



Canadian International
Trade Tribunal

Tribunal canadien du
commerce extérieur

CANADIAN
INTERNATIONAL
TRADE TRIBUNAL

Dumping and Subsidizing

ORDER

Expiry review RR-2022-003

Copper Pipe Fittings

*Order and reasons issued
Wednesday, November 22, 2023*

IN THE MATTER OF an expiry review, pursuant to subsection 76.03(1) of the *Special Import Measures Act*, of the finding made by the Canadian International Trade Tribunal on May 25, 2018, in inquiry NQ-2017-004, concerning:

**COPPER PIPE FITTINGS ORIGINATING IN OR EXPORTED FROM THE
SOCIALIST REPUBLIC OF VIETNAM**

ORDER

The Canadian International Trade Tribunal, pursuant to subsection 76.03(1) of the *Special Import Measures Act*, has conducted an expiry review of the finding made on May 25, 2018, in inquiry NQ-2017-004, concerning the dumping and subsidizing of pressure pipe fittings and drainage, waste and vent pipe fittings, made of cast copper alloy, wrought (or “wrot”) copper alloy or wrought copper for use in heating, plumbing, air conditioning and refrigeration applications, originating in or exported from the Socialist Republic of Vietnam, restricted to the products enumerated in the attached appendix.

Pursuant to paragraph 76.03(12)(b) of the *Special Import Measures Act*, the Tribunal continues its finding in respect of the aforementioned goods originating in or exported from the Socialist Republic of Vietnam.

Cheryl Beckett

Cheryl Beckett

Presiding Member

Randolph W. Heggart

Randolph W. Heggart

Member

Frédéric Seppey

Frédéric Seppey

Member

The statement of reasons will be posted on the Tribunal’s website at a later date.

APPENDIX

Products covered by the finding made by the Canadian International Trade Tribunal on May 25, 2018, in inquiry NQ-2017-004

1. The table to this appendix lists the copper pipe fittings that are covered by the Tribunal’s finding.
2. Copper pipe fittings are identified in terms of imperial measurement, i.e. inches. However, the metric equivalents of the imperial measurement are also covered by the Tribunal’s finding. The term “metric equivalent” refers to those fittings that are soft-converted equivalents of the imperial-sized fittings and does not include fittings made specifically in metric dimensions.
3. Copper pipe fittings are identified either as a wrought product or as a cast product. Where an asterisk (“*”) follows a specific copper pipe fitting description, it indicates that both the wrought product and the cast product are covered by the finding.
4. Copper pipe fittings are identified in terms of nominal size. Plumbing and heating fittings are marked according to nominal sizes that correspond to the inside diameters, while fittings for air conditioning and refrigeration are based on actual outer diameter sizes. The Tribunal’s finding also includes copper pipe fittings that are described in terms of their outside diameter size. To determine the nominal size of a fitting that is measured in terms of its outside diameter size, always subtract 1/8 inch from the outside diameter size.
5. Copper pipe fittings are identified using the following list of abbreviated terms:

Abbreviation Chart			
C	Copper Tube Cupped End or Sweat End	LT	Long Turn
M	Male NPT Thread	MJ	Mechanical Joint
FE	Female NPT Thread	DWV	Drainage, Waste, Vent
SJ	Slip Joint End	TY	90° Drainage Tee
FTG	Fitting End (Street End)	Y	45° Drainage Tee

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
3 X 4 CLOSET FLANGE	*	1 X 5/8 CXC WROT COUPLING	*
4 X 4 CLOSET FLANGE	*	1 X 3/4 CXC WROT COUPLING	*
3 X 1-1/2 FITXC CAST DWV BUSH	*	1-1/4 CXC WROT P COUPLING	*
4 X 1-1/2 CXC CAST DWV CPLGS	*	1-1/4 X 1/2 CXC WROT COUPLINGS	*
4 X 3 CXC CAST DWV COUPLING	*	1-1/4 X 3/4 CXC WROT COUPLING	*
1-1/4 CXCXC 45 Y'S	*	1-1/4 X 1 CXC WROT COUPLING	*
1-1/2 CXCXC 45 DWV Y'S	*	3/8 X 1/8 FTGXC WROT BUSHING	*
1-1/2CX 1-1/4CX 1-1/4C 45 Y'S	*	3/8 X 1/4 FITXC WROT BUSHING	*
1-1/2CX 1-1/4CX 1-1/2C 45 Y'S	*	1/2 X 1/4 FITXC WROT BUSHING	*
1-1/2CX 1-1/2CX 1-1/4C 45 Y'S	*	1/2 X 3/8 FITXC WROT BUSHING	*
2 CXCXC 45 DWV Y'S	*	5/8 X 1/4 WROT P BUSHING	*
2CX 1-1/4CX 1-1/4C 45 Y'S	*	5/8 X 3/8 FITXC WROT BUSHING	*
2CX 1-1/4CX 1-1/2C 45 Y'S	*	5/8 X 1/2 FITXC WROT BUSHING	*
2CX 1-1/4CX 2C 45 Y'S	*	3/4 X 1/4 FITXC WROT BUSHING	*
2CX 1-1/2CX 1-1/4C 45 Y'S	*	3/4 X 3/8 FITXC WROT BUSHING	*
2CX 1-1/2CX 1-1/2C 45 Y'S	*	3/4 X 1/2 FITXC WROT BUSHING	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
2CX 1-1/2CX 2C 45 Y'S	*	3/4 X 5/8 FITXC WROT BUSHING	*
2CX 2CX 1-1/4C 45 Y'S	*	1 X 3/8 FITXC WROT BUSHING	*
2CX 2CX 1-1/2C 45 Y'S	*	1 X 1/2 FITXC WROT BUSHING	*
3 CXCXC 45 DWV Y'S	*	1 X 5/8 FITXC WROT BUSHING	*
3C X 2C X 2C DWV 45 Y'S	*	1 X 3/4 FITXC WROT BUSHING	*
3CX 3CX 1-1/4C 45 Y'S	*	1-1/4 X 1/2 FITXC WROT BUSHING	*
3CX 3CX 1-1/2C 45 Y'S	*	1-1/4 X 3/4 FITXC WROT BUSHING	*
3CX 3CX 2C 45 Y'S	*	1-1/4 X 1 FITXC WROT BUSHING	*
4 CXCXC 45 Y'S	*	1-1/2 X 1/2 FITXC WROT BUSHING	*
4CX 4CX 2C 45 Y'S	*	1-1/2 X 3/4 FITXC WROT BUSHING	*
4CX 4CX 3C 45 Y'S	*	1-1/2 X 1 FITXC WROT BUSHING	*
1-1/4 DWV TY'S	*	1-1/2 X 1-1/4 FITXC WROT P BUSH	*
1-1/2 DWV TY'S	*	2 X 1/2 FITXC WROT BUSHING	*
1-1/2 X 1-1/4 X 1-1/4 DWV TY'S	*	2 X 3/4 FITXC WROT BUSHING	*
1-1/2 X 1-1/4 X 1-1/2 DWV TY'S	*	2 X 1 FITXC WROT BUSHING	*
1-1/2 X 1-1/2 X 1-1/4 DWV TY'S	*	2 X 1-1/4 FITXC WROT P BUSHING	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
3 FTG X C X C DWV TY'S	*	2 X 1-1/2 FITXC WROT P BUSHING	*
3 X 3 X 1-1/4 FITXCXC DWV TY'S	*	1-1/2 CXC WROT P COUPLING	*
3 X 3 X 1-1/2 FITXCXC DWV TY	*	2-1/2 X 1 FITXC WROT BUSHING	*
3 X 3 X 2 FITXCXC DWV TYS	*	2-1/2 X 1-1/4 FITXC WROT BUSH	*
2 DWV TY'S	*	2-1/2 X 1-1/2 FITXC WROT BUSH	*
2 X 1-1/4 X 1-1/4 DWV TY'S	*	2-1/2 X 2 FITXC WROT BUSHING	*
2 X 1-1/4 X 1-1/2 DWV TY'S	*	1-1/2 X 1/2 CXC WROT COUPLING	*
2 X 1-1/4 X 2 DWV TY'S	*	1-1/2 X 3/4 CXC WROT COUPLING	*
2 X 1-1/2 X 1-1/4 DWV TY'S	*	1-1/2 X 1 CXC WROT COUPLING	*
2 X 1-1/2 X 1-1/2 DWV TY'S	*	1-1/2 X 1-1/4 CXC WROT P CPLG	*
2 X 1-1/2 X 2 DWV TY'S	*	3 X 1/2 FITXC WROT P BUSHING	*
2 X 2 X 1-1/4 DWV TY'S	*	3 X 3/4 FITXC WROT P BUSHING	*
2 X 2 X 1-1/2 DWV TY'S	*	3 X 1 FITXC WROT P BUSHING	*
1-1/2 CXCXFE CAST DWV TY	*	3 X 1-1/4 FITXC WROT P BUSHING	*
2 CXCXFE CAST DWV TY		3 X 1-1/2 FITXC WROT P BUSHING	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
2 X 1-1/2 X 1-1/2 CCF DWV TYS		3 X 2 FITXC WROT P BUSHING	*
3 DWV TY'S	*	3 X 2-1/2 FITXC WROT BUSHING	*
3 X 1-1/2 X 1-1/4 DWV TY'S	*	3-1/2 X 2 FITXC WROT P BUSHING	*
3 X 2 X 1-1/2 CXCXC DWV TY'S	*	3-1/2 X 2-1/2 FITXC WROT BUSH	*
3 X 3 X 1-1/4 DWV TY'S	*	3-1/2 X 3 FITXC WROT BUSHING	*
3 X 3 X 1-1/2 DWV TY'S	*	4 X 1-1/4 FITXC WROT BUSHING	*
3 X 3 X 2 DWV TY'S	*	4 X 1-1/2 FITXC WROT BUSHING	*
4 DWV TY'S	*	4 X 2 FITXC WROT P BUSHING	*
4 X 4 X 1-1/2 DWV TY'S	*	4 X 2-1/2 FITXC WROT BUSHING	*
4 X 4 X 2 DWV TY'S	*	4 X 3 FITXC WROT P BUSHING	*
4 X 4 X 3 DWV TY'S	*	4 X 3-1/2 FITXC WROT BUSHING	*
1-1/4 CXFE CAST DWV ADAPTER	*	2 CXC WROT P COUPLING	*
1-1/2 FITXFE CAST DWV ADAPTER	*	2 X 1/2 CXC WROT COUPLING	*
1-1/2 CXFE CAST DWV ADAPTER	*	2 X 3/4 CXC WROT COUPLING	*
1-1/2 X 1-1/4 CXFE CAST ADAPT	*	2 X 1 CXC WROT COUPLING	*
3 FITXFE CAST DWV ADAPTER	*	2 X 1-1/4 CXC WROT P COUPLING	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
2 CXFE CAST DWV ADAPTER	*	2 X 1-1/2 CXC WROT P COUPLING	*
3 CXFE CAST DWV ADAPTER	*	2-1/2 CXC WROT P COUPLING	*
4 CXFE CAST DWV ADAPTER	*	2-1/2 X 3/4 CXC WROT COUPLING	*
1-1/4 CXM CAST DWV ADAPTER	*	2-1/2 X 1 CXC WROT P CPLGS	*
1-1/4X1-1/2 CXM CAST DWV ADAPT	*	2-1/2 X 1-1/4 CXC WROT CPLG	*
1-1/2 FTGXM CAST DWV ADAPTER	*	2-1/2 X 1-1/2 CXC WROT CPLG	*
1-1/2 CXM CAST DWV ADAPTER	*	2-1/2 X 2 CXC WROT COUPLING	*
1-1/2X1-1/4 CXM CAST DWV ADAPT	*	3 CXC WROT P COUPLING	*
2 CXM CAST DWV ADAPTER	*	3 X 3/4 CXC WROT P COUPLING	*
2 X 1-1/2 CXM CAST DWV ADAPT	*	3 X 1 CXC WROT P COUPLING	*
3 CXM CAST DWV ADAPTER	*	3 X 1-1/4 CXC WROT P COUPLING	*
4 CXM CAST DWV ADAPTER	*	3 X 1-1/2 CXC WROT P COUPLING	*
1-1/4 X 2 CXSP CAST FERRULES	*	3 X 2 CXC WROT P COUPLING	*
1-1/2 X 2 CXSP CAST FERRULES	*	3 X 2-1/2 CXC WROT P COUPLING	*
1-1/2 X 3 CXSP CAST FERRULE	*	3-1/2 CXC WROT P COUPLING	*
2 CXSP CAST FERRULES	*	3-1/2 X 3 CXC WROT COUPLING	*
2 X 3 CXSP CAST FERRULE	*	4 CXC WROT P COUPLING	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
2 X 4 CXSP CAST FERRULES	*	4 X 1-1/2 CXC WROT P COUPLING	*
3 CXSP CAST FERRULES	*	4 X 2 CXC WROT P COUPLING	*
3 X 4 CXSP CAST FERRULES	*	4 X 2-1/2 CXC WROT COUPLING	*
4 CXSP CAST FERRULES	*	4 X 3 CXC WROT P COUPLING	*
3 X 4 CXSP CAST ECC FERRULES	*	4 X 3-1/2 CXC WROT COUPLING	*
1-1/4 X 2 CXMJ CAST ADAPTER	*	5 CXC WROT PRESS COUPLING	*
1-1/4 X 3 CXMJ DWV ADAPTER	*	6 CXC WROT PRESS COUPLING	*
1-1/2 X 2 CXMJ CAST ADAPTER	*	6 X 2-1/2 WROT COUPLINGS	*
1-1/2 X 3 CXMJ CAST ADAPTER	*	1-1/4 X 3/4 CXC WROT ECC CPLG	*
1-1/2 X 4 CXMJ CAST ADAPTER	*	1-1/4 X 1 CXC WROT ECC CPLG	*
2 X 3 CXMJ CAST ADAPTER	*	1/8 CXC WROT CPLGS NO STOP	*
2 X 4 CXMJ CAST ADAPTER	*	1/4 CXC NSTOP WROT CPLGS	*
3 CXMJ CAST ADAPTER	*	3/8 CXC WROT CPLGS NO STOP	*
3 X 4 CXMJ CAST ADAPTER	*	1/2 CXC WROT CPLGS NO STOP	*
4 CXMJ CAST ADAPTER	*	5/8 CXC WROT CPLGS NO STOP	*
6 C X M J CAST DWV ADAPTER	*	3/4 CXC WROT CPLGS NO STOP	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
1-1/4 CXC 11-1/4 CAST ELBOW	*	1 CXC WROT CPLGS NO STOP	*
1-1/2 CXC 11-1/4 CAST ELBOW	*	1-1/4 CXC WROT CPLGS NO STOP	*
2 CXC 11-1/4 CAST ELBOW	*	1-1/2 CXC WROT CPLGS NO STOP	*
3 CXC 11-1/4 CAST ELBOW	*	2 CXC WROT CPLGS NO STOP	*
4 C X C 11-1/4 CAST ELBOW	*	2-1/2 CXC WROT CPLG NO STOP	*
1-1/4 CXC 22-1/2 CAST ELBOW	*	3 CXC WROT CPLGS NO STOP	*
1-1/2 CXC 22-1/2 CAST ELBOW	*	4 CXC WROT CPLGS NO STOP	*
2 CXC 22-1/2 CAST ELBOW	*	5 CXC WROT CPLGS NO STOP	*
3 CXC 22-1/2 CAST ELBOW	*	6 CXC WROT CPLGS NO STOP	*
4 CXC 22-1/2 CAST ELBOW	*	1/2 X 3 CXC REPAIR COUPLING	
3 FITXC 45 CAST DWV ELBOW	*	1/2 X 6 C X C REPAIR COUPLING	
4 FITXC 45 CAST DWV ELBOW	*	3/4 X 3 C X C REPAIR COUPLING	
2 CXM CAST DWV 45 ELBOW	*	1/8 CXC P RING COUPLING	*
1-1/4 CXC 45 CAST DWV ELBOW	*	1/4 CXC RING COUPLINGS	*
1-1/2 CXC 45 CAST DWV ELBOW	*	3/8 CXC P RING COUPLING	*
2 CXC 45 CAST DWV ELBOW	*	1/2 CXC RING COUPLINGS	*
3 CXC 45 CAST DWV ELBOW	*	5/8 CXC P RING COUPLING	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
4 CXC 45 CAST DWV ELBOW	*	3/4 CXC RING COUPLINGS	*
1-1/4 CXC 60 CAST ELBOW	*	1 CXC P RING COUPLING	*
1-1/2 CXC 60 CAST ELBOW	*	1-1/4 CXC P RING COUPLING	*
2 CXC 60 CAST ELBOW	*	1-1/2 CXC P RING COUPLING	*
3 CXC 60 CAST ELBOW	*	2 CXC P RING COUPLING	*
1-1/4 CXC 90 CAST DWV ELBOW	*	2-1/2 CXC RING COUPLINGS	*
1-1/4 FITXC 90 CAST DWV ELBOW	*	3 CXC P RING COUPLING	*
1-1/2 FITXC 90 CAST DWV ELBOW	*	4 CXC P RING COUPLING	*
2 FITXC 90 CAST DWV ELBOW	*	1/2 X 3-1/4 FTGXC SLIDE CPLG	
1-1/2 CXC 90 CAST DWV ELBOW	*	3/4 X 5 FTGXC SLIDE COUPLING	
1-1/2 X 1-1/4 CXC DWV 90 ELBOW	*	1/4 C X FE WROT ADAPTERS	*
3 CAST DWV FTGXC 90 ELBOW	*	3/8 C X FE WROT ADAPTERS	*
4 FITXC 90 CAST DWV ELBOW	*	3/8 X 1/4 CXFE WROT ADAPTERS	*
2 CXC 90 CAST DWV ELBOW	*	3/8 X 1/2 CXFE WROT ADAPTERS	*
2X 1-1/4 CXC 90 CAST DWV ELBOW	*	1/2 C X FE WROT ADAPTERS	*
2 X 1-1/2 CXC 90 CAST DWV ELB	*	1/2 X 1/4 CXFE WROT ADAPTER	*
1-1/2 CXFE 90 CAST DWV ELBOW	*	1/2 X 3/8 CXFE WROT ADAPTER	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
2 CXFE 90 CAST DWV ELBOW	*	1/2 X 3/4 CXFE WROT ADAPTER	*
1-1/2 CXM 90 CAST DWV ELBOW		1/2 X 1 CXFE WROT ADAPTER	*
2 CXM 90 CAST DWV ELBOW		5/8 X 1/2 CXFE WROT ADAPTER	*
3 CXC 90 CAST DWV ELBOW		5/8 X 3/4 CXFE WROT ADAPTER	*
4 CXC 90 CAST DWV ELBOW		3/4 C X FE WROT ADAPTERS	*
1-1/2 TUBE END CLEANOUTS	*	3/4 X 1/2 CXFE WROT ADAPTER	*
3 TUBE END CLEANOUTS	*	3/4 X 1 CXFE WROT ADAPTER	*
3 FTG CLEANOUT - FLUSH TYPE	*	3/4 X 1-1/4 CXFE WROT ADAPTER	*
4 FTG CLEANOUT - FLUSH TYPE	*	3/4 X 1-1/2 CXFE WROT ADAPTER	*
1-1/4 FTG CLEANOUT - FULL PLUG	*	1 C X FE WROT ADAPTER	*
1-1/2 FTG CLEANOUT - FULL PLUG	*	1 X 1/2 CXFE WROT ADAPTER	*
2 FTG CLEANOUT - FULL PLUG	*	1 X 3/4 CXFE WROT ADAPTER	*
3 FTG CLEANOUT - FULL PLUG	*	1 X 1-1/4 CXFE WROT ADAPTER	*
4 FTG CLEANOUT - FULL PLUG	*	1 X 1-1/2 CXFE WROT ADAPTER	*
1-1/4 FITXSJ CAST ADAPTER	*	1-1/4 C X FE WROT ADAPTER	*
4 ACT(3S)X1-1/2C-30 ROOF ADAPT	*	1-1/4 C X 3/4 FEMALE WROT ADAP	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
4 ACT(3S) X 2C-30 ROOF ADAPTER	*	1-1/4 X 1 CXFE WROT ADAPTERS	*
4 SOIL(5A)X 1-1/2 C ROOF ADAPT	*	1-1/4 X 1-1/2 CXFE WROT ADAPTR	*
2 C X SJ DWV COUPLING	*	1-1/4 X 2 CXFE WROT PRESS ADAP	*
3/4 CXC CAST COUPLINGS	*	1/4 FITXFE WROT ADAPTER	*
1-1/4 CXC CAST P COUPLINGS	*	3/8 FITXFE WROT ADAPTER	*
1/2 CXCXFE CAST TEE		3/8 X 1/4 FTG X FE WROT ADAPT	*
1/2 X 1/2 X 1/4 CXCXFE C TEE		1/2 FITXFE WROT ADAPTER	*
1/2C X 1/2C X 3/8FE CAST TEE		1/2 X 1/4 FTGXFE WROT ADAPTER	*
1/2 X 1/2 X 3/4 CXCXF CAST TEE		1/2 X 3/8 FITT X FE ADAPTER	*
3/4 CXCXFE CAST TEE		1/2 FTG X 3/4 FE WROT ADAPTER	*
3/4C X 1/2C X 1/2FE CAST TEE		3/4 FITXFE WROT ADAPTER	*
3/4 X 1/2 X 3/4 CXCXF CAST TEE		3/4 FTG X 1/2 FEMALE WROT ADAP	*
3/4 X 3/4 X 3/8 CCFE CAST TEE		1 FITXFE WROT ADAPTER	*
3/4C X 3/4C X 1/2FE CAST TEE		1 FTG X 3/4 FEMALE WROT ADAPTE	*
3/4 X 3/4 X 1 CXCXFE CAST TEE		1-1/4 FITXFE WROT ADAPTER	*
1 CXCXFE CAST TEE		1-1/2 FITXFE WROT ADAPTER	*
1 X 1 X 1/2 CXCXFE CAST TEE		2 FITXFE WROT ADAPTERS	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
1 X 1 X 3/4 CXCXFE CAST TEE		1-1/2 C X FE WROT ADAPTER	*
1-1/4 CXCXFE CAST TEE		2-1/2 FITXFE WROT ADAPTER	*
1-1/4 X 1-1/4 X 1/2 CCFE TEE		1-1/2 C X 1 FEMALE ADAPTER	*
1-1/4 X 1-1/4 X 3/4 CCFE TEE		1-1/2 X 1-1/4 CXFE WROT ADAPT	*
1-1/4X1-1/4X1 CCFE TEE		1-1/2 X 2 CXFE WROT ADAPTER	*
1-1/2 CXCXFE CAST TEE		3 FITXFE WROT ADAPTER	*
1-1/2X1-1/2X1/2 CCFE TEE		3/4 CXC WROT UNION	*
1-1/2 X 1-1/2 X 3/4 CCFE TEE		1 CXC WROT UNION	*
1-1/2 X 1-1/2 X 1 CCFE TEE		2 C X FE WROT ADAPTER	*
1/2 CXFEXFE CAST TEE		1-1/4 CXC WROT UNION	*
1/2C X 3/4F X 1/2F CAST TEE		2 X 1 C X FE WROT ADAPTER	*
3/4 C X FE X FE CAST TEE		2 X 1-1/4 CXFE WROT ADAPTER	*
3/4 C X 3/4 FE X 1/2 FE TEE		2 X 1-1/2 CXFE WROT ADAPTER	*
2 CXCXFE CAST TEE		1-1/2 C X C WROT UNION	*
2 X 2 X 1/2 CXCXFE CAST TEE		1/2 C X FE WROT UNION	*
2 X 2 X 3/4 CXCXFE CAST TEE		3/4 C X FE WROT UNION	*
2 X 2 X 1 CXCXFE CAST TEE		1 C X FE WROT UNION	*
5 X 4 FITXC CAST BUSHING	*	2 CXC WROT UNIONS	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
6 X 2 FITXC CAST BUSHING	*	1-1/4 C X FE WROT UNION	*
6 X 3 FITXC CAST BUSHING	*	1-1/2 C X FE WROT UNION	*
6 X 4 FITXC CAST BUSHING	*	2 C X FE WROT UNION	*
6 X 5 FTGXC CAST P BUSHING	*	1/2 C X M WROT UNION	*
3/8 C X FE X C CAST TEE		3/4 C X M WROT UNIONS	*
1/2 CXFEXC CAST TEE		1 C X M WROT UNION	*
1/2C X 1/2FE X 3/4C CAST TEE		1-1/4 C X M WROT UNION	*
1/2C X 3/4FE X 1/2C CAST TEE		1-1/2 C X M WROT UNION	*
3/4 CXFEXC CAST TEE		2 C X M WROT UNION	*
3/4 X 1/2 X 1/2 CXFEXC TEE		2-1/2 C X FE WROT ADAPTER	*
3/4C X 1/2FE X 3/4C CAST TEE		3 C X FE WROT ADAPTERS	*
3/4C X 3/4FE X 1/2C CAST TEE		1/2 CXC WROT CROSSOVER CPLG	*
1 CXFEXC CAST TEE		3/4 CXC WROT CROSSOVER CPLG	*
1C X 1/2F X 1C CAST TEE		1/4 CXM WROT ADAPTER	*
1 X 3/4 X 1 CXFXC CAST TEE		1/4 X 3/8 CXM WROT ADAPT	*
1-1/4 CXFEXC CAST TEE		1/4 X 1/2 CXM WROT ADAPTER	*
1-1/4 X 1/2 X 1-1/4 CXFEXC TEE		3/8 CXM WROT ADAPTER	*
1-1/4 X 3/4 X 1-1/4 CXFEXC TEE		3/8 X 1/4 CXM WROT ADAPTER	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
1-1/2 C X FE X C CAST TEE		3/8 X 1/2 CXM WROT ADAPTER	*
1-1/2X1/2X1-1/2 CXFXC CAST TEE		1/2 CXM WROT ADAPTER	*
1-1/2X3/4X1-1/2 CXFEXC TEE		1/2 X 1/4 CXM WROT ADAPTER	*
1/2 FEXFEXC CAST TEE		1/2 X 3/8 CXM WROT ADAPTER	*
3/4 FEXFEXC CAST TEE		1/2 X 3/4 CXM WROT ADAPTER	*
3/4FE X 1/2FE X 1/2C CAST TEE		1/2 X 1 CXM WROT ADAPTER	*
3/4FE X 1/2FE X 3/4C CAST TEE		5/8 X 1/2 CXM WROT ADAPTER	*
3/4FE X 3/4FE X 1/2C CAST TEE		5/8 X 3/4 CXM WROT ADAPTER	*
2 C X FE X C CAST TEE		3/4 CXM WROT ADAPTER	*
2 X 1/2 X 2 CXFEXC TEE		3/4 C X 3/8 WROT MALE ADAPTER	*
2 X 3/4 X 2 CXFXC CAST TEE		3/4 X 1/2 CXM WROT ADAPTER	*
4 CXC CAST P COUPLINGS	*	3/4 X 1 CXM WROT ADAPTER	*
5 X 3 CXC CAST COUPLING	*	3/4 X 1-1/4 CXM WROT ADAPTER	*
5 X 4 CXC CAST COUPLING	*	3/4 X 1-1/2 CXM WROT ADAPTER	*
6 X 2 CXC CAST PRESS COUPLING	*	1 CXM WROT ADAPTER	*
6 X 3 CXC CAST P COUPLINGS	*	1 X 1/2 CXM WROT ADAPTER	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
6 X 4 CXC CAST P COUPLINGS	*	1 X 3/4 CXM WROT ADAPTER	*
6 X 5 CXC CAST COUPLING	*	1 X 1-1/4 CXM WROT ADAPTER	*
3/4 X 1/2 CXC CAST ECC COUPL	*	1 X 1-1/2 CXM WROT ADAPTER	*
1 X 1/2 CAST ECC COUPLING	*	1 X 2 CXMALE PRESSURE ADAPTER	*
1 X 3/4 CXC CAST ECC COUPLING	*	1-1/4 CXM WROT ADAPTER	*
1-1/4 X 1/2 CAST ECC COUPLING	*	1-1/4 X 3/4 CXM WROT ADAPTER	*
1-1/2 X 1 CXC CAST ECC COUPLIN	*	1-1/4 X 1 CXM WROT ADAPTER	*
1-1/2 X 1-1/4 CXC ECC CPLGS	*	1-1/4 X 1-1/2 CXM WROT ADAPT	*
2 X 1-1/4 CXC CAST ECC CPLGS	*	1-1/4 X 2 CXMALE PRESSURE ADAP	*
2 X 1-1/2 CXC CAST ECC CPLGS	*	1/4 FITXM WROT ADAPTER	*
3 X 2 CXC CAST ECC COUPLING	*	3/8 FITXM WROT ADAPTERS	*
1/2 CXFE CAST ADAPTER	*	1/2 FITXM WROT ADAPTER	*
1/2 X 3/8 CXFE CAST ADAPTER	*	1/2 X 3/8 FITXM WROT ADAPTER	*
1/2 X 3/4 CXFE CAST ADAPTER	*	1/2 X 3/4 FITXM WROT ADAPTER	*
3/4 CXFE CAST ADAPTER	*	3/4 FITXM WROT ADAPTER	*
3/4 X 1/2 CXFE CAST ADAPTER	*	3/4 X 1/2 FITTXM WROT ADAPTER	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
3/4 X 1 CXFE CAST ADAPTER	*	1 FITXM WROT ADAPTER	*
3/4 X 1-1/4 CXFE CAST ADAPTER	*	1 X 3/4 FITTXM WROT ADAPTER	*
3/4 X 1-1/2 CXFE CAST ADAPTER	*	1-1/4 FITXM WROT ADAPTER	*
1 C X FE CAST ADAPTER	*	1-1/2 FITXM WROT ADAPTER	*
1 X 1/2 CXFE CAST ADAPTER	*	2 FITXM WROT ADAPTER	*
1 X 3/4 C X FE CAST ADAPTER	*	1-1/2 CXM WROT ADAPTER	*
1 X 1-1/4 CXFE CAST ADAPTER	*	2-1/2 FITXM WROT ADAPTER	*
1-1/4 CXFE CAST P ADAPTER	*	1-1/2 X 1 CXM WROT ADAPTER	*
1-1/4 X 1/2 CXFE CAST ADAPTERS	*	1-1/2 X 1-1/4 CXM WROT ADAPT	*
1-1/4 X 3/4 CXFE CAST ADAPTER	*	1-1/2 X 2 CXM WROT ADAPTER	*
1-1/4 X 1 CXFE CAST P ADAPTER	*	3 FTG X M WROT ADAPTER	*
3/4 X 1/2 FITXFE CAST ADAPTER	*	2 CXM WROT ADAPTER	*
1 FTGXFE CAST ADAPTER	*	2 X 1-1/4 CXM WROT ADAPTER	*
1-1/2 CXFE CAST P ADAPTER	*	2 X 1-1/2 CXM WROT ADAPTER	*
1-1/2 X 3/4 CXFE CAST P ADAPT	*	2 X 2-1/2 C X M WROT ADAPTER	*
1-1/2 X 1 CXFE CAST ADAPTER	*	2-1/2 CXM WROT ADAPTER	*
1-1/2 X 2 CXFE CAST ADAPTER	*	2-1/2 X 2 CXM WROT ADAPTER	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
2 CXFE CAST P ADAPTER	*	3 CXM WROT ADAPTER	*
2-1/2 CXFE CAST UNION	*	4 CXM WROT ADAPTER	*
2-1/2 CXC CAST UNION	*	1/2 X 3/4 C X HOSE ADAPTER	*
2 CXM CAST UNION	*	1/4 CXC WROT 45 ELBOW	*
2-1/2 C X M CAST UNION	*	3/8 CXC WROT 45 ELBOW	*
3 CXC CAST UNION	*	1/2 CXC WROT 45 ELBOW	*
2-1/2 C X FE CAST ADAPTER	*	5/8 CXC WROT P 45 ELBOW	*
3 CXFE CAST P ADAPTER	*	3/4 CXC WROT 45 ELBOW	*
1/2 CXCXCXC CAST CROSSES	*	1 CXC WROT 45 ELBOW	*
3/4 CXCXCXC CAST CROSSES	*	1-1/4 CXC WROT P 45 ELBOW	*
1 CXCXCXC CAST CROSSES	*	1/4 FTG X C WROT 45 ELBOW	*
1-1/2 CXCXCXC CAST CROSSES	*	3/8 FITXC WROT 45 ELBOW	*
2 CXCXCXC CAST CROSS	*	1/2 FITXC WROT 45 ELBOW	*
3/4 CXC CAST CROSSOVER CPLG	*	5/8 FITXC WROT 45 ELBOW	*
1/2 CXM CAST ADAPTER	*	3/4 FITXC WROT 45 ELBOW	*
1/2 X 3/4 CXM CAST ADAPTER	*	1 FITXC WROT 45 ELBOW	*
1/2 CAST COMP FLANGE - 125#		1-1/4 FITXC WROT P 45 ELBOW	*
3/4 CAST COMP FLANGE - 125#		1-1/2 FITXC WROT P 45 ELBOW	*
1 CAST COMP FLANGE - 125#		2 FITXC WROT P 45 ELBOW	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
1-1/4 CAST COMP FLANGE - 125#		1-1/2 CXC WROT P 45 ELBOW	*
1-1/2 CAST COMP FLANGE - 125#		2-1/2 FITXC WROT 45 ELBOW	*
2 CAST COMP FLANGE - 125#		2 CXC WROT P 45 ELBOW	*
2-1/2 CAST COMP FLANGE - 125#		2-1/2 CXC WROT P 45 ELBOW	*
3 CAST COMP FLANGE - 125#		3 CXC WROT P 45 ELBOW	*
3-1/2 COMP FLANGE #125		4 CXC WROT P 45 ELBOW	*
4 CAST COMP FLANGE - 125#		1/4 CXC WROT 90 ELBOW	*
5 CAST COMP FLANGE - 125#		3/8 CXC WROT 90 ELBOW	*
6 CAST COMP FLANGE - 125#		1/2 CXC WROT 90 ELBOW	*
8 CAST COMP FLANGE - 125#		5/8 CXC WROT 90 ELBOWS	*
1/2 CAST COMP FLANGE - 150#		3/4 CXC WROT 90 ELBOW	*
3/4 CAST COMP FLANGE - 150#		3/4 X 1/2 CXC WROT 90 ELBOW	*
1 CAST COMP FLANGE - 150#		1 CXC WROT 90 ELBOW	*
1-1/4 CAST COMP FLANGE - 150#		1 X 1/2 CXC WROT 90 ELBOW	*
1-1/2 CAST COMP FLANGE - 150#		1 X 3/4 CXC WROT 90 ELBOW	*
2 CAST COMP FLANGE - 150#		1-1/4 CXC WROT P 90 ELBOW	*
2-1/2 CAST COMP FLANGE - 150#		1-1/4 X 1 CXC WROT 90 ELBOW	*
3 CAST COMP FLANGE - 150#		1/4 FITXC WROT 90 ELBOW	*
3-1/2 CAST COMP FLANGE #150		3/8 FITXC WROT 90 ELBOW	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
4 X 9 CAST COMP FLANGE - 150#		1/2 FITXC WROT 90 ELBOW	*
5 CAST COMP FLANGE - 150#		5/8 FITXC WROT 90 ELBOW	*
6 CAST COMP FLANGE -150#		3/4 FITXC WROT 90 ELBOW	*
8 CAST COMP FLANGE - 150#		1 FITXC WROT 90 ELBOW	*
3/4 CXM CAST ADAPTER	*	1-1/4 FITXC WROT 90 ELBOW	*
3/4 X 1/2 CXM CAST ADAPTER	*	1/2 FTGXFTG WROT 90 ELBOW	*
3/4 X 1-1/4 CXM CAST ADAPTER	*	3/4 FTG X FTG WROT 90 ELBOWS	*
1/2 COMP FLANGES - 300#		1-1/2 FITXC WROT 90 ELBOW	*
1 X 5 COMP FLANGES - 300#		2 FITXC WROT 90 ELBOW	*
1-1/4 COMP FLANGES - 300#		1-1/2 CXC WROT P 90 ELBOW	*
1-1/2 X 6-1/2 COMP FLANGE-300#		2-1/2 FITXC WROT 90 ELBOW	*
2 COMP FLANGE - 300#		1-1/2CX 1-1/4C WROT P 90 ELBOW	*
2-1/2 CAST COMP FLANGE - 300#		2 CXC WROT P 90 ELBOW	*
3 X 8-1/4 COMP FLANGE - 300#		2-1/2 CXC WROT 90 ELBOW	*
4 COMP FLANGE - 300#		3 CXC WROT P 90 ELBOW	*
1 CXM CAST ADAPTER	*	4 CXC WROT P 90 ELBOW	*
1 X 1/2 CXM CAST ADAPTER	*	1/2 CXC WROT 90 VENT ELBOW	*
1 X 1-1/4 CXM CAST ADAPTER	*	3/4 CXC WROT 90 VENT ELBOW	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
1 X 1-1/2 CXM CAST ADAPTER	*	1 CXC WROT 90 VENT ELBOW	*
1-1/2 BLIND COMPANION FLANGE		1/4 CXC (LT) WROT 90 ELBOWS	
2 X 6 BLIND COMPANION FLANGE		3/8 CXC (LT) WROT 90 ELBOW	
3 X 7-1/2 BLIND COMP FLANGE		1/2 CXC (LT) WROT 90 ELBOW	
13-1/2 X 8 BLIND COMPANION FLG		5/8 CXC LT 90 ELBOW	
8 COMP FLANGE 125# SILVER BRZD		3/4 CXC (LT) WROT 90 ELBOW	
3 COMP FLANGE 150# SILVER BRZD		1 CXC (LT) WROT 90 ELBOW	
8 COMP FLANGE 150# SILVER BRZD		1-1/4 CXC (LT) WROT 90 ELBOW	
1-1/4 CXM CAST P ADAPTER	*	1/4 CXFIT LT 90 ELBOW	
1-1/4 X 1/2 CXM CAST ADAPTER	*	3/8 C X FTG LT 90 ELBOWS	
1-1/4 X 1 CXM CAST ADAPT	*	1/2 C X FTG LT 90 ELBOWS	
1-1/2 CXM CAST P ADAPTER	*	5/8 CXFTG LT 90 ELBOW	
1-1/2 X 3/4 CXM CAST ADAPTER	*	3/4 CXFTG LT 90 ELBOW	
2 CXM CAST P ADAPTER	*	1 CXFTG LT 90 ELBOW	
2 X 1-1/2 C X M CAST P ADAPT	*	1-1/4 CXFTG LT 90 ELBOW	
2-1/2 CXM CAST ADAPTER	*	1-1/2 CXFTG LT 90 ELBOW	
3 CXM CAST P ADAPTER	*	2 CXFTG LT 90 ELBOW	
1/2C X 1M X 1/2 FE BOILER CPLG		1-1/2 CXC (LT) WROT 90 ELBOWS	

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
4 CXM CAST ADAPTER	*	2 CXC (LT) WROT 90 ELBOW	
1/2 X 1 X 1/2 CXMXFE CAST BOIL		3/4 X 1/8 FE X 3/4 W BASE TEE	*
1/2 C X M CAST 45 ELBOWS		1/2 X 1/4 FTGXC FL BUSHING	*
3/4 C X M CAST 45 ELBOWS		1/2 X 3/8 FITXC FLUSH BUSHING	*
1-1/4 C X M CAST 45 ELBOWS		5/8 X 3/8 FTGXC FL BUSHING	*
4 CXC CAST 45 ELBOW		3/4 X 1/2 FITXC FLUSH BUSHING	*
6 CXC CAST P 45 ELBOW		1 X 1/2 FITXC FL BUSHING	*
1/2 C X C 90 ELBOW CAST		1 X 3/4 FITXC FLUSH BUSHING	*
1-1/4 CXC CAST P 90 ELBOW		1-1/4X3/4 FTTXC W FL BUSHING	*
1-1/4 X 1/2 CXC CAST 90 ELBOW		1-1/4 X 1 FITXC FLUSH BUSHING	*
1-1/4 X 3/4 CAST 90 ELBOWS		1-1/2 X 1 FTGXC FL BUSHING	*
1-1/4 X 1 CAST 90 ELBOWS		1-1/2 X 1-1/4 FL BUSH FITXC	*
1-1/2 X 1/2 CAST 90 ELBOWS		2 X 1-1/2 FITXC FLUSH BUSHING	*
1-1/2 X 3/4 CXC 90 CAST ELBOW		1 X 1/2 FLUSH FEMALE BUSHING	*
1-1/2 X 1 CXC 90 CAST ELBOW		1-1/4 X 3/4 FLUSH FEMALE BUSHI	*
1/2 CXFE CAST 90 ELBOW		1-1/4 X 1 FITXFE FLUSH FE BUSH	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
1/2 X 3/4 CXFE CAST 90 ELBOW		1-1/2 X 1 FTGXFE FLUSH FE BUSH	*
1/2 X 1 CXFE CAST 90 ELBOW		1/2 CXM FLUSH VALVE WROT ADAPT	*
3/4 CXFE CAST 90 ELBOW		3/4 CXM FLUSH VALVE WROT ADAPT	*
3/4 X 1/2 CXFE CAST 90 ELBOW		1/8 CXCXC WROT TEE	*
3/4 X 1 CXFE CAST 90 ELBOW		1/4 CXCXC WROT TEE	*
1 CXFE CAST 90 ELBOW		3/8 CXCXC WROT TEE	*
1 X 1/2 C X FE 90 ELL CAST		1/2 CXCXC WROT TEE	*
1 X 3/4 CXFE CAST 90 ELBOW		1/2 X 1/2 X 3/4 CXCXC WROT TEE	*
1-1/4 CXFE CAST P 90 ELBOW		3/4 CXCXC WROT TEE	*
1-1/4 X 3/4 CXFE CAST 90 ELBOW		3/4 X 1/2 X 1/2 CXCXC WROT TEE	*
1-1/4 X 1 CXFE CAST 90 ELBOW		3/4 X 1/2 X 3/4 CXCXC WROT TEE	*
1-1/2 CXFE CAST P 90 ELBOW		3/4 X 3/4 X 1/4 WROT P TEE	*
1-1/2 X 1 C X FE CP 90 ELBOWS		3/4C X 3/4C X 3/8C WROT P TEE	*
2 CXFE CAST P 90 ELBOW		3/4 X 3/4 X 1/2 CXCXC WROT TEE	*
3 C X FE CAST 90 ELBOW		1 CXCXC WROT TEE	*
1/2 CXM CAST 90 ELBOW		1 X 1/2 X 1/2 CXCXC WROT TEE	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
1/2 X 3/8 CXM CAST 90 ELBOW		1 X 1/2 X 3/4 CXCXC WROT TEE	*
1/2 X 3/4 CXM CAST 90 ELBOW		1 X 1/2 X 1 CXCXC WROT TEE	*
3/4 CXM CAST 90 ELBOW		1 X 3/4 X 1/2 CXCXC WROT TEE	*
3/4 X 1/2 CXM CAST 90 ELBOW		1 X 3/4 X 3/4 CXCXC WROT TEE	*
3/4 C X 1 M 90 CAST ELBOWS		1 X 3/4 X 1 CXCXC WROT TEE	*
1 CXM CAST 90 ELBOWS		1 X 1 X 3/8 CXCXC WROT TEE	*
1 X 3/4 CXM CAST 90 ELBOW		1 X 1 X 1/2 CXCXC WROT TEE	*
1-1/4 CXM CAST P 90 ELBOW		1 X 1 X 3/4 CXCXC WROT TEE	*
1-1/4 X 1 CXM CAST 90 ELBOWS		1-1/4 CXCXC WROT TEE	*
1-1/2 CXM CAST P 90 ELBOW		1-1/4 X 1/2 X 1/2 WROT TEE	*
2 CXM CAST 90 ELBOW		1-1/4 X 1/2 X 3/4 WROT TEE	*
6 CXC CAST 90 ELBOW		1-1/4 X 1/2 X 1 WROT TEE	*
1/2C X 1/8FE X 1/2C BASE TEE	*	1-1/4 X 1/2 X 1-1/4 WROT TEE	*
1/2C X 1/8FE X 3/4C BASE TEE	*	1-1/4 X 3/4 X 1/2 WROT TEE	*
3/4C X 1/8FE X 3/4C BASE TEE	*	1-1/4 X 3/4 X 3/4 WROT TEE	*
1C X 1/8FE X 1 C BASE TEE	*	1-1/4 X 3/4 X 1 WROT TEE	*
1-1/4C X 1/8FEX1-1/4C BASE TEE	*	1-1/4 X 3/4 X 1-1/4 WROT TEE	*
1 X 1/2 FITXFE FL BUSHING	*	1-1/4 X 1 X 1/2 WROT TEE	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
1-1/4 X 1 FITXFE FLUSH ADAPTER	*	1-1/4 X 1 X 3/4 WROT TEE	*
1 1/2 FITT X 1 FE C FLUSH BUSH	*	1-1/4 X 1 X 1 WROT TEE	*
3/4 CXFTGXC CAST TEE	*	1-1/4 X 1 X 1-1/4 WROT TEE	*
2 X 2 X 3 CXCXC CAST TEE	*	1-1/4 X 1-1/4 X 1/2 WROT TEE	*
2-1/2 X 1/2 X 2-1/2 CAST TEE	*	1-1/4 X 1-1/4 X 3/4 WROT TEE	*
2-1/2 X 1-1/2 X 1-1/2 CAST TEE	*	1-1/4C X 1-1/4C X 1C WROT TEE	*
5 CXCXC CAST TEE	*	1-1/2 CXCXC WROT TEE	*
5 X 5 X 3 CXCXC CAST TEE	*	1-1/2 X 1/2 X 1/2 WROT TEE	*
6 CXCXC CAST TEE	*	1-1/2 X 1/2 X 3/4 WROT TEE	*
1-1/4 CXC WROT DWV COUPLING	*	1-1/2 X 1/2 X 1 CXCXC WROT TEE	*
1-1/2X1-1/4 FITXC W DWV BUSH	*	1-1/2 X 1/2 X 1-1/4 WROT TEES	*
2 X 1-1/4 FITXC WROT DWV BUSH	*	1-1/2 X 1/2 X 1-1/2 WROT TEE	*
2 X 1-1/2 FITXC W DWV BUSH	*	1-1/2 X 3/4 X 1/2 WROT TEE	*
1-1/2 CXC WROT DWV COUPLING	*	1-1/2 X 3/4 X 3/4 WROT TEE	*
1-1/2X 1-1/4 CXC WROT DWV CPLG	*	1-1/2 X 3/4 X 1 WROT TEE	*
3 X 1-1/4 FITXC WROT DWV BUSH	*	1-1/2 X 3/4 X 1-1/4 WROT TEE	*
3 X 1-1/2 FITXC WROT DWV BUSH	*	1-1/2 X 3/4 X 1-1/2 WROT TEE	*
3 X 2 FITXC WROT DWV BUSH	*	1-1/2 X 1 X 1/2 WROT TEE	*
4 X 2 FTGXC DWV BUSHINGS	*	1-1/2 X 1 X 3/4 WROT TEE	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
4 X 3 FTGXC WROT DWV BUSHING	*	1-1/2 X 1 X 1 WROT TEE	*
2 CXC WROT DWV COUPLING	*	1-1/2 X 1 X 1-1/4 WROT TEE	*
2 X 1-1/4 CXC WROT DWV CPLG	*	1-1/2 X 1 X 1-1/2 WROT TEE	*
2 X 1-1/2 CXC WROT DWV CPLG	*	1-1/2 X 1-1/4 X 1/2 WROT TEE	*
3 CXC WROT DWV COUPLING	*	1-1/2 X 1-1/4 X 3/4 WROT TEE	*
3 X 1-1/4 CXC WROT DWV CPLG	*	1-1/2 X 1-1/4 X 1 WROT TEE	*
3 X 1-1/2 CXC WROT DWV CPLG	*	1-1/2 X 1-1/4 X 1-1/4 WROT TEE	*
3 X 2 CXC WROT DWV COUPLING	*	1-1/2 X 1-1/4 X 1-1/2 WROT TEE	*
4 CXC WROT DWV COUPLING	*	1-1/2 X 1-1/2 X 1/2 WROT TEE	*
4 X 1-1/2 CXC WROT DWV CPLGS	*	1-1/2 X 1-1/2 X 3/4 WROT TEE	*
4 X 2 CXC WROT DWV COUPLING	*	1-1/2 X 1-1/2 X 1 WROT TEE	*
4 X 3 CXC WROT DWV COUPLING	*	1-1/2 X 1-1/2 X 1-1/4 WROT TEE	*
6 CXC WROT DWV COUPLING	*	2 CXCXC WROT TEE	*
1-1/4 CXC W DWV CPLGS NO STOP	*	2 X 1/2 X 2 WROT TEE	*
1-1/2 CXC W DWV CPLGS NO STOP	*	2 X 3/4 X 2 WROT TEE	*
2 CXC WROT DWV CPLGS NO STOP	*	2 X 1 X 3/4 WROT TEE	*
3 CXC WROT DWV CPLGS NO STOP	*	2 X 1 X 1 WROT TEE	*
4 CXC WROT DWV CPLGS NO STOP	*	2C X 1C X 1-1/4C WROT TEE	*
1-1/4 CXM WROT DWV TRAP BUSHIN	*	2 X 1 X 1-1/2 WROT PRESS TEE	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
1-1/2 CXM WROT DWV TRAP BUSH	*	2 X 1 X 2 WROT TEE	*
2 CXM WROT DWV TRAP BUSHING	*	2 X 1-1/4 X 1/2 WROT TEE	*
1-1/4 CXFE WROT DWV ADAPTER	*	2 X 1-1/4 X 3/4 WROT TEE	*
1-1/4 X 1-1/2 CXFE WRT DWV ADA	*	2 X 1-1/4 X 1 WROT TEE	*
1-1/4 FTGXFEMALE DWV ADAPTER	*	2 X 1-1/4 X 1-1/4 WROT TEE	*
1-1/2 FTGXFE WROT DWV ADAPTER	*	2 X 1-1/4 X 1-1/2 WROT TEE	*
2 FTGXFEMALE DWV ADAPTER	*	2 X 1-1/4 X 2 WROT TEE	*
1-1/2 CXFE WROT DWV ADAPTER	*	2 X 1-1/2 X 1/2 WROT TEE	*
1-1/2 X 1-1/4 CXFE WROT ADAPT	*	2 X 1-1/2 X 3/4 WROT TEE	*
1-1/2 X 2 CXFE WROT DWV ADAPTE	*	2 X 1-1/2 X 1 WROT TEE	*
3 FITXFE WROT DWV ADAPTER	*	2 X 1-1/2 X 1-1/4 WROT TEE	*
2 C X FE WROT DWV ADAPTER	*	2 X 1-1/2 X 1-1/2 WROT TEE	*
2 X 1-1/2 CXFE WROT DWV ADAPT	*	2 X 1-1/2 X 2 WROT TEE	*
3 C X FE DWV ADAPTER	*	2 X 2 X 1/2 WROT TEE	*
1-1/2 MALE X 1-1/2 OD DWV ADAP	*	2 X 2 X 3/4 WROT TEE	*
1-1/4 CXM WROT DWV ADAPTER	*	2 X 2 X 1 WROT TEE	*
1-1/4X1-1/2 CXM WROT DWV ADAPT	*	2 X 2 X 1-1/4 WROT TEE	*
1-1/2 FTGXM WROT DWV ADAPTER	*	2 X 2 X 1-1/2 WROT TEE	*
2 FTGXM WROT DWV ADAPTER	*	2-1/2 CXCXC WROT TEE	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
1-1/2 CXM WROT DWV ADAPTER	*	2-1/2 X 1/2 X 2-1/2 WROT TEE	*
1-1/2 X 1-1/4 CXM DWV WROT ADA	*	2-1/2 X 3/4 X 1-1/2 WROT TEE	*
1-1/2 X 2 CXM WROT DWV ADAPTER	*	2-1/2 X 3/4 X 2-1/2 WROT TEE	*
2 CXM WROT DWV ADAPTER	*	2-1/2 X 1 X 1-1/4 WROT TEE	*
2 X 1-1/2 CXM WROT DWV ADAPTER	*	2-1/2 X 1 X 1-1/2 WROT TEE	*
3 CXM WROT DWV ADAPTER	*	2-1/2 X 1 X 2 WROT TEE	*
4 CXM WROT DWV ADAPTER	*	2-1/2 X 1 X 2-1/2 WROT TEE	*
1-1/4 CXM DWV FL TRAP ADAPTER	*	2-1/2 X 1-1/4 X 1-1/4CXCXC TEE	*
1-1/2 CXM DWV FL TRAP ADAPTER	*	2-1/2 X 1-1/4 X 1-1/2 WROT TEE	*
2 CXM DWV FL TRAP ADAPTER	*	2-1/2 X 1-1/4 X 2 WROT TEE	*
1-1/2 CXMALE DWV SCULLY BUSHIN	*	2-1/2 X 1-1/4 X 2-1/2 WROT TEE	*
2 CXMALE DWV SCULLY BUSHING	*	2-1/2 X 1-1/2 X 1 WROT TEE	*
2 C X MJ WROT DWV ADAPTER	*	2-1/2 X 1-1/2 X 1-1/4 WROT TEE	*
1-1/4 WROT DWV CXFTG 45 ELBOW	*	2-1/2 X 1-1/2 X 1-1/2 WROT TEE	*
1-1/2 FTGX C WROT DWV 45 ELBOW	*	2-1/2 X 1-1/2 X 2 WROT TEE	*
2 FTGX C WROT DWV 45 ELBOW	*	2-1/2 X 1-1/2 X 2-1/2 WROT TEE	*
3 C X FTG WROT DWV 45 ELBOW	*	2-1/2 X 2 X 1/2 WROT TEE	*
1-1/4 CXC 45 WROT DWV ELBOW	*	2-1/2 X 2 X 3/4 WROT TEE	*
1-1/2 CXC 45 WROT DWV ELBOW	*	2-1/2 X 2 X 1 WROT TEE	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
2 CXC 45 WROT DWV ELBOW	*	2-1/2 X 2 X 1-1/4 WROT TEE	*
3 CXC 45 WROT DWV ELBOW	*	2-1/2 X 2 X 1-1/2 WROT TEE	*
1-1/4 CXC 90 WROT DWV ELBOW	*	2-1/2 X 2 X 2 WROT TEE	*
1-1/4 FITXC 90 WROT DWV ELBOW	*	2-1/2 X 2 X 2-1/2 WROT TEE	*
1-1/2 FITXC 90 WROT DWV ELBOW	*	2-1/2 X 2-1/2 X 1/2 WROT TEE	*
2 FITXC 90 WROT DWV ELBOW	*	2-1/2 X 2-1/2 X 3/4 WROT TEE	*
1-1/2 CXC 90 WROT DWV ELBOW	*	2-1/2 X 2-1/2 X 1 WROT TEE	*
2 CXC 90 WROT DWV ELBOW	*	2-1/2 X 2-1/2 X 1-1/4 WROT TEE	*
3 CXC 90 WROT DWV ELBOW	*	2-1/2 X 2-1/2 X 1-1/2 WROT TEE	*
1-1/2 CXC 90 LT WROT DWV ELBOW	*	2-1/2 X 2-1/2 X 2 WROT TEE	*
2 CXC 90 LT WROT DWV ELBOW	*	3 CXCXC WROT TEE	*
1-1/4 WROT TUBE END CLEANOUTS	*	3 X 3/4 X 3 WROT TEE	*
1-1/2 WROT TUBE END CLEANOUTS	*	3 X 1 X 3 WROT TEE	*
2 WROT TUBE END CLEANOUTS	*	3 X 1-1/4 X 3 WROT TEE	*
3 WROT TUBE END CLEANOUTS	*	3 X 1-1/2 X 1-1/4 WROT TEE	*
1-1/4 FLUSH FTG CLEANOUT	*	3 X 1-1/2 X 1-1/2 WROT TEE	*
1-1/2 FTG CLEANOUT-FLUSH TYPE	*	3 X 1-1/2 X 2-1/2 WROT TEE	*
1-1/2 X 1 FTG CLEANOUT - FLUSH	*	3 X 1-1/2 X 3 WROT TEE	*
2 FTG CLEANOUT-FLUSH TYPE	*	3 X 2 X 1/2 CXCXC WROT TEE	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
1-1/4 FTG CLEANOUT FULL PLUG	*	3 X 2 X 1 WROT TEE	*
1-1/2 FTG CLEANOUT FULL PLUG	*	3 X 2 X 1-1/4 WROT TEE	*
2 FTG CLEANOUT FULL PLUG	*	3 X 2 X 1-1/2 WROT TEE	*
1-1/4 FE X SJ WROT DWV ADAPTER	*	3 X 2 X 2 WROT TEE	*
1-1/2 FE X SJ WROT DWV ADAPTER	*	3 X 2 X 2-1/2 WROT TEE	*
1-1/2 X 1-1/4 FE X SJ DWV ADAPT	*	3 X 2 X 3 WROT TEE	*
1-1/4 FTG X SJ WROT ADAPTER	*	3 X 2-1/2 X 3/4 WROT TEE	*
1-1/2 FTG X SJ WROT ADAPTER	*	3 X 2-1/2 X 1 WROT TEE	*
1-1/2 X 1-1/4 FTG X SJ ADAPTER	*	3 X 2-1/2 X 1-1/4 WROT TEE	*
1-1/4 M X SJ DWV ADAPTER	*	3 X 2-1/2 X 1-1/2 WROT TEE	*
1-1/2 M X SJ DWV WROT ADAPTER	*	3 X 2-1/2 X 2 WROT TEE	*
1-1/2 X 1-1/4 M X SJ DWV ADAPT	*	3 X 2-1/2 X 2-1/2 WROT TEE	*
1-1/4 C X SJ WROT ADAPTER	*	3 X 2-1/2 X 3 WROT TEE	*
1-1/4 X 1-1/2 CXSJ WROT CPLG	*	3 X 3 X 1/2 WROT TEE	*
1-1/2 C X SJ WROT ADAPTER	*	3 X 3 X 3/4 WROT TEE	*
1-1/2 X 1-1/4 CXSJ WROT ADAPTE	*	3 X 3 X 1 WROT TEE	*
2 C X SJ WROT ADAPTER	*	3 X 3 X 1-1/4 WROT TEE	*
1/8 CXC WROT PRESS COUPLINGS	*	3 X 3 X 1-1/2 WROT TEE	*
1/4 CXC WROT PRESS COUPLINGS	*	3 X 3 X 2 WROT TEE	*

Subject Copper Pipe Fittings	Cast & Wrot	Subject Copper Pipe Fittings	Cast & Wrot
1/4 X 1/8 CXC WROT COUPLING	*	3 X 3 X 2-1/2 WROT TEE	*
3/8 CXC WROT PRESS COUPLING	*	4 CXCXC WROT TEE	*
3/8 X 1/4 CXC WROT COUPLING	*	4 X 1-1/2 X 3 WROT TEE	*
1/2 CXC WROT COUPLING	*	4 X 2 X 2 WROT TEE	*
1/2 X 1/8 CXC WROT COUPLING	*	4 X 2 X 3 WROT TEE	*
1/2 X 1/4 CXC WROT COUPLING	*	4 X 2-1/2 X 2-1/2 WROT TEE	*
1/2 X 3/8 CXC WROT COUPLING	*	4 X 2-1/2 X 3 WROT TEE	*
5/8 CXC WROT COUPLING	*	4 X 3 X 2 WROT TEE	*
5/8 X 1/4 CXC WROT COUPLING	*	4 X 3 X 2-1/2 WROT TEE	*
5/8 X 3/8 CXC WROT CPLGS	*	4 X 3 X 3 WROT TEE	*
5/8 X 1/2 CXC WROT COUPLING	*	4 X 4 X 1/2 WROT TEE	*
3/4 CXC WROT COUPLING	*	4 X 4 X 3/4 WROT TEE	*
3/4 X 1/4 CXC WROT COUPLING	*	4 X 4 X 1 WROT TEE	*
3/4 X 3/8 CXC WROT COUPLING	*	4 X 4 X 1-1/4 WROT TEE	*
3/4 X 1/2 CXC WROT COUPLING	*	4 X 4 X 1-1/2 WROT TEE	*
3/4 X 5/8 CXC WROT COUPLING	*	4 X 4 X 2 WROT TEE	*
1 CXC WROT COUPLING	*	4 X 4 X 2-1/2 WROT TEE	*
1 X 3/8 CXC WROT COUPLINGS	*	4 X 4 X 3 WROT TEE	*
1 X 1/2 CXC WROT COUPLING	*	5 X 5 X 2 CXCXC WROT TEE	*