


Cap (Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/4	.074	.07	7/8
1 1/2	.089	.115	7/8
2	.118	.169	31/32
3	.317	.469	1 23/32
4	.568	.789	2
* 6	1.150	N/A	3 1/16
† 8	N/A	N/A	N/A

6" and 8" PVC cap available in Schedule 40 PVC only as Universal Fig. No. 447-XXX. See page 54.

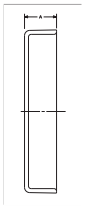
5817-P



Test Cap (Polystyrene)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1 1/2	.009	1/4
2	.013	1/4
3	.026	5/16
4	.045	3/8

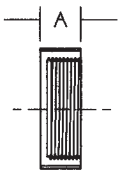
4817-T



Outside Diameter Test Cap (Hub)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
† 1 1/2	.036	5/8
† 2	.044	5/8
† 3	.075	5/8
† 4	.112	5/8
† 6	.205	5/8

5827

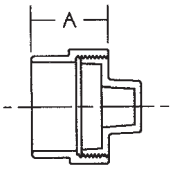


Cap (FIPT)

NOM. SIZE	ABS APPROX. NET WT./LBS.	DIM. A INCHES
1 1/2	.062	29/32
2	.082	15/16
3	.245	1 7/16

CLEANOUTS

5816 4816



Cleanout Adapter (Spg x Cleanout w/Plug)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/2	.117	.160	1 21/32
2	.154	.215	1 25/32
3	.486	.679	2 29/32
4	.822	1.094	3 5/16
6	1.825	2.564	4 25/32

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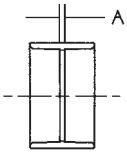
ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

COUPLINGS

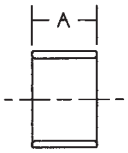
5801 4801



Coupling (Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/4	.052	.075	1/8
1 1/2	.065	.090	1/8
1 1/2 x 1 1/4	.072	.100	13/32
2	.084	.119	1/8
2 x 1 1/2	.102	.132	23/32
3	.344	.466	3/16
3 x 2	.285	.397	7/8
3 x 1 1/2	.297	.418	1 3/32
4	.574	.755	1/4
4 x 3	.569	.784	15/16
4 x 2	.493	.690	1 3/8
6	1.541	1.541	1/4
† 8	N/A	5.100	1/4
† 10	N/A	8.533	1/2
† 12	N/A	14.490	1/2

5801-RP 4801-RP

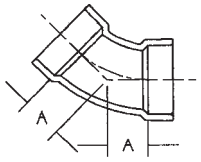


Repair Coupling (Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/2	.062	.083	1 1/2
2	.086	.115	1 3/4
3	.303	.417	3
4	.510	.711	3 1/2
† 6	N/A	2.050	5 3/4

ELBOWS

5806 4806



45° Ell (Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/4	.109	.151	1
1 1/2	.131	.188	1 1/8
2	.205	.281	1 1/2
3	.616	.842	1 3/4
4	1.058	1.515	2 3/16
6	2.875	4.151	3 3/8
† 8	N/A	6.134	2 1/16
† 8 x 6 F	N/A	10.234	2 1/16
† 8 x 4 F	N/A	10.130	2 1/16
† 10	N/A	19.64	2 5/8
† 12	N/A	32.12	3 1/8

WARNING: This product can expose you to chemicals including styrene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

* Available in ABS only
† Available in PVC only

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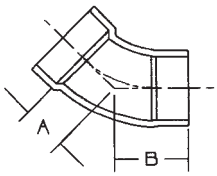
ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

ELBOWS (Continued)

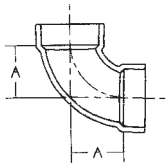
5806-2 4806-2



45° Street Ell (Spg x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
1 1/4	.100	.136	1	1 3/4
1 1/2	.134	.174	1 1/8	1 7/8
2	.201	.277	1 7/16	2 1/4
3	.601	.818	1 3/4	3 1/4
4	1.048	1.464	2 3/16	3 15/16
6	2.772	3.950	3 3/8	6 3/8
† 8	N/A	5.738	2 1/16	6 1/16
† 8 x 6 F	N/A	6.500	2 1/16	5
† 8 x 4 F	N/A	6.200	2 1/16	3 3/4

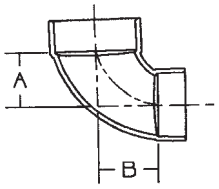
5807 4807



90° Ell (Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/4	.122	.184	1 9/16
1 1/2	.149	.204	1 3/4
2	.248	.331	2 5/16
3	.724	1.008	3
4	1.278	1.840	3 7/8
6	3.453	4.666	5 5/8
† 8	N/A	8.553	5 31/32

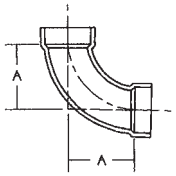
5807-CL 4807-CL



90° Closet Ell (Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
4 x 3	1.044	1.448	3	3 3/8

5807-LT 4807-LT



90° Long Turn Ell (Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
* 1 1/4	.164	N/A	2 1/4
1 1/2	.206	.279	2 11/16
2	.291	.409	3 7/32
3	.855	1.268	4 1/16
4	1.542	2.114	4 15/16

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F Fabricated

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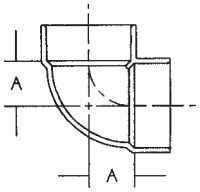
ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

ELBOWS (Continued)

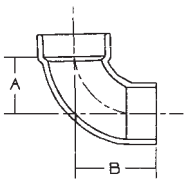
5807-V 4807-V



90° Vent Ell (Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
* 1 1/4	.106	N/A	1
1 1/2	.145	.190	1 3/16
2	.194	.255	1 1/2
3	.584	.839	1 7/8
4	1.048	1.547	2 1/2
10	N/A	19.410	5 13/16
12	N/A	25.940	6 7/8

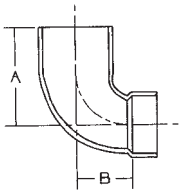
5807-2 4807-2



90° Street Ell (Spg x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
1 1/4	.120	.164	1 21/32	2 5/16
1 1/2	.154	.200	1 3/4	2 1/2
2	.240	.313	2 5/16	3 3/16
3	.731	.993	3 1/16	4 9/16
4	1.224	1.731	3 7/8	5 5/8
6	3.319	4.530	5 5/8	8 5/8

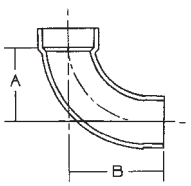
5807-2-CL 4807-2-CL



90° Street Closet Ell (Spg x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
4 x 3	1.137	1.541	6	3 3/8
4 x 3 w/Cap F	1.182	1.586	6	3 3/8

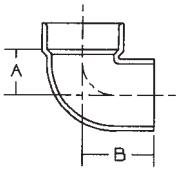
5807-2-LT 4807-2-LT



90° Long Turn Street Ell (Spg x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
1 1/2	.214	.286	2 3/4	3 1/2
2	.293	.407	3 7/32	4 3/32
3	.854	1.138	4 1/16	5 9/16
4	1.477	2.021	4 15/16	6 11/16

5807-2-V 4807-2-V



90° Street Vent Ell (Spg x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
1 1/2	.120	.173	1 3/16	1 15/16
2	.183	.251	1 1/2	2 3/8
†3	N/A	.930	1 7/8	3 3/8

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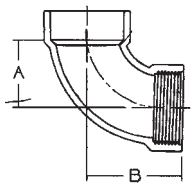
ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

ELBOWS (Continued)

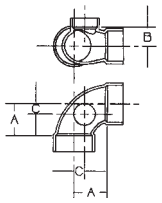
5807-3 4807-3



90° Ell (Hub x FIPT)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
3	.801	1.101	3 1/16	4 9/16

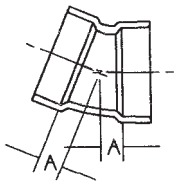
5807-9 4807-9



90° Ell w/Side Inlet (Hub x Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
3 x 3 x 2	.780	1.127	3	1 21/32	1
3 x 3 x 1 1/2	.764	1.070	3	1 21/32	1

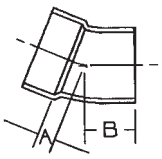
5808 4808



22½° Ell (Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/2	.099	.131	7/16
2	.156	.195	5/8
3	.448	.637	1 3/16
4	.825	1.132	1
6	2.172	3.060	1 1/2

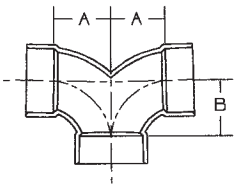
5808-2 4808-2



22½° Street Ell (Spg x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
1 1/2	.093	.131	7/16	1 3/16
2	.145	.203	5/8	1 1/2
3	.442	.622	1 3/16	2 5/16
4	.768	1.049	1	2 3/4

5837 4837



Double Ell (Hub x Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
1 1/2	.225	.311	1 11/16	1 11/16
2	.331	.480	2 5/16	2 5/16
2 x 1 1/2 x 1 1/2	.230	.366	2 1/8	1 7/8
3	1.096	1.448	3 1/16	3 1/16
4	1.876	2.698	3 7/8	3 7/8

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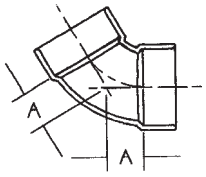
ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

ELBOWS (Continued)

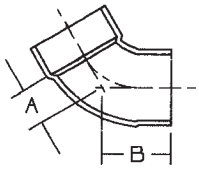
5860 4860



60° Ell (Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/2	.128	.172	1
2	.190	.256	1 5/16
3	.564	.806	1 11/16
4	1.042	1.434	2 1/16

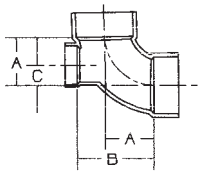
5860-2 4860-2



60° Street Ell (Spg x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
1 1/2	.119	.165	1	1 3/4
2	.182	.250	1 1/4	2 1/8
3	.570	.855	1 11/16	3 3/16
4	1.012	1.266	2 1/16	3 13/16

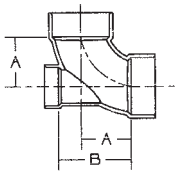
5861 4861



90° Ell w/High Heel Inlet (Hub x Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM.C INCHES
3 x 3 x 2	.780	1.119	3 1/16	4 3/4	1 1/4
3 x 3 x 1 1/2	.803	1.083	3 1/16	4 7/8	1 1/4

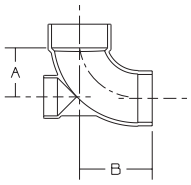
5861-LH 4861-LH



90° Ell w/Low Heel Inlet (Hub x Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
3 x 3 x 2	.823	1.141	3 1/16	4 7/16
3 x 3 x 1 1/2	.755	1.045	3 1/16	4 3/16
4 x 4 x 2	1.430	1.750	3 1/8	5 7/16

5861-2-LH 4861-2-LH



90° Ell w/Low Heel Inlet (Spg x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
3 x 3 x 2	.83	1.089	3 1/16	4 7/16

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ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

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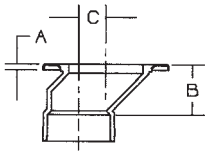
FLANGES

5848-A 4848-A

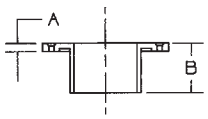


Offset Adjustable Closet Flange

w/Plastic Coated Steel Flange (Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
4 x 3	.903	1.137	5/16	2 3/4	1 1/2

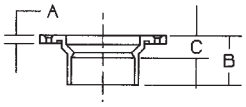
5851 4851



Closet Flange (Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM.B INCHES
4	.466	.672	7/16	2

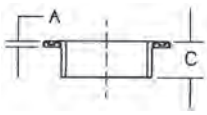
5851 4851



Reducing Closet Flange (Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
4 x 3	.570	.769	7/16	2 3/4	1 1/4

5851-A 4851-A

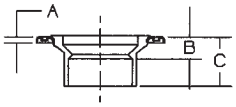


Adjustable Closet Flange

w/Plastic Coated Steel Flange (Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. C INCHES
4	.665	.777	5/16	2

5851-A 4851-A

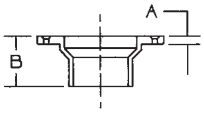


Reducing Adjustable Closet Flange

w/Plastic Coated Steel Flange (Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
4 x 3	.770	.898	5/16	1 1/4	2 3/4

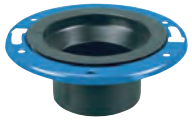
5851-2 4851-2

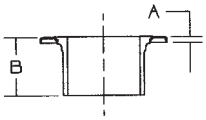


Closet Flange (Spg)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
4 x 3	.540	.719	7/16	2 25/32

5851-2-A 4851-2-A





Adjustable Closet Flange

w/Plastic Coated Steel Flange (Spg)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
4	.850	1.047	5/16	3 1/4
4 x 3	.748	.876	5/16	2 3/4

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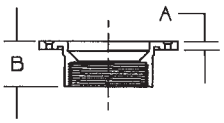
ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

FLANGES (Continued)

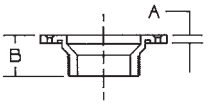
5851-3 4851-3



Closet Flange (FIPT)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
4 x 3	.583	.666	7/16	2 5/16

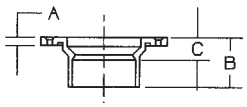
5851-4 4851-4



Closet Flange (MIPT)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
4 x 3	.430	.668	7/16	2 15/32

5853 4853

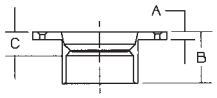


Flush Closet Flange

w/Pipe Stop (Fits Inside 4" DWV Pipe and Over 3" Pipe)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
3 or 4	.570	.762	7/16	2 3/4	1 1/4

5853-KO 4853-KO

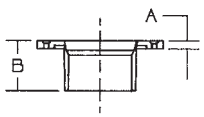


Flush Closet Flange

w/Pipe Stop & Knockout (Fits Inside 4" DWV Pipe and Over 3" Pipe)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
3 or 4	.602	.800	7/16	2 3/4	1 1/4

5853-NS 4853-NS

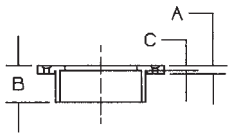


Flush Closet Flange

w/Out Pipe Stop (Fits Inside 4" DWV Pipe and Over 3" Pipe)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
3 or 4	.529	.742	7/16	2 3/4

5855 4855



Closet Flange w/Knockout Test Plug (Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
4	.585	.795	7/16	2	1/4
4 x 3	.581	.810	5/16	2 3/4	1 1/4

WARNING: This product can expose you to chemicals including styrene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

† Available in PVC only

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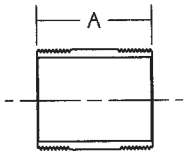
ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

NIPPLES

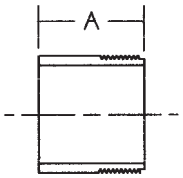
5829



Nipples 3" (MIPT x MIPT)

NOM. SIZE	ABS APPROX. NET WT./LBS.	DIM. A INCHES
* 3	.272	3
* 4	.393	4
* 6	.595	6
* 8	.847	8
* 10	1.092	10
* 12	1.274	12

5829-2

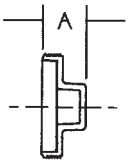


Nipples 3" (MIPT x Plain End)

NOM. SIZE	ABS APPROX. NET WT./LBS.	DIM. A INCHES
* 3	.315	3
* 4	.425	4
* 6	.670	6
* 8	.897	8
* 10	1.115	10

PLUGS

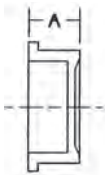
5818 4818



Plug (MIPT)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/4	.029	.042	1
1 1/2	.047	.062	1 3/8
2	.060	.083	1 3/8
* 2 1/2	.090	N/A	2 1/2
3	.161	.226	1 3/4
* 3 1/2	.202	N/A	1 3/4
4	.274	.367	1 7/8
6	.622	.875	2

5826



Fitting Plug (Spg)

NOM. SIZE	ABS APPROX. NET WT./LBS.	DIM. A INCHES
* 1 1/2	.043	3/4
* 2	.090	7/8

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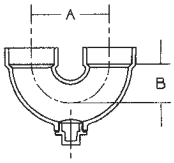
ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

RETURN BENDS

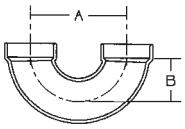
5878 4878



Return Bend (Hub x Hub x Cleanout w/Plug)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
1 1/2	.259	.366	3 1/4	1 3/8
2	.454	.643	5	2 1/4

5879 4879

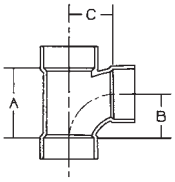


Return Bend (Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
1 1/2	.231	.333	3 1/4	1 3/8
2	.437	.620	5	2 1/4
3	1.151	1.632	6 5/16	2 11/16
4	2.255	3.083	8 1/2	3 11/16

TEES

5811 4811



Sanitary Tee (Hub x Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
1 1/4	.168	.234	2 3/8	1 19/32	1 9/16
1 1/2	.204	.294	2 5/8	1 11/16	1 11/16
* 1 1/2 x 1 1/2 x 1 1/4	.202	N/A	2 1/2	1 11/16	1 13/16
* 1 1/2 x 1 1/4 x 1 1/2	.235	N/A	2 3/4	1 3/4	1 3/4
2	.328	.435	3 11/16	2 5/16	2 5/16
2 x 2 x 1 1/2	.273	.379	3 1/8	1 15/16	2 3/16
2 x 1 1/2 x 2	.313	.432	3 11/16	2 5/16	2 5/16
2 x 1 1/2 x 1 1/2	.264	.375	3 1/8	1 15/16	2 3/16
3	.998	1.399	4 7/8	3 1/16	3 1/16
3 x 3 x 2	.674	.946	3 5/16	2 1/8	2 7/8
3 x 3 x 1 1/2	.586	.808	2 11/16	1 3/4	2 9/16
4	1.755	2.495	6 1/8	3 7/8	3 7/8
4 x 4 x 3	1.442	1.980	4 3/4	3	3 9/16
4 x 4 x 2	1.013	1.432	3 3/16	2 1/16	3 5/16
4 x 4 x 1 1/2	1.092	1.526	3 3/16	2 1/16	3 5/16
6	4.375	5.950	8 3/8	4 15/16	4 15/16
6 x 6 x 4	3.065	4.650	6 1/32	3 27/32	4 31/32
† 8	N/A	11.665	10 7/16	5 31/32	5 31/32

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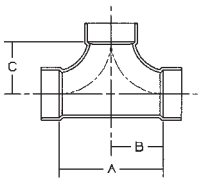
ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

TEES (Continued)

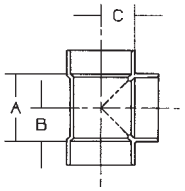
5811-C 4811-C



Two-Way Cleanout Tee (Hub x Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
3	1.362	1.920	8 1/8	4 1/16	4 1/16
4	2.433	3.323	9 7/8	4 15/16	4 15/16

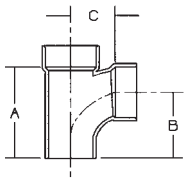
5811-V 4811-V



Vent Tee (Hub x Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
1 1/2	.171	.246	2 3/8	1 3/16	1 3/16
2	.245	.382	3	1 1/2	1 1/2
3	.756	1.106	3 3/4	1 7/8	1 7/8
* 3 x 3 x 1 1/2	.545	N/A	2 3/8	1 3/16	1 7/8
* 3 x 3 x 2	.598	N/A	3	1 1/2	1 7/8
4	1.397	2.000	5	2 1/2	2 1/2
10	N/A	23.62	11 5/8	5 13/16	5 13/16
12	N/A	36.92	13 3/4	6 7/8	6 7/8

5811-2 4811-2



Sanitary Street Tee (Spg x Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
1 1/2	.207	.275	3 1/2	2 1/2	1 3/4
2	.307	.436	4 9/16	3 3/16	2 5/16
2 x 2 x 1 1/2	.267	.368	3 7/8	2 3/4	2 1/8
2 x 1 1/2 x 2	.309	.407	4 9/16	3 3/16	2 5/16
2 x 1 1/2 x 1 1/2	.247	.373	4	2 13/16	2 3/16
3	.994	1.365	6 3/8	4 9/16	3 1/16
3 x 3 x 2	.658	.862	4 13/16	3 5/8	2 7/8
3 x 3 x 1 1/2	.576	.813	4 3/16	3 5/8	2 7/8
4	1.750	2.462	7 7/8	5 5/8	3 7/8
† 4 x 4 x 2	N/A	1.724	4 15/16	3 13/16	3 5/16

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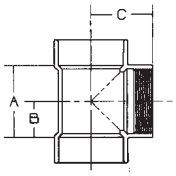
ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

TEES (Continued)

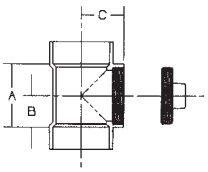
5811-14-V 4811-14-V



Test Tee (Hub x Hub x FIPT w/o plug)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
1 1/2	.178	.277	2 3/8	1 3/16	1 13/16
2	.252	.388	3	1 1/2	2 1/8
3	.718	1.024	3 3/4	1 7/8	2 5/8
4	1.355	1.966	5	2 1/2	3 3/8

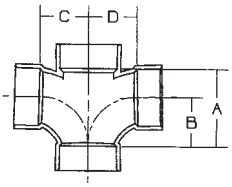
5814 4814



Test Tee (Hub x Hub x Cleanout w/Plug)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
1 1/2	.225	.339	2 3/8	1 3/16	1 13/16
2	.312	.471	3	1 1/2	2 1/8
3	.879	1.250	3 3/4	1 7/8	2 5/8
4	1.629	2.333	5	2 1/2	3 3/8

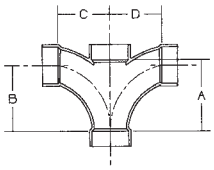
5835 4835



Double Sanitary Tee (All Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES	DIM. D INCHES
1 1/2	.262	.381	2 5/8	1 11/16	1 11/16	1 11/16
2	.394	.575	3 11/16	2 5/16	2 5/16	2 5/16
2 x 2 x 1 1/2 x 1 1/2	.356	.496	3	1 7/8	2 1/8	2 1/8
3	1.254	1.740	4 25/32	3 1/32	3 1/32	3 1/32
3 x 3 x 2 x 2	.784	1.025	3 5/16	2 1/8	2 7/8	2 7/8
3 x 3 x 2 x 1 1/2	.724	1.012	3 5/16	2 1/8	2 7/8	2 9/16
3 x 3 x 1 1/2 x 1 1/2	.644	.900	2 11/16	1 3/4	2 9/16	2 9/16
4	2.190	3.033	6 1/8	3 7/8	3 7/8	3 7/8
4 x 4 x 3 x 3	1.576	2.270	4 3/4	3	3 9/16	3 9/16
4 x 4 x 2 x 2	1.111	1.538	3 3/16	2 1/16	3 5/16	3 5/16

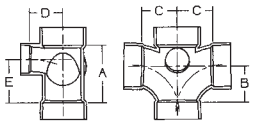
5835-B 4835-B



Double Fixture Tee (All Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES	DIM. D INCHES
2	.593	.818	4 5/8	4 1/4	3 1/2	3 1/2
2 x 1 1/2 x 2 x 2	.585	.810	4 5/8	4 1/4	3 1/2	3 1/2
2 x 1 1/2 x 1 1/2 x 1 1/2	.409	.526	3 9/16	3 3/16	2 7/8	2 7/8
2 x 2 x 1 1/2 x 1 1/2	.428	.55	3 1/2	3 1/8	2 7/8	2 7/8
3	1.813	2.607	6 3/4	6 1/4	4 15/16	4 15/16
3 x 2 x 3 x 3	1.689	2.409	6 3/4	6 1/4	4 15/16	4 15/16

5835-9 4835-9



Double Sanitary Tee w/One-90° Side Inlet (All Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES	DIM. D INCHES	DIM. E INCHES
3 x 3 x 3 x 3 x 2	1.392	1.885	4 7/8	3 1/16	3 1/16	2 7/8	3 11/16
3 x 3 x 3 x 3 x 1 1/2	1.338	1.858	4 7/8	3 1/16	3 1/16	2 9/16	3 11/16
4 x 4 x 4 x 4 x 2	2.282	3.187	6 1/8	3 7/8	3 7/8	3 5/16	5

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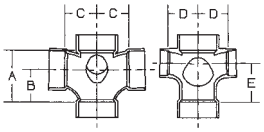
ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

TEES (Continued)

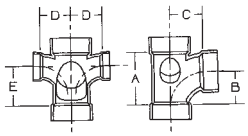
5835-9-9 4835-9-9



Double Sanitary Tee w/Two-90° Side Inlets (All Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES	DIM. D INCHES	DIM. E INCHES
3 x 3 x 3 x 3 x 2 x 2	1.549	2.063	4 7/8	3 1/16	3 1/16	2 7/8	3 11/16
4 x 4 x 4 x 4 x 2 x 2	2.477	3.329	6 1/8	3 7/8	3 7/8	3 5/16	5

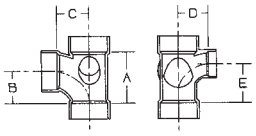
5870 4870



Sanitary Tee w/90° Right & Left Inlets (All Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES	DIM. D INCHES	DIM. E INCHES
3 x 3 x 3 x 2 x 2	1.354	1.775	4 7/8	3 1/16	3 1/16	2 7/8	3 11/16
† 3 x 3 x 3 x 1 1/2 x 1 1/2	N/A	1.620	4 7/8	3 1/16	3 1/16	2 9/16	3 11/16
† 4 x 4 x 4 x 2 x 2	2.079	2.735	6 1/8	3 7/8	3 7/8	3 5/16	5

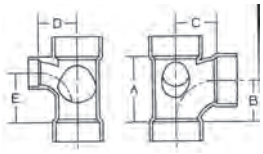
5871 4871



Sanitary Tee w/90° Left Inlet (All Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES	DIM. D INCHES	DIM. E INCHES
3 x 3 x 3 x 2	1.125	1.561	4 7/8	3 1/16	3 1/16	2 7/8	3 11/16
3 x 3 x 3 x 1 1/2	1.061	1.503	4 7/8	3 1/16	3 1/16	2 9/16	3 11/16
4 x 4 x 4 x 2	2.079	2.600	6 1/8	3 7/8	3 7/8	3 5/16	5

5872 4872

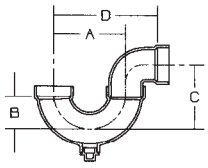


Sanitary Tee w/90° Right Inlet (All Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES	DIM. D INCHES	DIM. E INCHES
3 x 3 x 3 x 2	1.147	1.543	4 7/8	3 1/16	3 1/16	2 7/8	3 11/16
3 x 3 x 3 x 1 1/2	1.061	1.479	4 7/8	3 1/16	3 1/16	2 9/16	3 11/16
4 x 4 x 4 x 2	1.889	2.584	6 1/8	3 7/8	3 7/8	3 5/16	5

TRAPS

5884 4884



P-Trap (Hub x Hub x Cleanout w/Plug)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES	DIM. D INCHES
1 1/2	.405	.547	3 1/4	1 3/8	3 5/8	4 7/16
2	.678	.946	5	2 1/4	4 5/8	6 1/2

WARNING: This product can expose you to chemicals including styrene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

† Available in PVC only
F Fabricated

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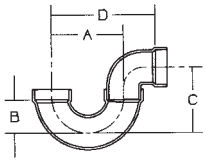
ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

TRAPS (Continued)

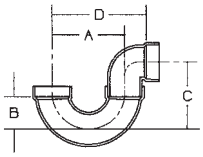
5885 4885



P-Trap (Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES	DIM. D INCHES
1 1/2	.377	.514	3 1/4	1 3/8	3 5/8	4 13/16
2	.661	.923	5	2 1/4	4 1/2	7 1/4
3	1.748	2.474	6 5/16	2 11/16	6 5/16	8 7/16
4	3.479	4.814	8 1/2	3 11/16	9 3/8	11 31/32

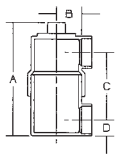
4885-WB



Washer Box P-Trap (Hub x Hub)

NOM. SIZE	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES	DIM. D INCHES
† 2	.871	5	2 1/4	4 5/8	6 1/2

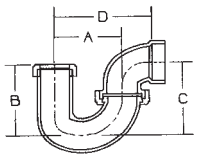
5891 4891



Swivel Drum Trap (Hub x Hub x Cleanout w/Plug)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES	DIM. D INCHES
1 1/2 x 3 x 6	.980	1.342	8	1 3/4	4 5/8	1 3/16

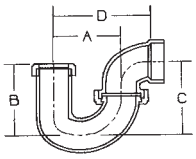
5892 4892



P-Trap w/Union Joint (Hub x SJ)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES	DIM. D INCHES
1 1/2	.453	.634	3 1/2	3 3/4	3 13/16	5 1/16
1 1/2 x 1 1/4	.412	.576	3 1/2	3 3/4	3 13/16	5 1/16

5892-C 4892-C



P-Trap w/Union Joint (Hub x SJ w/Chrome Nut)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES	DIM. D INCHES
1 1/2	.482	.663	3 1/2	3 3/4	3 13/16	5 1/16
1 1/2 x 1 1/4	.435	.599	3 1/2	3 3/4	3 13/16	5 1/16

WARNING: This product can expose you to chemicals including styrene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

† Available in PVC only

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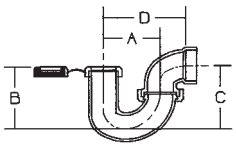
ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

TRAPS (Continued)

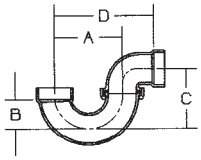
5893 4893



P-Trap w/Union Joint L.A. Pattern (Hub x SJ)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES	DIM. D INCHES
1 1/2 or 1 1/2 x 1 1/4	.485	.666	3 1/2	3 5/8	3 1/2	4 1/2

5895 4895

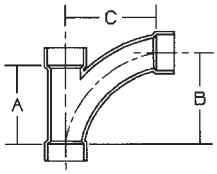


P-Trap w/Union Joint (Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES	DIM. D INCHES
1 1/4	.341	.468	3 1/2	1 3/8	3 5/8	4 5/8
1 1/2	.398	.572	3 1/4	1 3/8	3 5/8	4 13/16
2	.725	.929	5	2 1/4	5	7 1/4

TY'S

5812-LR 4812-LR



Long Radius TY (Hub x Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
1 1/2	.338	.458	3 1/2	3 7/8	3 15/16
2	.520	.694	4 7/16	5 1/8	5 1/8
2 x 2 x 1 1/2	.360	.517	3 1/2	3 7/8	4 5/32
* 2 x 1 1/2 x 2	.522	N/A	4 7/16	5 1/8	5 1/8
2 x 1 1/2 x 1 1/2	.376	.537	3 1/2	3 7/8	4 5/32
3	1.608	2.226	6 1/2	7 9/16	7 9/16
3 x 3 x 2	.936	1.255	4 7/16	5 1/8	5 11/16
3 x 3 x 1 1/2	.750	1.075	3 1/2	3 15/16	43/4
4	3.174	4.152	8 1/2	10	10
4 x 4 x 3	2.089	2.919	6 1/2	7 9/16	8 1/16
4 x 4 x 2	1.340	1.845	4 1/2	5 1/8	6 1/8

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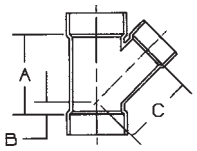
ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

WYES

5810 4810



45° Wye (Hub x Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
1 1/4	.220	.312	3 5/8	1 1/16	2 9/16
1 1/2	.264	.373	3 7/8	1 1/16	2 13/16
2	.426	.567	5	1 3/8	3 5/8
2 x 2 x 1 1/2	.372	.470	4 1/4	1	3 3/8
2 x 1/2 x 1 1/2	.309	.413	3 19/32	1 1/16	2 31/32
3	1.254	1.697	6 5/8	1 5/8	5
3 x 3 x 2	.826	1.157	5	7/8	4 5/8
3 x 3 x 1 1/2	.781	1.099	4 5/32	7/16	4 9/32
4	2.305	3.171	8 1/4	1 7/8	6 3/8
4 x 4 x 3	1.753	2.418	6 5/8	1 1/16	6
4 x 4 x 2	1.311	1.828	5 1/16	3/8	5 9/16
4 x 4 x 1 1/2	1.390	1.922	5 1/16	3/8	5 7/8
6	5.053	7.144	10 3/8	1 3/4	8 7/16
6 x 6 x 4	3.562	4.833	7 1/4	1/4	7 1/2
6 x 6 x 3	3.973	5.566	7 1/4	1/4	7 3/4
† 8	N/A	15.200	14 3/4	2 3/8	11 3/4
† 8 x 8 x 6	N/A	10.720	9 1/2	1	9 13/16
† 8 x 8 x 4	N/A	12.911	8	3/8	8 5/8

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† Available in PVC only

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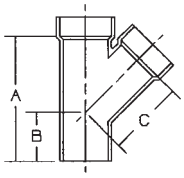
ABS & PVC-DWV Fittings

5800 Series ABS/4800 Series PVC

WYES (Continued)

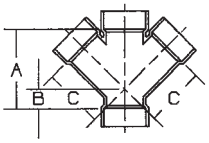
5810-2 4810-2



45° Street Wye (Spg x Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
* 1 1/2	.258	N/A	4 11/16	1 13/16	2 7/8
2	.414	.567	5 29/32	2 1/4	3 21/32
3	1.199	.595	8 1/8	3 1/8	5
3 x 3 x 2	.827	1.158	6 1/2	2 3/8	4 5/8
† 3 x 3 x 1 1/2	.725	1.015	5 3/4	2	4 5/16
4	2.183	3.056	10	3 5/8	6 3/8
4 x 4 x 3	1.678	2.349	8 3/8	2 13/16	6
† 4 x 4 x 2	N/A	1.768	6 13/16	2 1/8	5 9/16

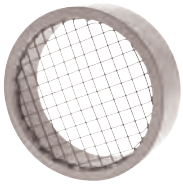
5834 4834

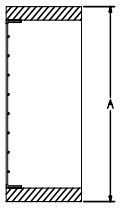


45° Double Wye (All Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
1 1/2	.365	.504	4	1 1/8	2 7/8
2	.558	.787	5	1 3/8	3 5/8
2 x 2 x 1 1/2 x 1 1/2	.453	.619	4 3/8	1 1/16	3 7/16
3	1.557	2.261	6 5/8	1 5/8	5
3 x 3 x 2 x 2	.975	1.346	5	7/8	4 5/8
3 x 3 x 1 1/2 x 1 1/2	.815	1.170	4 1/4	1/2	4 5/16
4	2.800	3.956	8 1/4	1 7/8	6 3/8
4 x 4 x 3 x 3	2.072	2.899	6 5/8	1 1/16	6
4 x 4 x 2 x 2	1.400	1.995	5 1/16	3/8	5 9/16
† 6	N/A	5.000	10 3/16	1 3/4	8 7/16
6 x 6 x 4 x 4	4.079	5.706	7 1/4	1/4	7 1/2

4818-SCRN





Termination Screen PVC/SS (SPIGOT)

NOM. SIZE	PVC APPROX. NET WT./LBS.	OUTSIDE DIM. INCHES	WIDTH INCHES
2	.073	2.38"	1.08"
3	.147	3.5"	1.08"
4	.220	4.5"	1.08"

WARNING: This product can expose you to chemicals including styrene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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† Available in PVC only

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CPVC-CTS Pressure Fittings

FlowGuard Gold® is a patented CPVC formulated compound developed by Lubrizol Advanced Materials, Inc. to improve the impact resistance of CPVC hot & cold water plumbing products.

FLOWGUARD GOLD®
CPVC

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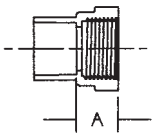
CPVC-CTS Pressure Fittings

ADAPTERS

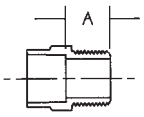
4703



Female Adapter w/Washer (Slip x FIPT)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	.026	3/4
3/4	.039	25/32
1	.065	29/32

4704

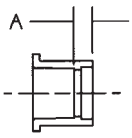


Male Adapter (Slip x MIPT)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	.023	7/8
3/4	.035	7/8
1	.060	1 1/16
1 1/4	.104	1 1/16
1 1/2	.155	1 1/8
2	.285	1 3/16

BUSHINGS

4718



Bushing (Spg x Slip)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
3/4 x 1/2	.012	7/32
1 x 1/2	.031	1/2
1 x 3/4	.025	5/16
1 1/4 x 1/2	.052	23/32
1 1/4 x 3/4	.055	1/2
1 1/4 x 1	.039	5/16
1 1/2 x 1/2	.081	29/32
1 1/2 x 3/4	.083	29/32
1 1/2 x 1	.083	1/2
1 1/2 x 1 1/4	.053	5/16
2 x 1/2	.170	1 5/16
2 x 3/4	.171	1 1/8
2 x 1	.174	29/32
2 x 1 1/4	.182	23/32
2 x 1 1/2	.148	1/2

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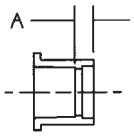
CPVC-CTS Pressure Fittings

BUSHINGS (Continued)

4718-T

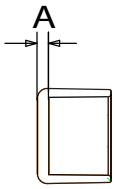


Transition Bushing (Spigot IPS x Slip CTS)

NOM. SIZE		APPROX. NET WT./LBS.	DIM. A INCHES
1	(IPS) x 1 (CTS)	.030	9/32
1 1/4	(IPS) x 1 1/4 (CTS)	.057	1/4
1 1/2	(IPS) x 1 1/2 (CTS)	.070	3/16
2	(IPS) x 2 (CTS)	.111	1/8

CAPS

4717

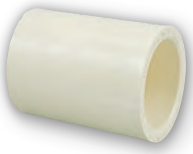


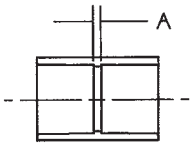
Cap (Slip)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	.012	1/8
3/4	.019	1/8
1	.034	5/16
1 1/4	.061	7/16
1 1/2	.100	1/2
2	.219	5/8

COUPLINGS

4701

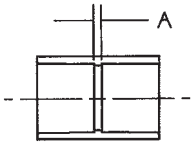




Coupling (Slip x Slip)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	.017	1/8
3/4	.030	1/8
3/4 x 1/2	.021	1/8
1	.048	1/8
1 x 3/4	.039	1/8
1 1/4	.086	1/8
1 1/2	.139	1/8
2	.305	1/8

4701-T



Transition Coupling (Slip IPS x Slip CTS)

NOM. SIZE		APPROX. NET WT./LBS.	DIM. A INCHES
3/4	(IPS) x 3/4 (CTS)	.039	1/8
1	(IPS) x 1 (CTS)	.068	1/8
2	(IPS) x 2 (CTS)	.330	1/8

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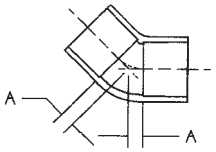
CPVC-CTS Pressure Fittings

ELBOWS

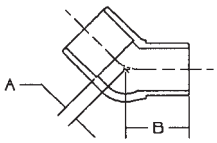
4706



45° Ell (Slip x Slip)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	.020	3/16
3/4	.036	1/4
1	.077	5/16
1 1/4	.108	11/32
1 1/2	.174	13/32
2	.382	1/2

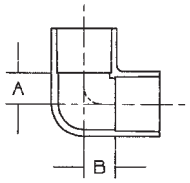
4706-2



45° Street Ell (Spg x Slip)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
1/2	.018	3/16	13/16
3/4	.032	1/4	1 1/16
1	.074	5/16	1 1/4

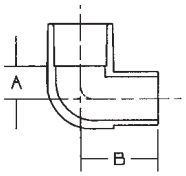
4707



90° Ell (Slip x Slip)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
1/2	.025	13/32	13/32
3/4	.052	17/32	17/32
3/4 x 1/2	.034	13/32	17/32
1	.077	21/32	21/32
1 1/4	.140	25/32	25/32
1 1/2	.223	29/32	29/32
2	.499	1 5/32	1 5/32

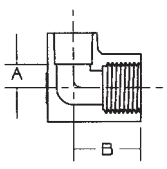
4707-2



90° Street Ell (Spg x Slip)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
1/2	.022	13/32	15/16
3/4	.039	21/32	1 9/32
1	.087	21/32	1 19/32

4707-3-5



90° Drop Ear Ell w/Washer (Slip x FIPT)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
1/2	.067	13/32	1 1/8

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F Fabricated using NSF listed Elbows, Bushings, and 1-Step Solvent Cement

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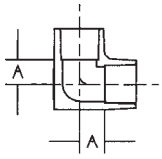
CPVC-CTS Pressure Fittings

ELBOWS (Continued)

4707-5

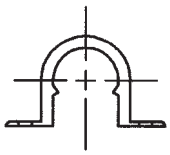


90° Drop Ear Ell (Slip x Slip)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	.036	13/32

STRAPS

4724



"Snap-On" Strap (Polypropylene)

NOM. SIZE	APPROX. NET WT./LBS.
1/2	.003
3/4	.004

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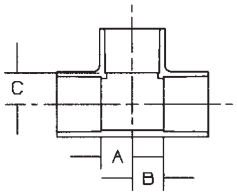
CPVC-CTS Pressure Fittings

TEES

4711



Tee (Slip x Slip x Slip)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
1/2	.034	13/32	13/32	13/32
3/4	.063	17/32	17/32	17/32
3/4 x 3/4 x 1/2	.045	13/32	13/32	17/32
3/4 x 1/2 x 3/4	.053	17/32	19/32	17/32
3/4 x 1/2 x 1/2	.042	13/32	15/32	17/32
1	.100	21/32	21/32	21/32
1 x 1 x 3/4	.084	17/32	17/32	21/32
1 1/4	.174	25/32	25/32	25/32
1 1/2	.284	29/32	29/32	29/32
1 1/2 x 1 1/2 x 1	.215	21/32	21/32	29/32
2	.636	15/32	15/32	1 5/32
2 x 2 x 1	.421	21/32	21/32	1 5/32

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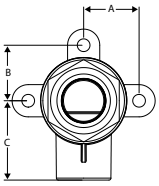
CPVC-CTS Pressure Fittings

TRANSITION FITTINGS

4707-3-5-SI

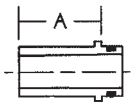


Lead-Free 90° Drop Ear Ell (CPVC Slip x Stainless Steel FIPT)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
*1/2	.218	.925	.925	1.38

*This product NOT made from FlowGuard Gold® material

4732-2



Compression Fitting (SPG)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	.020	$1\frac{7}{16}$
3/4	.034	$1\frac{7}{16}$

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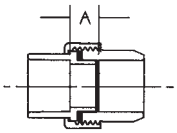
CPVC-CTS Pressure Fittings

TRANSITION UNIONS

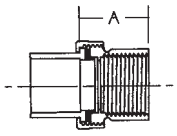
4733-LF



Union (CPVC Slip x Copper Silicon Alloy Solder)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	.106	17/32
3/4	.221	9/16

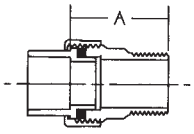
4733-3-LF



Union (CPVC Slip x Copper Silicon Alloy FIPT)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	.179	$1\frac{13}{32}$
3/4	.299	$1\frac{7}{16}$
1	.435	17/16

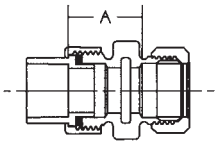
4733-4



Union (CPVC Slip x Copper MIPT)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	.131	$1\frac{15}{32}$
1/2 x 3/4	.188	$1\frac{23}{32}$
3/4	.255	$1\frac{11}{32}$

4733-7-LF



Union (CPVC Slip x Copper Silicon Alloy Compression)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	.237	$1\frac{15}{32}$
3/4	.453	$1\frac{11}{32}$

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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PVC Schedule 40 Pressure Fittings

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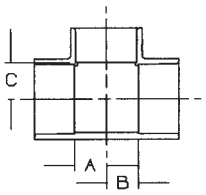
PVC Schedule 40 Pressure Fittings

TEES

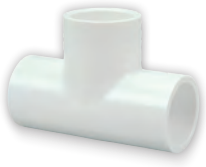
4611

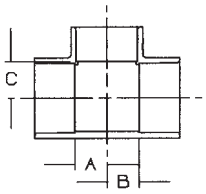


Tee (Slip x Slip x Slip)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
401-005	1/2	.065	1/2	1/2	1/2
401-007	3/4	.099	9/16	9/16	9/16
401-010	1	.155	11/16	11/16	11/16
401-012	1 1/4	.241	7/8	7/8	7/8
401-015	1 1/2	.353	1	1	1
401-020	2	.448	1 1/4	1 1/4	1 1/4
401-025	2 1/2	.913	1 1/2	1 1/2	1 1/2
401-030	3	1.588	1 13/16	1 13/16	1 13/16
401-040	4	2.630	2 5/16	2 5/16	2 5/16
401-050	5	7.000	2 1/8	2 1/8	2 1/8
401-060	6	9.480	3 1/2	3 1/2	3 1/2
401-080	8	21.105	4 9/16	4 9/16	4 9/16

4611





Reducing Tee (Slip x Slip x Slip)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
401-074	1/2 x 1/2 x 3/4	.125	9/16	9/16	1/2
401-094	3/4 x 1/2 x 1/2	.073	1/2	1/2	9/16
401-095	3/4 x 1/2 x 3/4	.155	9/16	9/16	9/16
401-101	3/4 x 3/4 x 1/2	.081	1/2	1/2	9/16
401-102	3/4 x 3/4 x 1	.220	23/32	23/32	19/32
401-124	1 x 3/4 x 1/2	.185	17/32	17/32	23/32
401-125	1 x 3/4 x 3/4	.204	23/32	23/32	23/32
401-130	1 x 1 x 1/2	.123	1/2	1/2	11/16
401-131	1 x 1 x 3/4	.132	9/16	9/16	11/16
401-133	1 x 1 x 1 1/2	.250	7/8	7/8	7/8
401-157	1 1/4 x 1 x 1 3/4	.290	1/2	1/2	7/8
401-166	1 1/4 x 1 1/4 x 1/2	.175	1/2	1/2	7/8
401-167	1 1/4 X 1 1/4 X 3/4	.170	9/16	9/16	7/8
401-168	1 1/4 X 1 1/4 X 1	.176	11/16	11/16	7/8
401-201	1 1/2 x 1 1/4 x 3/4	.385	1 1/16	1 1/16	1 1/16
401-202	1 1/2 x 1 1/4 x 1	.410	1 1/16	1 1/16	1 1/16
401-209	1 1/2 x 1 1/2 x 1/2	.209	1/2	1/2	1
401-210	1 1/2 x 1 1/2 x 3/4	.218	9/16	9/16	1
401-211	1 1/2 x 1 1/2 x 1	.248	11/16	11/16	1
401-212	1 1/2 x 1 1/2 x 1 1/4	.475	7/8	7/8	1
401-213	1 1/2 x 1 1/2 x 2	.673	1 5/16	1 5/16	1 1/16
401-241	2 x 1 1/2 x 1 1/2	.500	1 1/4	1 1/4	1
401-247	2 x 2 x 1/2	.275	1/2	1/2	1 1/4
401-248	2 x 2 x 3/4	.296	9/16	9/16	1 1/4
401-249	2 x 2 x 1	.325	11/16	11/16	1 1/4
401-250	2 x 2 x 1 1/4	.650	7/8	7/8	1 1/4
401-251	2 x 2 x 1 1/2	.673	1	1	1 1/4

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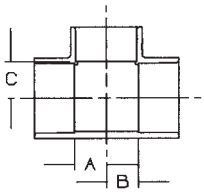
PVC Schedule 40 Pressure Fittings

TEES (Continued)

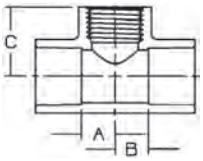
4611



Reducing Tee (Slip x Slip x Slip) (continued)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
401-287	2 1/2 x 2 1/2 x 1/2	1.100	1/2	1/2	1 1/2
401-288	2 1/2 x 2 1/2 x 3/4	1.100	19/32	19/32	1 1/2
401-289	2 1/2 x 2 1/2 x 1	.579	11/16	11/16	1 1/2
401-290	2 1/2 x 2 1/2 x 1 1/4	1.110	1 1/16	1 1/16	1 11/16
401-291	2 1/2 x 2 1/2 x 1 1/2	1.110	1 9/32	1 9/32	1 1/2
401-292	2 1/2 x 2 1/2 x 2	1.180	1 1/4	1 1/4	1 1/2
401-333	3 x 3 x 1/2	.950	23/32	23/32	1 15/16
401-334	3 x 3 x 3/4	.785	3/4	3/4	2
401-335	3 x 3 x 1	.965	11/16	11/16	1 13/16
401-336	3 x 3 x 1 1/4	1.200	7/8	7/8	1 13/16
401-337	3 x 3 x 1 1/2	1.112	1 1/4	1 1/4	1 3/4
401-338	3 x 3 x 2	.963	1 1/4	1 1/4	1 13/16
401-416	4 x 4 x 3/4	1.400	1 3/32	1 3/32	2 13/32
401-417	4 x 4 x 1	1.400	1 3/32	1 3/32	2 13/32
401-419	4 x 4 x 1 1/2	1.550	1 3/32	1 3/32	2 5/16
401-420	4 x 4 x 2	1.515	1 1/4	1 1/4	2 5/16
401-422	4 x 4 x 3	3.308	2 5/16	2 5/16	2 5/16
401-528	6 x 6 x 2	8.000	1 7/16	1 7/16	3 5/8
401-530	6 x 6 x 3	8.250	2	2	3 5/8
401-532	6 x 6 x 4	8.500	2 1/2	2 1/2	3 5/8
401-582	8 x 8 x 4	19.000	2 1/2	2 1/2	4 5/8
401-585	8 x 8 x 6	20.000	3 5/8	3 5/8	4 5/8

4612



Tee (Slip x Slip x FIPT)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
402-005	1/2	.065	1/2	1/2	1 1/32
402-007	3/4	.097	9/16	9/16	1 1/8
402-010	1	.158	11/16	11/16	1 3/8
402-012	1 1/4	.390	7/8	7/8	1 19/32
402-015	1 1/2	.529	1	1	1 23/32
402-020	2	.760	1 1/4	1 1/4	2
402-030	3	1.850	1 13/16	1 13/16	3
402-040	4	3.220	2 5/16	2 5/16	3 5/8

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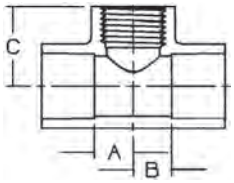
PVC Schedule 40 Pressure Fittings

TEES (Continued)

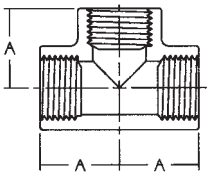
4612



Reducing Tee (Slip x Slip x FIPT)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
402-074	1/2 x 1/2 x 3/4	.145	21/32	21/32	1 9/16
402-094	3/4 x 1/2 x 1/2	.145	1/2	1/2	1 3/32
402-101	3/4 x 3/4 x 1/2	.088	1/2	1/2	1 3/32
402-124	1 x 3/4 x 1/2	.111	1/2	1/2	1 7/32
402-125	1 x 3/4 x 3/4	.211	9/16	9/16	1 1/4
402-130	1 x 1 x 1/2	.123	1/2	1/2	1 7/32
402-131	1 x 1 x 3/4	.130	9/16	9/16	1 1/4
402-156	1 1/4 x 1 x 1/2	.286	15/16	15/16	1 13/16
402-157	1 1/4 x 1 x 3/4	.298	15/16	15/16	1 15/16
402-158	1 1/4 x 1 x 1	.331	15/16	15/16	2 1/16
402-166	1 1/4 x 1 1/4 x 1/2	.170	1/2	1/2	1 13/32
402-167	1 1/4 x 1 1/4 x 3/4	.335	9/16	9/16	1 7/16
401-168	1 1/4 x 1 1/4 x 1	.357	11/16	11/16	1 9/16
402-199	1 1/2 x 1 1/4 x 1/2	.376	1 1/16	1 1/16	1 9/16
402-201	1 1/2 x 1 1/4 x 3/4	.380	1 1/16	1 1/16	2 1/16
402-202	1 1/2 x 1 1/4 x 1	.410	1 1/16	1 1/16	2 7/16
402-209	1 1/2 x 1 1/2 x 1/2	.410	1/2	1/2	1 17/32
402-210	1 1/2 x 1 1/2 x 3/4	.425	9/16	9/16	1 9/16
402-211	1 1/2 x 1 1/2 x 1	.453	1 1/16	1 1/16	2 3/16
402-212	1 1/2 x 1 1/2 x 1 1/4	.460	15/16	15/16	2 1/4
402-239	2 x 1 1/2 x 1	.556	1 9/32	1 9/32	2 13/32
402-247	2 x 2 x 1/2	.273	1/2	1/2	1 25/32
402-248	2 x 2 x 3/4	.287	9/16	9/16	1 13/16
402-249	2 x 2 x 1	.632	11/16	11/16	1 15/16
402-251	2 x 2 x 1 1/2	.698	1	1	1 31/32
402-288	2 1/2 x 2 1/2 x 3/4	.990	5/8	5/8	2 1/2
402-333	3 x 3 x 1/2	1.000	5/16	5/16	2 15/16
402-334	3 x 3 x 3/4	1.050	29/32	29/32	2 27/32
402-335	3 x 3 x 1	1.010	1	1	2 1/8
402-337	3 x 3 x 1 1/2	1.005	1 1/4	1 1/4	4 3/16
402-338	3 x 3 x 2	1.025	1 1/4	1 1/4	2 9/16
402-419	4 x 4 x 1 1/2	3.190	2 5/16	2 5/16	3
402-420	4 x 4 x 2	1.518	2 3/8	2 3/8	4 7/8
402-422	4 x 4 x 3	3.672	2 3/8	2 3/8	4 13/16

4612-3-3



Tee (FIPT x FIPT x FIPT)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
405-005	1/2	.115	1 3/8
405-007	3/4	.190	1 21/32
405-010	1	.290	1 29/32
405-015	1 1/2	.575	1 3/4

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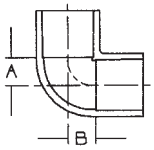
PVC Schedule 40 Pressure Fittings

ELBOWS

4607

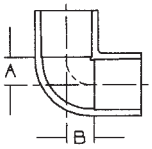


90° Ell (Slip x Slip)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
406-005	1/2	.047	1/2	1/2
406-007	3/4	.073	9/16	9/16
406-010	1	.105	11/16	11/16
406-012	1 1/4	.188	7/8	7/8
406-015	1 1/2	.240	1	1
406-020	2	.375	1 1/4	1 1/4
406-025	2 1/2	.869	1 1/2	1 1/2
406-030	3	1.189	1 13/16	1 13/16
406-040	4	2.100	2 5/16	2 5/16
406-050	5	5.000	3 1/4	3 1/4
406-060	*6	4.245	3 1/2	3 1/2
406-080	8	14.585	4 9/16	4 9/16

* Not listed to ASTM D2466

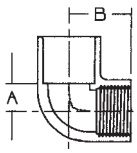
4607



Reducing 90° Ell (Slip x Slip)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
406-101	3/4 x 1/2	.061	1/2	9/16
406-130	1 x 1/2	.085	1/2	11/16
406-131	1 x 3/4	.155	13/16	23/32
406-167	1 1/4 x 3/4	.205	3/4	29/32
406-168	1 1/4 x 1	.240	7/8	27/32
406-251	2 x 1 1/2	.396	1 15/16	1 1/8

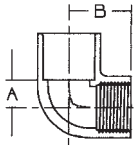
4607-3



90° Ell (Slip x FIPT)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
407-005	1/2	.054	1/2	1 13/32
407-007	3/4	.076	9/16	1 9/16
407-010	1	.124	11/16	1 13/16
407-012	1 1/4	.297	7/8	2 13/16
407-020	2	.540	1 1/4	2 13/16
407-025	2 1/2	.927	1 9/16	3 19/32
407-030	3	1.609	1 3/16	3
407-040	4	2.460	2 5/16	3 5/8

4607-3



Reducing 90° Ell (Slip x FIPT)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
407-074	1/2 x 3/4	.098	9/16	1 15/32
407-101	3/4 x 1/2	.065	9/16	1 5/8
407-130	1 x 1/2	.089	1/2	1 13/32
407-131	1 x 3/4	.101	3/4	1 7/8
407-211	1 1/2 x 1	.400	1	2 1/8
407-251	2 x 1 1/2	.575	1 1/4	2 5/32

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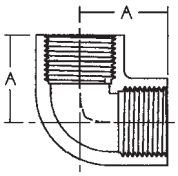
PVC Schedule 40 Pressure Fittings

ELBOWS (Continued)

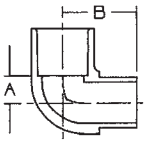
4607-3-3



90° Ell (FIPT x FIPT)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
408-005	1/2	.085	17/32
408-007	3/4	.138	121/32
408-010	1	.209	17/8
408-012	11/4	.320	23/16
408-015	11/2	.434	27/16
408-020	2	.675	27/8

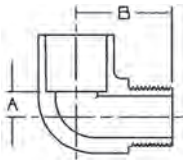
4607-2



90° Street Ell (Spg x Slip)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
409-005	1/2	.060	1/2	17/16
409-007	3/4	.071	9/16	19/16
409-010	1	.118	11/16	2
409-012	11/4	.200	7/8	21/16
409-015	11/2	.240	1	219/32
409-020	2	.363	11/4	27/8

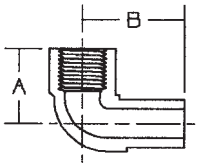
4607-4



90° Street Ell (MIPT x Slip)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
410-005	1/2	.042	3/8	113/32
410-007	3/4	.061	15/32	111/16
410-010	1	.110	19/32	17/8
410-012	11/4	.225	7/8	27/16
410-015	11/2	.223	1	23/16
410-020	2	.470	11/4	31/4

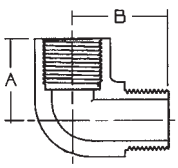
4607-2-3



90° Street Ell (Spg x FIPT)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
411-005	1/2	.048	13/16	11/2
411-007	3/4	.071	13/16	11/2

4607-3-4



90° Street Ell (MIPT x FIPT)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
412-005	1/2	.049	17/32	113/32
412-007	3/4	.105	15/16	19/16
412-010	1	.118	19/16	127/32
412-012	11/4	.173	125/32	21/16
412-015	11/2	.224	21/2	211/16
412-020	2	.512	213/16	31/4

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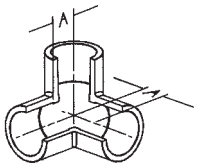
PVC Schedule 40 Pressure Fittings

ELBOWS (Continued)

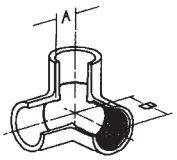
4607-9



90° Ell w/Side Outlet (Slip x Slip x Slip)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
413-005	1/2	.060	17/32
413-007	3/4	.076	9/16
413-010	1	.128	11/16
413-015	1 1/2	.248	1
413-020	2	.54	1 1/4

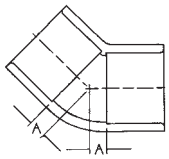
4607-9-3



90° Ell w/Side Outlet (Slip x Slip x FIPT)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
414-005	1/2	.063	1/2	1 1/4
414-101	3/4 x 3/4 x 1/2	.090	9/16	1 1/4
414-130	1 x 1 x 1/2	.133	11/16	1 13/32

4606

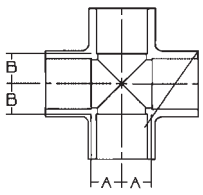


45° Ell (Slip x Slip)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
417-005	1/2	.037	1/4
417-007	3/4	.065	5/16
417-010	1	.098	11/32
417-012	1 1/4	.148	3/8
417-015	1 1/2	.191	7/16
417-020	2	.281	5/8
417-025	2 1/2	.676	11/16
417-030	3	.940	3/4
417-040	4	1.628	1
417-050	5	3.250	1 3/4
417-060	6	5.854	1 3/4
417-080	8	12.615	2

CROSSES

4635



Cross (All Slip)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
420-005	1/2	.076	1/2	1/2
420-007	3/4	.131	9/16	9/16
420-010	1	.180	11/16	11/16
420-012	1 1/4	.297	29/32	29/32
420-015	1 1/2	.377	1 1/32	1 1/32
420-020	2	.539	1 9/32	1 9/32
420-025	2 1/2	1.590	1 1/2	1 1/2
420-030	3	2.400	1 13/16	1 13/16
420-040	4	4.140	2 5/16	2 5/16

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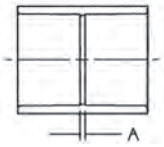
PVC Schedule 40 Pressure Fittings

COUPLINGS

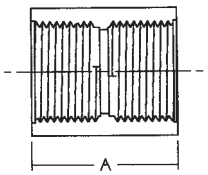
4601



Coupling (Slip x Slip)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
429-005	1/2	.032	3/32
429-007	3/4	.049	3/32
429-010	1	.080	3/32
429-012	1 1/4	.121	3/32
429-015	1 1/2	.149	3/32
429-020	2	.200	3/32
429-025	2 1/2	.648	3/16
429-030	3	.570	3/16
429-040	4	.919	3/16
429-050	5	1.933	1/4
429-060	6	2.100	1/4
429-080	8	5.100	1/4
429-100	10	8.533	1/2
429-120	12	14.490	1/2

4601-3-3

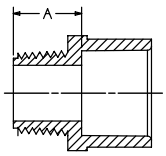


Coupling (FIPT x FIPT)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
430-005	1/2	.037	1 1/2
430-007	3/4	.047	1 17/32
430-010	1	.160	2 1/16
430-073	1/2 x 3/8	.054	1 11/16

ADAPTERS

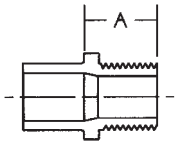
4604-GH



Male Garden Hose Adapter (MGH x SLP)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
432-006	3/4 x 1/2	.030	21/32
432-007	3/4	.041	11/16

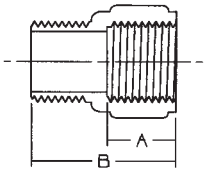
4604-2



Male Fitting Adapter (Spg x MIPT)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
433-005	1/2	.025	29/32
433-007	3/4	.036	1 3/16

4604-3



Riser Extender (MIPT x FIPT)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
434-005	1/2	.045	11/16	2 1/16
434-007	3/4	.110	13/16	1 19/32
434-010	1	.175	7/8	1 15/16

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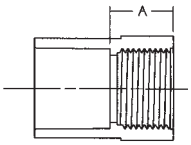
PVC Schedule 40 Pressure Fittings

ADAPTERS (Continued)

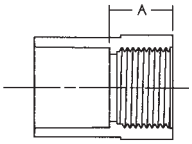
4603



Female Adapter (Slip x FIPT)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
435-005	1/2	.038	13/16
435-007	3/4	.051	13/16
435-010	1	.082	3/32
435-012	1 1/4	.108	1
435-015	1 1/2	.132	1
435-020	2	.180	1
435-025	2 1/2	.624	1 13/32
435-030	3	.548	1 1/2
435-040	4	.838	1 19/32
435-050	5	.750	5 3/32
435-060	6	2.535	5 3/4
435-080	8	5.000	2 1/4

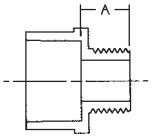
4603



Reducing Female Adapter (Slip x FIPT)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
435-074	1/2 x 3/4	.038	13/16
435-075	1/2 x 1	.061	31/32
435-101	3/4 x 1/2	.045	13/16
435-102	3/4 x 1	.078	31/32
435-131	1 x 3/4	.065	5/8

4604



Male Adapter (MIPT x Slip)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
436-005	1/2	.027	7/8
436-007	3/4	.043	11/16
436-010	1	.072	7/8
436-012	1 1/4	.102	7/8
436-015	1 1/2	.126	29/32
436-020	2	.175	31/32
436-025	2 1/2	.351	1 1/2
436-030	3	.520	1 21/32
436-040	4	.846	1 3/4
436-060	6	2.500	2 1/4
436-080	8	4.040	2 1/4

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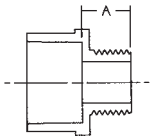
PVC Schedule 40 Pressure Fittings

ADAPTERS (Continued)

4604

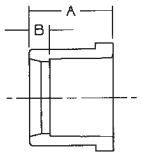


Reducing Male Adapter (MIPT X Slip)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
436-074	1/2 x 3/4	.039	7/8
436-101	3/4 x 1/2	.029	7/8
436-102	3/4 x 1	.064	15/16
436-130	1 x 1/2	.046	13/32
436-131	1 x 3/4	.049	13/32
436-132	1 x 1 1/4	.099	1 1/8
436-168	1 1/4 x 1	.112	1 1/32
436-169	1 1/4 x 1 1/2	.157	13/16
436-212	1 1/2 x 1 1/4	.107	1 1/32
436-213	1 1/2 x 2	.173	1 1/8
436-251	2 x 1 1/2	.154	1 1/16
436-252	2 x 2 1/2	.525	1 5/16

BUSHINGS

4618



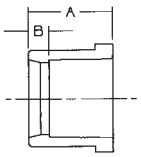
Bushing (Spg x Slip)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
437-073	1/2 x 3/8	.010	15/16	1/4
437-101	3/4 x 1/2	.019	1 7/32	5/16
437-130	1 x 1/2	.046	1 9/32	1/2
437-131	1 x 3/4	.034	1 9/32	9/32
437-166	1 1/4 x 1/2	.085	1 7/8	11/16
437-167	1 1/4 x 3/4	.084	1 1/2	3/4
437-168	1 1/4 x 1	.061	1 15/16	13/32
437-209	1 1/2 x 1/2	.140	1 17/32	5/8
437-210	1 1/2 x 3/4	.114	1 1/2	17/32
437-211	1 1/2 x 1	.111	1 1/2	7/16
437-212	1 1/2 x 1 1/4	.057	1 1/2	1/4
437-247	2 x 1/2	.146	1 11/16	25/32
437-248	2 x 3/4	.200	1 9/16	13/16
437-249	2 x 1	.158	1 9/16	1/2
437-250	2 x 1 1/4	.170	1 9/16	5/16
437-251	2 x 1 1/2	.131	1 9/16	1/4
437-287	2 1/2 x 1/2	.320	1 15/16	1 3/32
437-288	2 1/2 x 3/4	.320	1 15/16	31/32
437-289	2 1/2 x 1	.330	1 15/16	27/32
437-290	2 1/2 x 1 1/4	.280	1 15/16	23/32
437-291	2 1/2 x 1 1/2	.330	1 15/16	19/32
437-292	2 1/2 x 2	.201	1 31/32	19/32

PVC Schedule 40 Pressure Fittings

BUSHINGS (Continued)

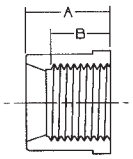
4618



Bushing (Spg x Slip) (continued)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
437-335	3 x 1	.655	2 13/32	19/32
437-336	3 x 1 1/4	.736	1 31/32	11/16
437-337	3 x 1 1/2	.688	2 13/32	1 1/32
437-338	3 x 2	.417	2 1/8	3/4
437-339	3 x 2 1/2	.337	2 1/8	11/32
437-420	4 x 2	.680	2 1/2	11/8
437-421	4 x 2 1/2	1.145	2 15/16	1 1/32
437-422	4 x 3	.773	2 1/2	1 9/32
437-488	5 x 3	1.250	3 7/32	27/32
437-490	5 x 4	1.270	3 1/4	3/4
437-528	6 x 2	3.275	3 1/32	19/16
437-530	6 x 3	2.000	3 5/16	15/16
437-532	6 x 4	2.169	3 1/32	25/32
437-534	6 x 5	2.600	4	1
437-582	8 x 4	4.250	5 3/16	2 7/8
437-585	8 x 6	4.200	49/16	19/16

4618-3



Bushing (Spg x FIPT)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
438-072	1/2 x 1/4	.010	1 1/16	21/32
438-073	1/2 x 3/8	.010	15/16	1/4
438-098	3/4 x 1/4	.100	1 9/16	25/32
438-101	3/4 x 1/2	.026	2 9/32	11/16
438-130	1 x 1/2	.054	1 1/4	11/16
438-131	1 x 3/4	.041	1 1/16	23/32
438-166	1 1/4 x 1/2	.141	1 1/8	17/32
438-167	1 1/4 x 3/4	.082	1 1/8	9/16
438-168	1 1/4 x 1	.099	1 1/8	11/16
438-209	1 1/2 x 1/2	.205	1 25/32	15/32
438-210	1 1/2 x 3/4	.097	1 1/2	23/32
438-211	1 1/2 x 1	.164	1 1/2	7/8
438-212	1 1/2 x 1 1/4	.057	1 1/2	29/32

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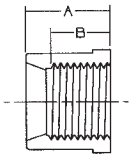
PVC Schedule 40 Pressure Fittings

BUSHINGS (Continued)

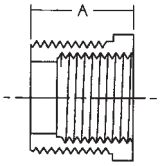
4618-3



Bushing (Spg x FIPT) (continued)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
438-247	2 x 1/2	.338	1 11/32	17/32
438-248	2 x 3/4	.147	1 9/16	23/32
438-249	2 x 1	.292	1 29/32	9/16
438-250	2 x 1 1/4	.238	1 29/32	19/32
438-251	2 x 1 1/2	.130	1 29/32	19/32
438-289	2 1/2 x 1	.512	1 11/32	11/16
438-291	2 1/2 x 1 1/2	.416	1 11/32	23/32
438-292	2 1/2 x 2	.297	2 3/16	5/8
438-335	3 x 1	.671	2 7/16	9/16
438-337	3 x 1 1/2	.727	2 7/16	19/32
438-338	3 x 2	.668	2 1/16	3/4
438-339	3 x 2 1/2	.526	2 7/16	15/16
438-420	4 x 2	1.180	2 13/16	5/8
438-421	4 x 2 1/2	1.476	3 5/16	1 1/8
438-422	4 x 3	1.042	2 13/16	1 1/32
438-490	5 x 4	1.750	3 13/32	1 3/32
438-532	6 x 4	2.920	3 1/16	1 3/32

4618-3-4



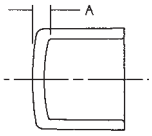
Bushing (MIPT x FIPT)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
439-072	1/2 x 1/4	.016	15/16
439-098	3/4 x 1/4	.026	31/32
439-101	3/4 x 1/2	.030	31/32
439-130	1 x 1/2	.050	1 1/8
439-131	1 x 3/4	.048	1 1/8
439-166	1 1/4 x 1/2	.068	1 1/8
439-167	1 1/4 x 3/4	.100	1 1/8
439-168	1 1/4 x 1	.090	1 1/8
439-209	1 1/2 x 1/2	.180	1 1/4
439-210	1 1/2 x 3/4	.160	1 1/4
439-211	1 1/2 x 1	.135	1 1/4
439-212	1 1/2 x 1 1/4	.090	1 1/4
439-249	2 x 1	.230	1 15/32
439-250	2 x 1 1/4	.240	1 7/16
439-251	2 x 1 1/2	.093	1 1/8
439-338	3 x 2	.560	2 1/32

PVC Schedule 40 Pressure Fittings

CAPS

4617

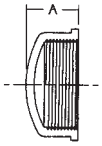


Cap (Slip)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
447-005	1/2	.022	7/32
447-007	3/4	.034	7/32
447-010	1	.055	1/4
447-012	1 1/4	.095	1/4
447-015	1 1/2	.115	1/4
447-020	2	.169	9/32
447-025	2 1/2	.405	11/32
447-030	3	.469	15/16
447-040	4	.789	1 3/32
447-050	5	2.000	15/16
447-060	6	1.940	1 3/4
447-080	8	3.900	1 3/8

Consult Customer Service to determine if caps are flat or domed.

4617-3



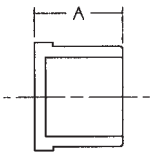
Cap (FIPT)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
448-005	1/2	.025	27/32
448-007	3/4	.030	7/8
448-010	1	.055	1 1/32
448-012	1 1/4	.161	1 7/32
448-015	1 1/2	.094	1 3/4
448-020	2	.132	1 3/8
448-025	2 1/2	.455	2 15/16
448-030	3	.665	2 29/32
448-040	4	.755	3 1/4

Consult Customer Service to determine if caps are flat or domed.

PLUGS

4616



Plug (Spg)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
449-005	1/2	.028	1 5/32
449-007	3/4	.040	1 9/16
449-010	1	.070	1
449-012	1 1/4	.116	1 21/32
449-015	1 1/2	.167	1 25/32
449-020	2	.235	1 15/16
449-025	2 1/2	.310	2 3/32
449-030	3	.450	2 13/32
449-040	4	.680	2 13/32

Sizes 1/2" and 3/4" hex end; Sizes 1" and 1-1/2" round end; all others have octogon end

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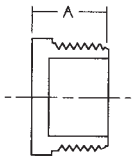
PVC Schedule 40 Pressure Fittings

PLUGS (Continued)

4616-4

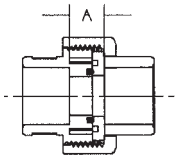


Plug (MIPT)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
450-002	1/4	.007	23/32
450-005	1/2	.020	1 1/16
450-007	3/4	.030	1 3/32
450-010	1	.070	1 1/4
450-012	1 1/4	.108	1 1/8
450-015	1 1/2	.160	1 25/32
450-020	2	.220	1 15/16
450-025	2 1/2	.340	2 3/32
450-030	3	.495	2 13/32
450-040	4	.560	2 13/16

UNIONS

4633

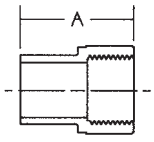


Union (Slip x Slip)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
457-005	1/2	.040	—
457-007	3/4	.180	—
457-015	1 1/2	.200	11/16
457-020	2	.500	25/32

FITTING ADAPTER

4603-2



Female Fitting Adapter (Spg x FIPT)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
478-005	1/2	.030	1 9/16
478-007	3/4	.043	1 13/16
478-010	1	.076	2 1/8
478-020	2	.182	2 11/32

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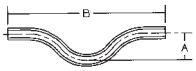
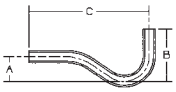
PVC Schedule 40 Pressure Fittings

TRAPS



Running Trap (Spg x Spg)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
488-007	3/4	.225	1 7/8	11 1/8

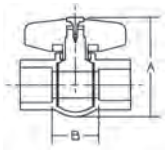


P-Trap (Spg x Spg)

UNIV. FIG. NO.	NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES	DIM. C INCHES
489-007	3/4	.225	2	4 1/32	8 5/8

VALVES

4660-S/4660-T



PVC Ball Valve (Slip x Slip or FIPT x FIPT)

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
1/2	.180	2 7/16	1 17/32
3/4	.210	3 1/16	1 3/4
1	.490	3 21/32	1 15/16
1 1/4*	.570	3 7/8	2
1 1/2*	.180	4 17/32	2 3/8
2*	.150	5 5/16	2 7/8
2 1/2	2.730	6 5/16	4 17/32
3	4.010	7 1/2	5 9/32
4	8.290	9 3/16	7 5/16

Note: 4660-S/4660-T are available in either full port or standard port depending upon the size.

*These sizes are standard port.

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Plastic Irrigation Products

PVC SCHEDULE 40 BALL VALVES

NIBCO® PVC Schedule 40 Ball Valves are excellent for use in cold water pressure distribution systems in residential, commercial, agricultural and light industrial applications. Sizes range from 1/2" through 4" IPS. These valves feature a durable one-piece molded body, convenient quarter-turn action, and their 100 percent thermoplastic design eliminates process or atmospheric corrosion. PVC has excellent rigidity, corrosion and chemical resistance properties. PVC Schedule 40 Ball Valves are NSF approved and manufactured in an ISO 9002 certified facility. (Refer to page 56 for additional information)

PLASTIC FITTINGS

NIBCO® PVC Schedule 40 Pressure Fittings are ideal for use in irrigation, golf course construction, pool & spa, potable water, and chilled-water applications. PVC, one of the most frequently specified of all thermoplastic materials, has a high resistance to corrosion and chemical attack by acids, alkalies, salt solutions, and many other chemicals.

ABS DWV fittings are used for residential and commercial drain, waste, and vent non-pressure applications. ABS is an excellent high strength, high-impact thermoplastic material, resistant to a wide variety of materials ranging from sewage to commercial household chemical formulations. ABS is lightweight, safe to handle and easy to install.

PVC DWV fittings have been used for over 50 years in residential and commercial drain, waste, and vent non-pressure applications. PVC DWV can be found in such areas as chemical processing, industrial plating, chilled water distribution, chemical drainage and irrigation systems.

Do not use or test the products in this catalog with compressed air or other gasses.

PVC Schedule 80 Pressure Fittings

Refer to Chemtrol Warranty on nibco.com for PVC Schedule 80 Pressure Fittings, pages 59-68

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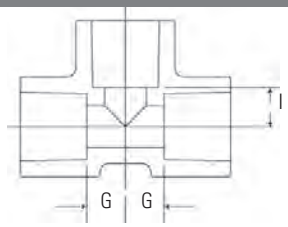
PVC Schedule 80

Chemtrol®

Tees

Chemtrol
Fig. No.

4511 Socket Tee (S x S x S)



Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. G	Dim. G	Dim. I
1/4	801-002	0.05	0.33	0.33	0.33
1/2	801-005	0.11	0.52	0.52	0.52
3/4	801-007	0.17	0.69	0.69	0.69
1	801-810	0.25	0.75	0.75	0.75
1 1/4	801-012	0.48	0.92	0.92	0.92
1 1/2	801-015	0.52	1.06	1.06	1.06
2	801-020	0.97	1.27	1.27	1.27
2 1/2	801-025	1.50	1.53	1.53	1.53
3	801-030	2.00	1.84	1.84	1.84
4	801-040	3.54	2.34	2.34	2.34
6	801-060	10.47	3.50	3.50	3.50
8	801-080	20.57	4.56	4.56	4.56
10	801-100	35.40	5.75	5.75	5.75
12	801-120	58.40	6.89	6.89	6.89

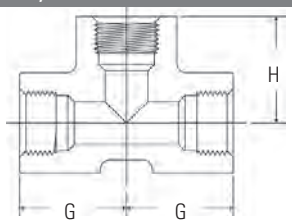
*8" tee, 90 elbow, and 45 elbow derated to half of maximum pressure.

4511-R Reducing Socket Tee (S x S x S)

Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. G	Dim. G	Dim. I
3/4 x 3/4 x 1/2	801-101	0.18	0.52	0.52	0.62
1 x 1 x 1/2	801-130	0.24	0.53	0.53	0.73
1 x 1 x 3/4	801-131	0.26	0.63	0.63	0.74
1 1/2 x 1 1/2 x 3/4	801-210	0.48	0.67	0.67	1.05
1 1/2 x 1 1/2 x 1	801-211	0.52	0.77	0.77	1.04
2 x 2 x 1/2	801-247	0.61	0.61	0.61	1.30
2 x 2 x 3/4	801-248	0.65	0.71	0.71	1.30
2 x 2 x 1	801-249	0.69	0.81	0.81	1.30
2 x 2 x 1 1/2	801-251	0.83	1.08	1.08	1.30
3 x 3 x 2	801-338	1.73	1.37	1.37	1.86
4 x 4 x 2	801-420	2.79	1.42	1.42	2.36
4 x 4 x 3	801-422	3.33	1.90	1.90	2.38
6 x 6 x 4	801-532	7.29	2.60	2.60	3.56

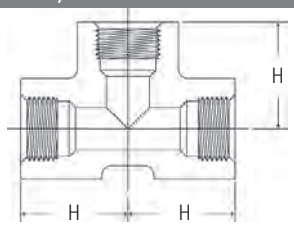
Chemtrol
Fig. No.

4512 Socket x Thread Tee (S x S x FPT)



Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. G	Dim. G	Dim. H
1/2	802-005	0.16	0.52	0.52	1.41
3/4	802-007	0.24	0.69	0.69	1.71
1	802-010	0.34	0.75	0.75	1.89
1 1/4	802-012	0.57	0.92	0.92	2.18
1 1/2	802-015	0.80	1.06	1.06	2.45
2	802-020	1.13	1.27	1.27	2.78

4512-3-3 Threaded Tee (FPT x FPT x FPT)



Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. H
1/4	805-002	0.05	0.97
1/2	805-005	0.16	1.41
3/4	805-007	0.26	1.71
1	805-010	0.35	1.89
1 1/4	805-012	0.57	2.18
1 1/2	805-015	0.75	2.45
2	805-020	1.13	2.78
2 1/2	805-025	1.79	3.31
3	805-030	2.60	3.74
4	805-040	4.63	4.62

For questions concerning thermoplastic piping systems, please contact Chemtrol Customer Service
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Fax: 888.336.4226

Do not use or test the products in this catalog with compressed air or other gasses.

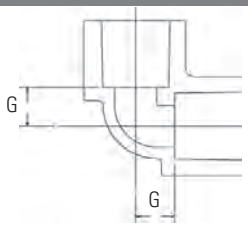
PVC Schedule 80

Chemtrol®

Elbows

Chemtrol
Fig. No.

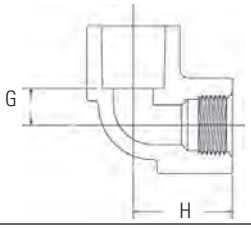
4507 Socket 90° ELL (S x S)



Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. G
1/4	806-002	0.01	0.33
1/2	806-005	0.11	0.52
3/4	806-007	0.16	0.69
1	806-010	0.21	0.75
1 1/4	806-012	0.25	0.92
1 1/2	806-015	0.38	1.06
2	806-020	0.57	1.27
2 1/2	806-025	1.16	1.53
3	806-030	1.50	1.84
4	806-040	3.08	2.34
6	806-060	8.03	3.50
8	806-080	15.25	4.56
10	806-100	27.70	5.75
12	806-120	43.90	6.89

*8" tee, 90 elbow, and 45 elbow derated to half of maximum pressure.

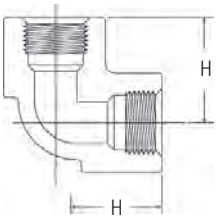
4507-3 Socket x Thread 90° ELL (S x FPT)



Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. G	Dim. H
1/2	807-005	0.12	0.52	1.41
3/4	807-007	0.17	0.69	1.71
1	807-010	0.28	0.75	1.89
1 1/4	807-012	0.33	0.92	2.18
1 1/2	807-015	0.55	1.06	2.45
2	807-020	0.82	1.27	2.78

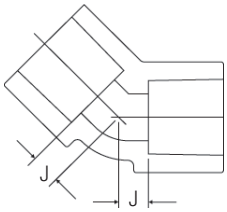
Chemtrol
Fig. No.

4507-3-3 Thread 90° ELL (FPT x FPT)



Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. H
1/4	808-002	0.04	0.97
1/2	808-005	0.12	1.41
3/4	808-007	0.18	1.71
1	808-010	0.28	1.89
1 1/4	808-012	0.42	2.18
1 1/2	808-015	0.55	2.45
2	808-020	0.82	2.78
2 1/2	808-025	1.25	3.31
3	808-030	1.90	3.74
4	808-040	3.62	4.62

4506 Socket 45° ELL (S x S)



Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. J
1/4	817-002	0.03	0.18
1/2	817-005	0.04	0.26
3/4	817-007	0.14	0.33
1	817-010	0.15	0.37
1 1/4	817-012	0.24	0.43
1 1/2	817-015	0.31	0.47
2	817-020	0.48	0.61
2 1/2	817-025	0.93	0.68
3	817-030	1.23	0.78
4	817-040	2.46	1.02
6	817-060	6.21	1.75
8	817-080	13.03	2.22
10	817-100	19.70	2.61
12	817-120	32.70	3.08

*8" tee, 90 elbow, and 45 elbow derated to half of maximum pressure.

Do not use or test the products in this catalog with compressed air or other gasses.

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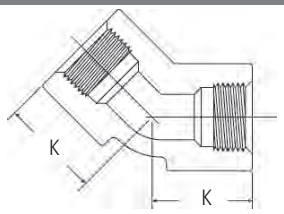
PVC Schedule 80

Chemtrol®

Chemtrol
Fig. No.

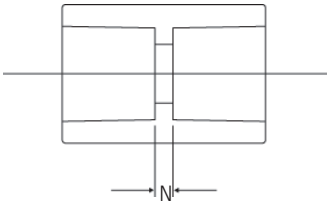
4506-3-3 Thread 45° ELL (FPT x FPT)



Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. K
1/4	819-002	0.04	0.82
1/2	819-005	0.11	1.15
3/4	819-007	0.13	1.35
1	819-010	0.25	1.51
1 1/4	819-012	0.35	1.70
1 1/2	819-015	0.48	1.86
2	819-020	0.71	2.13
2 1/2	819-025	1.03	2.46
3	819-030	1.53	2.69
4	819-040	2.52	3.30

Couplings

4501 Socket Coupling (S x S)



Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. N
1/4	829-002	0.05	0.12
1/2	829-005	0.09	0.25
3/4	829-007	0.13	0.25
1	829-010	0.14	0.25
1 1/4	829-012	0.22	0.25
1 1/2	829-015	0.29	0.25
2	829-020	0.42	0.25
2 1/2	829-025	0.68	0.20
3	829-030	1.05	0.19
4	829-040	1.83	0.19
6	829-060	3.56	0.25
8	829-080	8.69	0.25
10	829-100	13.88	0.38
12	829-120	22.69	0.50

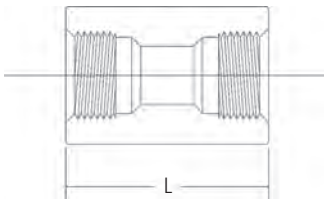
Chemtrol
Fig. No.

4501-R Reducing Socket Coupling (S x S)

Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. N
3/4 x 1/2	829-101	0.12	0.44
1 x 1/2	829-130	0.18	0.67
1 x 3/4	829-131	0.19	0.55
1 1/4 x 3/4	829-167	0.26	0.72
1 1/4 x 1	829-168	0.27	0.60
1 1/2 x 1/2	829-209	0.31	0.81
1 1/2 x 3/4	829-210	0.31	0.76
1 1/2 x 1	829-211	0.33	0.63
1 1/2 x 1 1/4	829-212	0.35	0.51
2 x 1	829-249	0.44	0.75
2 x 1 1/2	829-251	0.50	0.50
3 x 2	829-338	1.00	1.24
4 x 2	829-420	1.59	1.59
4 x 3	829-422	1.88	1.20

Other Reducing Couplings are produced by solvent cement appropriate Reducer Bushings into Socket Couplings. They may be ordered as factory fabrications or may be assembled in the field.

4501-3-3 Thread Coupling (FPT x FPT)



Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. L
1/4	830-002	0.06	1.41
1/2	830-005	0.09	2.03
3/4	830-007	0.14	2.28
1	830-010	0.23	2.53
1 1/4	830-012	0.33	2.78
1 1/2	830-015	0.41	3.03
2	830-020	0.60	3.28
2 1/2	830-025	0.86	3.76
3	830-030	1.22	4.00
4	830-040	2.13	4.75

Do not use or test the products in this catalog with compressed air or other gasses.

PVC Schedule 80

Chemtrol®

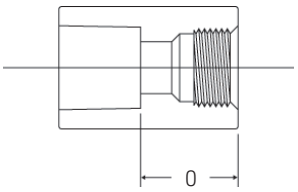
4501-3-3-R Reducing Thread Coupling (FPT x FPT)

Chemtrol Fig. No.	Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. L
	3/4 x 1/2	830-101	0.14	2.34
	1 x 1/2	830-130	0.20	2.70
	1 x 3/4	830-131	0.18	2.70
	1 1/4 x 3/4	830-167	0.29	3.00
	1 1/4 x 1	830-168	0.31	3.00
	1 1/2 x 3/4	830-210	0.35	3.16
	1 1/2 x 1	830-211	0.38	3.16
	1 1/2 x 1 1/4	830-212	0.40	3.16
	2 x 1	830-249	0.50	3.40
	2 x 1 1/2	830-251	0.56	3.40
	3 x 2	830-338	1.15	4.66
	4 x 2	830-420	1.79	5.38
	4 x 3	830-422	2.11	5.38

Other Reducing Couplings are produced by solvent cementing appropriate Reducer Bushings into Socket Couplings. They may be ordered as factory fabrications or may be assembled in the field.

Adapters

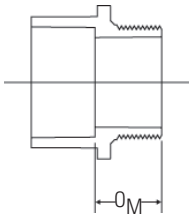
4503 Female Adapter Coupling (S x FPT)



Chemtrol Fig. No.	Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. O
	1/4	835-002	0.04	0.77
	1/2	835-005	0.09	1.14
	3/4	835-007	0.14	1.27
	1	835-010	0.21	1.39
	1 1/4	835-012	0.30	1.52
	1 1/2	835-015	0.38	1.64
	2	835-020	0.56	1.77
	2 1/2	835-025	0.77	1.98
	3	835-030	1.15	2.10
	4	835-040	1.95	2.47

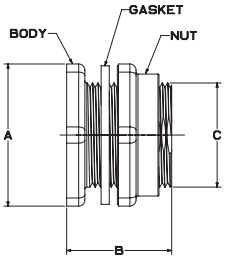
For additional technical information, or a complete listing of Schedule 80 industrial plastic products, please refer the NIBCO Chemtrol PVC & CPVC Fittings & Valves catalog, or visit our website at www.chemtrol.com.

4504 Male Adapter (S x MPT)



Chemtrol Fig. No.	Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. O_M
	1/2	836-005	0.04	0.94
	3/4	836-007	0.06	0.97
	1	836-010	0.10	1.15
	1 1/4	836-012	0.14	1.12
	1 1/2	836-015	0.19	1.12
	2	836-020	0.27	1.20
	2 1/2	836-025	0.50	1.89
	3	836-030	0.79	1.99
	4	836-040	1.30	2.09

4550 Tank Adapter (Tank x FPT)



Chemtrol Fig. No.	Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. A	Dim. B	Dim C
	1/2		0.20	2.00	2.75	1.38
	3/4	Use	0.35	2.38	2.88	1.63
	1	Figure	0.40	2.56	2.88	1.88
	1 1/4	No. &	0.55	3.25	3.00	2.63
	1 1/2	Nom.	0.65	3.25	3.00	2.63
	2	Size	1.15	4.38	3.25	3.25
	3		2.10	6.00	3.63	4.50

Note: Gasket is EPDM and nut is self-tightening left hand thread.

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PVC Schedule 80

Chemtrol®

Bushings

Design Styles

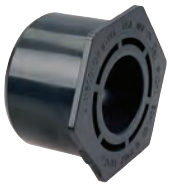
The design style of most bushings is to have a solid wall between the inside and outside connections. Some of the multistep reductions with exceedingly thick cross-sections are not solid. This design style achieves structural support with a web of ribs attaching the inner and outer connection walls, with the open area toward the exterior bushing face. The styles are denoted by W and S for webbed and solid designs respectively.

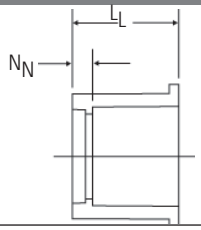
Webbed design

Solid design

Chemtrol
Fig. No.

4518 Flush Socket Reducer Bushing (SPG x S)





Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Design Style	Dim. L_L	Dim. N_N
1/2 x 1/4	837-072	0.03	S	1.17	0.53
3/4 x 1/2	837-101	0.05	S	1.15	0.26
1 x 1/2	837-130	0.06	S	1.28	0.39
1 x 3/4	837-131	0.05	S	1.28	0.27
1 1/4 x 1/2	837-166	0.10	S	1.41	0.52
1 1/4 x 3/4	837-167	0.10	S	1.41	0.40
1 1/4 x 1	837-168	0.06	S	1.41	0.27
1 1/2 x 1/2	837-209	0.12	W	1.53	0.64
1 1/2 x 3/4	837-210	0.10	S	1.53	0.52
1 1/2 x 1	837-211	0.08	S	1.53	0.39
1 1/2 x 1 1/4	837-212	0.06	S	1.53	0.27
2 x 1/2	837-247	0.20	W	1.66	0.77
2 x 3/4	837-248	0.20	W	1.66	0.65
2 x 1	837-249	0.20	W	1.66	0.52
2 x 1 1/4	837-250	0.19	S	1.66	0.40
2 x 1 1/2	837-251	0.15	S	1.66	0.27
2 1/2 x 1	837-289	0.31	W	1.94	0.80
2 1/2 x 1 1/4	837-290	0.31	W	1.94	0.68
2 1/2 x 1 1/2	837-291	0.27	S	1.94	0.55
2 1/2 x 2	837-292	0.24	S	1.94	0.43
3 x 1	837-335	0.65	W	2.42	1.28
3 x 1 1/2	837-337	0.67	W	2.42	1.03
3 x 2	837-338	0.64	S	2.42	0.91
3 x 2 1/2	837-339	0.48	S	2.42	0.64

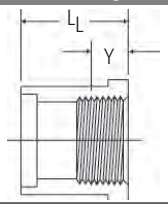
Chemtrol
Fig. No.

4518 Flush Socket Reducer Bushing (SPG x S) (cont.)

Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Design Style	Dim. L_L	Dim. N_N
4 x 2	837-420	1.14	W	2.81	1.30
4 x 2 1/2	837-421	1.14	S	2.81	1.03
4 x 3	837-422	0.93	S	2.81	0.91
6 x 2	837-528	3.28	W	3.06	1.55
6 x 4	837-532	2.68	S	3.06	0.78
8 x 6	837-585	5.46	S	4.59	1.56
10 x 6	837-626	10.68	W	5.59	2.56
10 x 8	837-628	9.36	S	5.59	1.09
12 x 8	837-668	16.73	W	6.59	2.09
12 x 10	837-670	12.77	S	6.59	1.09

Other Reducing Couplings are produced by solvent cementing appropriate Reducer Bushings into Socket Couplings. They may be ordered as factory fabrications or may be assembled in the field.

4518-3 Flush Spigot x Thread Reducer Bushing (SPG x FPT)



Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Design Style	Dim. L_L	Dim. Y*
1/2 x 1/4	838-072	0.03	S	1.17	0.31
3/4 x 1/4	838-098	0.04	S	1.29	0.31
3/4 x 1/2	838-101	0.03	S	1.29	0.43
1 x 1/2	838-130	0.07	S	1.56	0.43
1 x 3/4	838-131	0.05	S	1.56	0.45
1 1/4 x 1/2	838-166	0.14	S	1.66	0.43
1 1/4 x 3/4	838-167	0.12	S	1.66	0.45
1 1/4 x 1	838-168	0.10	S	1.66	0.53
1 1/2 x 1/2	838-209	0.21	S	1.78	0.43
1 1/2 x 3/4	838-210	0.19	S	1.78	0.45
1 1/2 x 1	838-211	0.17	S	1.78	0.53
1 1/2 x 1 1/4	838-212	0.18	S	1.78	0.55
2 x 1/2	838-247	0.34	S	1.92	0.43
2 x 3/4	838-248	0.32	S	1.92	0.45
2 x 1	838-249	0.29	S	1.92	0.53
2 x 1 1/4	838-250	0.24	S	1.92	0.55
2 x 1 1/2	838-251	0.20	S	1.92	0.55
2 1/2 x 2	838-292	0.25	S	2.18	0.57
3 x 1	838-335	0.65	S	2.42	0.53
3 x 1 1/2	838-337	0.70	S	2.42	0.55
3 x 2	838-338	0.67	S	2.42	0.57
3 x 2 1/2	838-339	0.52	S	2.42	0.87
4 x 2	838-420	1.17	S	2.81	0.57
4 x 3	838-422	1.01	S	2.81	0.95

Other size reductions are produced by solvent cementing appropriate Reducer Bushings together. They may be ordered as factory fabrications or may be assembled in the field.

*Typical male component engagement, hand tight (L_1 in ASME B1.20.1 thread spec.) plus 1 1/2 turns.

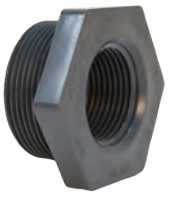
Do not use or test the products in this catalog with compressed air or other gasses.

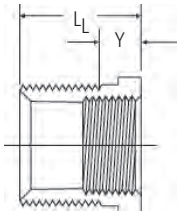
PVC Schedule 80

Chemtrol®

Chemtrol
Fig. No.

4518-3-4 Flush Thread Reducer Bushing (MPT x FPT)





Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Design Style	Dim. L_L	Dim. Y*
1/2 x 1/4	839-072	0.02	S	0.93	0.25
3/4 x 1/4	839-098	0.03	S	0.95	0.25
3/4 x 1/2	839-101	0.02	S	0.95	0.25
1 x 1/2	839-130	0.05	S	1.24	0.38
1 x 3/4	839-131	0.03	S	1.24	0.38
1 1/4 x 1/2	839-166	0.10	S	1.27	0.38
1 1/4 x 3/4	839-167	0.09	S	1.27	0.38
1 1/4 x 1	839-168	0.07	S	1.27	0.38
1 1/2 x 1/2	839-209	0.20	S	1.28	0.38
1 1/2 x 3/4	839-210	0.14	S	1.28	0.38
1 1/2 x 1	839-211	0.12	S	1.28	0.38
1 1/2 x 1 1/4	839-212	0.08	S	1.28	0.38
2 x 1/2	839-247	0.32	S	1.32	0.38
2 x 3/4	839-248	0.30	S	1.32	0.38
2 x 1	839-249	0.28	S	1.32	0.38
2 x 1 1/4	839-250	0.22	S	1.32	0.38
2 x 1 1/2	839-251	0.18	S	1.32	0.38
2 1/2 x 2	839-292	0.21	S	2.18	0.57
3 x 1 1/2	839-337	0.58	S	2.42	0.55
3 x 2	839-338	0.56	S	2.42	0.57
3 x 2 1/2	839-339	0.45	S	2.42	0.87
4 x 2	839-420	1.09	S	2.81	0.57
4 x 3	839-422	0.81	S	2.81	0.95

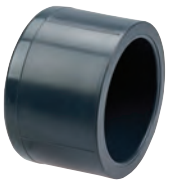
*Typical male component engagement, hand tight (L_1 in ASME B1.20.1 thread spec.) plus 1 1/2 turns

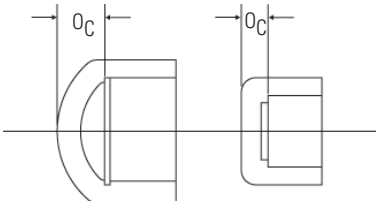
For additional technical information, or a complete listing of Schedule 80 industrial plastic products, please refer the NIBCO Chemtrol PVC & CPVC Fittings & Valves catalog, or visit our website at www.chemtrol.com.

Caps

Chemtrol
Fig. No.

4517 Socket Cap* (S)

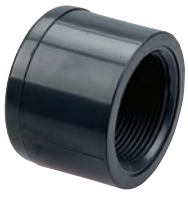


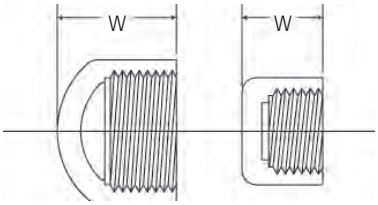


Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. Oc
1/4	847-002	0.03	0.25
1/2	847-005	0.06	0.39
3/4	847-007	0.08	0.37
1	847-010	0.14	0.41
1 1/4	847-012	0.20	0.40
1 1/2	847-015	0.26	0.41
2	847-020	0.38	0.42
2 1/2	847-025	0.57	0.57
3	847-030	0.87	1.29
4	847-040	1.53	1.58
6	847-060	3.77	2.13

*Sizes 2" and smaller are flat; 2 1/2" and larger are domed.

4517-3 Thread Cap* (FPT)





Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. W
1/4	848-002	0.01	0.89
1/2	848-005	0.06	1.28
3/4	848-007	0.10	1.38
1	848-010	0.15	1.55
1 1/4	848-012	0.22	1.66
1 1/2	848-015	0.29	1.80
2	848-020	0.41	1.93
2 1/2	848-025	0.64	2.35
3	848-030	0.93	3.19
4	848-040	1.73	3.86

*Sizes 2" and smaller are flat; 2 1/2" and larger are domed.

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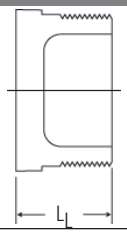
PVC Schedule 80

Chemtrol®

Plugs

Chemtrol
Fig. No.

4516-4 Thread Plug (MPT)



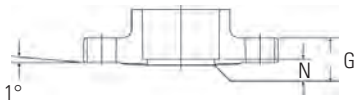
Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. L_L
1/4	850-002	0.01	0.85
1/2	850-005	0.03	1.04
3/4	850-007	0.03	1.10
1	850-010	0.06	1.25
1 1/4	850-012	0.10	1.66
1 1/2	850-015	0.14	1.78
2	850-020	0.19	1.92
2 1/2	850-025	0.29	2.18
3	850-030	0.51	2.42
4	850-040	0.95	2.81

1/4" Plug is solid, only

Class 150 Flanges

For flange dimensions that comply with ASME B16.5, 150 lb., steel flanges, see page 86.

4551-W Socket Flange (S), One-Piece (Webbed Design)

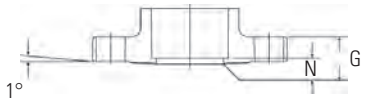


Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. G	Dim. N
2	851-020	0.79	0.92	0.27
3	851-030	1.52	1.13	0.29
4	851-040	2.25	1.24	0.32
6	851-060	4.24	1.36	0.31

Note: One-piece webbed flanges have oblong bolt holes which permit mating with ASME B16.5, 150 lb.; BS 1560, class 150; ISO 2084, PN10; and DIN EN 1092, PN10 flanges.

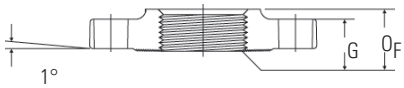
Chemtrol
Fig. No.

4551-H Socket Flange (S), One-Piece (Solid)



Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. G	Dim. N
1/2	851-H05	0.21	0.54	0.20
3/4	851-H07	0.31	0.61	0.17
1	851-H10	0.41	0.68	0.18
1 1/4	851-H12	0.53	0.73	0.20
1 1/2	851-H15	0.68	0.82	0.23
2	851-H20	0.96	0.92	0.27
2 1/2	851-H25	1.61	1.02	0.20
3	851-H30	2.16	1.13	0.29
4	851-H40	2.98	1.24	0.32
6	851-H60	4.44	1.36	0.31
8	851-H80	9.12	1.50	0.35

4551-W-3 Thread Flange (FPT), One-Piece (Webbed Design)



Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. G	Dim. O_F
2	852-020	0.78	0.92	1.18
3	852-030	1.26	1.13	1.55
4	852-040	2.03	1.24	1.67

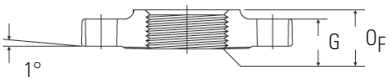
Do not use or test the products in this catalog with compressed air or other gasses.

PVC Schedule 80

Chemtrol®

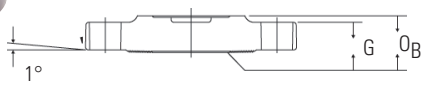
Chemtrol
Fig. No.

4551-H-3 Thread Flange (FPT), One-Piece (Solid)



Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. G	Dim. OF
1/2	852-H05	0.21	0.54	0.88
3/4	852-H07	0.30	0.61	0.91
1	852-H10	0.40	0.68	1.08
1 1/4	852-H12	0.50	0.73	1.11
1 1/2	852-H15	0.65	0.82	1.12
2	852-H20	0.90	0.92	1.18
2 1/2	852-H25	1.50	1.02	1.42
3	852-H30	1.93	1.13	1.55
4	852-H40	2.80	1.24	1.67

4519-W Blind Flange, One-Piece (Webbed Design)



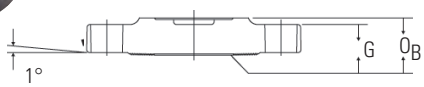
Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. G	Dim. OB
2	853-020	1.16	0.92	1.13
3	853-030	1.41	1.13	1.39
4	853-040	2.56	1.24	1.51
6	853-060	4.96	1.36	1.60

Note: One-piece webbed flanges have oblong bolt holes which permit mating with ASME B16.5, 150 lb.; BS 1560, class 150; ISO 2084, PN10; and DIN EN 1092, PN10 flanges.

For additional technical information, or a complete listing of Schedule 80 industrial plastic products, please refer the NIBCO Chemtrol PVC & CPVC Fittings & Valves catalog, or visit our website at www.chemtrol.com.

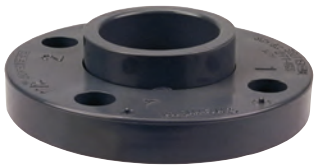
Chemtrol
Fig. No.

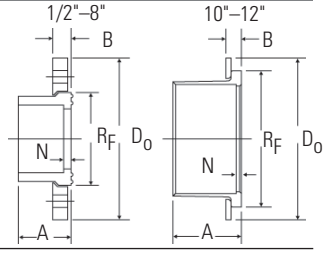
4519-H Blind Flange, One-Piece (Solid)



Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. G	Dim. OB
1/2	853-H05	0.21	0.54	0.76
3/4	853-H07	0.32	0.61	0.83
1	853-H10	0.43	0.68	0.88
1 1/4	853-H12	0.57	0.73	0.95
1 1/2	853-H15	0.69	0.82	1.04
2	853-H20	1.08	0.92	1.13
2 1/2	853-H25	1.81	1.02	1.22
3	853-H30	2.45	1.13	1.39
4	853-H40	3.56	1.24	1.51
6	853-H60	5.97	1.36	1.60
8	853-H80	10.96	1.50	1.78

4551-A Socket Flange (S), Van Stone





Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. A	Dim. B	Dim. DO	Dim. RF	Dim. N
1/2	854-005	0.19	1.00	.50	3.50	1.48	0.11
3/4	854-007	0.24	1.13	.50	3.88	1.75	0.11
1	854-010	0.38	1.25	.56	4.25	2.04	0.11
1 1/4	854-012	0.40	1.38	.63	4.63	2.50	0.11
1 1/2	854-015	0.54	1.50	.69	5.00	2.78	0.11
2	854-020	0.92	1.63	.75	6.00	3.41	0.11
2 1/2	854-025	1.37	1.94	.94	7.00	4.11	0.16
3	854-030	1.75	2.40	1.05	7.50	4.81	0.50
4	854-040	2.83	2.76	1.16	8.98	6.19	0.48
6	854-060	4.19	3.56	1.29	11.00	7.97	0.53
8	854-080	6.47	5.01	1.42	13.50	10.45	0.51
10*	854-100	10.20	5.83	1.31	16.00	13.29	0.33
12*	854-120	17.53	7.45	1.70	19.00	16.00	0.45

*Aluminum ring with PVC coating.

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PVC Schedule 80

Chemtrol

Chemtrol
Fig. No.

Van Stone Flange Assembly List

Item	Description	Material
1	Connector Hub	PVC
2	Flange Ring	PVC Coated Aluminum
3	Flange Ring	PVC

Chemtrol
Fig. No.

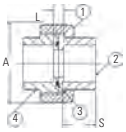
NR 51 Flange Gaskets, for Class 150 Flanges

Note: These gaskets are 1/8" thick, full face CR, 70 durometer.

Nominal Size	Part No.	Approx. Lbs./Ea.
1/2	Use Figure No. & Nom. Size	0.11
3/4		0.12
1		0.13
1 1/4		0.14
1 1/2		0.15
2		0.20
2 1/2		0.25
3		0.28
4		0.30
6		0.40
8		0.50
10		0.55
12		0.60

Unions

4533 FKM / 4533E (EPDM) Socket Union (S x S)



Nominal Size	FKM Part No.	EPDM Part No.	Approx. Lbs./Ea.	Dim. A	Dim. L	Dim. S*
1/4	857-002	897-002	0.07	1.70	0.40	0.64
1/2	857-005	897-005	0.16	2.00	0.43	0.89
3/4	857-007	897-007	0.27	2.44	0.45	1.01
1	857-010	897-010	0.40	2.83	0.43	1.14
1 1/4	857-012	897-012	0.87	4.08	0.79	1.26
1 1/2	857-015	897-015	0.93	4.08	0.80	1.39
2	857-020	897-020	1.83	5.26	0.80	1.51
3	857-030	897-030	3.76	7.17	0.90	1.90

The 2 1/2" Socket Union is available as a fabrication from the 3" size Bushed down.

* Socket Depth

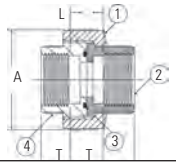
Do not use or test the products in this catalog with compressed air or other gasses.

PVC Schedule 80

Chemtrol

Chemtrol
Fig. No.

4533-3-3 FKM / 4533E-3-3 (EPDM) Threaded Union (FPT x FPT)

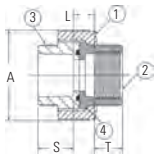


Nominal Size	FKM Part No.	EPDM Part No.	Approx. Lbs./Ea.	Dim. A	Dim. L	Dim. T*
1/4	858-002	898-002	0.11	1.70	1.07	0.31
1/2	858-005	898-005	0.16	2.00	1.30	0.43
3/4	858-007	898-007	0.28	2.44	1.38	0.45
1	858-010	898-010	0.41	2.83	1.51	0.53
1 1/4	858-012	898-012	0.90	4.08	2.01	0.55
1 1/2	858-015	898-015	0.92	4.08	2.16	0.55
2	858-020	898-020	1.82	5.26	2.36	0.57
3	858-030	898-030	3.96	7.17	2.88	0.95

The 2 1/2" Thread Union is available as a fabrication from the 3" size Bushed down.

* Thread Joint Engagement

4533-3 FKM / 4533E-3 (EPDM) Female Adapter Union (S x FPT)



Nominal Size	FKM Part No.	EPDM Part No.	Approx. Lbs./Ea.	Dim. A	Dim. L	Dim. S*	Dim. T†
1/2	859-005	899-005	0.16	2.00	0.84	0.89	0.43
3/4	859-007	899-007	0.26	2.44	0.82	1.02	0.45
1	859-010	899-010	0.38	2.83	0.90	1.14	0.53
1 1/4	859-012	899-012	0.89	4.08	1.29	1.27	0.55
1 1/2	859-015	899-015	0.91	4.08	1.32	1.39	0.55
2	859-020	899-020	1.81	5.26	1.41	1.51	0.57
3	859-030	899-030	3.86	7.17	1.93	1.91	0.95

The 2 1/2" Socket x Thread Union is available as a fabrication from the 3" size Bushed down.

* Socket Depth
† Thread Joint Engagement

For additional technical information, or a complete listing of Schedule 80 industrial plastic products, please refer the NIBCO Chemtrol PVC & CPVC Fittings & Valves catalog, or visit our website at www.chemtrol.com.

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Transition Unions

Chemtrol
Fig. No.

TCBR-3 Brass End Connector (FPT)

Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. A	Dim. T*
1/2	↑	0.33	1.02	0.43
3/4		0.43	1.02	0.45
1	Use Fig. No.	0.52	1.19	0.53
1 1/4	& Nom. Size	0.85	1.42	0.55
1 1/2		1.81	1.42	0.55
2	↓	2.74	1.57	0.57

* Thread Joint Engagement

TCSS-3 Stainless Steel End Connector (FPT)

Nominal Size	Universal Part No.	Approx. Lbs./Ea.	Dim. A	Dim. T*
1/2	↑	0.30	1.02	0.43
3/4		0.39	1.02	0.45
1	Use Fig. No.	0.47	1.19	0.53
1 1/4	& Nom. Size	0.77	1.42	0.55
1 1/2		1.64	1.42	0.55
2	↓	2.48	1.57	0.57

* Thread Joint Engagement

Do not use or test the products in this catalog with compressed air or other gasses.

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Engineering Data

Pressure Ratings

Pipe and Tube

[1]Based on water service, for more severe service, an additional correction factor may be required.

Maximum Non-Shock Operating Pressure (psi) AT 73°F[1]			
Nominal Size	Schedule 40 PVC	Schedule 80 PVC	CPVC-CTS SDR-11
3/8	620	920	400
1/2	600	850	400
3/4	480	690	400
1	450	630	400
1 1/4	370	520	400
1 1/2	330	470	400
2	280	400	400
2 1/2	300	425	N/A
3	260	375	N/A
4	220	325	N/A
6	180	280	N/A
8*	160	250	N/A
10	140	230	N/A
12	130	230	N/A

NOTE: ABS & PVC DWV used for non-pressure applications only.
*8" SCH.80 PVC tee, 90 elbow, and 45 elbow derated to half of maximum pressure.
N. R. - Not Recommended.
N/A - Not Available.

Pipe and tube pressure ratings are based on non-shock service. As the severity of the service application increases, a service-correction factor should be considered. Specifically, for Schedule 40 applications that may experience severe cyclincal-pressure loading, such as in irrigation systems, the following maximum-suggested design pressures are suggested.

Systems with threaded Schedule 80 thermoplastic fittings shall have a maximum-suggested design pressure of 50% that of equivalent pipe size pressure rating. This reduction is because threads are formed by the removal of material. Refer to the following table for maximum-suggested design pressures.

Conversely, CPVC-CTS pipe and fittings do carry the same pressure rating, as defined by ASTM D2846. Refer to the following table for maximum-suggested design pressures.

Fittings with Service Correction Factors

NOTE: ABS & PVC DWV used for non-pressure applications only.

Maximum–Suggested Design Pressure (psi) AT 73°F[1]			
Nominal Size	Schedule 40 PVC	Schedule 80 PVC	CPVC-CTS SDR-11
	Socket End	Threaded End	Socket End
3/8	370	460	400
1/2	360	420	400
3/4	280	340	400
1	270	320	400
1 1/4	220	260	400
1 1/2	200	240	400
2	170	200	400
2 1/2	180	210	N/A
3	155	190	N/A
4	130	160	N/A
6	110	N.R.	N/A
8	95	N.R.	N/A
10	85	N.R.	N/A
12	80	N.R.	N/A

N. R. - Not Recommended.
N/A - Not Available.

The maximum-allowable non-shock pressure rating for PVC and CPVC-CTS thermoplastic piping is a function of temperature. For pipe and fitting applications above 73°F, refer to the table on the following page for temperature correction factors. To determine the maximum non-shock pressure rating at an elevated temperature, simply multiply the base pressure rating obtained from the appropriate table by the correction factor from the following table. Below 73°F the pressure rating will be the same as the base pressure in the tables above.

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Pressure Ratings (Continued)

Fittings Temperature Correction Factors

Operating Temperature, °F	FACTORS	
	PVC	CPVC-CTS
70	1.00	1.00
80	0.90	0.96
90	0.75	0.92
100	0.62	0.85
110	0.50	0.77
120	0.40	0.70
130	0.30	0.55
140	0.22	0.50
150	N.R.	0.47
160	N.R.	0.40
170	N.R.	0.32
180	N.R.	0.25
200	N.R.	0.18
210	N.R.	0.15

N.R. - Not Recommended.

Valves, Flanges, and Unions

The maximum pressure rating for NIBCO valves, flanges, and unions, regardless of size, is 150 psi at 73°F. As with all other thermoplastic piping components, the maximum non-shock operating pressure is related to temperature. Above 100°F refer to the chart below.

Temperature Correction Factors

Operating Temperature, °F	Maximum Non-Shock Operating Pressure, psi	
	PVC	CPVC
100	150	150
110	135	140
120	110	130
130	75	120
140	50	110
150	N.R.	100
160	N.R.	90
170	N.R.	80
180	N.R.	70
190	N.R.	60
200	N.R.	50

N.R. - Not Recommended

ABS & PVC-DWV Pipe & Fittings

NIBCO® ABS 5800 series fittings conform to the material and dimensions of ASTM D2661 and D3311. ABS pipe meets the material requirements of ASTM D3965 and the dimensions of ASTM D2661.

NIBCO® PVC 4800 series fittings are manufactured to meet the material and dimensional requirements of ASTM D2665 and D3311. PVC pipe is produced in compliance with ASTM D2665 and D1784.

NIBCO products have been designed to conform to the specifications listed above. Many of these products have been listed by and contain the certification mark of CSA, IAPMO, NSF, or any combination thereof. For a current listing contact NIBCO INC.

ABS & PVC Schedule 40 Pipe Dimensions

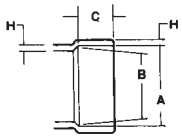
Nominal Size	Average O.D., in.	Average I.D., in.	Min. Wall Thickness, in.
1 1/4	1.660	1.380	0.140
1 1/2	1.900	1.610	0.145
2	2.375	2.067	0.154
3	3.500	3.068	0.216
4	4.500	4.026	0.237
6	6.625	6.065	0.280
8*	8.625	7.981	0.322
10*	10.750	10.020	0.365
12*	12.750	11.938	0.406

*These sizes of ABS pipe are not currently covered in ASTM D2661.

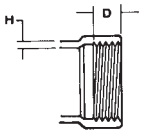
Pipe

Dimensions of NIBCO® ABS & PVC DWV Fitting Sockets, Threaded Ends and Male Ends

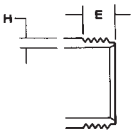
Solvent Socket (HUB)



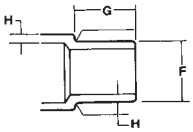
Internal (Female) Threads (FIPT)



External (Male) Threads (MIPT)



Spigot (Male) End (SPIG)



Nominal Size	A, avg.	B, avg.	C, min.	D	E	F	G, min.	H, min.
1 1/4	1.670	1.655	0.688	0.75	0.71	1.660	0.75	0.16
1 1/2	1.910	1.895	0.688	0.75	0.72	1.900	0.75	0.16
2	2.385	2.370	0.750	0.75	0.75	2.375	0.81	0.16
3	3.515	3.495	1.500	1.20	1.20	3.500	1.56	0.22
4	4.515	4.495	1.750	1.30	1.30	4.500	1.81	0.25
6	6.647	6.614	3.000	1.50	1.51	6.625	3.06	0.28
8	8.655	8.610	4.000	2.00	1.72	8.625	4.06	0.33
10	10.780	10.737	5.000	2.20	N/A	10.750	5.06	0.36
12	12.780	12.736	6.000	2.38	N/A	12.750	6.06	0.41

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CPVC-CTS Copper Tube Size (SDR 11)

Tube and Fittings

Dimensions and Pressure Ratings

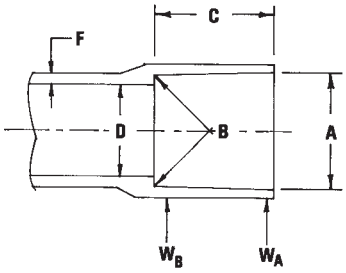
NIBCO® CPVC-CTS fittings are manufactured to the material and dimensional requirements of ASTM D2846. Each product can be easily identified by the tan color. The outside diameter of the tube has the same dimension as the equivalent size copper tube; therefore, the product line is referred to as CPVC-CTS (Copper Tube Size).

The tube meets the dimensional requirements of SDR-11 (Standard Dimension Ratio). Through the ratio of tube O.D.-to-wall thickness, SDR design maintains the same pressure rating regardless of size . Tube and fitting dimensions are shown in inches.

CPVC-CTS Tube Dimensions

Outside Diameter, Wall Thickness, and Tolerances for CPVC 4120, SDR 11 Plastic Tubing per ASTM D2846

Nominal Size	Average Tubing O.D.	Tolerance on Average O.D.	Average Tubing I.D.	Wall Thickness	Tolerance on Wall
1/2	0.625	±0.003	0.489	0.060	+0.020
3/4	0.875	±0.003	0.715	0.080	+0.020
1	1.125	±0.003	0.921	0.102	+0.020
1 1/4	1.375	±0.003	1.125	0.125	+0.020
1 1/2	1.625	±0.004	1.329	0.148	+0.020
2	2.125	±0.004	1.739	0.193	+0.023



Fitting Dimensions

Nominal Size	Socket Entrance Dia., A		Socket Bottom Dia., B		C	D	WA	W_B	F
	Average	Tolerance	Average	Tolerance	Min.	Min.	Min.	Min.	Min.
1/2	0.633	±0.003	0.619	±0.003	0.500	0.489	0.068	0.102	0.128
3/4	0.884	±0.003	0.870	±0.003	0.700	0.715	0.080	0.102	0.128
1	1.135	±0.003	1.121	±0.003	0.900	0.921	0.102	0.102	0.128
1 1/4	1.386	±0.003	1.372	±0.003	1.100	1.125	0.125	0.125	0.156
1 1/2	1.640	±0.004	1.622	±0.004	1.300	1.329	0.148	0.148	0.185
2	2.141	±0.004	2.123	±0.004	1.700	1.739	0.193	0.193	0.241

NOTE: NIBCO recommends the use of proper transition fittings when joining plastic to metal threaded fittings or pipe.

PVC Schedule 40 Pipe & Pressure Fittings

PVC Schedule 40 pipe and fittings are made for use in cold water systems where the temperature does not exceed 140°F. PVC Schedule 40 fittings are made in compliance with ASTM D2466. Schedule 40 pipe meets the requirements of ASTM D1785. Both the pipe and fittings are manufactured from material conforming to ASTM D1784 and meeting cell Class 12454.

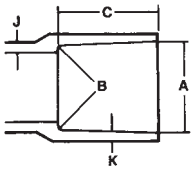
Schedule 40
*Pipe Dimensions and References

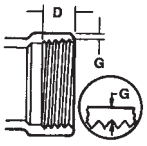
(20 ft. lengths)

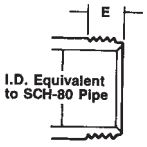
Nominal Size	Average Outside Diameter Inches	Average Inside Diameter Inches	Wall Thickness Inches		Pipe Wall Cross-Sectional Area Inches^2	Inside Diameter Area Inches^2
			Nom.	Min.		
1/2	0.840	0.602	0.119	0.109	0.270	0.285
3/4	1.050	0.804	0.123	0.113	0.358	0.508
1	1.315	1.029	0.143	0.133	0.527	0.832
1 1/4	1.660	1.360	0.150	0.140	0.712	1.453
1 1/2	1.900	1.590	0.155	0.145	0.850	1.986
2	2.375	2.047	0.164	0.154	1.139	3.291
2 1/2	2.875	2.445	0.215	0.203	1.797	4.695
3	3.500	3.042	0.229	0.216	2.353	7.268
4	4.500	3.998	0.251	0.237	3.351	12.554
6	6.625	6.031	0.297	0.280	5.904	28.567
8	8.625	7.942	0.341	0.322	8.887	49.539
10	10.750	9.976	0.387	0.365	12.599	78.164
12	12.750	11.889	0.430	0.406	16.662	111.015

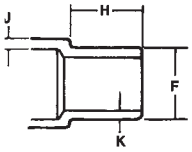
* Do not thread Schedule 40 pipe. Use appropriate fittings for threaded assembly.

Fittings[1]









Nominal Size	Average Outside Diameter Inches	Solvent Socket (Hub)			Internal Threads (FIPT)		External Threads (MIPT)	Male End (Spg)		Wall Thickness	
		A	B	C^2 Min.	D	G Min.	E	F	H Min.	J^2 Min.	K^2 Min.
1/2	0.840	0.848	0.836	0.688	0.463	0.072	0.463	0.840	0.688	0.136	0.109
3/4	1.050	1.058	1.046	0.719	0.482	0.079	0.482	1.050	0.719	0.141	0.113
1	1.315	1.325	1.310	0.875	0.574	0.087	0.574	1.315	0.875	0.166	0.133
1 1/4	1.660	1.670	1.655	0.938	0.594	0.098	0.594	1.660	0.938	0.175	0.140
1 1/2	1.900	1.912	1.894	1.094	0.594	0.106	0.594	1.900	1.094	0.181	0.145
2	2.375	2.387	2.369	1.156	0.610	0.123	0.610	2.375	1.156	0.193	0.154
2 1/2	2.875	2.889	2.868	1.750	0.932	0.139	0.932	2.875	1.750	0.254	0.203
3	3.500	3.516	3.492	1.875	1.016	0.160	1.016	3.500	1.875	0.270	0.216
4	4.500	4.518	4.491	2.000	1.094	0.194	1.094	4.500	2.000	0.296	0.237
6	6.625	6.647	6.614	3.000	1.208	0.280	1.513	6.625	3.000	0.350	0.280
8	8.625	8.655	8.610	4.000	1.313	0.322	1.723	8.625	4.000	0.403	0.322
10	10.750	10.776	10.737	5.375	-	-	-	10.750	5.375	0.487	0.402
12	12.750	12.765	12.700	6.875	-	-	-	12.750	6.875	0.532	0.465

[1]With exception of thread lengths, dimensions shown are listed in ASTM D2466 for PVC Schedule 40 Fittings.
[2]NIBCO fittings may exceed certain minimum ASTM dimensional requirements shown in order to ensure functional satisfaction.

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PVC Schedule 80 Pipe & Pressure Fittings

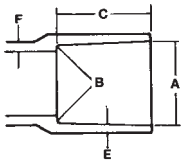
NIBCO®/Chemtrol® grey PVC Schedule 80 fittings are manufactured to applicable national standards, such as, ASTM D2467, for threaded and socket-type fittings. Schedule 80 pipe meets the dimensional requirements of ASTM D1785. Both Schedule 80 pipe and fittings meet cell Class 12454 as specified in ASTM D1784.

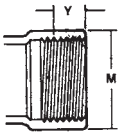
Schedule 80 Pipe Dimensions

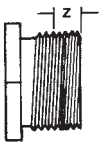
(20 ft. lengths)

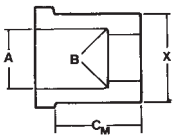
Nominal Size	Average Outside Diameter Inches	Average Inside Diameter Inches	Wall Thickness Inches		Pipe Wall Cross-Sectional Area Inches[2]
			Nom.	Min.	
1/4	0.540	0.282	0.129	0.119	0.167
1/2	0.840	0.526	0.157	0.147	0.337
3/4	1.050	0.722	0.164	0.154	0.457
1	1.315	0.936	0.189	0.179	0.670
1 1/4	1.660	1.255	0.202	0.191	0.927
1 1/2	1.900	1.476	0.212	0.200	1.124
2	2.375	1.913	0.231	0.218	1.556
2 1/2	2.875	2.290	0.292	0.276	2.373
3	3.500	2.864	0.318	0.300	3.179
4	4.500	3.786	0.357	0.337	4.647
6	6.625	5.709	0.458	0.432	8.873
8	8.625	7.565	0.530	0.500	13.479
10	10.750	9.493	0.628	0.593	19.985
12	12.750	11.294	0.728	0.687	27.495

Fittings[1]









Nominal Size	Average Outside Diameter Inches	Solvent Socket (Hub)			Internal Threads (FIPT)		External Threads (MIPT)	Male End (Spg)		Wall Thickness	
		A	B	C[2] Min.	Y[2]	M Min.	Z[2]	X	Cm Min.	F[2] Min.	E[2] Min.
1/4	0.540	0.552	0.536	0.625	0.339	0.840	0.339	0.540	0.625	0.149	0.119
1/2	0.840	0.848	0.836	0.875	0.463	1.280	0.463	0.840	0.875	0.185	0.147
3/4	1.050	1.058	1.046	1.000	0.482	1.500	0.482	1.050	1.000	0.195	0.154
1	1.315	1.325	1.310	1.125	0.574	1.810	0.574	1.315	1.125	0.225	0.179
1 1/4	1.660	1.670	1.655	1.250	0.594	2.200	0.594	1.660	1.250	0.240	0.191
1 1/2	1.900	1.912	1.894	1.375	0.594	2.500	0.594	1.900	1.375	0.250	0.200
2	2.375	2.387	2.369	1.500	0.610	3.000	0.610	2.375	1.500	0.275	0.218
2 1/2	2.875	2.889	2.868	1.750	0.932	3.560	0.932	2.875	1.750	0.345	0.276
3	3.500	3.516	3.492	1.875	1.016	4.300	1.016	3.500	1.875	0.375	0.300
4	4.500	4.518	4.491	2.250	1.094	5.430	1.094	4.500	2.250	0.420	0.337
6	6.625	6.647	6.614	3.000	N/A	N/A	N/A	6.625	3.000	0.540	0.432
8	8.625	8.655	8.610	4.000	N/A	N/A	N/A	8.625	4.000	0.625	0.500
10	10.750	10.798	10.725	5.500	N/A	N/A	N/A	N/A	N/A	0.741	0.593
12	12.750	12.785	12.725	7.000	N/A	N/A	N/A	N/A	N/A	0.859	0.687

[1]Dimensions shown are listed in ASTM D2467 for Threaded and Socket-Type Schedule 80 Fittings.
[2]Fittings may exceed certain minimum ASTM dimensional requirements shown in order to insure functional satisfaction.

General Storage, Handling, and Safety Considerations for Thermoplastic Piping Components

STORAGE

Thermoplastic piping components are designed and manufactured for use in systems involving the transport of aggressive liquids as well as potable water. In order to ensure their integrity, they must be handled with reasonable care prior to installation.

Pipe

When pipe is received in standard lifts it should remain in the lift until ready for use. Lifts should not be stacked more than three high and should always be stacked wood-on-wood. Loose pipe should be stored on racks with a minimum support spacing of three feet. Pipe should be shaded but not covered directly when stored outside in high ambient temperatures. This will provide for free circulation of air and reduce the heat build-up due to direct sunlight exposure.

Fittings

Fittings should be stored in their original cartons to keep them free of dirt and reduce the possibility of damage. If possible, fittings should be stored indoors.

Solvent Cements and Primers

Solvent cements have a definitive shelf life and each can and carton is clearly marked with a date of manufacture. Stock should be rotated to insure that the oldest material is used first.

HANDLING

Pipe and Fittings

Care should be exercised to avoid rough handling of thermoplastic pipe and fittings. They should not be dragged over sharp projections, dropped, or have objects dropped upon them. Pipe ends should be inspected for cracks resulting from such abuse. Transportation by truck or pipe trailer will require that the pipe be continuously supported and all sharp edges on the trailer bed that come in contact with the pipe must be padded.

Solvent Cements and Primers

Keep containers for solvent cements tightly closed except when in use. Avoid prolonged breathing of solvent vapors, and when pipe and fittings are being joined in partially enclosed areas use a ventilating device to attenuate vapor levels. Keep solvent cements, primers, and cleaners away from all sources of ignition, heat, sparks, and open flames. Avoid repeated contact with the skin by wearing proper gloves impervious to the solvents. Application of the solvents or cements with rags and bare hands is not recommended; natural fiber brushes and other suitable applicators can produce satisfactory results.

IMPORTANT FACTS TO KNOW ABOUT ABS, PVC, AND CPVC SOLVENT CEMENT

1. ABS solvent cement should be used only for joining ABS pipe and fittings.
2. PVC solvent cement should be used only for joining PVC Pipe and fittings.
3. CPVC solvent cement should be used only for joining CPVC pipe and fittings.
4. A good joint is as strong as the pipe, since the solvent chemically welds the fitting to the pipe.
5. The solvent cement containers should always be covered when not in use to prevent excessive evaporation. Do not use thinner. Cement that shows signs of thickening and is lumpy should be discarded.
6. PVC solvent cement and primer can be used for both PVC pressure and DWV piping systems.

SAFETY CONSIDERATIONS

Pipe and Fittings

ABS, PVC, and CPVC products contained within this catalog are intended for use in the distribution of media that are chemically compatible with the piping materials. **Due to the inherent hazards associated with testing these components and piping systems with compressed air or other compressed gases, NIBCO does not allow pneumatic testing or use of these products in compressed air or gas piping systems.**

Note: Pressurized (compressed) air and other compressed gases contain large amounts of stored energy, which present serious safety hazards should the system fail for any reason.

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General Storage, Handling, and Safety Considerations for Thermoplastic Piping Components (continued)

Solvent Cements and Primers

DANGER:

- Solvent cements and primers are extremely flammable.
- Vapors from solvent cements and primers may be harmful if inhaled for prolonged periods of time.
- Solvent cements and primers may be harmful if swallowed.
- Solvent cements and primers may cause skin or eye irritation.

CAUTION: Solvent Cements and Primers are composed of various solvents and as such require special conditions for storage. Because of their flammability they must not be stored in an area where they might be exposed to ignition, heats, sparks, or open flames.

Solvent Welding Instructions for ABS, PVC, & CPVC-CTS FlowGuard Gold® Pressure & DWV Piping Systems

Scope

The solvent welding procedure detailed herein applies to all NIBCO® ABS-DWV, PVC-DWV, PVC, and CPVC-CTS pressure piping systems including molded fittings and valves. Belled-end pipe and sewer pipe can also be joined in this manner. NIBCO TECHNICAL SERVICES is available for additional solvent-welding guidance and recommendations.

Joining Equipment and Materials

- Cutting Tool
- Rags (non-synthetic, i.e., cotton)
- Deburring Tool
- Cement and Primer Applicators
- Applicator Can or Bucket
- Purple Primer
- Solvent Cement
- Tool Tray
- Notched Boards

TYPES OF CEMENT

- PVC Solvent Cement - Light Duty Industrial Grade is for use with all Sch. 40, DWV and SDR pipe through 6".
- PVC Solvent Cement - Heavy Duty Industrial Grade is for use with all Sch. 80 and SDR pipe through 6".
- PVC Solvent Cement - Extra Heavy Duty Industrial Grade is for use with all PVC pipe 6" and larger.
- ABS Solvent Cement - For use in joining Sch. 40, SDR, and DWV pipe through 12" size.
- CPVC-CTS, Orange Colored Solvent Cement is for use with all sizes of Copper Tube Size tube and fittings.
- Purple Primer is for use with all PVC and CPVC pipe/tube and fittings.

NOTE: Do not take shortcuts - follow instructions completely.

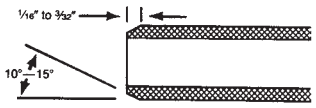
PIPE/TUBE PREPARATION

1. Cutting

Plastic pipe/tube can be easily cut with a powersaw, circular saw, band saw, or handsaw. For best results, use a fine-toothed blade (16-18 teeth per inch) with little or no set (maximum 0.025 inch). A circumferential speed of about 6,000 ft./min. is suitable for circular saws; band saw speed should be approximately 3,000 ft./min. Carbide-tipped blades are preferable when quantities of pipe/tube are to be cut. To insure square-end cuts, a mitre box, hold-down, or jig should be used. Pipe or tubing cutters can be used for smaller diameter pipe/tube when the cutting wheel is specifically designed for plastic pipe.

2. Deburring and Beveling

All burrs, chips, filings, etc., should be removed from both the pipe/tube I.D. and O.D. before joining. Use a knife, deburring tool, or a half-round, coarse file to remove all burrs. All pipe/tube ends should be beveled to approximately the dimensions shown below for ease of socketing and to minimize the chances of wiping the solvent cement from the I.D. of the fitting as the pipe/tube is socketed:



The beveling can be done with a coarse file or a beveling tool such as that manufactured by Reed Manufacturing Company, Erie, Pennsylvania.

FITTING PREPARATION

Prior to solvent welding, all fittings and couplings should be removed from their cartons and exposed for at least one hour to the same temperature conditions as the pipe/tube in order to assure that they are thermally balanced before joining.

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Solvent Welding Instructions for ABS, PVC, & CPVC-CTS FlowGuard Gold® Pressure & DWV Piping Systems (continued)

CLEANING

Using a clean, dry cotton rag, wipe away all loose dirt and moisture from the I.D. and O.D. of the pipe/tube end and the I.D. of the fitting. DO NOT ATTEMPT TO SOLVENT-WELD WET SURFACES.

DANGER: Solvent cements and primers are extremely flammable and harmful if swallowed. Vapors are harmful. May cause eye irritation and repeated or prolonged skin contact causes skin irritation.
Keep away from heat, sparks and open flame. Use only with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid prolonged breathing of vapor. Close container after each use.
FIRST AID: In case of skin contact, flush with water; for eyes, flush with water for at least 15 minutes and seek medical attention. Wash contaminated clothing before reuse. If swallowed, DO NOT INDUCE VOMITING, call a Physician immediately.

PRIMING

The function of purple primer is to penetrate and soften the bonding surfaces of PVC and CPVC pipe/tube and fittings. (Primer is not required with ABS.) It is a product that penetrates rapidly. It is very effective on the hard-finished, high-gloss products now being produced.

Apply primer to the pipe/tube with a paint brush approximately 1/2 of the pipe/tube diameter. A rag is not recommended as repeated contact with skin may cause irritation or blistering.

Apply primer freely in the socket, keeping surface and applicator wet and in motion 5 to 15 seconds. Redip applicator as necessary. Avoid puddling in the socket.

Apply again to the fitting socket. The second application is especially recommended for belled-end pipe and fittings fabricated from pipe stock, for many of them have especially hard inside-surfaces.

For checking penetration, you should be able to scratch or scrape a few thousandths of an inch of the primed surfaces away. Repeated application to either or both surfaces may be necessary. Weather conditions affect priming action. In cold weather more time is required for proper penetration.

NOTE: The pipe/tube ends can be rested on notched boards to keep them clean and for ease of solvent cement application.

NOTE: There are "one-step" cements available for PVC and CPVC that eliminate the need to use a primer. NIBCO recommends that if a "One-Step" solvent cement is used to assemble our plastic fittings into a system that the solvent cement manufacturer's instructions for assembly be followed and be limited to applications where established temperatures are 40°F or higher. Whenever feasible and available, NIBCO recommends using a "One-Step" solvent cement specifically formulated with Lubrizol FlowGuard Gold® CPVC resin with NIBCO CPVC-CTS fittings.

NOTE: NIBCO recommends use of purple primer and solvent cement for assembling SCH80 solvent weld joints, in both PVC and CPVC, in industrial applications, where the media is beyond hot and cold water delivery piping.

SOLVENT CEMENT APPLICATION

Using the proper applicator (see chart - page 82 for specific recommendations) proceed as follows:

1. Apply a full even layer of cement on the pipe O.D. for a distance slightly greater than the depth of the socket of the fitting.

2. Coat the fitting socket with a medium layer, avoiding puddling. On belled-end pipe or fabricated fittings, do not coat beyond the socket depth or allow cement to run beyond the bell.

3. Put a second full even layer on the pipe/tube O.D.

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Solvent Welding Instructions for ABS, PVC, & CPVC-CTS FlowGuard Gold® Pressure & DWV Piping Systems (continued)

Cement Layers must be without voids and sufficient to fill any gap in the joints.

HANDLING OF PRIMER AND CEMENT

NOTE: Observe the "use prior to" date. Cement has a limited shelf life. Do not permit solvent cement cans to stand open. Do not use cement that has dried to the point where it becomes lumpy and stringy. Dispose of properly. Do not attempt to thin out sluggish cement with thinner or primer. The solvents in the primer and cement are highly flammable, like a fast drying lacquer, and should not be used near an open flame. Use them in a well ventilated area and avoid prolonged breathing of the fumes. Prolonged contact with the skin could cause minor irritation.

JOINING

1. Immediately upon finishing cement application and before it starts to set, insert the pipe/tube to the full socket depth while rotating the pipe or fitting a 1/4 turn to insure complete and even distribution of the cement. Hold joint together for a minimum of 10 to 15 seconds to make sure that pipe/tube does not move or back out of the socket.

2. For pipe sizes 6" and larger, a joining crew consisting of two persons is recommended and the following additional steps necessary:

   a. Rotation of the pipe in the fitting may be omitted.
   b. Hold joint together for 1 to 3 minutes depending on pipe size.
   c. As an aid for joining in these larger sizes it is recommended that a come-along or pipe joining tool similar to that manufactured by Reed Manufacturing Company be used.

EXCESS CEMENT

Immediately after joining and before joint is set, gently place it back onto a level surface, wipe off all excess cement from the circumference of the pipe and fitting.

JOINT INTEGRITY

ABS, PVC, and CPVC-CTS piping joint integrity depends greatly upon following exactly and by intent NIBCO's specific handling, inspection, storage, shipping, fabrication, installation, testing, and operating instructions. Joint integrity also depends greatly upon an infinitely wide, unpredictable, and uncontrollable set of product and environmental conditions that go into determining the length of drying times, before a joint should be moved, handled, or whether intended for low or high working-pressure applications. These conditions include size of pipe, surface temperature of the joint, dry joint interference fit, and relative humidity. Drying times will be faster with smaller pipe/tube, higher surface temperatures, tighter interference fits, and lower relative humidity. Drying times will be slower when these conditions are reversed.

Because of the uncontrollable and unpredictable variety of drying conditions that can exist from job-to-job and moment-to-moment, NIBCO recommends only the drying times and solvent-welding conditions specified below:

1. When exposed to direct sunlight, solvent-welding joining should not be done in atmospheric temperatures below 40°F or above 90°F.

2. NIBCO recommends that 24 hours of joint drying time should elapse for all sizes of pipe and drying temperatures, before the joint is moved or subjected to any appreciable internal or external pressure.

HANDLING

During the initial setting of the cement, which begins about two minutes after application, (on small sizes) be careful not to move or disturb the joint. NIBCO offers, as a non-liability supplier, the following drying times as a guide in aiding the installer, engineer, owner, or other decision making party in deciding at his own risk when the joints are sufficiently dry for movement, handling, low pressure, initial joint testing, application of high pressure tests, and introduction of working pressure. These drying times are based upon a combination of past field experience and laboratory tests.

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Solvent Welding Instructions for ABS, PVC, & CPVC-CTS FlowGuard Gold® Pressure & DWV Piping Systems (Continued)

ABS, PVC, and CPVC-CTS Joint Movement Times

Nominal Size	HOT WEATHER* 90°-150°F Surface Temperature	MILD WEATHER* 50°-90°F Surface Temperature	COLD WEATHER* 10°-50°F Surface Temperature
1/2 - 1 1/4	12 Min.	20 Min.	30 Min.
1 1/2 - 2 1/2	30 Min.	45 Min.	1 Hr.
3 - 4	45 Min.	1 Hr.	1 Hr. & 30 Min.
6 - 8	1 Hr.	1 Hr. & 30 Min.	2 Hrs. & 30 Min.
10 -12	2 Hrs.	3 Hrs.	5 Hrs.

*The temperatures above are only ***drying*** temperatures and should not be confused with atmospheric, joining-temperature recommendations and limitations. See Section on "Joint Integrity."

PRESSURE TESTING

CAUTION: AIR OR COMPRESSED GAS ARE *NOT* RECOMMENDED AS MEDIA FOR PRESSURE TESTING OF PLASTIC PIPING SYSTEMS.

1. Initial joint testing: Initial joint testing of PVC and CPVC-CTS pipe/tube could possibly be accomplished to 10% of its hydrostatic pressure rating after the below drying times have been observed:

PVC and CPVC-CTS Joint Drying Times at 10% Pressure

Nominal Size	HOT WEATHER* 90°-150°F Surface Temperature	MILD WEATHER* 50°-90°F Surface Temperature	COLD WEATHER* 10°-50°F Surface Temperature
1/2 - 1 1/4	1 Hr.	1 Hr. & 15 Min.	1 Hr. & 45 Min.
1 1/2 - 2 1/2	1 Hr. & 30 Min.	1 Hr. & 45 Min.	3 Hrs.
3 - 4	2 Hrs. & 45 Min.	3 Hrs. & 30 Min.	6 Hrs.
6 - 8	3 Hrs. & 30 Min.	4 Hrs.	12 Hrs.
10 -12	6 Hrs.	8 Hrs.	72 Hrs.

*The temperatures above are only ***drying*** temperatures and should not be confused with atmospheric, joining-temperature recommendations and limitations. See Section on "Joint Integrity."

2. The PVC pipe and CPVC-CTS tube could possibly be pressure tested up to 100% of its hydrostatic pressure rating after the below drying times:

PVC and CPVC-CTS Joint Drying Times For 100% Pressure

Nominal Size	HOT WEATHER* 90°-150°F Surface Temperature	MILD WEATHER* 50°-90°F Surface Temperature	COLD WEATHER* 10°-50°F Surface Temperature
1/2 - 1 1/4	4 Hrs.	5 Hrs.	7 Hrs.
1 1/2 - 2 1/2	6 Hrs.	8 Hrs.	10 Hrs.
3 - 4	8 Hrs.	18 Hrs.	24 Hrs.
6 - 8	12 Hrs.	24 Hrs.	48 Hrs.
10 -12	18 Hrs.	36 Hrs.	72 Hrs.

*The temperatures above are only ***drying*** temperatures and should not be confused with atmospheric, joining-temperature recommendations and limitations. See Section on "Joint Integrity."

DO'S AND DON'TS

DO:

- Use the proper applicator.
- Use the proper type of solvent cement for the job.
- Follow the instructions completely.

DON'T:

- Attempt to solvent weld under the following conditions:
  1. If it is raining.
  2. If the atmospheric temperature is below 40°F.
  3. If under direct exposure to sun at atmospheric temperatures above 90°F
- Discard empty cans of solvent, primer or rags in trench or near piping. Concentrated fumes or dripping cement or primer can cause piping failure.

Solvent Welding Instructions for ABS, PVC, & CPVC-CTS FlowGuard Gold® Pressure & DWV Piping Systems (Continued)

HOT WEATHER CEMENTING

Since cement contains a solvent, certain precautions or steps should be taken when the atmospheric temperature is above 90°F, to avoid evaporation of the solvent from the cement just prior to joining. Such evaporation will cause the cement to prematurely set before joining, thus, adversely affecting the joint integrity. Use one or a combination of the list below to reduce the chances of this condition occurring:

1. Shade or shelter the joint surfaces from direct exposure to the sun's rays for at least one hour prior to joining and during the joining process.
2. Make cement joints during early morning hours.
3. Apply cement quickly. On 6" and larger pipe, it is recommended that two persons apply cement to pipe surface while the third applies it to the fitting socket.
4. Join pipe to fittings as quickly as possible after applying cement.

COLD WEATHER CEMENTING

Because the solvents in the cement will not evaporate as readily when the temperature is below 40°F, the pipe joints will not set up as rapidly in cold weather. If solvent cementing must be done when the temperature is below 40°F the following suggestions are offered:

1. Store pipe, fittings, cement and primer in a heated area.
2. Prefab as much of the system as possible in a heated work area.
3. Joints that must be made outside should be protected with a portable shelter and heated with indirect heat to surface temperatures above 40°F prior to joining. The shelter and heat should remain in place for at least two hours after joint assembly.
4. Pipe and fittings must be dry prior to joining and the joints should be kept dry until the cement has had sufficient time to set.

CAUTION: DO NOT ATTEMPT TO SPEED THE SETTING OR DRYING OF THE CEMENT BY APPLYING DIRECT HEAT TO THE SOLVENT WELDED JOINT. Forced rapid drying by heating will cause the cement solvents to boil off, forming porosity, bubbles, and blisters in the cement film.

Applicators

Nominal Size	Roller Size	Recommended Brush Width*, in.
1/4	Not Recommended	1/2
3/8		1/2
1/2		1/2
3/4		1/2
1		1/2
1 1/4		1
1 1/2		1
2		1
2 1/2		1 1/2
3	3	1 1/2
4		2
6		3
8	7	4
10		4, 6, or 8
12		4, 6, or 8

*Natural bristle brushes should always be specified. It is recognized that the recommended brush width may not always be readily available. However, the selection should come as close as possible to the recommended width in order to insure complete coverage with a minimum number of brush strokes.

REQUIREMENTS

The below estimated PVC, CPVC, and ABS IPS pipe solvent cement requirements should only be considered as a guideline for usage and could vary according to a wide variety of installation conditions. Further, these estimates should in no way be used to restrict the liberal cement application instructions recommended for the pipe.

Number of Joints Per...*

*Each joint represents one socket in a fitting.

Nominal Size	Pint	Quart	Gallon
1/2	130	260	1040
3/4	80	160	640
1	70	140	560
1 1/4	50	100	400
1 1/2	35	70	280
2	20	40	160
2 1/2	17	34	136
3	15	30	120
4	10	20	80
5	8	16	64
6	N/R	8	24
8	N/R	3	12
10	N/R	N/R	10
12	N/R	N/R	6

N/R - Not Recommended.

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Solvent Welding Instructions for ABS, PVC, & CPVC-CTS FlowGuard Gold® Pressure & DWV Piping Systems (Continued)

The estimated CPVC-CTS solvent cement requirements listed below should only be considered as a guideline for usage and could vary according to a wide variety of installation conditions. Further, these estimates should in no way be used to restrict the liberal cement application instructions recommended for the tube.

Number of Joints Per Pint

Nominal Size	Joints
1/2	255
3/4	170
1	138
1 1/4	95
1 1/2	68
2	38

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Threading Instructions for Thermoplastic Pipe

Scope

The procedure presented, herein, covers threading of all IPS Schedule 80 or heavier thermoplastic pipe. These tapered threads are National Pipe Threads (NPT) which are cut to the dimensions outlined in ASME B1.20.1.

Thread Dimensions

PIPE		THREADS					
Nominal Size	Outside Diameter D, in.	Number of Threads Per Inch	Normal Engagement By Hand C, in.	Length of Effective Thread A, in.	Total Length: End of Pipe to Vanish Point B, in.	Pitch Diameter at End of Internal Thread E, in.	Depth of Thread (Max.) in.
1/4	0.540	18	0.228	0.4018	0.5946	0.49163	0.04444
1/2	0.840	14	0.320	0.5337	0.7815	0.77843	0.05714
3/4	1.050	14	0.339	0.5457	0.7935	0.98887	0.05714
1	1.315	11 1/2	0.400	0.6828	0.9845	1.23863	0.06957
1 1/4	1.660	11 1/2	0.420	0.7068	1.0085	1.58338	0.06957
1 1/2	1.900	11 1/2	0.420	0.7235	1.0252	1.82234	0.06957
2	2.375	11 1/2	0.436	0.7565	1.0582	2.29627	0.06957
2 1/2	2.875	8	0.682	1.1375	1.5712	2.76216	0.10000
3	3.500	8	0.766	1.2000	1.6337	3.38850	0.10000
4	4.500	8	0.844	1.3000	1.7337	4.38713	0.10000

Note: Do not thread Schedule 40 pipe.

THREADING EQUIPMENT AND MATERIALS

- Pipe Dies
- Pipe Vise
- Threading ratchet or power machine
- Tapered plug
- Cutting lubricant (soap and water)
- Strap wrench
- PTFE tape
- Cutting tools
- Deburring tool

PIPE PREPARATION

Plastic pipe can be easily cut with a powersaw, circular saw, band saw, or handsaw. For best results, use a fine-toothed blade (16-18 teeth per inch) with little or no set (maximum 0.025 inch). A circumferential speed of about 6,000 ft./min. is suitable for circular saws; band saw speed should be approximately 3,000 ft./min. Carbide-tipped blades are preferable when quantities of pipe are to be cut. To ensure square-end cuts, a mitre box, holddown, or jig should be used. Pipe or tubing cutters can be used for smaller diameter pipe when the cutting wheel is specifically designed for plastic pipe. Such a cutter is available from the Reed Manufacturing Co. or Ridge Tool Company.

THREADING DIES

Thread-cutting dies should be clean, sharp, and in good condition, and should not be used to cut materials other than plastics. Dies with a 5° negative front-rake angle are recommended when using power threading equipment and dies with a 5° to 10° negative front-rake angle are recommended when cutting threads by hand. When cutting threads with power threading equipment, self-opening die heads and a slight chamfer to lead the dies will speed production.

1. Hold pipe firmly in a pipe vise. Protect the pipe at the point of grip by inserting a rubber sheet or other material between the pipe and vise.

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Threading Instructions for Thermoplastic Pipe (Continued)

2. A tapered plug must be inserted in the end of the pipe to be threaded. This plug provides additional support and prevents distortion of the pipe in the threaded area. Distortion of the pipe during the threading operation will result in eccentric threads, non-uniform circumferential thread depth or gouging and tearing of the pipe wall. See table below for approximate plug O.D. dimensions.

Reinforcing Plug Dimensions*

Nominal Size	Plug O.D.*
1/2	0.526
3/4	0.722
1	0.935
1 1/4	1.254
1 1/2	1.476
2	1.913
2 1/2	2.289
3	2.864
4	3.786

These dimensions are based on the median wall thicknesses and average outside diameter for the respective pipe sizes. Variations in wall thickness and O. D. dimensions may require alteration of the plug dimensions.

3. Use a die stock with a proper guide that is free of burrs or sharp edges, so that the die will start and go on square to the pipe axis.

4. Push straight down on the handle, avoiding side pressure that might distort the sides of the threads. If power threading equipment is used, the dies should not be driven at high speeds or with heavy pressure. Apply an external lubricant liberally when cutting the threads. Advance the die to the point where the thread dimensions are equal to those listed in the table on Thread Dimensions on the previous page. Do not overthread.

5. Periodically check the threads with a ring gage to insure that proper procedures are being followed. Thread dimensions are listed in the table on Thread Dimensions. The gauging tolerance is ± 1 1/2 turns.

6. Brush threads clean of chips and ribbons. Then starting with the second full thread, and continuing over the thread length, wrap PTFE thread tape in the direction of the threads. Overlap each wrap by one half the width of the tape. Thread lubricant/sealant may be used if approved by the manufacturer.

Threading Instructions for Thermoplastic Pipe (Continued)

7. Thread the fitting onto the pipe and tighten by hand. Using a strap wrench only, further tighten the connection an additional one to two threads past hand tightness. Avoid excessive torque as this may cause thread damage or fitting damage.

Pressure Testing
Threaded piping systems can be pressure tested up to 100% of their hydrostatic pressure rating as soon as the last connection is made.

CAUTION: AIR OR COMPRESSED GAS ARE NOT RECOMMENDED AS MEDIA FOR PRESSURE TESTING OF PLASTIC PIPING SYSTEMS. FAILURE TO FOLLOW THIS WARNING MAY RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE.

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Flanged Joints

Scope

Flanging is used extensively for plastic process lines that require periodic dismantling. Plastic flanges and factory flanged valves and fittings in PVC, CPVC, PVDF and polypropylene are available in a full range of sizes and types for joining to pipe by solvent welding, threading, or thermosealing as in the case with polypropylene and PVDF. Gasket seals between the flange faces should be an elastomeric full flat-faced gasket with a hardness of 50 to 70 durometer A. NIBCO can provide polychloroprene (CR) gaskets nominal sizes 1/2 through 8 having a 1/8 inch thickness. For chemical environments too aggressive for polychloroprene other more resistant elastomers should be used.

Dimensions

Bolt circle and number of bolt holes for the flanges are the same as Class 150 metal flanges per ASME B16.5. Threads are tapered iron pipe size threads per ASME B1.20.1. The socket dimensions conform to ASTM D2467, which describes nominal sizes 1/2 thru 8. Internal NIBCO specifications have been established for the size 10 and 12 PVC patterns.

Pressure Rating

As with all other thermoplastic piping components, the maximum non-shock operating pressure is a function of temperature. Maximum pressure rating for NIBCO® valves, unions and flanges is 150 psi. Above 100°F refer to the chart.

Maximum Operating Pressure (psi)

Operating Temp. °F	PVC
100	150
110	135
120	110
130	75
140	50
150	N/R
160	N/R
170	N/R
180	N/R
190	N/R
200	N/R
250	N/R
280	N/R

N/R Not Recommended

ASME B16.5 Dimensional Data for Flanges and Flanged Fittings

(Dimensions and Bolts Conform to Class 150 Steel Flanges)

Dimensions				
		Drilling		
Nominal Size	Outside Diameter (inches)	Number of Holes	Diameter of Bolt (Inches)	Diameter of Bolt Circle (inches)
1/2	3.50	4	1/2	2.38
3/4	3.88	4	1/2	2.75
1	4.25	4	1/2	3.12
1 1/4	4.62	4	1/2	3.50
1 1/2	5.00	4	1/2	3.88
2	6.00	4	5/8	4.75
2 1/2	7.00	4	5/8	5.50
3	7.50	4	5/8	6.00
4	9.00	8	5/8	7.50
6	11.00	8	3/4	9.50
8	13.50	8	3/4	11.75
10	16.00	12	7/8	14.25
12	19.00	12	7/8	17.00

Sealing

The faces of the flanges are tapered back away from the orifice area at a 1/2 to 1° pitch, so that when the bolts are tightened, the faces will be pulled together generating a force in the water way area to improve the sealing.

INSTALLATION TIPS

Once a flange is joined to the pipe, the method for joining two flanges together is as follows:

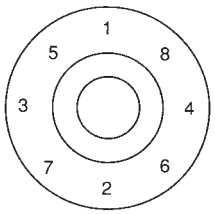
1. Make sure that all the bolt holes of the mating flanges match up. It is not necessary to twist the flange and pipe to achieve this.
2. Insert all bolts.
3. Make sure that the faces of the mating flanges are not separated by excessive distance prior to bolting down the flanges.
4. The bolts on the plastic flanges should be tightened by pulling down the nuts diametrically opposite each other using a torque wrench. Complete tightening should be accomplished in stages and the final torque values shown in the table should be followed for the various sizes of flanges. Uniform stress across the flange will eliminate leaky gaskets.

Flanged Joints (continued)

Flange Size	Recommended Torque*
1/2 - 1 1/2	10- 15 ft. lbs.
2 - 4	20- 30 ft. lbs.
6 - 8	33- 50 ft. lbs.
10	53- 75 ft. lbs.
12	80-110 ft. lbs.

*For a well-lubricated bolt with flat washers under bolt head and nut.

The following tightening pattern is suggested for the flange bolts:



5. If the flange is mated to a rigid and stationary flanged object, or a metal flange, particularly in a buried situation where settling could occur with the plastic pipe, the plastic flange must be supported to eliminate potential stressing.

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Adapting Plastic Piping to Other Piping Materials

THREADED CONNECTIONS - ABS, CPVC, & PVC pipe less than Schedule 80 wall should not be threaded. Most codes require transition from one material to another by use of appropriate adapter fittings. NIBCO offers a complete line of adapters for ABS, CPVC, & PVC.
Common thread sealants should not be used on threaded ABS, CPVC, or PVC joints. When necessary, PTFE pipe tape can be used.

CONNECTING CPVC TO METAL PIPE OR FITTINGS - The recommended methods of joining CPVC tube to metal threaded valves or piping are to use one of the special transition unions or a CPVC adapter with a threaded-brass insert. Threaded plastic-to-metal connections are not recommended. The difference in the rates of expansion of CPVC and metal may cause leakage in threaded joints.

CONNECTING CPVC TO HOT WATER HEATER

An approved temperature/pressure relief valve should be assembled to the hot water heater so that the probe or sensing element enters the water at the top of the heater. Using metal nipples, extend the metal piping at least 12 inches from the water heater on both the cold water supply and the hot water discharge lines. Special transition unions or CPVC adapters with a threaded-brass insert must be used to join the CPVC tube to the nipples. Do not use CPVC pipe and fittings with commercial type non-storage water heaters.

Pipe Support Spacing

ABS & PVC piping should be supported just as any other piping system. Ordinary hanger straps may be used for suspending below floor systems. The light weight of ABS & PVC may lead one to believe that wider hanger spacing could be permitted. Four or five foot spacing is recommended, with proper support at the base of each stack. CPVC Pressure pipe should be supported every three feet.

Since ABS, CPVC, & PVC are non-metallic, they are not as "stiff" as their metal counterparts, therefore the installer must exercise care to assure proper alignment of required grades.

Branch fittings serving trap arms should also be secured to the framing to prevent movement. Hanger straps should not be so tight as to compress, distort, cut, or abrade the piping.

ALLOWING FOR EXPANSION in pressure piping, allowance for expansion due to changing temperature is important. It is good practice to include a 12-inch offset every ten feet in a straight run. Illustrated below are several methods for providing off sets.

Specific Gravity	Correction Factor
1.1	0.98
1.2	0.96
1.4	0.93
1.6	0.90
2.0	0.85
2.5	0.80

The above data is for un-insulated lines. For insulated lines reduce spans to 70% of table values. For spans of less than 2 feet continuous support should be used.

Pipe Support Spacing, ABS-DWV, Ft.			
Nominal Size	70°F	100°F	140°F
1 1/4	4 1/2	4 1/2	4
1 1/2	5	5	4 1/2
2	5	5	4 1/2
3	6	6	5 1/2
4	6 1/4	6 1/4	5 3/4
6	6 3/4	6 3/4	6
8	7	7	6 1/2
10	7	7	6 1/2
12	7	7	6 1/2

Pipe Support Spacing, CPVC-CTS, Ft.				
Nominal Size	70°F	100°F	140°F	180°F
1/2	3	3	2 1/2	2 1/2
3/4	3	3	2 1/2	2 1/2
1	3	3	2 1/2	2 1/2
1 1/4	4	4	3 1/2	3 1/2
1 1/2	4	4	3 1/2	3 1/2
2	4	4	3 1/2	3 1/2

Pipe Support Spacing, PVC-Schedule 40, Ft.			
Nominal Size	70°F	100°F	140°F
1/2	4 1/2	4	2 1/2
3/4	5	4	2 1/2
1	5 1/2	4 1/2	2 1/2
1 1/4	6	5	3
1 1/2	6	5	3
2	6	5	3
2 1/2	7	6	3 1/2
3	7	6	3 1/2
4	7 1/2	6 1/2	4
5	7 1/2	6 1/2	4
6	8 1/2	7 1/2	4 1/2
8	9	8	4 1/2
10	10	8 1/2	5
12	10	8 1/2	5

Pipe Support Spacing, PVC-Schedule 80, Ft.			
Nominal Size	70°F	100°F	140°F
1/2	5	4 1/2	2 1/2
3/4	5 1/2	4	2 1/2
1	6	5	3
1 1/4	6 1/2	5 1/2	3 1/2
1 1/2	6 1/2	5 1/2	3 1/2
2	7	6	3 1/2
2 1/2	8	7	4
3	8	7	4
4	9	7 1/2	4 1/2
6	10	9	5
8	11	9 1/2	5 1/2

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Expansion and Contraction of Plastic Pipe

CALCULATING STRESS

Plastics, like other piping materials, undergo dimensional changes as a result of temperature variations above and below the installation temperature. If movement resulting from these dimensional changes is restricted by adjacent equipment or by a vessel to which the pipe may be rigidly attached, the resultant stresses and forces may cause damage to such items or even to the pipe itself. In such a case, where compensation is not provided for these dimensional changes and where the piping system is rigidly held or restricted at both ends, an estimate of the magnitude of the resultant stresses can be obtained with the following formula. This formula relates the temperature differential to the temperature dependent modulus and the expansion coefficient for the particular plastic material.

$S = EC(T_1-T_2)$

Where:
S = Stress (psi)
E = Modulus of Elasticity (psi) (See table below for specific values at various temperatures)
C = Coefficient of Expansion (in/in/°Fx10^5) (See physical property chart on page 7 for values)
T_1-T_2 = Temperature differential between the installation temperature and the maximum or minimum system temperature
N/A = Not Applicable

Temperature Vs. Modulus (x 10^5) psi						
Temperature, °F	73	90	100	140	180	210
PVC	4.20	3.75	3.60	2.70	N/A	N/A
CPVC	4.23	4.00	3.85	3.25	2.69	2.20
ABS	2.71	2.43	2.40	1.90	1.54	N/A

The magnitude of the resultant longitudinal forces can be determined by multiplying the stress, times the plastic cross-sectional area.

Example 1:
Assuming the temperature extremes are from 70°F to 100°F, what would be the amount of force developed in nominal size 2 Schedule 40 PVC pipe with the pipe rigidly held and restricted at both ends?

$S = EC(T_1-T_2)$
$S = EC(30)$
$S = (3.60 \times 10^5) \times (3.0 \times 10^{-5})(30)$
$S = 324$ psi

The magnitude of the resultant longitudinal forces:
$F = S \times A$

Where:
F = Force (lbs)
S = Stress (psi)
A = Cross-sectional Area (in^2)

Nominal size 2 Schedule 40 PVC Pipe has:
OD = 2.375 in
ID = 2.047 in

Cross-sectional area (A) = $\left[\left(\frac{OD}{2}\right)^2 - \left(\frac{ID}{2}\right)^2\right]$ X 3.14 = 1.14in^2

Therefore, the magnitude of the resultant longitudinal force is:
F = SA
F = 324 x 1.14
F = 369 lbs.

The extent of expansion or contraction is dependent upon the piping material of construction and its coefficient of linear expansion which, for convenience, is listed below for several materials in units of inches of expansion per 10°F temperature change per 100 feet of pipe or tube.

Expansion Coefficient	
Material	**Y, in/10°F/100ft**
PVC	0.360
CPVC	0.380
ABS	0.500

The degree of thermal expansion or contraction is also dependent upon the system temperature differential, as well as, the length of pipe run between changes in direction and it can be calculated using the following formula:

$\Delta L = \frac{Y(T_1 - T_2)}{10} \times \frac{L}{100}$

Expansion and Contraction of Plastic Pipe (Continued)

Where:

ΔL = Dimensional change due to thermal expansion or contraction (in.)

Y = Expansion coefficient (in/10°F/100ft) (See Table on previous page)

$(T_1\text{-}T_2)$ = Temperature differential between the installation temperature and the maximum and minimum system temperature, which ever provides the greatest differential (°F)

L = Length of pipe run between changes in direction (ft)

Example 2:

How much expansion can be expected in a 200 foot straight run of nominal size 3 PVC Pipe that will be installed at 75°F when the piping system will be operated at a maximum of 120°F and a minimum of 40°?

$$\Delta L = \frac{0.360(120 - 75)}{10} \times \frac{200}{100}$$

ΔL = .360 x 4.5 x 2.0 = 3.24 inches

Stresses and forces that result from thermal expansion and contraction can be reduced or eliminated by providing for flexibility in the piping system through frequent changes in direction or introduction of loops as graphically depicted in the figures below.

Normally, piping systems are designed with sufficient directional changes which provide inherent flexibility to compensate for expansion and contraction. However, when this is not the case or when there is reasonable doubt as to the adequate flexibility of the system, expansion loops or expansion joints should be designed into the system. If an expansion loop (which is fabricated with 90° elbows and straight pipe as depicted in Fig. 1) is to be used, the leg length (R) should be determined by using the following formula to insure that it is of sufficient length to absorb expansion and contraction movement without damage.

$$R = 1.44 \sqrt{D\Delta L}$$

Where:

R = Expansion loop leg length (ft)

D = Nominal outside diameter of pipe (in)

ΔL = Dimensional change due to thermal expansion or contraction (in)

Example 3:

How long should the expansion loop legs be in order to compensate for the expansion in Example 2?

$$R = 1.44 \sqrt{D\Delta L}$$

Flexibility, through the introduction of flexural off-sets, must be inserted into a piping system design in situations where straight runs of pipe are long or the ends of a straight run are restricted from movement and also in situations where the system is restrained. Several examples of methods for inserting flexibility in these situations are graphically presented below. In each case, rigid supports or restraints should not be placed within the leg length of an expansion loop, off-set, or bend.

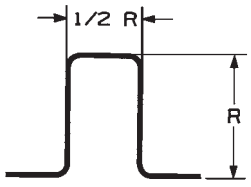

Fig. 1

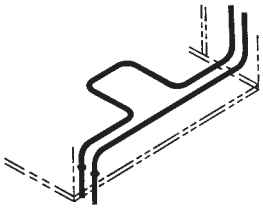

Fig. 2

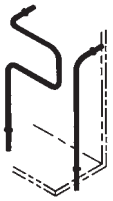

Fig. 3

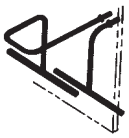

Fig. 4

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ABS-DWV Figure Number Comparison

NIBCO FIG. NO.	SIZE	CHARLOTTE FIG. NO.	MUELLER FIG.
5800	2	122	–
5800	3	–	–
5800	4	122	–
5800-SD	3 x 4	117	02962
5801	1¼	–	02932
5801	1½	100	02933
5801	1½ x 1¼	–	–
5801	2	100	02934
5801	2 x 1½	102	02948
5801	3	100	02935
5801	3 x 1½	102	02949
5801	3 x 2	102	02950
5801	4	100	02936
5801	4 x 2	102	02951
5801	4 x 3	102	02952
5801	6	100	03143
5801-2-7	1¼	–	03391
5801-2-7	1½	103-P	03393
5801-2-7	1½ x 1¼	103-P	03379
5801-2-7	2	–	–
5801-2-7-B	1½	–	–
5801-2-7-C	1½	103-X	–
5801-2-7-C	2	–	–
5801-2-F	1½ x 1¼	107	02904
5801-2-F	2 x 1½	107	02906
5801-2-F	3 x 1½	107	02907
5801-2-F	3 x 2	107	02908
5801-2-F	4 x 2	107	02910
5801-2-F	4 x 3	107	02909
5801-2-F	6 x 4	107	03144
5801-7	1¼	–	–
5801-7	1½	104-P	03377
5801-7	1½ x 1¼	104-P	03395
5801-7	2	–	–
5801-7-B	1¼	–	–
5801-7-B	1½	–	–
5801-7-B	1½ x 1¼	–	–
5801-7-C	1½	104-X	–
5801-7-C	1½ x 1¼	–	–
5801-RP	1½	130	02965
5801-RP	2	130	02966
5801-RP	3	130	02967
5801-RP	4	130	02968
5803	1¼	–	–
5803	1½	101	02866
5803	2	101	02867
5803	3	101	02869
5803	4	101	03396
5803	6	101	03147
5803-2	1¼	–	–
5803-2	1½	105	02922
5803-2	2	105	02923
5803-2	3	105	02924
5803-2	4	105	02925
5803-2	6	–	03148
5803-2-F	1½ x 1¼	–	02912
5803-2-F	2 x 1½	–	02913
5803-2-F	3 x 2	–	–
5803-2-F	4 x 3	–	–
5803-2-SW	1½	900	03418
5803-2-SW-EL	1½	900X	_
5803-2-TPA	1½	113S	03419
5803-TPA	1½	–	03014
5804	1¼	–	–
5804	1½	109	02927
5804	1½ x 1¼	–	02926
5804	2	109	02928
5804	3	109	02929
5804	4	109	02930
5804-2	1¼	–	–
5804-2	1½	111	03386
5804-2	1½ x 1¼	–	03387
5804-2	2	–	03385
5804-2	3	–	–
5804-2	4	–	–
5805	1½ x 2	–	–
5805	1½ x 3	–	02964
5805	2	123	02957
5805	3	–	02958
5805	3 x 4	–	02960
5805	4	–	02959
5805-N	1½ x 2	–	–
5805-N	2	119	02954
5805-N	3	119	02955
5805-N	3 x 4	–	–
5805-N	4	119	02956
5806	1¼	–	–
5806	1½	321	02885
5806	2	321	02886
5806	3	321	02887
5806	4	321	02888
5806	6	321	03132
5806	10	–	–
5806	12	–	–
5806-2	1¼	–	–
5806-2	1½	323	02890
5806-2	2	323	02891
5806-2	3	323	02892
5806-2	4	323	02893
5806-2	6	323	03133

ABS-DWV Figure Number Comparison

NIBCO FIG. NO.	SIZE	CHARLOTTE FIG. NO.	MUELLER FIG.
5807	1 1/4	–	–
5807	1 1/2	300	02876
5807	2	300	02877
5807	3	300	02878
5807	4	300	02879
5807	6	300	03130
5807-2	1 1/4	–	–
5807-2	1 1/2	302	02880
5807-2	2	302	02881
5807-2	3	302	02882
5807-2	4	302	02883
5807-2	6	–	02889
5807-2-CL	4 x 3	330	03107
5807-2-CL	4 x 3 w/Cap	330-X	03108
5807-2-LT	1 1/2	309	03060
5807-2-LT	2	309	03061
5807-2-LT	3	309	03063
5807-2-LT	4	–	–
5807-2-V	1 1/2	–	03088
5807-2-V	2	333	03089
5807-2-V	3	–	03090
5807-3	3	–	–
5807-9	3 x 3 x 1 1/2	–	–
5807-9	3 x 3 x 2	300-S	03070
5807-CL	4 x 3	329	03093
5807-LT	1 1/4	–	02870
5807-LT	1 1/2	304	02871
5807-LT	2	304	02872
5807-LT	3	304	02873
5807-LT	4	304	02874
5807-V	1 1/4	–	–
5807-V	1 1/2	331	03084
5807-V	2	331	03085
5807-V	3	331	03086
5807-V	4	–	03087
5807-V	10	–	–
5807-V	12	–	–
5808	1 1/2	324	02899
5808	2	324	02900
5808	3	324	02901
5808	4	324	02983
5808	6	324	02988
5808-2	1 1/2	326	02984
5808-2	2	326	02985
5808-2	3	326	02986
5808-2	4	326	02987
5810	1 1/4	–	–
5810	1 1/2	600	02822
5810	2	600	02823
5810	2 x 1 1/2 x 1 1/2	601	02831
5810	2 x 2 x 1 1/2	601	02826
5810	3	600	02824
5810	3 x 3 x 1 1/2	601	02827
5810	3 x 3 x 2	601	02828
5810	4	600	02825
5810	4 x 4 x 1 1/2	601	02833
5810	4 x 4 x 2	601	02829
5810	4 x 4 x 3	601	02830
5810	6	600	03135
5810	6 x 6 x 3	–	03138
5810	6 x 6 x 4	601	03137
5810-2	1 1/2	–	03367
5810-2	2	602	03368
5810-2	3	602	03369
5810-2	3 x 3 x 1 1/2	–	03372
5810-2	3 x 3 x 2	603	03373
5810-2	4	–	03370
5810-2	4 x 4 x 3	603	03375
5811	1 1/4	–	02751
5811	1 1/2	400	02752
5811	1 1/2 x 1 1/4 x 1 1/4	–	–
5811	1 1/2 x 1 1/4 x 1 1/2	–	–
5811	1 1/2 x 1 1/2 x 1 1/4	–	–
5811	2	400	02753
5811	2 x 1 1/2 x 1 1/2	401	02761
5811	2 x 1 1/2 x 2	401	02760
5811	2 x 2 x 1 1/2	401	02758
5811	3	400	02754
5811	3 x 3 x 1 1/2	401	02764
5811	3 x 3 x 2	401	02763
5811	4	400	02755
5811	4 x 4 x 1 1/2	–	–
5811	4 x 4 x 2	401	02765
5811	4 x 4 x 3	401	02766
5811	6	400	02756
5811	6 x 6 x 4	401	02768
5811-14-V	1 1/2	445	03413
5811-14-V	2	445	03414
5811-14-V	3	445	03415
5811-14-V	4	445	03416
5811-2	1 1/2	403	03112
5811-2	2	403	03113
5811-2	2 x 1 1/2 x 1 1/2	404	03115
5811-2	2 x 1 1/2 x 2	404	03116
5811-2	2 x 2 x 1 1/2	404	03117
5811-2	3	403	03114
5811-2	3 x 3 x 1 1/2	404	03118
5811-2	3 x 3 x 2	404	03119
5811-2	4	403	03120
5811-C	3	448	02237

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ABS-DWV Figure Number Comparison

NIBCO FIG. NO.	SIZE	CHARLOTTE FIG. NO.	MUELLER FIG.
5811-C	4	448	02238
5811-V	1 1/2	441	03403
5811-V	2	441	03404
5811-V	3	–	03405
5811-V	3 x 3 x 1 1/2	–	–
5811-V	3 x 3 x 2	–	–
5811-V	4	–	03406
5811-V	10	–	–
5811-V	12	–	–
5812-LR	1 1/2	501	02853
5812-LR	2	501	02858
5812-LR	2 x 1 1/2 x 1 1/2	502	02835
5812-LR	2 x 1 1/2 x 2	–	02836
5812-LR	2 x 2 x 1 1/2	502	02865
5812-LR	3	501	02852
5812-LR	3 x 3 x 1 1/2	502	02837
5812-LR	3 x 3 x 2	502	02857
5812-LR	4	501	02860
5812-LR	4 x 4 x 2	502	02863
5812-LR	4 x 4 x 3	502	02864
5814	1 1/2	444-X	02997
5814	2	444-X	02998
5814	3	444-X	02999
5814	4	444-X	03000
5816	1 1/2	105-X	03001
5816	2	105-X	03002
5816	3	105-X	03003
5816	4	105-X	03004
5816	6	–	03005
5817	1 1/4	–	–
5817	1 1/2	116	02977
5817	2	116	02978
5817	3	116	02979
5817	4	116	02980
5817	6	–	03057
5817-P	1 1/2	131	02411
5817-P	2	131	02412
5817-P	3	131	02413
5817-P	4	131	02414
5818	1 1/4	–	–
5818	1 1/2	106	02938
5818	2	106	02939
5818	2 1/2	106	02940
5818	3	106	02941
5818	3 1/2	106	02943
5818	4	106	02942
5818	6	106	03146
5826	1 1/2	–	03055
5826	2	–	03056
5827	1 1/2	114	02993

NIBCO FIG. NO.	SIZE	CHARLOTTE FIG. NO.	MUELLER FIG.
5827	2	–	02994
5827	3	–	02995
5829	3 x 3	–	–
5829	3 x 4	–	–
5829	3 x 6	–	–
5829	3 x 8	–	–
5829	3 x 10	–	–
5829	3 x 12	–	–
5829-2	3 x 3	–	–
5829-2	3 x 4	–	–
5829-2	3 x 6	–	–
5829-2	3 x 8	–	–
5829-2	3 x 10	–	–
5834	1 1/2	611	02838
5834	2	611	02839
5834	2 x 2 x 1 1/2 x 1 1/2	612	02847
5834	3	611	02840
5834	3 x 3 x 1 1/2 x 1 1/2	_	02843
5834	3 x 3 x 2 x 2	612	02844
5834	4	611	02841
5834	4 x 4 x 2 x 2	–	02845
5834	4 x 4 x 3 x 3	612	02846
5834	6 x 6 x 4 x 4	–	03142
5835	1 1/2	428	02812
5835	2	428	02813
5835	2 x 2 x 1 1/2 x 1 1/2	429	02817
5835	3	428	02814
5835	3 x 3 x 1 1/2 x 1 1/2	429	02818
5835	3 x 3 x 2 x 1 1/2	–	–
5835	3 x 3 x 2 x 2	429	02820
5835	4	428	02815
5835	4 x 4 x 2 x 2	429	02240
5835	4 x 4 x 3 x 3	429	02821
5835-9	3 x 3 x 3 x 3 x 1 1/2	–	–
5835-9	3 x 3 x 3 x 3 x 2	–	02772
5835-9	4 x 4 x 4 x 4 x 2	–	_
5835-9-9	3 x 3 x 3 x 3 x 2 x 2	–	02770
5835-9-9	4 x 4 x 4 x 4 x 2 x 2	–	–
5835-B	2	500	02246
5835-B	2 x 1 1/2 x 1 1/2 x 1 1/2	500	02247
5835-B	2 x 1 1/2 x 2 x 2	500	02248
5835-B	3	500	02249
5835-B	3 x 2 x 3 x 3	500	02250
5836	2 x 2 x 1 1/2 x 1 1/2	–	–
5836	3	–	–
5836	4	–	–
5837	1 1/2	327	03045
5837	2	327	03046
5837	2 x 1 1/2 x 1 1/2	327	03049
5837	3	327	03047

ABS-DWV Figure Number Comparison

NIBCO FIG. NO.	SIZE	CHARLOTTE FIG. NO.	MUELLER FIG.
5837	4	–	–
5848-A	4 x 3	820	02920
5851	4	800	02902
5851	4 x 3	800	–
5851-2	4 x 3	801	02919
5851-2-A	4	812	02229
5851-2-A	4 x 3	812	02228
5851-3	4 x 3	–	02270
5851-4	4 x 3	–	02260
5851-A	4	811	02226
5851-A	4 x 3	811	02227
5853	3 or 4	815	–
5853-KO	3 or 4	815-KO	02257
5853-NS	3 or 4	815	02255
5855	4	–	02253
5855	4 x 3	800-KO	02254
5860	1 1/2	319	02895
5860	2	319	02896
5860	3	319	02897
5860	4	319	02982
5860-2	1 1/2	320	03020
5860-2	2	320	03021
5860-2	3	320	03022
5860-2	4	–	–
5861	3 x 3 x 1 1/2	–	03028
5861	3 x 3 x 2	–	03027
5861-LH	3 x 3 x 1 1/2	–	03041
5861-LH	3 x 3 x 2	303	03042
5861-LH	4 x 4 x 2	–	03043
5861-2-LH	3 x 3 x 2	310	03026
5870	3 x 3 x 3 x 2 x 2	–	02811
5871	3 x 3 x 2 x 2	–	–
5871	3 x 3 x 3 x 1 1/2	–	02781
5871	3 x 3 x 3 x 2	416	02782
5871	4 x 4 x 4 x 2	–	–
5872	3 x 3 x 2 x 2	–	–
5872	3 x 3 x 3 x 1 1/2	–	02795
5872	3 x 3 x 3 x 2	417	02796
5872	4 x 4 x 4 x 2	–	–
5878	1 1/2	–	–
5878	2	–	–
5879	1 1/2	700	03466
5879	2	700	03467
5879	3	700	03468
5879	4	700	03469
5881	1 1/2	–	–
5884	1 1/2	707-X	02223
5884	2	707-X	02224
5885	1 1/2	706-X	02214
5885	2	706-X	02222
5885	3	706-X	02230
5885	4	706-X	02231
5891	1 1/2 x 3 x 6	720-X	03100
5892	1 1/4	–	–
5892	1 1/2	711W	02221
5892	1 1/2 x 1 1/4	–	02219
5892-B	1 1/2	–	–
5892-C	1 1/2	–	–
5892-C	1 1/2 x 1 1/4	–	–
5893	1 1/2 or 1 1/2 x 1 1/4	711-P	02220
5895	1 1/4	–	02212
5895	1 1/2	708-P	02215
5895	2	708-P	02216
5895-3	1 1/2	–	–

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PVC-DWV Figure Number Comparison

NIBCO FIG. NO.	SIZE	CHARLOTTE FIG. NO.	MUELLER FIG.
4800	2	122	05944
4800	3	122	–
4800	4	122	05946
4800-SD	3 x 4	117	05962
4801	1 1/4	100	05932
4801	1 1/2	100	05933
4801	1 1/2 x 1 1/4	–	–
4801	2	100	05934
4801	2 x 1 1/2	102	05948
4801	3	100	05935
4801	3 x 1 1/2	102	05949
4801	3 x 2	102	05950
4801	4	100	05936
4801	4 x 2	102	05951
4801	4 x 3	102	05952
4801	6	100	06143
4801	8	100	06145
4801	10	100	06150
4801	12	100	06151
4801-2-7	1 1/4	–	–
4801-2-7	1 1/2	103-P	–
4801-2-7	1 1/2 x 1 1/4	103-P	–
4801-2-7	2	103-P	–
4801-2-7C	1 1/2	103-X	06392
4801-2-7C	1 1/2 x 1 1/4	103-X	06378
4801-2-F	1 1/2 x 1 1/4	107	05904
4801-2-F	2 x 1 1/2	107	05906
4801-2-F	3 x 1 1/2	107	05907
4801-2-F	3 x 2	107	05908
4801-2-F	4 x 2	107	05910
4801-2-F	4 x 3	107	05909
4801-2-F	6 x 3	–	–
4801-2-F	6 x 4	107	06144
4801-2-F	8 x 4	107	–
4801-2-F	8 x 6	107	06149
4801-7	1 1/4	–	–
4801-7	1 1/2	104-P	06377
4801-7	1 1/2 x 1 1/4	104-P	06395
4801-7	2	–	06382
4801-7B	1 1/2 x 1 1/4	–	–
4801-7C	1 1/2	104-X	06376
4801-7C	1 1/2 x 1 1/4	104-X	06394
4801-RP	1 1/2	130	05965
4801-RP	2	130	05966
4801-RP	3	130	05967
4801-RP	4	130	05968
4801-RP	6	130	05969
4803	1 1/4	101	05868
4803	1 1/2	101	05866
4803	2	101	05867

NIBCO FIG. NO.	SIZE	CHARLOTTE FIG. NO.	MUELLER FIG.
4803	3	101	05869
4803	4	101	06396
4803	6	101	06147
4803-2	1 1/4	105	–
4803-2	1 1/2	105	05922
4803-2	2	105	05923
4803-2	3	105	05924
4803-2	4	105	05925
4803-2	6	105	06148
4803-2-F	1 1/2 x 1 1/4	–	–
4803-2-F	2 x 1 1/2	108	05913
4803-2-F	3 x 1 1/2	–	–
4803-2-F	3 x 2	–	–
4803-2-F	4 x 3	–	–
4804	1 1/4	109	05931
4804	1 1/2	109	05927
4804	1 1/2 x 1 1/4	109	05926
4804	2	109	05928
4804	3	109	05929
4804	4	109	05930
4804-2	1 1/4	–	–
4804-2	1 1/2	111	06386
4804-2	1 1/2 x 1 1/4	111	06387
4804-2	2	111	06385
4804-2	3	111	06366
4804-2	4	–	–
4805	1 1/2 x 2	123-R	05961
4805	2	123	05957
4805	2 x 3	–	–
4805	3	123	05958
4805	3 x 4	123-R	05960
4805	4	123	05959
4805-N	1 1/2 x 2	119	–
4805-N	2	119	05954
4805-N	3	119	05955
4805-N	3 x 4	119	05953
4805-N	4	119	05956
4806	1 1/4	321	05884
4806	1 1/2	321	05885
4806	2	321	05886
4806	3	321	05887
4806	4	321	05888
4806	6	321	06132
4806	8	321	06134
4806	8 x 4	–	–
4806	8 x 6	–	–
4806	10	321	–
4806	12	321	–
4806-2	1 1/4	323	06016
4806-2	1 1/2	323	05890

PVC-DWV Figure Number Comparison

NIBCO FIG. NO.	SIZE	CHARLOTTE FIG. NO.	MUELLER FIG.
4806-2	2	323	05891
4806-2	3	323	05892
4806-2	4	323	05893
4806-2	6	323	06133
4806-2	8	323	06136
4806-2	8 x 4	–	–
4806-2	8 x 6	–	–
4807	1 1/4	300	05875
4807	1 1/2	300	05876
4807	2	300	05877
4807	3	300	05878
4807	4	300	05879
4807	6	300	06130
4807	8	300	06131
4807-2	1 1/4	302	05894
4807-2	1 1/2	302	05880
4807-2	2	302	05881
4807-2	3	302	05882
4807-2	4	302	05883
4807-2	6	302	05889
4807-2-CL	4 x 3	330	06107
4807-2-CL	4 x 3 w/Cap	330-X	06108
4807-2-LT	1 1/2	309	06060
4807-2-LT	2	309	06061
4807-2-LT	3	309	06063
4807-2-LT	4	309	06064
4807-2-V	1 1/2	333	06088
4807-2-V	2	333	06089
4807-2-V	3	333	06090
4807-3	3	–	–
4807-9	3 x 3 x 1 1/2	300-S	06069
4807-9	3 x 3 x 2	300-S	06070
4807-CL	4 x 3	329	06093
4807-LT	1 1/2	304	05871
4807-LT	2	304	05872
4807-LT	3	304	05873
4807-LT	4	304	05874
4807-V	1 1/2	331	06084
4807-V	2	331	06085
4807-V	3	331	06086
4807-V	4	–	–
4807-V	10	–	–
4807-V	12	–	–
4808	1 1/2	324	05899
4808	2	324	05900
4808	3	324	05901
4808	4	324	05983
4808	6	324	05988
4808-2	1 1/2	326	05984
4808-2	2	326	05985
4808-2	3	326	05986
4808-2	4	326	05987
4810	1 1/4	600	05816
4810	1 1/2	600	05822
4810	2	600	05823
4810	2 x 1 1/2 x 1 1/2	601	05831
4810	2 x 2 x 1 1/2	601	05826
4810	3	600	05824
4810	3 x 3 x 1 1/2	601	05827
4810	3 x 3 x 2	601	05828
4810	4	600	05825
4810	4 x 4 x 1 1/2	601	05833
4810	4 x 4 x 2	601	05829
4810	4 x 4 x 3	601	05830
4810	6	600	06135
4810	6 x 6 x 3	601	06138
4810	6 x 6 x 4	601	06137
4810	8	600	06139
4810	8 x 8 x 4	601	06140
4810	8 x 8 x 6	601	05834
4810-2	2	602	06368
4810-2	3	602	06369
4810-2	3 x 3 x 1 1/2	603	06372
4810-2	3 x 3 x 2	603	06373
4810-2	4	602	06370
4810-2	4 x 4 x 2	603	06374
4810-2	4 x 4 x 3	603	06375
4811	1 1/4	400	05751
4811	1 1/2	400	05752
4811	2	400	05753
4811	2 x 1 1/2 x 1 1/2	401	05761
4811	2 x 1 1/2 x 2	401	05760
4811	2 x 2 x 1 1/2	401	05758
4811	3	400	05754
4811	3 x 3 x 1 1/2	401	05764
4811	3 x 3 x 2	401	05763
4811	4	400	05755
4811	4 x 4 x 1 1/2	401	05767
4811	4 x 4 x 2	401	05765
4811	4 x 4 x 3	401	05766
4811	6	400	05756
4811	6 x 6 x 4	401	05768
4811	8	400	05775
4811-14-V	1 1/2	445	06413
4811-14-V	2	445	06414
4811-14-V	3	445	06415
4811-14-V	4	445	06416
4811-2	1 1/2	403	06112
4811-2	2	403	06113
4811-2	2 x 1 1/2 x 1 1/2	–	06115

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PVC-DWV Figure Number Comparison

NIBCO FIG. NO.	SIZE	CHARLOTTE FIG. NO.	MUELLER FIG.
4811-2	2 x 1 1/2 x 2	–	06116
4811-2	2 x 2 x 1 1/2	404	06117
4811-2	3	403	06114
4811-2	3 x 3 x 1 1/2	404	06118
4811-2	3 x 3 x 2	404	06119
4811-2	4	403	06120
4811-2	4 x 4 x 2	404	06121
4811-C	3	448	05237
4811-C	4	448	05238
4811-V	1 1/2	441	06403
4811-V	2	441	06404
4811-V	3	441	06405
4811-V	4	441	06406
4811-V	10	–	–
4811-V	12	–	–
4812-LR	1 1/2	501	05853
4812-LR	2	501	05858
4812-LR	2 x 1 1/2 x 1 1/2	502	05835
4812-LR	2 x 2 x 1 1/2	502	05865
4812-LR	3	501	05852
4812-LR	3 x 3 x 1 1/2	502	05837
4812-LR	3 x 3 x 2	502	05857
4812-LR	4	501	05860
4812-LR	4 x 4 x 2	502	05863
4812-LR	4 x 4 x 3	502	05864
4814	1 1/2	444-X	05997
4814	2	444-X	05998
4814	3	444-X	05999
4814	4	444-X	06000
4816	1 1/2	105-X	06001
4816	2	105-X	06002
4816	3	105-X	06003
4816	4	105-X	06004
4816	6	105-X	06005
4817	1 1/2	116	05977
4817	2	116	05978
4817	3	116	05979
4817	4	116	05980
4817	6	116	06057
4817	8	116	06058
4818	1 1/4	–	05937
4818	1 1/2	106	05938
4818	2	106	05939
4818	3	106	05941
4818	4	106	05942
4818	6	106	06146
4834	1 1/2	611	05838
4834	2	611	05839
4834	2 x 2 x 1 1/2 x 1 1/2	612	05847
4834	3	611	05840
4834	3 x 3 x 1 1/2 x 1 1/2	612	05843
4834	3 x 3 x 2 x 2	612	05844
4834	4	611	05841
4834	4 x 4 x 2 x 2	612	05845
4834	4 x 4 x 3 x 3	612	05846
4834	6	611	05842
4834	6 x 6 x 4 x 4	612	06142
4835	1 1/2	428	05812
4835	2	428	05813
4835	2 x 2 x 1 1/2 x 1 1/2	429	05817
4835	3	428	05814
4835	3 x 3 x 1 1/2 x 1 1/2	429	05818
4835	3 x 3 x 2 x 1 1/2	–	–
4835	3 x 3 x 2 x 2	429	05820
4835	4	428	05815
4835	4 x 4 x 2 x 2	429	05240
4835	4 x 4 x 3 x 3	429	05821
4835-9	3 x 3 x 3 x 3 x 1 1/2	–	–
4835-9	3 x 3 x 3 x 3 x 2	438	05772
4835-9	4 x 4 x 4 x 4 x 2	438	05774
4835-9-9	3 x 3 x 3 x 3 x 2 x 2	439	05770
4835-9-9	4 x 4 x 4 x 4 x 2 x 2	439	–
4835-B	2	500	05246
4835-B	2 x 1 1/2 x 1 1/2 x 1 1/2	500	05247
4835-B	2 x 1 1/2 x 2 x 2	–	–
4835-B	3	500	05249
4835-B	3 x 2 x 3 x 3	–	05250
4836	2	–	06031
4836	2 x 2 x 1 1/2 x 1 1/2	507	06034
4836	3	–	06032
4836	3 x 3 x 2 x 2	507	06035
4836	4	507	06033
4836	4 x 4 x 2 x 2	507	06036
4836	4 x 4 x 3 x 3	507	06037
4837	1 1/2	327	06045
4837	2	327	06046
4837	2 x 1 1/2 x 1 1/2	327	06049
4837	3	327	06047
4837	4	–	06048
4848-A	4 x 3	820	05920
4851	4	800	05902
4851	4 x 3	800	05903
4851-2	4 x 3	801	05919
4851-2-A	4	812	05229
4851-2-A	4 x 3	812	05228
4851-3	4 x 3	–	–
4851-4	4 x 3	–	–
4851-A	4	811	05226
4851-A	4 x 3	811	05227
4853	3 or 4	815	05255

PVC-DWV Figure Number Comparison

NIBCO FIG. NO.	SIZE	CHARLOTTE FIG. NO.	MUELLER FIG.
4853-KO	3 or 4	815-KO	05257
4853-NS	3 or 4	–	–
4855	4	800-KO	05253
4855	4 x 3	800-KO	05254
4860	1 1/2	319	05895
4860	2	319	05896
4860	3	319	05897
4860	4	319	05982
4860-2	1 1/2	320	06020
4860-2	2	320	06021
4860-2	3	320	06022
4860-2	4	320	06023
4861	3 x 3 x 1 1/2	–	–
4861	3 x 3 x 2	305	06027
4861-LH	3 x 3 x 1 1/2	303	06041
4861-LH	3 x 3 x 2	303	06042
4861-LH	4 x 4 x 2	303	06043
4861-2-LH	3 x 3 x 2	310	06026
4870	3 x 3 x 3 x 1 1/2 x 1 1/2	–	05810
4870	3 x 3 x 3 x 2 x 2	418	05811
4870	4 x 4 x 4 x 2 x 2	418	05808
4871	3 x 3 x 2 x 2	–	–
4871	3 x 3 x 3 x 1 1/2	416	05781
4871	3 x 3 x 3 x 2	416	05782
4871	4 x 4 x 4 x 2	416	05784
4872	3 x 3 x 2 x 2	–	–
4872	3 x 3 x 3 x 1 1/2	417	05795
4872	3 x 3 x 3 x 2	417	05796
4872	4 x 4 x 4 x 2	417	05797
4878	1 1/2	–	–
4878	2	–	–
4879	1 1/2	700	06466
4879	2	700	06467
4879	3	700	06468
4879	4	700	06469
4881	1 1/2	–	–
4884	1 1/2	707-X	05223
4884	2	707-X	05224
4885	1 1/2	706-X	05214
4885	2	706-X	05222
4885	3	706-X	05230
4885	4	706-X	05231
4885-WB	2	–	–
4891	1 1/2 x 3 x 6	720-X	06100
4892	1 1/4	–	–
4892	1 1/2	–	–
4892	1 1/2 x 1 1/4	–	–
4892-C	1 1/2	711-X	–
4892-C	1 1/2 x 1 1/4	–	–

NIBCO FIG. NO.	SIZE	CHARLOTTE FIG. NO.	MUELLER FIG.
4893	1 1/2 or 1 1/2 x 1 1/4	711-P	05220
4895	1 1/4	708-P	–
4895	1 1/2	708-P	05215
4895	2	708-P	05216
4895-3	1 1/2	–	–

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NIBCO® Plastic Fittings Limited Warranty

5 years

NIBCO INC. LIMITED WARRANTY

Applicable to NIBCO Plastic Fittings

NIBCO INC. warrants each NIBCO plastic fitting (together, the "NIBCO Products") to be free from defects in materials and workmanship under normal use, service, and maintenance in accordance with the product specifications (including, but not limited to installation recommendations) for a period of five (5) years from the Warranty Commencement Date. The Warranty Commencement Date shall be the date upon which a NIBCO Product is purchased.

NIBCO will repair or replace – at its option and at no charge –NIBCO Products that have been determined by NIBCO, or an authorized representative or agent thereof, to have failed solely because of a defect in materials or workmanship under normal use, service, and maintenance during the warranty period. Replacements shall be shipped free of charge to the owner.

This limited warranty applies to all NIBCO Products installed, tested, applied, and used in accordance with NIBCO's approved and published recommendations and instructions.

This warranty does not cover any failure or damage for or caused by:

1. any product, parts, or systems which are not manufactured or sold by NIBCO;
2. any NIBCO Product which is used for purposes other than a purpose authorized by NIBCO;
3. any NIBCO Product not installed, tested, applied, used, or maintained in accordance with NIBCO's recommended installation guidelines and instructions;
4. any NIBCO Product not installed or used in accordance with applicable codes;
5. any damage caused by, contributed in whole or in part by, or resulting from, any of the following:
    a. abuse, misuse, mishandling, alteration, tampering, neglect, or accidental damage such as, without limitation, vandalism;
    b. natural disasters, such as, without limitation, flooding, windstorm, and lightning;
    c. attachments or modifications not authorized by NIBCO;
    d. external, physical or chemical qualities, or an unsuitable or hostile environment;
    e. any defects other than those in material or workmanship; or
    f. any other cause beyond the control of NIBCO.

NIBCO DISCLAIMS ANY AND ALL LIABILITY FOR ANY OTHER DIRECT OR INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO, ECONOMIC LOSS, LOSS OF BUSINESS, LOST PROFITS, PUNITIVE DAMAGES, MOLD INTRUSION, WATER DAMAGE, ETC.

Some states do not allow the exclusion or limitation of damages, so the above limitation or exclusion may not apply to you.

THIS WARRANTY IS THE ONLY WARRANTY FOR THE NIBCO PRODUCTS PROVIDED BY NIBCO, AND IS AND SHALL BE IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, AN IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND FOR ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF A MANUFACTURER. NO EMPLOYEE OF NIBCO, OR ANY OTHER DISTRIBUTOR, AGENT, OR OTHER PERSON OR BUSINESS, IS AUTHORIZED TO MAKE ANY OTHER WARRANTY ON BEHALF OF NIBCO.

Some states do not allow limitations on implied warranties, so the above limitation may not apply to you.

In the event any defect occurs which is believed to be covered by this warranty, NIBCO Technical Services must immediately be contacted by calling 888.446.4226 or emailing CS-TechnicalServices@nibco.com. NIBCO Technical Services after being contacted will make further arrangements for the product's return to NIBCO at the customer's expense for review and evaluation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

How to Order

State quantity, figure number and size for each valve or fitting you wish to order. See individual catalog pages for specific or special product designations.

HOW MANY TO ORDER

NIBCO® valves and fittings are decimal packed for your convenience in handling, shipping and stock-keeping. Number in master carton varies with item.

POLICY ON RETURNS TO FACTORY

No NIBCO valves and fittings are to be returned without prior written agreement. Transportation must be prepaid. A 20% charge will be made to cover cost of rehandling and reinspection.

TECHNICAL ASSISTANCE

Engineers, contractors, wholesalers or manufacturers may obtain special or technical assistance from any factory representative of NIBCO. Write, fax or phone.

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NIBCO®

Global Locations

MANUFACTURING PLANTS

Metal Fittings & Valves
Blytheville, Arkansas
McAllen, Texas
Nacogdoches, Texas
Stuarts Draft, Virginia
Worcester, Massachusetts

Plastic Pipe, Valves, & Fittings
Goshen, Indiana
Greensboro, Georgia

International
Lodz, Poland
Reynosa, Mexico

INTERNATIONAL OFFICES

World Headquarters
Elkhart, Indiana

European Office
Lodz, Poland

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