



PARIC CORPORATION
77 Westport Plaza Suite 250
St. Louis, MO 63146
TEL: 636-561-9500
FAX: 636-561-9501

REQUEST FOR INFORMATION	DATE: April 11, 2016	NO.: RFI-031
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To: Cannon Design

Attn: Kelvin Patel

From: Paric Corporation

Requested By: Devin Gates

Project Name: Webster University Interdisciplinary Science Building Project No.: 15051

Subject: Confirming mechanical clarifications from interviews

Response Required By: April 18, 2016

Drawing / Spec Reference:

Information Requested:

1. Please confirm Galvanized exhaust duct mains and stainless steel runouts to fume hoods is acceptable per Mechanical interviews on 4/6/16. The exhaust main gathers both general room and fume hood exhaust and is diluted in the main. This approach has been utilized on numerous lab projects that we have been a part of including CORTEX One, Saint Louis University Doisy Research, Washington University McKinley (SMRB), BJC/WUSM Institute of Health and Solae Global Headquarters.
2. Please confirm ProPress Mechanical Couplings for copper piping systems are acceptable per Mechanical interviews on 4/6/16. These fittings were utilized on the EAB building and that submittal data is attached with this RFI.

Suggestion: Please confirm

Response:

Galvanized ductwork for exhaust mains and room exhaust is acceptable. ProPress couplings for copper piping is also acceptable. We will issue these changes in the next addenda.

ARCHITECT'S RESPONSE:

This information is provided as an interpretation of the Contract Documents for implementation. It is not an authorization for change to the Contract Sum or Contract Time. If this information results in a claim for a change to the Contract, the Contractor shall notify the [Construction Manager][Architect] of a change through the change process.

Answered By: Mark Schaefer

Date: 4/14/2016



1001 Boardwalk Springs Place Suite 220
O'Fallon MO 63368

TRANSMITTAL

No. 09001-0111

Paric Corporation

PROJECT: Webster Academic Building

DATE: 09/17/2010

TO: Mackey Mitchell Assoc. Inc
800 St. Louis - Union Station Suite 200
St. Louis MO 63103

Fax:
(314) 421-5206

RE: Piping - Mechanical Couplings

ATTN: Eric Neuner

JOB: 09001

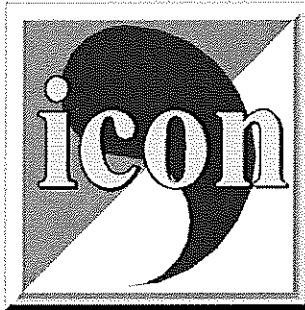
WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☒ Shop Drawings	☒ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	SENT VIA:	☐ Returned
☐ Specifications	☒ Attached	☐ Returned for Corrections
☐ Other:	☐ Separate Cover Via:	☒ Due Date: 10/01/2010

Item	Package	Code	Rev.	Copies	Date	Description	Status
Submittal		230600-02	1		09/17/2010	Piping - Mechanical Couplings	Submitted

NOTES:

CC:

Signed: _____
John Niehoff



Mechanical

Webster Academic Building

Piping - Mechanical Couplings

Submittal #: 230600-02

Submittal Description: Mechanical Couplings

☒	NO EXCEPTION TAKEN	☐	MAKE CORRECTIONS NOTED
☐	SUBMIT SPECIFIED ITEM	☐	REVISE AND RESUBMIT
☐	REJECTED	☐	
Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Equipment Supplier is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and satisfactory performance of his work.			
		Job No.:	3710
		Date:	9/10/10
		By:	JR

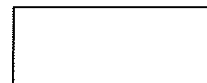
ProPress®



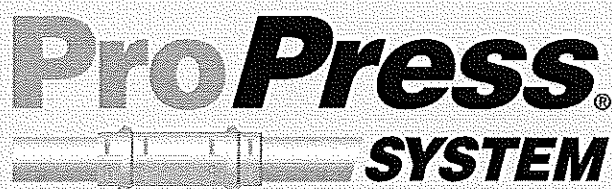
SYSTEM

w/Smart Connect® feature

viega



Submittal Package



- ☐ Potable Water
- ☐ Hydronic Heating
- ☐ Chilled Water
- ☐ Compressed Air
- ☐ Nitrogen N₂
- ☐ Argon
- ☐ Low Pressure Steam
- ☐ Fire Protection
- ☐ Vacuum
- ☐ Argomac - K (welding gas)
- ☐ Corgon
- ☐ Oxygen O₂ (non medical)

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w/Smart Connect® feature



System Data Sheet

System Description

ProPress®, ProPress XL™ and ProPress XLC are safe, reliable, and economical copper pipe installation systems that use modern cold press connection technology for a wide assortment of more than 500 fittings in dimensions ranging from 1/2" to 4".

Applications

Tubing: K, L, and M hard copper tubing from 1/2" to 4" and soft copper tubing in 1/2" to 1-1/4" diameters. All tubing must comply with the ASTM B88 standard. ProPress fittings are approved for installations in both above and below ground applications. Per code, local inspector approval must be obtained prior to installation below ground.

Operating Parameters:

Operating Pressure 200 PSI Max.
Test Pressure 600 PSI Max.
Low Pressure Steam 15 PSI Max.
Vacuum 29.2" Mercury Max. @ 68°F
Operating Temperature 0°F - 250°F

Approved Applications:

- Potable water
- Hydronic heating (w/ Glycol)
- Chilled water
- Compressed Air (200 PSI Max.)
- Non Medical Gases (140 PSI Max.)
- Fire Sprinkler (175 PSI Max.)
- Low Pressure Steam (15 PSI Max.)
- Vacuum (29.2" Mercury Max. @ 68°F)

System Benefits

- Fast and Easy to Use
- Flameless
- Permanent Connections
- Wide Capacity from 1/2" to 4"
- Large Selection of Fittings
- Consistent Professional Appearance
- Less Equipment Required
- Environmentally Friendly Connection System
- Versatility of Fittings and Tools for Variety of Applications

Fittings

Viega ProPress fittings are offered in 500+ configurations including: Elbows, Couplings, Reducers, Tees, Reducing Tees, Threaded Adapters, Unions, Caps, and Flanges. All Threaded 1/2" - 2" fittings are bronze.

Smart Connect™ (SC Feature)

In ProPress 1/2" - 4" dimensions, the Smart Connect Feature assures leakage of liquids and/or gases from inside the system past the sealing element of an unpressed connection. The function of this feature is to provide the installer quick and easy identification of connections which have not been pressed prior to putting the system into operation.

RIDGID Pressing Tools			
Model	330C	330B	100B
Volts	120v	14.4v Battery	14.4v Battery
Amps	5.2A	27.2A	24A
Weight (w/out jaw)	9 lbs.	10 lbs.	7.5 lbs.

Tools

RIDGID offers three pressing tools for connecting ProPress fittings.

- 330-C Corded Tool (1/2" to 4")
- 330-B Battery powered Tool (1/2" to 4")
- 100-B Battery powered Tool (1/2" to 1")
- 1/2" to 4" fittings are pressed in 4-7 sec.

History

ProPress has been used in Europe since the late 1980s and in the U.S. since the late 1990s for a variety of applications. Backed by two plumbing leaders with over 175 years of combined excellence.

Warranty

Viega ProPress products carry a 50-year warranty against defects in material and workmanship. The RIDGID Lifetime Warranty applies to tools, jaws and crimp rings from Ridge Tool Company.

Approvals and Certificates

NSF International

www.nsf.org/business/search_listings/index.asp#mname (enter "Viega")

IAPMO

<http://pld.iapmo.org/> (enter "Viega")

UL

<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/gfilenbr.html> (enter "ex6157")

ABS

(American Bureau of Shipping)
<http://www.eagle.org/typeapproval/contents.html> (enter "Viega")

CSA International

<http://www.csa-international.org/product/> (enter "Viega")

FM

INTERNATIONAL APPROVALS

- Deutscher Verein des Gas- und Wasserfaches V. (DVGW)
- Lloyd's Register (LLOYD'S)
- Det Norske Veritas (DNV)
- Registro Italiano Navale (RINA)
- Bureau Veritas (BV)
- KIWA

Compliant with

- ICC International Plumbing Code
- UPC Uniform Plumbing Code
- PHCC National standard plumbing code
- Florida Building Code, Volume II Plumbing Code
- NFPA 13, 13D, and 13R

Contact your local Viega or RIDGID representative for details on local approvals

For more information on RIDGID products contact:

Ridge Tool Company
400 Clark Street, Elyria, Ohio 44036
Demos, Literature: 800-769-7743
Technical inquiries: 800-519-3456
Availability: 888-743-4333
Web: www.ridgid.com

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ProPress® Warranty



VIEGA LLC LIMITED WARRANTY PROPRESS® FITTINGS AND VALVES

Subject to the conditions and limitations in this Limited Warranty, Viega LLC (VIEGA) warrants to wholesalers and licensed plumbing and mechanical contractors in the United States and Canada that its PROPRESS fittings, when properly installed in non industrial and non marine applications and under normal conditions of use, will be free of failure from manufacturing defect for a period of fifty (50) years from date of installation and that its PROPRESS valves, when properly installed in non industrial and non marine applications and under normal conditions of use, will be free of failure from manufacturing defect for a period of two (2) years from date of installation.

Under this Limited Warranty, you only have a right to a remedy if the failure or leak resulted from a manufacturing defect in the products covered by this warranty and the failure or leak occurred during the warranty period. You do not have a remedy under this warranty and the warranty does not apply if the failure or any resulting damage is caused by (1) components other than those manufactured or sold by Viega; (2) not designing, installing, inspecting, or testing the ProPress fittings or valves in accordance with Viega's installation instructions in effect at the time of the installation; applicable code requirements; and accepted industry practice; (3) improper handling and protection of the product prior to and during installation, inadequate freeze protection, exposure to water pressures or temperatures or in applications outside acceptable operating conditions; (4) acts of nature such as, but not limited to, earthquakes, fire, flood, or lightning, or (5) external environmental causes, such as water quality variations, aggressive water, or other external chemical or physical conditions.

In the event of a leak or other failure of the parts covered by this warranty, it is the responsibility of the property owner to obtain and pay for repairs. Only if the warranty applies will Viega be responsible for the remedy under this warranty. The part or parts which you claim failed should be kept and Viega contacted by writing to the address below or telephoning 1-877-843-4262 within thirty (30) days after the leak or other failure and identifying yourself as having a warranty claim. You should be prepared to ship, at your expense, the product which you claim failed due to a manufacturing defect and document the date of installation. Within a reasonable time after receiving the product, Viega will investigate the reasons for the failure, which includes the right to inspect the product at Viega. Viega will notify you in writing of the results of its review.

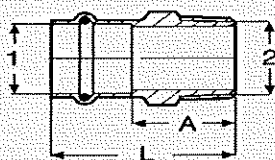
In the event that Viega determines that the failure or leak was the result of a manufacturing defect in the part covered by this warranty and that this warranty applies, the EXCLUSIVE AND ONLY REMEDY under this warranty shall be the reimbursement for repair and/or replacement of the part. VIEGA SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR OTHER DAMAGE (FOR EXAMPLE, WATER OR PROPERTY OR MOLD REMEDIATION) UNDER ANY LEGAL THEORY AND WHETHER ASSERTED BY DIRECT ACTION, FOR CONTRIBUTION OR INDEMNITY OR OTHERWISE.

THE ABOVE WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. If a limited warranty shall be found to apply, such warranty is limited to four years. Other than this Limited Warranty, Viega does not authorize any person or firm to create for it any other obligation or liability in connection with its products.

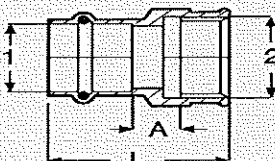
This Limited Warranty gives you specific legal rights and you also may have other rights which may vary from state to state. This warranty shall be interpreted and applied under the law of the state in which the product is installed and is intended as a Commercial Warranty.

ProPress Warranty 0408

Dimensional Documentation

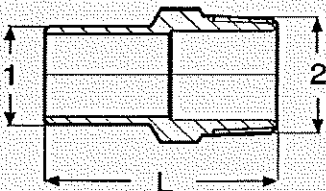


Adapter C x M				
Stock Code	Size	Material	A (in)	L (in)
	1 2			
77812	1/2"x 3/8" NPT	Bronze	0.96	1.713
77817	1/2"x 1/2" NPT	Bronze	1.12	1.870
77822	1/2"x 3/4" NPT	Bronze	1.22	1.969
77827	3/4"x 1/2" NPT	Bronze	1.18	2.087
77832	3/4"x 3/4" NPT	Bronze	1.18	2.087
22348	3/4"x 1" NPT	Bronze	1.42	2.323
77837	1"x 3/4" NPT	Bronze	1.32	2.224
77842	1"x 1" NPT	Bronze	1.46	2.362
77847	1"x 1-1/4" NPT	Bronze	1.73	2.638
77852	1-1/4"x 1" NPT	Bronze	1.42	2.441
77857	1-1/4"x 1-1/4" NPT	Bronze	1.54	2.559
77862	1-1/4"x 1-1/2" NPT	Bronze	1.65	2.677
77867	1-1/2"x 1-1/4" NPT	Bronze	1.54	2.953
77872	1-1/2"x 1-1/2" NPT	Bronze	1.54	2.953
22343	1-1/2" x 2" NPT	Bronze	1.83	3.248
22338	2" x 1-1/2" NPT	Bronze	1.67	3.248
77877	2" x 2" NPT	Bronze	1.67	3.248

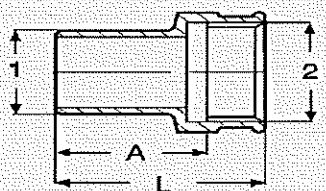


Adapter C x F				
Stock Code	Size	Material	A (in)	L (in)
	1 2			
77887	1/2"x 3/8" NPT	Bronze	0.224	1.378
77892	1/2"x 1/2" NPT	Bronze	0.291	1.575
77897	1/2"x 3/4" NPT	Bronze	0.394	1.693
77902	3/4"x 1/2" NPT	Bronze	0.331	1.772
77907	3/4"x 3/4" NPT	Bronze	0.394	1.850
14548	1"x 1/2" NPT	Bronze	0.252	1.693
77912	1"x 3/4" NPT	Bronze	0.394	1.850
77917	1"x 1" NPT	Bronze	0.480	2.047
77922	1"x 1-1/4" NPT	Bronze	0.539	2.126
22208	1-1/4"x 1/2" NPT	Bronze	0.374	1.929
77927	1-1/4"x 1" NPT	Bronze	0.205	1.890
77932	1-1/4"x 1-1/4" NPT	Bronze	0.382	2.087
77937	1-1/4"x 1-1/2" NPT	Bronze	0.461	2.165
77942	1-1/2"x 1-1/4" NPT	Bronze	0.382	2.480
77947	1-1/2" x 1-1/2" NPT	Bronze	0.382	2.480
77952	2" x 2" NPT	Bronze	0.445	2.717

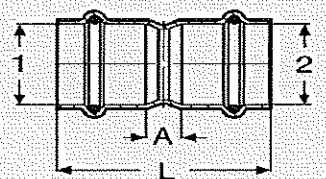
Dimensional Documentation



Adapter FTG x M			
Stock Code	Size	Material	L (in)
	1 2		
77957	1/2"x 3/8" NPT	Bronze	1.732
77962	1/2"x 1/2" NPT	Bronze	1.969
77967	1/2"x 3/4" NPT	Bronze	2.047
77972	3/4"x 1/2" NPT	Bronze	2.028
77977	3/4"x 3/4" NPT	Bronze	2.146
14553	1"x 3/4" NPT	Bronze	2.146
77982	1"x 1" NPT	Bronze	2.362
77987	1-1/4"x 1-1/4" NPT	Bronze	2.657
77992	1-1/2"x 1-1/2" NPT	Bronze	3.051
77997	2"x 2" NPT	Bronze	3.543



Adapter FTG x F				
Stock Code	Size	Material	A (in)	L (in)
	1 2			
78002	1/2"x 3/8" NPT	Bronze	1.031	1.437
78007	1/2"x 1/2" NPT	Bronze	1.118	1.654
78012	1/2"x 3/4" NPT	Bronze	1.181	1.732
78017	3/4"x 1/2" NPT	Bronze	1.217	1.752
78022	3/4"x 3/4" NPT	Bronze	1.256	1.811
22218	1"x 1/2" NPT	Bronze	1.433	1.969
22213	1-1/4"x 1/2" NPT	Bronze	1.630	2.165
78027	1"x 1" NPT	Bronze	1.307	1.969
78032	1-1/4"x 1-1/4" NPT	Bronze	1.484	2.165
78037	1-1/2"x 1-1/2" NPT	Bronze	1.878	2.559
78042	2"x 2" NPT	Bronze	2.335	3.031



Coupling C x C with Stop				
Stock Code	Size	Material	A (in)	L (in)
	1 2			
78047	1/2"	Copper	0.236	1.732
78052	3/4"	Copper	0.394	2.205
78057	1"	Copper	0.394	2.205
78062	1-1/4"	Copper	0.394	2.441
78067	1-1/2"	Copper	0.394	3.307
78072	2"	Copper	0.472	3.622

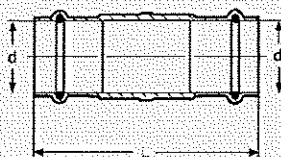


Coupling C x C No Stop			
Stock Code	Size	Material	L (in)
	1 2		
78172	1/2"	Copper	1.732
78177	3/4"	Copper	2.205
78182	1"	Copper	2.205
78187	1-1/4"	Copper	2.441
78192	1-1/2"	Copper	3.307
78197	2"	Copper	3.622

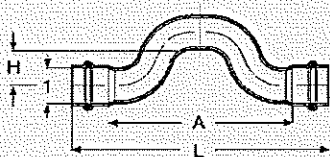
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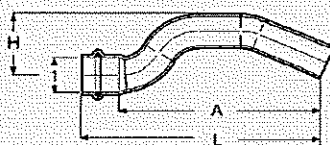
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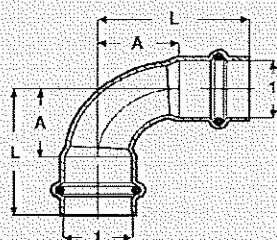
Coupling C x C Extended No Stop			
Stock Code	Size	Material	L (in)
	d		
78213	1/2"	Copper	2.9
78218	3/4"	Copper	3.3
78223	1"	Copper	3.7
78228	1-1/4"	Copper	4.1
78233	1-1/2"	Copper	4.7
78238	2"	Copper	5.2



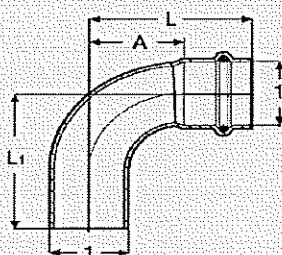
Cross-Over C x C					
Stock Code	Size	Material	A (in)	L (in)	H (in)
	1				
77742	1/2"	Copper	3.622	5.118	0.772
77747	3/4"	Copper	4.488	6.339	0.902



Cross-Over FTG x C Close Rough					
Stock Code	Size	Material	A (in)	L (in)	H (in)
	1				
78137	1/2"	Copper	3.835	4.583	1.098
78142	3/4"	Copper	4.638	5.543	1.539

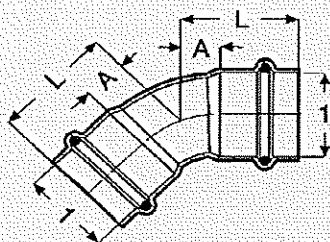


Elbow 90° C x C Close Rough				
Stock Code	Size	Material	A (in)	L (in)
	1			
77317	1/2"	Copper	0.748	1.496
77322	3/4"	Copper	1.039	1.945
77327	1"	Copper	1.323	2.228
77332	1-1/4"	Copper	1.654	2.677
77337	1-1/2"	Copper	1.984	3.402
77342	2"	Copper	2.551	4.126

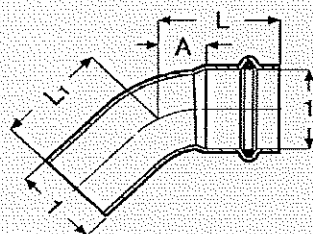


Elbow 90° FTG x C Close Rough					
Stock Code	Size	Material	A (in)	L (in)	L1 (in)
	1				
77347	1/2"	Copper	0.748	1.496	1.535
77352	3/4"	Copper	1.039	1.945	1.984
77357	1"	Copper	1.323	2.228	2.268
77362	1-1/4"	Copper	1.654	2.677	2.756
77367	1-1/2"	Copper	1.984	3.402	3.480
77372	2"	Copper	2.551	4.126	4.205

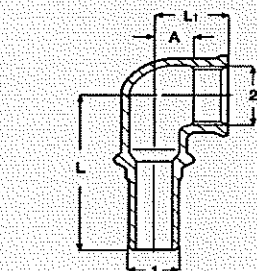
Dimensional Documentation



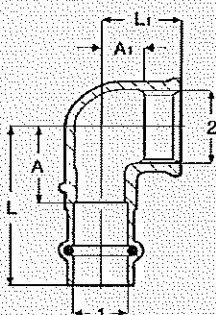
Elbow 45° C x C				
Stock Code	Size	Material	A (in)	L (in)
	1			
77607	1/2"	Copper	0.295	1.043
77612	3/4"	Copper	0.433	1.339
77617	1"	Copper	0.551	1.457
77622	1-1/4"	Copper	0.685	1.709
77627	1-1/2"	Copper	0.823	2.240
77632	2"	Copper	1.059	2.634



Elbow 90° FTG x C					
Stock Code	Size	Material	A (in)	L (in)	L1 (in)
	1				
77637	1/2"	Copper	0.311	1.059	1.098
77642	3/4"	Copper	0.433	1.339	1.374
77647	1"	Copper	0.551	1.457	1.492
77652	1-1/4"	Copper	0.685	1.709	1.787
77657	1-1/2"	Copper	0.823	2.240	2.319
77662	2"	Copper	1.059	2.634	2.709

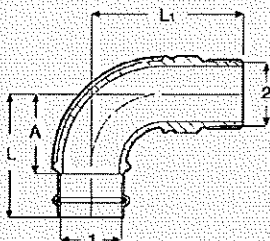


Elbow 90° FTG x F					
Stock Code	Size	Material	A (in)	L (in)	L1 (in)
	1 2				
77577	1/2" x 1/2" NPT	Bronze	0.331	2.008	0.866

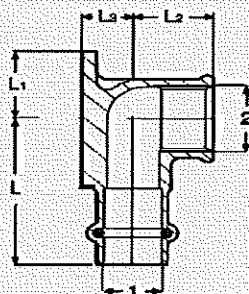


Elbow 90° C x F						
Stock Code	Size	Material	A (in)	A1 (in)	L (in)	L1 (in)
	1 2					
22193	1/2" x 3/8" NPT	Bronze	0.945	0.295	1.693	0.728
77532	1/2" x 1/2" NPT	Bronze	0.984	0.331	1.732	0.866
77537	1/2" x 3/4" NPT	Bronze	1.142	0.409	1.890	0.965
77542	3/4" x 3/4" NPT	Bronze	1.150	0.488	2.055	1.043
77547	3/4" x 1/2" NPT	Bronze	1.142	0.472	2.047	1.004
22203	1" x 1/2" NPT	Bronze	1.299	0.709	2.205	1.260
77552	1" x 1" NPT	Bronze	1.417	0.618	2.323	1.280
22198	1-1/4" x 1/2" NPT	Bronze	1.260	0.728	2.283	1.260
77557	1-1/4" x 1-1/4" NPT	Bronze	1.575	0.841	2.598	1.516
77562	1-1/2" x 1-1/2" NPT	Bronze	1.614	1.012	3.031	1.693
77567	2" x 2" NPT	Bronze	2.244	1.469	3.819	2.165

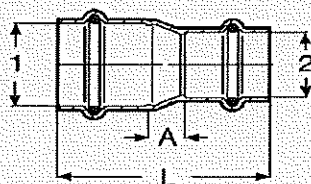
Dimensional Documentation



Elbow 90° C X M					
Stock Code	Size	Material	A (in)	L (in)	L1 (in)
	1 2				
77492	1/2"x 1/2" NPT	Bronze	0.945	1.693	1.890
77497	1/2"x 3/4" NPT	Bronze	0.945	1.693	2.047
77502	3/4"x 1/2" NPT	Bronze	0.984	1.890	1.870
77507	3/4"x 3/4" NPT	Bronze	1.102	2.008	2.323
77512	1"x 1" NPT	Bronze	1.382	2.287	2.835
77517	1-1/4"x 1-1/4" NPT	Bronze	1.870	2.894	3.465
77522	1-1/2"x 1-1/2" NPT	Bronze	2.205	3.622	3.839
77527	2"x 2" NPT	Bronze	2.756	4.331	4.724

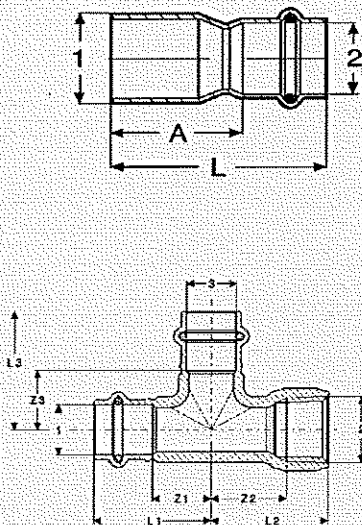


Elbow Drop 90° C X F with Wall Plate						
Stock Code	Size	Material	L(in)	L1(in)	L2(in)	L3(in)
	1 2					
77697	1/2" x 1/2" NPT	Bronze	1.732	0.835	0.866	0.512
77702	3/4" x 3/4" NPT	Bronze	2.047	1.181	1.122	0.835
22223	1/2" x 3/8" NPT	Bronze	1.77	0.83	0.51	0.73
72431	1" x 1" NPT	Bronze	2.36	0.93	0.87	1.26



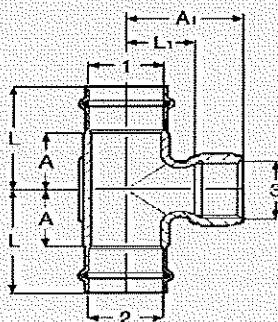
Reducer C x C				
Stock Code	Size	Material	A (in)	L (in)
	1 2			
78147	3/4"x 1/2"	Copper	0.445	2.071
15603	1"x 1/2"	Copper	0.736	2.362
78152	1"x 3/4"	Copper	0.504	2.287
15593	1-1/4"x 3/4"	Copper	0.728	2.638
78157	1-1/4"x 1"	Copper	0.614	2.524
18473	1-1/2"x 3/4"	Copper	0.994	3.327
15588	1-1/2"x 1"	Copper	0.768	3.071
78162	1-1/2"x 1-1/4"	Copper	0.528	2.959
18468	2"x 3/4"	Copper	1.524	4.016
15608	2"x 1"	Copper	1.319	3.780
22328	2"x 1-1/4"	Copper	0.827	3.425
78167	2"x 1-1/2"	Copper	0.846	3.827

Dimensional Documentation



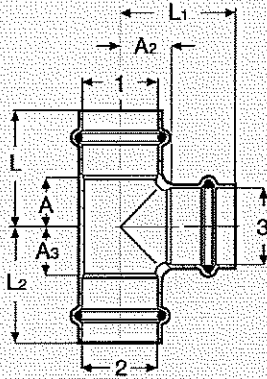
Reducer FTG x C				
Stock Code	Size	Material	A (in)	L (in)
	1 2			
78077	3/4"x 1/2"	Copper	1.417	2.165
78082	1"x 1/2"	Copper	1.693	2.441
78087	1"x 3/4"	Copper	1.417	2.323
22333	1-1/4"x 1/2"	Copper	2.185	2.933
78092	1-1/4"x 3/4"	Copper	1.850	2.756
78097	1-1/4"x 1"	Copper	1.575	2.480
15573	1-1/2"x 1/2"	Copper	2.008	2.756
14543	1-1/2"x 3/4"	Copper	2.559	3.465
78102	1-1/2"x 1"	Copper	2.283	3.189
78107	1-1/2"x 1-1/4"	Copper	2.047	3.071
15578	2"x 1/2"	Copper	2.913	3.661
15583	2"x 3/4"	Copper	2.874	3.780
78112	2"x 1"	Copper	3.031	3.937
78117	2"x 1-1/4"	Copper	2.795	3.819
78122	2"x 1-1/2"	Copper	2.638	4.055

Tee C x C x F								
Stock Code	Size	Material	Z1 (in)	Z2 (in)	Z3L (in)	L1 (in)	L2 (in)	L3 (in)
	1 2 3							
77583	1/2"x 1/2" NPT x 1/2"	Bronze	0.75	0.96	0.75	1.50	1.50	1.50
77593	3/4"x 1/2" NPT x 3/4"	Bronze	0.94	0.96	0.94	1.85	1.50	1.85
77587	3/4"x 3/4" NPT x 3/4"	Bronze	1.94	1.14	0.94	1.85	1.69	1.85
77598	1"x 3/4" NPT x 1"	Bronze	1.14	1.08	1.14	2.05	1.77	2.05
77603	1-1/4"x 3/4" NPT x 1-1/4"	Bronze	1.26	1.20	1.26	2.28	1.89	2.28
77608	1-1/2"x 3/4" NPT x 1-1/2"	Bronze	1.34	1.36	1.34	2.76	2.05	2.76
77613	2"x 3/4" x 2"	Bronze	1.69	1.56	1.69	3.27	2.24	3.27



Tee C x C x F							
Stock Code	Size	Material	A (in)	A1 (in)	L (in)	L1 (in)	
	1 2 3						
77582	1/2"x 1/2" x 1/2" NPT	Bronze	0.945	1.339	1.693	0.803	
14563	3/4"x 3/4" x 1/4" NPT	Bronze	0.768	1.378	1.673	0.928	
77587	3/4"x 3/4" x 1/2" NPT	Bronze	1.004	1.673	1.909	1.138	
77592	1"x 1" x 1/2" NPT	Bronze	1.004	1.772	1.909	1.236	
15623	1"x 1" x 3/4" NPT	Bronze	1.161	1.969	2.067	1.343	
77597	1-1/4"x 1-1/4" x 1/2" NPT	Bronze	0.886	1.929	1.909	1.323	
15618	1-1/4"x 1-1/4" x 3/4" NPT	Bronze	0.945	1.929	1.969	1.303	
78342	1-1/2"x 1-1/2" x 1/2" NPT	Bronze	0.748	1.969	2.165	1.433	
15613	1-1/2"x 1-1/2" x 3/4" NPT	Bronze	0.886	2.087	2.303	1.461	
77602	2"x 2" x 1/2" NPT	Bronze	0.984	2.165	2.559	1.630	
14558	2"x 2" x 3/4" NPT	Bronze	1.083	2.362	2.657	1.736	

Dimensional Documentation



Tee C x C x C								
Stock Code	Size	Material	A (in)	A2 (in)	A3 (in)	L (in)	L1 (in)	L2 (in)
	1 2 3							
77377	1/2"	Copper	0.738	0.498	0.738	1.496	1.443	1.496
77382	1-1/2" x 1-1/2" x 3/4"	Copper	0.906	0.591	0.906	1.654	1.496	1.654
15493	1-1/2" x 1-1/2" x 1"	Copper	1.102	0.551	1.102	1.850	1.457	1.850
77387	3/4"	Copper	0.837	0.591	0.837	1.752	1.496	1.752
77392	3/4" x 1/2" x 1/2"	Copper	0.687	0.630	0.984	1.594	1.378	1.732
77397	3/4" x 1/2" x 3/4"	Copper	0.844	0.591	1.142	1.752	1.496	1.890
77402	3/4" x 3/4" x 1/2"	Copper	0.687	0.630	0.687	1.594	1.378	1.594
77407	3/4" x 3/4" x 1"	Copper	0.965	0.630	0.965	1.870	1.535	1.870
77412	1"	Copper	0.955	0.787	0.955	1.870	1.693	1.870
22263	1" x 1/2" x 3/4"	Copper	0.846	0.748	1.240	1.752	1.654	1.988
94767	1" x 1/2" x 1"	Copper	0.978	0.787	1.516	1.870	1.693	2.264
77417	1" x 3/4" x 1/2"	Copper	0.703	0.787	0.886	1.594	1.535	1.791
77422	1" x 3/4" x 3/4"	Copper	0.837	0.748	1.043	1.752	1.654	1.949
77427	1" x 3/4" x 1"	Copper	0.709	0.787	1.161	1.870	1.693	2.067
77432	1" x 1" x 1/2"	Copper	0.689	0.787	0.689	1.594	1.535	1.594
77437	1" x 1" x 3/4"	Copper	0.844	0.748	0.844	1.752	1.654	1.752
15488	1" x 1" x 1 1/4"	Copper	1.161	0.837	1.161	2.067	1.870	2.067
77442	1 1/4"	Copper	1.024	0.866	1.024	2.047	1.890	2.047
22253	1"-1/4 x 1/2" x 1-1/4"	Copper	1.024	0.866	1.772	2.047	1.890	2.520
22243	1"-1/4 x 3/4" x 1/2"	Copper	0.650	0.925	1.122	1.673	1.673	2.028
22258	1"-1/4 x 3/4" x 3/4"	Copper	0.768	0.866	1.299	1.791	1.772	2.205
22268	1"-1/4 x 3/4" x 1"	Copper	0.886	0.906	1.398	1.929	1.811	2.303

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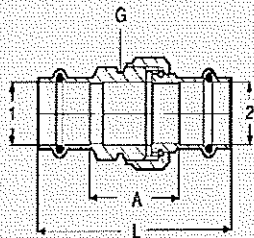
Dimensional Documentation

Tee C x C x C (continued from previous page)								
Stock Code	Size	Material	A (in)	A2 (in)	A3 (in)	L (in)	L1 (in)	L2 (in)
	1 2 3							
22248	1-1/4" x 3/4" x 1-1/2"	Copper	1.024	0.866	1.535	2.047	1.890	2.441
22238	1-1/4" x 1" x 1/2"	Copper	0.650	0.925	0.906	1.673	1.673	1.811
94762	1-1/4" x 1" x 3/4"	Copper	0.768	0.866	1.142	1.791	1.772	2.047
14568	1-1/4" x 1" x 1"	Copper	0.886	0.906	1.280	1.909	1.811	2.185
94757	1-1/4" x 1-1/4" x 1/2"	Copper	0.650	0.925	0.650	1.673	1.673	1.673
77452	1-1/4" x 1-1/4" x 3/4"	Copper	0.768	0.866	0.768	1.791	1.772	1.791
77447	1-1/4" x 1-1/4" x 1"	Copper	0.886	0.906	0.886	1.909	1.811	1.909
77457	1-1/2"	Copper	1.142	1.142	1.142	2.559	2.559	2.559
15478	1-1/2" x 3/4" x 3/4"	Copper	0.906	1.299	1.299	2.323	2.205	2.205
15473	1-1/2" x 1/2" x 1-1/2"	Copper	1.240	1.240	1.417	2.657	2.657	2.165
15468	1-1/2" x 1" x 3/4"	Copper	0.906	1.299	1.063	2.323	2.205	1.969
15458	1-1/2" x 1" x 1"	Copper	0.738	1.063	1.535	2.165	1.969	2.441
15463	1-1/2" x 1" x 1-1/2"	Copper	1.132	1.132	1.831	2.559	2.559	2.736
22233	1-1/2" x 1-1/4" x 3/4"	Copper	0.669	1.142	1.083	2.087	2.047	2.106
15453	1-1/2" x 1-1/4" x 1"	Copper	0.738	1.181	1.289	2.165	2.087	2.323
15483	1-1/2" x 1-1/4" x 1-1/4"	Copper	0.866	1.142	1.339	2.283	2.165	2.362
15448	1-1/2" x 1-1/2" x 1/2"	Copper	0.463	1.102	0.463	1.890	1.850	1.890
77462	1-1/2" x 1-1/2" x 3/4"	Copper	0.669	1.142	0.669	2.087	2.047	2.087
77467	1-1/2" x 1-1/2" x 1"	Copper	0.748	1.181	0.748	2.165	2.087	2.165
77472	1-1/2" x 1-1/2" x 1-1/4"	Copper	0.866	1.142	0.866	2.283	2.165	2.283
77477	2"	Copper	1.378	1.378	1.378	2.953	2.953	2.953
15533	2" x 1/2" x 2"	Copper	1.772	1.772	1.535	3.346	3.346	2.283
15523	2" x 1" x 1"	Copper	1.220	1.772	1.732	2.795	2.638	2.638
15528	2" x 1" x 2"	Copper	1.722	1.722	2.244	3.346	3.346	3.150
15518	2" x 1-1/4" x 1-1/4"	Copper	0.935	1.329	1.841	2.520	2.362	2.874
15498	2" x 1-1/2" x 1"	Copper	0.817	1.378	1.447	2.402	2.283	2.874
15513	2" x 1-1/2" x 3/4"	Copper	0.709	1.378	1.260	2.283	2.283	2.677
15508	2" x 1-1/2" x 1-1/4"	Copper	0.935	1.486	1.545	2.520	2.520	2.972
15503	2" x 1-1/2" x 1-1/2"	Copper	1.142	1.378	1.654	2.717	2.795	3.071
22228	2" x 1-1/2" x 2"	Copper	1.378	1.378	1.890	2.953	2.953	3.327
15538	2" x 2" x 1/2"	Copper	0.541	1.299	0.541	2.126	2.047	2.126
94777	2" x 2" x 3/4"	Copper	0.797	1.260	0.797	2.372	2.165	2.372
94772	2" x 2" x 1"	Copper	0.915	1.299	0.915	2.490	2.205	2.490
77487	2" x 2" x 1-1/4"	Copper	1.043	1.378	1.043	2.618	2.402	2.618
77482	2" x 2" x 1-1/2"	Copper	1.142	1.378	1.142	2.717	2.795	2.717

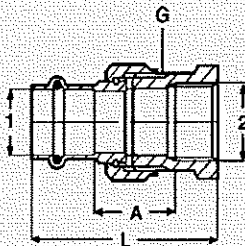
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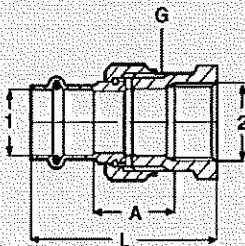
Dimensional Documentation



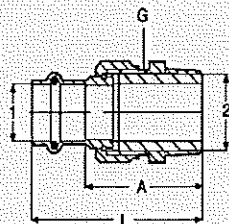
Union C x C					
Stock Code	Size	Material	A (in)	L (in)	G (in)
	1 2				
77667	1/2"	Bronze	1.260	2.756	3/4"
77352	3/4"	Bronze	1.335	3.146	1"
77357	1"	Bronze	1.827	3.638	1-1/4"
77362	1-1/4"	Bronze	1.634	3.681	1-1/2"
77367	1-1/2"	Bronze	2.126	4.961	2"
77372	2"	Bronze	2.067	5.217	2-1/2"



Union C x F					
Stock Code	Size	Material	A (in)	L (in)	G (in)
	1 2				
77752	1/2" x 1/2" NPT	Bronze	0.961	2.244	3/4"
77757	3/4" x 3/4" NPT	Bronze	0.957	2.417	1"
77762	1" x 1" NPT	Bronze	1.303	2.870	1-1/4"
77767	1-1/4" x 1-1/4" NPT	Bronze	1.268	2.972	1-1/2"
77772	1-1/2" x 1-1/2" NPT	Bronze	1.760	3.858	2"
77777	2" x 2" NPT	Bronze	1.646	3.917	2-1/2"

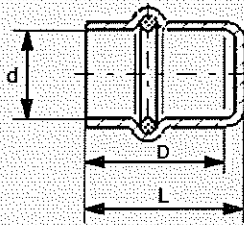


Di-electric Union C x F					
Stock Code	Size	Material	A (in)	L (in)	G (in)
	1 2				
15558	1/2" x 1/2" NPT	Bronze	0.961	2.244	1-1/4"
15568	3/4" x 3/4" NPT	Bronze	1.110	2.571	1-1/2"
15553	1" x 1" NPT	Bronze	1.004	2.571	1-1/2"
15548	1-1/4" x 1-1/4" NPT	Bronze	0.972	2.677	2"
15543	1-1/2" x 1-1/2" NPT	Bronze	1.004	3.102	2-1/4"
15563	2" x 2" NPT	Bronze	1.260	3.531	2-3/4"

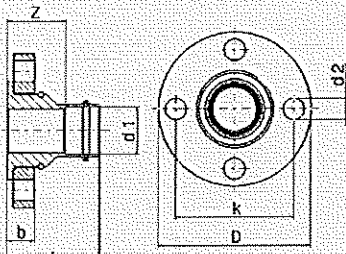


Di-electric Union C x M					
Stock Code	Size	Material	A (in)	L (in)	G (in)
	1 2				
77782	1/2" x 1/2" NPT	Bronze	2.087	2.835	3/4"
77787	3/4" x 3/4" NPT	Bronze	2.142	3.047	1"
77792	1" x 1" NPT	Bronze	2.732	3.638	1-1/4"
77797	1-1/4" x 1-1/4" NPT	Bronze	2.677	3.701	1-1/2"
77802	1-1/2" x 1-1/2" NPT	Bronze	3.228	4.646	2"
77807	2" x 2" NPT	Bronze	3.169	4.744	2-1/2"

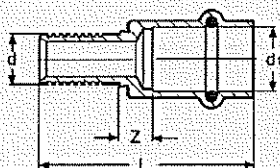
Dimensional Documentation



Cap C				
Stock Code	Size	Material	L (in)	D (in)
	d			
77712	1/2"	Copper	0.917	0.799
77717	3/4"	Copper	1.067	0.945
77722	1"	Copper	1.110	0.992
77727	1-1/4"	Copper	1.181	1.024
77732	1-1/2"	Copper	1.622	1.465
77737	2"	Copper	1.811	1.575

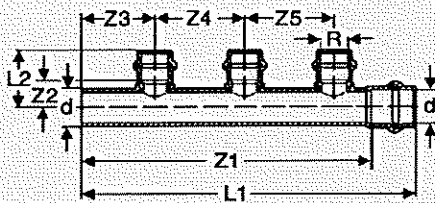


Adapter Flange C x Flange (Old Version)									
Stock Code	Size	Material	L (in)	Z (in)	b1 (in)	b2 (in)	D (in)	K (in)	d2 (in)
	d1								
19708	1"	Bronze	2.756	1.850	0.630	0.827	4.331	3.110	0.630
19713	1-1/4"	Bronze	2.756	1.850	0.630	0.827	4.528	3.504	0.630
19718	1-1/2"	Bronze	3.071	1.654	0.630	0.827	4.921	3.858	0.630
19723	2"	Bronze	3.661	2.087	0.630	0.827	5.906	4.764	0.748

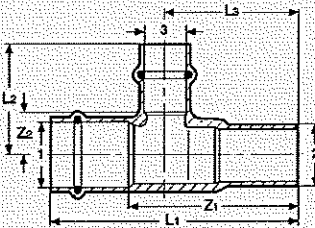


PureFlow/Propress Adapter PEX x C				
Stock Code	Size	Material	L (in)	Z (in)
	d x d1			
67620	1/2"-1/2"	Copper	1.575	0.236
67626	1/2"-3/4"	Copper	1.831	0.335
67627	5/8"-1/2"	Copper	1.496	0.157
67628	5/8"-3/4"	Copper	1.831	0.335
67630	3/4"-1/2"	Copper	1.417	0.079
67640	3/4"-3/4"	Copper	1.732	0.236
67660	1"-1"	Copper	1.969	0.315

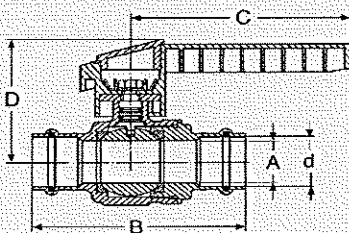
Dimensional Documentation



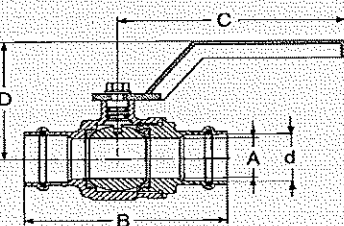
ProPress Manifold 3-Outlet (open) C x FTG x C									
Stock Code	Size	Material	L1 (in)	L2 (in)	Z1 (in)	Z2 (in)	Z3 (in)	Z4 (in)	Z5 (in)
65803	1" x 1/2"	Copper	7.323	1.512	6.378	0.773	1.654	1.969	1.969



ProPress Manifold 1-Outlet (open) C x FTG x C							
Stock Code	Size	Material	Z1 (in)	Z2 (in)	L1 (in)	L2 (in)	L3 (in)
65801	1" x 1" x 1/2"	Copper	2.500	.0787	3.661	1.535	2.067

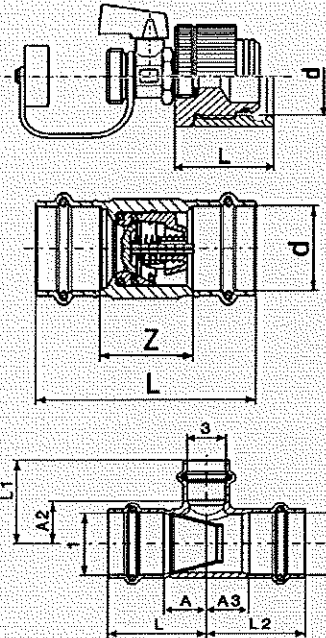


ProPress Ball Valve - Plastic Handle C x C						
Stock Code	Size	Material	A (in)	B (in)	C (in)	D (in)
	d					
19678	1/2"	Bronze	0.551	3.346	3.858	2.539
19683	3/4"	Bronze	0.787	3.819	3.858	2.618
19688	1"	Bronze	0.984	4.291	4.429	2.795
19693	1-1/4"	Bronze	1.260	4.685	4.429	3.228
19698	1-1/2"	Bronze	1.575	5.610	4.685	3.346
19703	2"	Bronze	1.969	6.756	4.685	3.661



ProPress Ball Valve - Metal Handle C x C						
Stock Code	Size	Material	A (in)	B (in)	C (in)	D (in)
	d					
22053	1/2"	Bronze	0.551	3.346	4.331	2.402
22058	3/4"	Bronze	0.787	3.819	4.331	2.461
22063	1"	Bronze	0.984	4.291	4.823	2.795
22068	1-1/4"	Bronze	1.260	4.685	4.823	3.228
22073	1-1/2"	Bronze	1.575	5.610	5.315	3.661
22078	2"	Bronze	1.969	6.756	5.315	3.976

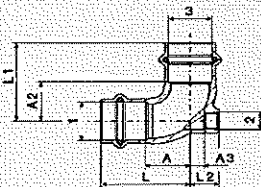
Dimensional Documentation



Bronze Pressure Test Plug			
Stock Code	Size	Material	L (in)
	d		
78202	1/2"	Bronze	1.654
78207	3/4"	Bronze	1.654
78212	1"	Bronze	1.654
78217	1-1/4"	Bronze	1.654
78222	1-1/2"	Bronze	1.811
78227	2"	Bronze	1.929

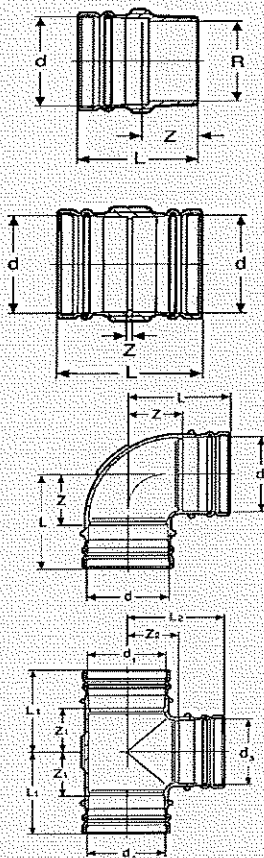
Bronze Check Valve C x C				
Stock Code	Size	Material	Z (in)	L (in)
	1			
22353	1/2"	Bronze	.0866	2.362
22358	3/4"	Bronze	1.142	2.953
22363	1"	Bronze	1.339	3.150
22368	1-1/4"	Bronze	1.693	3.740
22373	1-1/2"	Bronze	2.087	4.921
22378	2"	Bronze	2.559	5.709

Venturi Tee C x C x C								
Stock Code	Size	Material	A (in)	A2 (in)	A3 (in)	L (in)	L1 (in)	L2 (in)
	d x d1							
23388	3/4"x 3/4"x 1/2"	Copper	0.689	0.630	0.433	1.594	1.378	1.594
23393	1"x 1"x 1/2"	Copper	0.689	0.787	0.689	1.594	1.535	1.594
23398	1"x 1"x 3/4"	Copper	0.846	0.748	0.591	1.752	1.654	1.752
23403	1-1/4"x 1-1/4"x 1/2"	Copper	0.650	0.925	0.650	1.673	1.673	1.673
23408	1-1/4"x 1-1/4"x 3/4"	Copper	0.768	0.866	0.768	1.791	1.772	1.791



Vent Tee C x F x C								
Stock Code	Size	Material	A (in)	A2 (in)	A3 (in)	L (in)	L1 (in)	L2 (in)
	1 2 3							
14573	1/2"x 1/8"NPTx 1/2"	Bronze	0.748	0.748	0.315	1.496	1.496	0.591
14578	3/4"x 1/8"NPTx 3/4"	Bronze	0.906	0.906	0.315	1.811	1.811	0.591

Dimensional Documentation



Adapter C x M				
Stock Code	Material	Size	Z (in)	L (in)
		d R		
91332	Bronze	2-1/2" x 2-1/2" NPT	2.047	4.213
91337	Bronze	3" x 3" NPT	2.047	4.213
91327	Bronze	4" x 4" NPT	1.969	4.528

Coupling C x C with Stop				
Stock Code	Material	Size	Z (in)	L (in)
		d		
91342	Bronze	2-1/2"	0.315	4.528
91347	Bronze	3"	0.315	4.528
91352	Bronze	4"	0.315	5.315

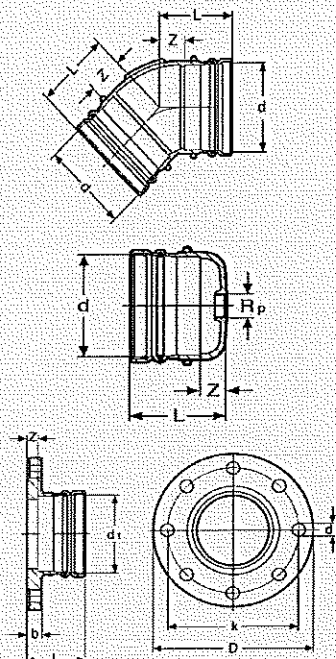
Elbow 90° C x C				
Stock Code	Material	Size	Z (in)	L (in)
		d		
91357	Bronze	2-1/2"	2.165	4.331
91362	Bronze	3"	2.362	4.528
91367	Bronze	4"	2.894	5.453

Tee C x C x C						
Stock Code	Material	Size	Z1 (in)	Z2 (in)	L1 (in)	L2 (in)
		d1 d2 d3				
91372	Bronze	2-1/2"	2.224	2.224	4.331	4.331
15633	Bronze	2-1/2" x 2-1/2" x 1-1/2"	1.618	2.283	3.602	3.701
91377	Bronze	3"	2.421	2.421	4.528	4.528
15638	Bronze	3" x 3" x 1-1/2"	1.618	2.480	3.720	3.898
91382	Bronze	4"	2.933	2.933	5.453	5.453
91387	Bronze	4" x 4" x 2"	1.831	3.071	4.331	4.665
91392	Bronze	4" x 4" x 2-1/2"	2.165	2.894	4.724	5.059
91397	Bronze	4" x 4" x 3"	2.362	2.894	4.921	5.059
15643	Bronze	4" x 4" x 1-1/2"	1.598	3.130	4.094	4.547
91402	Bronze	2-1/2" x 2-1/2" x 2"	1.831	2.205	3.937	3.819
91407	Bronze	3" x 3" x 2"	1.831	2.441	3.937	4.016
91412	Bronze	3" x 3" x 2-1/2"	2.165	2.362	4.331	4.547

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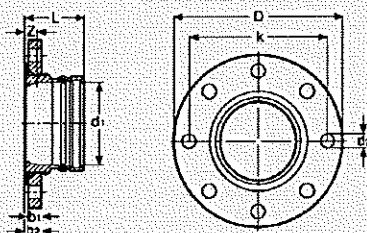
Dimensional Documentation



Elbow 45° C x C				
Stock Code	Material	Size	Z (in)	L (in)
		d		
91417	Bronze	2-1/2"	1.083	3.248
91422	Bronze	3"	1.181	3.346
91427	Bronze	4"	1.358	3.917

Cap C				
Stock Code	Material	Size	Z (in)	L (in)
		d R _p		
91432	Bronze	2-1/2"x 3/4" NPT	0.827	2.992
91437	Bronze	3"x 3/4" NPT	0.846	3.012
91442	Bronze	4"x 3/4" NPT	0.945	3.504

Adapter Flange C x Flange (old version)								
Stock Code	Material	Size	Z (in)	L (in)	b (in)	d2 (in)	D (in)	k (in)
		d1						
91567		2-1/2"	0.827	21	2.933	0.571	0.748	7.008
91572		3"	0.866	22	2.953	0.630	0.748	7.500
91577		4"	0.551	14	3.051	0.689	0.748	9.016

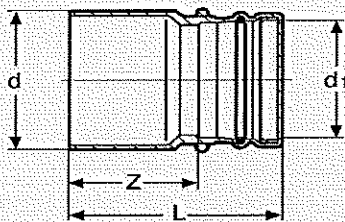


Adapter Flange C x Flan (new version)									
Stock Code	Material	Size	Z (in)	L (in)	b1 (in)	b2 (in)	k (in)	D (in)	d2 (in)
		d1							
19728	Bronze	2-1/2"	0.984	3.091	0.787	0.827	5.512	7.087	0.748
19733	Bronze	3"	1.024	3.150	0.787	0.906	5.984	7.480	0.748
19738	Bronze	4"	0.630	3.150	0.807	0.906	7.520	9.055	0.748

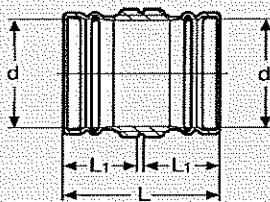
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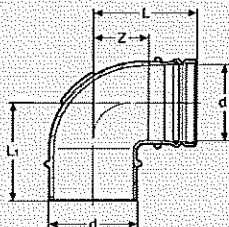
Dimensional Documentation



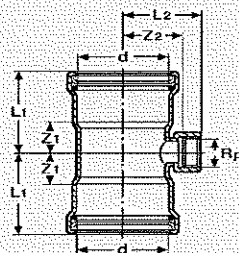
Reducer FTG x C				
Stock Code	Material	Size	Z (in)	L (in)
		d d1		
91452	Bronze	3"x 2"	3.031	4.606
91457	Bronze	3"x 2-1/2"	2.819	4.921
17593	Bronze	4"x 2-1/2"	3.543	5.650
91472	Bronze	2-1/2"x 1-1/2"	3.150	4.567



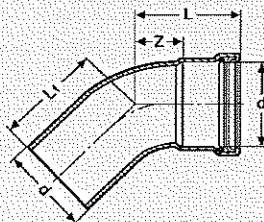
Coupling C x C No Stop				
Stock Code	Material	Size	L (in)	L1 (in)
		d		
91477	Bronze	2-1/2"	4.528	2.185
91482	Bronze	3"	4.528	2.185
91487	Bronze	4"	5.315	2.579



Elbow 90° FTG x C					
Stock Code	Material	Size	Z (in)	L (in)	L1 (in)
		d			
91492	Bronze	2-1/2"	2.224	4.331	4.606
91497	Bronze	3"	2.559	4.685	4.803
91502	Bronze	4"	2.972	5.472	5.591



Tee C x C x F						
Stock Code	Material	Size	Z1 (in)	Z2 (in)	L1 (in)	L2 (in)
		d d Rp				
91507	Bronze	4"x4"x2"	1.535	2.717	4.035	3.583
91512	Bronze	4"x4"x3/4"	1.220	2.520	3.740	3.209
91517	Bronze	2-1/2"x2-1/2"x2"	1.929	1.929	4.035	2.795
91522	Bronze	2-1/2"x2-1/2"x3/4"	1.240	1.772	3.346	2.461
91527	Bronze	3"x3"x2"	1.929	2.205	4.035	3.071
91532	Bronze	3"x3"x3/4"	1.220	2.047	3.346	2.756

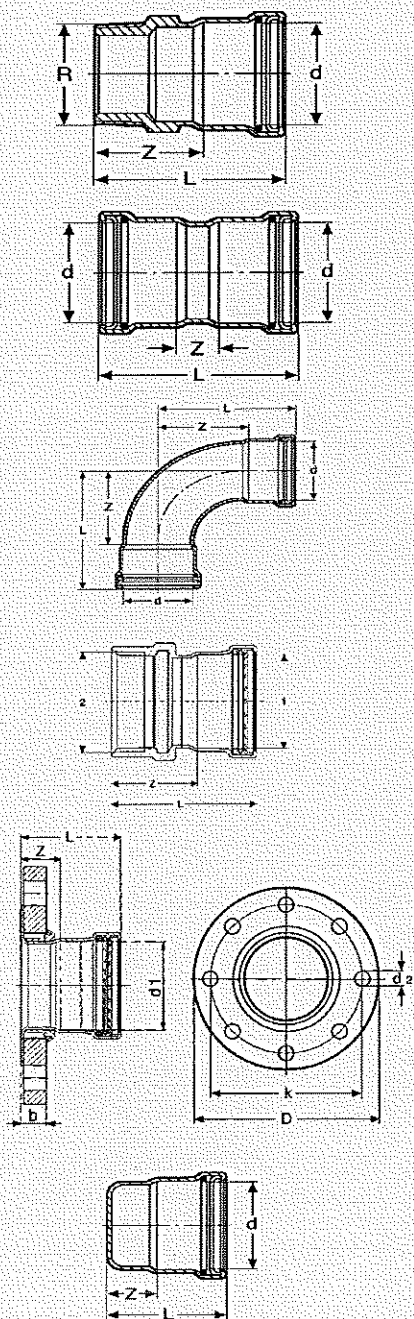


Elbow 45° FTG x C					
Stock Code	Material	Size	Z (in)	L (in)	L1 (in)
		d			
91537	Bronze	2-1/2"	1.142	3.248	3.819
91542	Bronze	3"	1.240	3.346	4.094
91547	Bronze	4"	1.417	3.898	4.921

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Adapter C x M				
Stock Code	Material	Size	Z (in)	L (in)
		d R		
20823	Copper	2-1/2" x 2-1/2" NPT	2.520	4.213
20828	Copper	3" x 3" NPT	2.598	4.567
20838	Copper	4" x 4" NPT	2.736	5.098

Coupling C x C with Stop				
Stock Code	Material	Size	Z (in)	L (in)
		d		
20728	Copper	2-1/2"	0.945	4.331
20733	Copper	3"	0.984	4.921
20738	Copper	4"	1.063	5.787

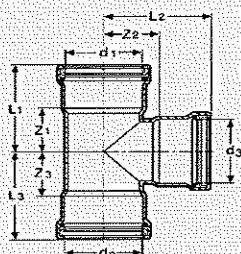
Elbow 90° C x C				
Stock Code	Material	Size	Z (in)	L (in)
		d		
20623	Copper	2-1/2"	3.189	4.882
20628	Copper	3"	3.760	5.728
20633	Copper	4"	4.902	7.264

Adaptor C x F				
Stock Code	Material	Size	Z (in)	L (in)
		1 2		
20819	Copper	2 1/2" x 2 1/2" NPT	2.46	4.15
20829	Copper	3" x 3" NPT	2.60	4.57
20839	Copper	4" x 4" NPT	2.78	5.14

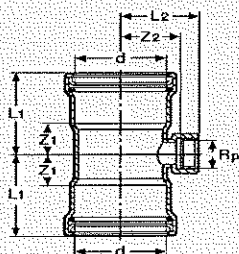
Adapter Flange C x Flange (new version)								
Stock Code	Material	Size	Z (in)	L (in)	b (in)	k (in)	D (in)	d2 (in)
		d1						
20853	Copper/Steel	2-1/2"	1.102	2.795	.787	5.512	7.087	.748
20858	Copper/Steel	3"	1.201	3.169	.787	5.984	7.480	.748
20863	Copper/Steel	4"	1.204	3.602	.807	7.520	9.055	.748

Cap C				
Stock Code	Material	Size	Z (in)	L (in)
		d		
20623	Copper	2-1/2"	1.339	3.031
20628	Copper	3"	1.358	3.327
20633	Copper	4"	1.398	3.760

Dimensional Documentation



Tee C x C x C								
Stock Code	Material	Size	Z1 (in)	Z2 (in)	Z3 (in)	L1 (in)	L2 (in)	L3 (in)
		d1 d2 d3						
20683	Copper	2-1/2"	1.831	1.870	1.831	3.524	3.563	3.524
20688	Copper	2-1/2" x 2-1/2" x 2"	1.535	1.732	1.535	3.228	3.327	3.228
20803	Copper	2-1/2" x 2-1/2" x 1-1/2"	1.299	1.732	1.299	2.992	3.169	2.992
22278	Copper	2-1/2" x 2" x 2"	2.232	1.732	1.535	3.819	3.327	3.228
22283	Copper	2-1/2" x 2" x 1-1/2"	1.909	1.732	1.299	3.504	3.169	2.992
22288	Copper	2-1/2" x 2-1/2" x 1-1/4"	1.161	1.713	1.161	2.854	2.756	2.854
22293	Copper	2-1/2" x 2-1/2" x 1"	1.043	1.732	1.043	2.736	2.638	2.736
22298	Copper	2-1/2" x 2-1/2" x 3/4"	.906	1.575	.906	2.598	2.480	2.598
22303	Copper	2-1/2" x 2-1/2" x 1/2"	.906	1.516	.906	2.598	2.264	2.598
20693	Copper	3"	2.067	2.146	2.067	4.035	4.114	4.035
22308	Copper	3" x 3" x 1"	1.063	1.988	1.063	3.031	2.894	3.031
22313	Copper	3" x 3" x 1-1/4"	1.181	1.969	1.181	3.150	3.012	3.150
22323	Copper	3" x 3" x 3/4"	.925	1.870	.925	2.894	2.776	2.894
20698	Copper	3" x 3" x 2"	1.555	1.988	1.555	3.524	3.583	3.524
20703	Copper	3" x 3" x 2-1/2"	1.850	2.126	1.850	3.819	3.819	3.819
20798	Copper	3" x 3" x 1-1/2"	1.299	1.988	1.299	3.287	3.425	3.287
20708	Copper	4"	2.598	2.697	2.598	4.961	5.059	4.961
20713	Copper	4" x 4" x 2"	1.594	2.500	1.594	3.957	4.094	3.957
20718	Copper	4" x 4" x 2-1/2"	1.890	2.638	1.890	4.252	4.331	4.252
20808	Copper	4" x 4" x 1-1/2"	1.358	2.500	1.358	3.720	3.937	3.720
20723	Copper	4" x 4" x 3"	2.106	2.657	2.106	4.469	4.626	4.469

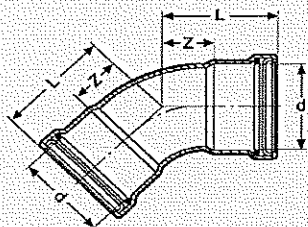


Tee C x C x F						
Stock Code	Material	Size	Z1 (in)	Z2 (in)	L1 (in)	L2 (in)
		d d Rp				
20868	Copper	4" x 4" x 2"	1.594	2.598	3.957	3.287
20873	Copper	4" x 4" x 3/4"	0.965	2.461	3.327	3.071
20878	Copper	2-1/2" x 2-1/2" x 2"	1.535	1.831	3.228	2.520
22883	Copper	2-1/2" x 2-1/2" x 3/4"	0.906	1.693	2.598	2.303
22893	Copper	3" x 3" x 3/4"	0.925	1.949	2.894	2.559

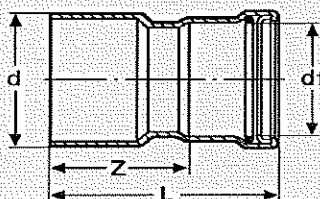
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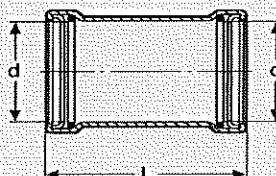
Dimensional Documentation



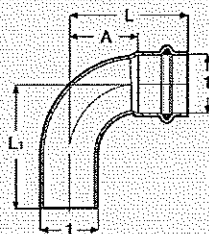
Elbow 45° C x C				
Stock Code	Material	Size	Z (in)	L (in)
		d		
20653	Copper	2-1/2"	1.476	3.169
20658	Copper	3"	1.732	3.701
20663	Copper	4"	2.224	4.587



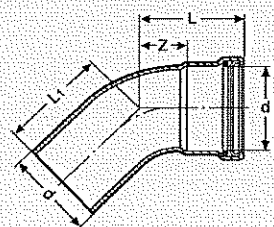
Reducer FTG X C				
Stock Code	Material	Size	Z (in)	L (in)
		d d1		
20758	Copper	2-1/2" x 2"	2.264	3.858
20763	Copper	3" x 2"	2.815	4.409
20768	Copper	3" x 2-1/2"	2.559	4.252
20773	Copper	4" x 2"	4.232	5.807
20778	Copper	4" x 2-1/2"	4.173	5.787
20783	Copper	4" x 3"	3.957	5.846
20813	Copper	2-1/2" x 1-1/2"	2.480	3.937
20818	Copper	3" x 1-1/2"	3.346	4.803



Coupling C x C No Stop			
	Material	Size	L (in)
		d	
20743	Copper	2-1/2"	4.331
20748	Copper	3"	4.921
20753	Copper	4"	5.787



Elbow 90° FTG X C					
Stock Code	Material	Size	A (in)	L (in)	L1 (in)
		1			
20638	Copper	2-1/2"	3.189	4.882	4.803
20643	Copper	3"	3.760	5.728	5.630
20648	Copper	4"	4.902	7.264	7.126



Elbow 45° FTG x C					
Stock Code	Material	Size	Z (in)	L (in)	L1 (in)
		d			
20668	Copper	2-1/2"	1.476	3.169	3.091
20673	Copper	3"	1.732	3.701	3.602
20678	Copper	4"	2.224	4.587	4.449

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