



Montréal, 23 MAI 2020

MME TANYA FRANCIS  
TECHNICAL STANDARDS & SAFETY AUTHORITY  
345 CARLINGVIEW DRIVE  
TORONTO, ON  
CANADA M9W 6N9

Fabricant : PEGLAR YORKSHIRE SAS  
46 RUE DE L'INDUSTRIE  
ST DENIS DE L'HOTEL  
France 45550

Numéro de dossier : 951142

Numéro(s) de dessin (s) : LIST OF FITTINGS CATEGORY A (13 PAGES)

**Objet : Enregistrement des plans et devis – Confirmation de l'enregistrement**

Madame,

La Régie du bâtiment du Québec (RBQ) vous informe que votre demande d'enregistrements de plans et devis a été traitée et que cette conception a été enregistrée sous le numéro d'enregistrement canadien (NEC\CRN) :0A15729.56

Nous portons à votre attention cette exigence applicable à la réglementation sur les appareils sous pression et des codes et normes qui y sont associés :

- Le constructeur doit maintenir un système de contrôle de la qualité valide pour fabriquer selon ce NEC.

Le présent avis d'approbation ne dégage pas le constructeur de ses responsabilités quant à la conception ou à la construction des équipements fabriqués selon ce NEC.

Salutations distinguées,

Bureau d'expertise et d'homologation en équipements sous pression

**Montréal**

545, boul. Crémazie Est, 7<sup>e</sup> étage  
Montréal (Québec) H2M 2V2  
Téléphone : 514 873-6459  
Sans frais : 1 866 262-2084  
[www.rbq.gouv.qc.ca](http://www.rbq.gouv.qc.ca)



MONTREAL, MAY 23, 2020

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Manufacturer : PEGLAR YORKSHIRE SAS  
46 RUE DE L'INDUSTRIE  
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France 45550

Our reference : 951142  
Design number : LIST OF FITTINGS CATEGORY A (13 PAGES)

**Subject: Registration of designs – Confirmation of approval**

Dear Madam,

The Régie du bâtiment du Québec (RBQ) informs you that your application for the registration of designs has been evaluated and that the design was registered under the Canadian Registration Number (CRN\NEC) :0A15729.56

We bring your attention this requirement of the regulation respecting pressure vessels, and the codes and standards adopted :

- The manufacturer must maintain a valid quality control program to produce according to the CRN.

This notice of approval does not relieve the constructor of his responsibilities with respect to the design or construction of equipment manufactured according to this CRN.

Yours sincerely,

Bureau d'expertise et d'homologation en équipements sous pression

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## Statutory Declaration Registration of Fittings

**(a) Design Qualification**



I BERTRAND GUILLET  
(Name of applicant)

PLANT DIRECTOR  
(Position eg, president, plant manager, chief eng.)

of PEGLER YORKSHIRE  
(name of company)

Located at SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX  
(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act:

- comply with all the requirements of the ANSI/ASME codes as to their dimensions, material, identification & service for which are required:
- Or
- are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with \_\_\_\_\_ code and standard, and are designed to the best current engineering practice, as shown by the supporting test data.

**(b) Quality control of Manufacture**

I further declare the manufacture of these fittings is controlled by a quality control program which complies with the requirements of ISO 9001:2015, and has been verified by the following authority or authorized agency bsi

The fittings<sup>2</sup> covered by this declaration, for which I seek registration, are CATEGORY A

In support of the application, the following information, calculations and/or test data are attached:  
DESIGN CERTIFICATION, APOLLOXPRESS CATALOG AXCAT 8/12 6000 CG PAGES 42 TO 54, ATTACHMENT #1

Declared before me at JARGEAU

In the of COUNTRY of FRANCE

The 21<sup>st</sup> day of NOVEMBER AD 2019

Me Frédéric RYDZYNSKI  
A (commissioner for oaths)



*(Signature of Declarer)*

**For Official Use Only**

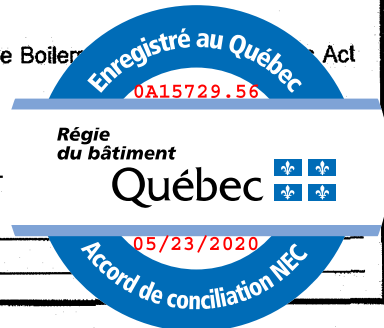
The application is accepted for registration in Category \_\_\_\_\_ in accordance with the Boiler and Pressure Vessels Act and CSA Standard B51.

This registration must be revalidated after ten (10) years from the date of acceptance.

Registered Number CRN \_\_\_\_\_

For the Chief Inspector \_\_\_\_\_

Date \_\_\_\_\_



<sup>1</sup> Three completed copies of Statutory Declaration form together with three copies of Catalogs, drawings of Bulletins illustrating above fittings shall be submitted.  
<sup>2</sup> All fittings are required to be registered in the name of the Manufacturer.  
<sup>3</sup> This form shall be completed and signed by the president of highest official in the manufacturing plant where the fitting is produced.



## WORLDWIDE LOCATIONS APPENDIX

### **PEGLER YORKSHIRE MANUFACTURING LOCATIONS & CERTIFYING AUTHORITIES**

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(rev. November 16, 2019)

#### **Pegler Yorkshire Group Limited**

Belmont Works  
St. Catherines Avenue  
Doncaster  
DN4 8DF  
United Kingdom  
**ISO 9001 Certified by bsi**

#### **Pegler SDH**

46. rue de l'Industrie  
Saint Denis de l'Hotel  
45550  
France  
**ISO 9001 Certified by bsi**

#### **Yorkshire Fittings**

Gyarto Kft  
Maglodi ut 16  
Budapest  
H-1106  
Hungary  
**ISO 9001 Certified by bsi**





# APOLLOXPRESS CRN REGISTRATION

29-Nov-12

## Attachment #1 - List of Fittings - Category A

### COUPLING WITH STOP - 800 SERIES

**Design Code: ASME B16.51**  
**Pressure Rating: 200 psig at 200 °F**  
**ASME B16.51 Figure 1(c) P x P and Table I-1**  
**Typical Manufacturing Drawing: 800-8-AA**

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
10075036	800 1/2 CxC CPLG W/ST	Wrought Copper Alloys	800-8-AA / 42
10075038	800 3/4 CxC CPLG W/ST	Wrought Copper Alloys	42
10075040	800 1 CxC CPLG W/ST	Wrought Copper Alloys	42
10075138	800 1-1/4 CxC CPLG W/ST	Wrought Copper Alloys	42
10075140	800 1-1/2 CxC CPLG W/ST	Wrought Copper Alloys	42
10075142	800 2 CxC CPLG W/ST	Wrought Copper Alloys	42
10061947	800 2-1/2 CxC CPLG W/ST	Wrought Copper Alloys	42
10061952	800 3 CxC CPLG W/ST	Wrought Copper Alloys	42
10061957	800 4 CxC CPLG W/ST	Wrought Copper Alloys	42

### COUPLING WITHOUT STOP - 801 SERIES

**Design Code: ASME B16.51**  
**Pressure Rating: 200 psig at 200 °F**  
**ASME B16.51 Figure 1(c) P and Table I-1**  
**Typical Manufacturing Drawing: 801S-8**

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
10075030	801 1/2 CxC CPLG W/O ST	Wrought Copper Alloys	801S-8 / 42
10075032	801 3/4 CxC CPLG W/O ST	Wrought Copper Alloys	42
10075034	801 1 CxC CPLG W/O ST	Wrought Copper Alloys	42
10075132	801 1-1/4 CxC CPLG W/O ST	Wrought Copper Alloys	42
10075134	801 1-1/2 CxC CPLG W/O ST	Wrought Copper Alloys	42
10075136	801 2 CxC CPLG W/O ST	Wrought Copper Alloys	42
10061932	801 2-1/2 CxC CPLG W/O ST	Wrought Copper Alloys	42
10061937	801 3 CxC CPLG W/O ST	Wrought Copper Alloys	42
10061942	801 4 CxC CPLG W/O ST	Wrought Copper Alloys	42

### REDUCER COUPLING - 801R SERIES

**Design Code: ASME B16.51**  
**Pressure Rating: 200 psig at 200 °F**  
**ASME B16.51 Figure 1(c) P x P and Table I-1**  
**Typical Manufacturing Drawing: 801R-128**

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
10075190	800R 3/4 X 1/2 CxC CPLG	Wrought Copper Alloys	801R-128 / 42
10075144	800R 1 X 1/2 CxC CPLG	Wrought Copper Alloys	42

10075192	800R 1 X 3/4 CxC CPLG	Wrought Copper Alloys	42
10066073	800R 1-1/4 X 1/2 CxC CPLG	Wrought Copper Alloys	42
10066001	800R 1-1/4 X 3/4 CxC CPLG	Wrought Copper Alloys	42
10075194	800R 1-1/4 X 1 CxC CPLG	Wrought Copper Alloys	42
10066380	800R 1-1/2 X 1/2 CxC CPLG	Wrought Copper Alloys	42
10066381	800R 1-1/2 X 3/4 CxC CPLG	Wrought Copper Alloys	42
10066003	800R 1-1/2 X 1 CxC CPLG	Wrought Copper Alloys	42
10075128	800R 1-1/2 X 1-1/4 CxC CPLG	Wrought Copper Alloys	42
10066082	800R 2 X 1/2 CxC CPLG	Wrought Copper Alloys	42
10066398	800R 2 X 3/4 CxC CPLG	Wrought Copper Alloys	42
10066005	800R 2 X 1 CxC CPLG	Wrought Copper Alloys	42
10066072	800R 2 X 1-1/4 CxC CPLG	Wrought Copper Alloys	42
10075130	800R 2 X 1-1/2 CxC CPLG	Wrought Copper Alloys	42
10066078	800R 2-1/2 X 1 CxC CPLG	Wrought Copper Alloys	42
10066103	800R 2-1/2 X 1-1/4 CxC CPLG	Wrought Copper Alloys	42
10066086	800R 2-1/2 X 1-1/2 CxC CPLG	Wrought Copper Alloys	42
10066074	800R 2-1/2 X 2 CxC CPLG	Wrought Copper Alloys	42
10066124	800R 3 X 3/4 CxC CPLG	Wrought Copper Alloys	42
10066087	800R 3 X 1-1/2 CxC CPLG	Wrought Copper Alloys	42
10066075	800R 3 X 2 CxC CPLG	Wrought Copper Alloys	42
10066076	800R 3 X 2-1/2 CxC CPLG	Wrought Copper Alloys	42
10066088	800R 4 X 2 CxC CPLG	Wrought Copper Alloys	42
10066151	800R 4 X 2-1/2 CxC CPLG	Wrought Copper Alloys	42
10066152	800R 4 X 3 CxC CPLG	Wrought Copper Alloys	42

### EXTENDED LENGTH COUPLING WITHOUT STOP - 801 SERIES

Design Code: ASME B16.51

Pressure Rating: 200 psig at 200° F

ASME B16.51 Figure 1(c) P and Table I-1

Typical Manufacturing Drawing: 801S-8

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
10075030	801 1/2 C x C	Wrought Copper Alloys	801S-8 / 43
10075032	801 3/4 C x C	Wrought Copper Alloys	43
10075034	801 1 C x C	Wrought Copper Alloys	43
10075521	801 1-1/4 C x C	Wrought Copper Alloys	43
10075523	801 1-1/2 C x C	Wrought Copper Alloys	43
10075527	801 2 C x C	Wrought Copper Alloys	43

### FEMALE ADAPTER - 803 SERIES

Design Code: ASME B16.51

Pressure Rating: 200 psig at 200° F

ASME B16.51 Figure 1(a) P x F and Table I-1

Typical Manufacturing Drawing: 803-8, 803R-86

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
<b>Female Adapters</b>			
10075200	803 1/2 C X F ADAPT	Wrought Copper Alloys	803-8 / 43
10075206	803 3/4 C X F ADAPT	Wrought Copper Alloys	43

10075212	803 1 C X F ADAPT	Wrought Copper Alloys	43
10075218	803 1-1/4 C X F ADAPT	Wrought Copper Alloys	43
10075226	803 1-1/2 C X F ADAPT	Wrought Copper Alloys	43
10075228	803 1-1/2 C X F ADAPT	Wrought Copper Alloys	43
<b>Female Reducing Adapters</b>			
10075196	803R 1/2 x 3/8 C X F ADAPT	Wrought Copper Alloys	803R-86 / 43
10075202	803R 1/2 x 3/8 C X F ADAPT	Wrought Copper Alloys	43
10075204	803R 1/2 x 3/4 C X F ADAPT	Wrought Copper Alloys	43
10075208	803R 1 x 1/2 C X F ADAPT	Wrought Copper Alloys	43
10075210	803R 1 x 3/4 C X F ADAPT	Wrought Copper Alloys	43
10075214	803R 1 x 1-1/4 C X F ADAPT	Wrought Copper Alloys	43
10075217	803R 1-1/4 x 1/2 C X F ADAPT	Wrought Copper Alloys	43
10075216	803R 1-1/4 x 1 C X F ADAPT	Wrought Copper Alloys	43
10075220	803R 1-1/4 x 1-1/2 C X F ADAPT	Wrought Copper Alloys	43
10075222	803R 1-1/2 x 3/4 C X F ADAPT	Wrought Copper Alloys	43
10075224	803R 1-1/2 x 1-1/4 C X F ADAPT	Wrought Copper Alloys	43

### FEMALE STREET ADAPTER - 803-2 SERIES

**Design Code: ASME B16.22**

**Pressure Rating: 200 psig at 200 °F minimum. See Table III of ASME B16.22.**

**ASME B16.22 Figure 1 FTG x F Adapter and Table II3.**

**Typical Manufacturing Drawing: 803-2-8, 803R-2-86**

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
<b>Female Street Adapters</b>			
10075260	803-2 1/2 FTG x F ADAPT	Wrought Copper Alloys	803-2-8 / 43
10075266	803-2 3/4 FTG x F ADAPT	Wrought Copper Alloys	43
10075268	803-2 1 FTG x F ADAPT	Wrought Copper Alloys	43
10075270	803-2 1-1/4 FTG x F ADAPT	Wrought Copper Alloys	43
10075272	803-2 1-1/2 FTG x F ADAPT	Wrought Copper Alloys	43
10075274	803-2 1-1/2 FTG x F ADAPT	Wrought Copper Alloys	43
<b>Female Reducing Street Adapters</b>			
10075258	803-2 1/2 x 3/8 FTG x F ADAPT	Wrought Copper Alloys	803R-2-86 / 43
10075262	803-2 1/2 x 3/4 FTG x F ADAPT	Wrought Copper Alloys	43
10075264	803-2 3/4 x 1/2 FTG x F ADAPT	Wrought Copper Alloys	43
10075267	803-2 1 x 1/2 FTG x F ADAPT	Wrought Copper Alloys	43
10075271	803-2 1-1/4 x 1/2 FTG x F ADAPT	Wrought Copper Alloys	43

### MALE ADAPTER - 804 SERIES

**Design Code: ASME B16.51**

**Pressure Rating: 200 psig at 200 °F**

**ASME B16.51 Figure 1(a) P x M and Table I-1**

**Typical Manufacturing Drawing: 804-8, 804R-86**

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
<b>Male Adapters</b>			
10075232	804 1/2 C X M ADAPT	Wrought Copper Alloys	804-8 / 44
10075238	804 3/4 C X M ADAPT	Wrought Copper Alloys	44
10075242	804 1 C X M ADAPT	Wrought Copper Alloys	44

10075248	804 1-1/4 C X M ADAPT	Wrought Copper Alloys	44
10075254	804 1-1/2 C X M ADAPT	Wrought Copper Alloys	44
10075256	804 2 C X M ADAPT	Wrought Copper Alloys	44
10061982	804 2-1/2 C X M ADAPT	Wrought Copper Alloys	44
10061987	804 3 C X M ADAPT	Wrought Copper Alloys	44
10061992	804 4 C X M ADAPT	Wrought Copper Alloys	44
Male Reducing Adapters			
10075230	804R 1/2 x 3/8 C X M ADAPT	Wrought Copper Alloys	804R-86 / 44
10075234	804R 1/2 x 3/4 C X M ADAPT	Wrought Copper Alloys	44
10075236	804R 3/4 x 1/2 C X M ADAPT	Wrought Copper Alloys	44
10075237	804R 3/4 x 1 C X M ADAPT	Wrought Copper Alloys	44
10075240	804R 1 x 3/4 C X M ADAPT	Wrought Copper Alloys	44
10075244	804R 1 x 1-1/4 C X M ADAPT	Wrought Copper Alloys	44
10075246	804R 1-1/4 x 1 C X M ADAPT	Wrought Copper Alloys	44
10075250	804R 1-1/4 x 1-1/2 C X M ADAPT	Wrought Copper Alloys	44
10075252	804R 1-1/2 x 1-1/4 C X M ADAPT	Wrought Copper Alloys	44
10075253	804R 1-1/4 x 2 C X M ADAPT	Wrought Copper Alloys	44
10075257	804R 2 x 1-1/2 C X M ADAPT	Wrought Copper Alloys	44

### MALE STREET ADAPTER - 804-2 SERIES

**Design Code: ASME B16.22**

**Pressure Rating: 200 psig at 200 ° F minimum. See Table II1 of ASME B16.22.**

**ASME B16.22 Figure 1 FTG x M Adapter and Table II3.**

**Typical Manufacturing Drawing: 804-2-8, 803R-2-86**

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
Male Street Adapters			
10075280	804-2 1/2 FTG x M ADAPT	Wrought Copper Alloys	803-2-8 / 44
10075286	804-2 3/4 FTG x M ADAPT	Wrought Copper Alloys	44
10075288	804-2 1 FTG x M ADAPT	Wrought Copper Alloys	44
10075290	804-2 1-1/4 FTG x M ADAPT	Wrought Copper Alloys	44
10075292	804-2 1-1/2 FTG x M ADAPT	Wrought Copper Alloys	44
10075294	804-2 2 FTG x M ADAPT	Wrought Copper Alloys	44
Male Reducing Street Adapters			
10075278	804-2 1/2 x 3/8 FTG x M ADAPT	Wrought Copper Alloys	803R-2-86 / 44
10075282	804-2 1/2 x 3/4 FTG x M ADAPT	Wrought Copper Alloys	44
10075284	804-2 3/4 x 1/2 FTG x M ADAPT	Wrought Copper Alloys	44
10075289	804-2 1 x 3/4 FTG x M ADAPT	Wrought Copper Alloys	44

### 45 DEGREE ELBOW - 806 SERIES

**Design Code: ASME B16.51**

**Pressure Rating: 200 psig at 200 ° F**

**ASME B16.51 Figure 1(e) P x P and Table I-1**

**Typical Manufacturing Drawing: 806-8**

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
10075060	806 1/2 C X C 45 EL	Wrought Copper Alloys	806-8 / 44
10075062	806 3/4 C X C 45 EL	Wrought Copper Alloys	44
10075064	806 1 C X C 45 EL	Wrought Copper Alloys	44



10075090	806 1-1/4 C X C 45 EL	Wrought Copper Alloys	44
10075092	806 1-1/2 C X C 45 EL	Wrought Copper Alloys	44
10075094	806 2 C X C 45 EL	Wrought Copper Alloys	44
10075052	806 2-1/2 C X C 45 EL	Wrought Copper Alloys	44
10075057	806 3 C X C 45 EL	Wrought Copper Alloys	44
10075062	806 4 C X C 45 EL	Wrought Copper Alloys	44

### 45 DEGREE STREET ELBOW - 806-2 SERIES

Design Code: ASME B16.51

Pressure Rating: 200 psig at 200 °F

ASME B16.51 Figure 1(e) FTG x P and Table I-1

Typical Manufacturing Drawing: 806-2-8-AA

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
10075054	806-2 1/2 FTG x C 45 ST EL	Wrought Copper Alloys	806-2-8-AA / 45
10075056	806-2 3/4 FTG x C 45 ST EL	Wrought Copper Alloys	45
10075058	806-2 1 FTG x C 45 ST EL	Wrought Copper Alloys	45
10075084	806-2 1-1/4 FTG x C 45 ST EL	Wrought Copper Alloys	45
10075086	806-2 1-1/2 FTG x C 45 ST EL	Wrought Copper Alloys	45
10075088	806-2 2 FTG x C 45 ST EL	Wrought Copper Alloys	45
10062037	806-2 2-1/2 FTG x C 45 ST EL	Wrought Copper Alloys	45
10062042	806-2 3 FTG x C 45 ST EL	Wrought Copper Alloys	45
10062047	806-2 4 FTG x C 45 ST EL	Wrought Copper Alloys	45

### 90 DEGREE ELBOW - 807 SERIES

Design Code: ASME B16.51

Pressure Rating: 200 psig at 200 °F

ASME B16.51 Figure 1(f) P x P, Figure 1(g) P x P and Table I-1

Typical Manufacturing Drawing: 807-8

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
<b>90 Degree Elbow</b>			
10075048	807-1/2 C x C 90 EL	Wrought Copper Alloys	807-8 / 45
10075050	807-3/4 C x C 90 EL	Wrought Copper Alloys	45
10075052	807-1 C x C 90 EL	Wrought Copper Alloys	45
10075078	807-1-1/4 C x C 90 EL	Wrought Copper Alloys	45
10075080	807-1-1/2 C x C 90 EL	Wrought Copper Alloys	45
10075082	807-2 C x C 90 EL	Wrought Copper Alloys	45
<b>Reducing Elbow</b>			
10066101	807-3/4 x 1/2 C x C 90 EL	Wrought Copper Alloys	45
10066099	807-1 x 1/2 C x C 90 EL	Wrought Copper Alloys	45
10066083	807-1 x 3/4 C x C 90 EL	Wrought Copper Alloys	45
<b>Close Turn Elbow - Large Diameter</b>			
10062021	807-C 2-1/2 C x C 90 EL	Wrought Copper Alloys	45
10062027	807-C 3 C x C 90 EL	Wrought Copper Alloys	45
10062032	807-C 4 C x C 90 EL	Wrought Copper Alloys	45
<b>Close Turn Reducing Elbow - Large Diameter</b>			
10066168	807 3x2 C x C 90 EL	Wrought Copper Alloys	45
10066141	807 3x2-1/2 C x C 90 EL	Wrought Copper Alloys	45

Long Turn Elbow - Large Diameter			
10062066	807-L 2-1/2 C x C 90 EL	Wrought Copper Alloys	45
10062067	807-L 3 C x C 90 EL	Wrought Copper Alloys	45
10062069	807-L 4 C x C 90 EL	Wrought Copper Alloys	45

### 90 DEGREE STREET ELBOW - 807-2 SERIES

Design Code: ASME B16.51

Pressure Rating: 200 psig at 200 ° F

ASME B16.51 Figure 1(f) FTG x P, Figure 1(g) FTG x P and Table I-1

Typical Manufacturing Drawing: 807-2-8

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
<b>90 Degree Elbow</b>			
10075042	807-2 1/2 FTG x C 90 ST EL	Wrought Copper Alloys	807-2-8 / 46
10075044	807-2 3/4 FTG x C 90 ST EL	Wrought Copper Alloys	46
10075046	807-2 1 FTG x C 90 ST EL	Wrought Copper Alloys	46
10075072	807-2 1-1/4 FTG x C 90 ST EL	Wrought Copper Alloys	46
10075074	807-2 1-1/2 FTG x C 90 ST EL	Wrought Copper Alloys	46
10075076	807-2 2 FTG x C 90 ST EL	Wrought Copper Alloys	46
<b>Close Turn Street Elbow - Large Diameter Copper</b>			
10062007	807-C-2 2-1/2 FTG X C 90 EL	Wrought Copper Alloys	46
10062012	807-C-2 3 FTG X C 90 EL	Wrought Copper Alloys	46
10062017	807-C-2 4 FTG X C 90 EL	Wrought Copper Alloys	46
<b>Long Turn Street Elbow - Large Diameter Copper</b>			
10062071	807-L-2 2-1/2 FTG X C 90 EL	Wrought Copper Alloys	46
10062073	807-L-2 3 FTG X C 90 EL	Wrought Copper Alloys	46
10062074	807-L-2 4 FTG X C 90 EL	Wrought Copper Alloys	46

### 90 DEGREE FEMALE ELBOW - 8707-3-2 SERIES

Design Code: ASME B16.51, B16.22

Pressure Rating: 200 psig at 200 ° F

ASME B16.51 Figure 1(f) P x P, Figure 1(g) P x P and Table I-1

ASME B16.22 Figure 1 FTG x F Adapter and Table II3.

Typical Manufacturing: 807 Series Elbow with 803-2 Series Female Street Adapter Attached

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
<b>90 Degree Male Elbow</b>			
10066418	8707-3-2 1/2 FTG x F 90 EL	Wrought Copper Alloys	46

### 90 DEGREE DROP EAR ELBOW - 8707-3-5 SERIES

Design Code: ASME B16.51, B16.22

Pressure Rating: 200 psig at 200 ° F

ASME B16.51 Figure 1(b) FTG X P and Table I-1

ASME B16.22 Figure 1 C x F Short Radius Elbow and Table II3.

Typical Manufacturing: C x F Short Radius Elbow with 818 Series fitting Reducer Attached

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
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<b>90 Degree Drop ear Elbow</b>			
10075366	8707-3-5 1/2 C X F 90 DRP EAR EL	Wrought Copper Alloys	46
10075368	8707-3-5 3/4 C X F 90 DRP EAR EL	Wrought Copper Alloys	46
10075369	8707-3-5 1 C X F 90 DRP EAR EL	Wrought Copper Alloys	46
<b>Reducing Drop Ear Elbow</b>			
10075367	8707-3-5 1/2 x 3/8 C X F 90 DRP EAR EL	Wrought Copper Alloys	46

### **90 DEGREE FEMALE ELBOW - 8707-3 SERIES**

**Design Code: ASME B16.51, B16.22**

**Pressure Rating: 200 psig at 200 ° F**

**ASME B16.51 Figure 1(f) P x P, Figure 1(g) P x P and Table I-1**

**ASME B16.22 Figure 1 FTG x F Adapter and Table II3.**

**Typical Manufacturing: 807 Series Elbow with 803-2 Series Female Street Adapter Attached**

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
<b>90 Degree Female Elbow</b>			
10066133	8707-3 1/2 C X F 90 EL	Wrought Copper Alloys	47
10066412	8707-3 3/4 C X F 90 EL	Wrought Copper Alloys	47
10066414	8707-3 1 C X F 90 EL	Wrought Copper Alloys	47
10066415	8707-3 1-1/4 C X F 90 EL	Wrought Copper Alloys	47
10066416	8707-3 1-1/2 C X F 90 EL	Wrought Copper Alloys	47
10066417	8707-3 2 C X F 90 EL	Wrought Copper Alloys	47
<b>90 Degree Reducing Female Elbow</b>			
10066166	8707-3 1/2 x 3/8 C X F 90 EL	Wrought Copper Alloys	47
10066411	8707-3 1/2 x 3/4 C X F 90 EL	Wrought Copper Alloys	47
10066413	8707-3 3/4 x 1/2 C X F 90 EL	Wrought Copper Alloys	47
10066167	8707-3 1 x 1/2 C X F 90 EL	Wrought Copper Alloys	47

### **90 DEGREE MALE ELBOW - 8707-4 SERIES**

**Design Code: ASME B16.51, B16.22**

**Pressure Rating: 200 psig at 200 ° F**

**ASME B16.51 Figure 1(f) P x P, Figure 1(g) P x P and Table I-1**

**ASME B16.22 Figure 1 FTG x M Adapter and Table II3.**

**Typical Manufacturing: 807 Series Elbow with 804-2 Series Male Street Adapter Attached**

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
<b>90 Degree Male Elbow</b>			
10066134	8707-4 1/2 C X M 90 EL	Wrought Copper Alloys	47
10066421	8707-4 3/4 C X M 90 EL	Wrought Copper Alloys	47
10066134	8707-4 1 C X M 90 EL	Wrought Copper Alloys	47
10066134	8707-4 1-1/4 C X M 90 EL	Wrought Copper Alloys	47
10066134	8707-4 1-1/2 C X M 90 EL	Wrought Copper Alloys	47
10066134	8707-4 2 C X M 90 EL	Wrought Copper Alloys	47
<b>90 Degree Reducing Female Elbow</b>			
10066420	8707-4 1/2 x 3/4 C X F 90 EL	Wrought Copper Alloys	47
10066411	8707-4 3/4 x 1/2 C X F 90 EL	Wrought Copper Alloys	47

### **REDUCING OUTLET TEE - 811 SERIES**

**Design Code: ASME B16.51**

**Pressure Rating: 200 psig at 200 °F**

**ASME B16.51 Figure 1(h) P x P x P and Table I-1**

**Typical Manufacturing Drawing: 811-12128V**

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
10075374	811 3/4 X 3/4 X 1/2 C X C X C TEE	Wrought Copper Alloys	811-12128V / 48
10066430	811 3/4 X 3/4 X 1/2 C X C X C TEE	Wrought Copper Alloys	48
10075378	811 1 X 1 X 1/2 C X C X C TEE	Wrought Copper Alloys	48
10066431	811 1 X 1 X 1/2 C X C X C TEE	Wrought Copper Alloys	48
10075376	811 1 X 1 X 3/4 C X C X C TEE	Wrought Copper Alloys	48
10066432	811 1 X 1 X 3/4 C X C X C TEE	Wrought Copper Alloys	48
10075106	811 1-1/4 X 1-1/4 X 1/2 C X C X C TEE	Wrought Copper Alloys	48
10075102	811 1-1/4 X 1-1/4 X 3/4 C X C X C TEE	Wrought Copper Alloys	48
10075104	811 1-1/4 X 1-1/4 X 1 C X C X C TEE	Wrought Copper Alloys	48
10066015	811 1-1/2 X 1-1/2 X 1/2 C X C X C TEE	Wrought Copper Alloys	48
10075108	811 1-1/2 X 1-1/2 X 3/4 C X C X C TEE	Wrought Copper Alloys	48
10075110	811 1-1/2 X 1-1/2 X 1 C X C X C TEE	Wrought Copper Alloys	48
10075112	811 1-1/2 X 1-1/2 X 1-1/4 C X C X C TEE	Wrought Copper Alloys	48
10066385	811 2 X 2 X 1/2 C X C X C TEE	Wrought Copper Alloys	48
10075114	811 2 X 2 X 3/4 C X C X C TEE	Wrought Copper Alloys	48
10075116	811 2 X 2 X 1 C X C X C TEE	Wrought Copper Alloys	48
10075118	811 2 X 2 X 1-1/4 C X C X C TEE	Wrought Copper Alloys	48
10075120	811 2 X 2 X 1-1/2 C X C X C TEE	Wrought Copper Alloys	48
10066387	811 2-1/2 X 2-1/2 X 1/2 C X C X C TEE	Wrought Copper Alloys	48
10066386	811 2-1/2 X 2-1/2 X 3/4 C X C X C TEE	Wrought Copper Alloys	48
10066028	811 2-1/2 X 2-1/2 X 1 C X C X C TEE	Wrought Copper Alloys	48
10066027	811 2-1/2 X 2-1/2 X 1-1/4 C X C X C TEE	Wrought Copper Alloys	48
10066026	811 2-1/2 X 2-1/2 X 1-1/2 C X C X C TEE	Wrought Copper Alloys	48
10066176	811 2-1/2 X 2-1/2 X 2 C X C X C TEE	Wrought Copper Alloys	48
10066185	811 3 X 3 X 1/2 C X C X C TEE	Wrought Copper Alloys	48
10066035	811 3 X 3 X 3/4 C X C X C TEE	Wrought Copper Alloys	48
10066034	811 3 X 3 X 1 C X C X C TEE	Wrought Copper Alloys	48
10066033	811 3 X 3 X 1-1/4 C X C X C TEE	Wrought Copper Alloys	48
10066032	811 3 X 3 X 1-1/2 C X C X C TEE	Wrought Copper Alloys	48
10066186	811 3 X 3 X 2 C X C X C TEE	Wrought Copper Alloys	48
10062079	811 3 X 3 X 2-1/2 C X C X C TEE	Wrought Copper Alloys	48
10066104	811 4 X 4 X 1/2 C X C X C TEE	Wrought Copper Alloys	48
10066098	811 4 X 4 X 3/4 C X C X C TEE	Wrought Copper Alloys	48
10066118	811 4 X 4 X 1 C X C X C TEE	Wrought Copper Alloys	48
10066114	811 4 X 4 X 1-1/4 C X C X C TEE	Wrought Copper Alloys	48
10066036	811 4 X 4 X 1-1/2 C X C X C TEE	Wrought Copper Alloys	48
10066187	811 4 X 4 X 2 C X C X C TEE	Wrought Copper Alloys	48
10062078	811 4 X 4 X 2-1/2 C X C X C TEE	Wrought Copper Alloys	48
10062076	811 4 X 4 X 3 C X C X C TEE	Wrought Copper Alloys	48

**REDUCING RUN/OUTLET TEE SMALL DIAMETER - 811 SERIES**

**Design Code: ASME B16.51**

**Pressure Rating: 200 psig at 200 °F**

**ASME B16.51 Figure 1(h) P x P x P and Table I-1**

**Typical Manufacturing Drawing: 811-201612-II3**

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
10066045	811 3/4 X 3/4 X 1/2 C X C X C TEE	Wrought Copper Alloys	49/50
10066039	811 3/4 X 3/4 X 3/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066391	811 1 X 1/2 X 1/2 C X C X C TEE	Wrought Copper Alloys	49/50
10066007	811 1 X 1/2 X 3/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066066	811 1 X 1/2 X 1 C X C X C TEE	Wrought Copper Alloys	49/50
10066389	811 1 X 3/4 X 1/2 C X C X C TEE	Wrought Copper Alloys	49/50
10066390	811 1 X 3/4 X 3/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066040	811 1 X 3/4 X 1 C X C X C TEE	Wrought Copper Alloys	49/50
10066102	811 1 X 3/4 X 1-1/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066049	811 1-1/4X 1/2 X 1/2 C X C X C TEE	Wrought Copper Alloys	49/50
10066080	811 1-1/4X 1/2 X 1 C X C X C TEE	Wrought Copper Alloys	49/50
10066392	811 1-1/4X 1/2 X 1-1/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066051	811 1-1/4X 3/4 X 1/2 C X C X C TEE	Wrought Copper Alloys	49/50
10066052	811 1-1/4X 3/4 X 3/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066053	811 1-1/4X 3/4 X 1 C X C X C TEE	Wrought Copper Alloys	49/50
10066054	811 1-1/4X 3/4 X 1-1/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066044	811 1-1/4X 3/4 X 1-1/2 C X C X C TEE	Wrought Copper Alloys	49/50
10066055	811 1-1/4X 1 X 1/2 C X C X C TEE	Wrought Copper Alloys	49/50
10075122	811 1-1/4X 1 X 3/4 C X C X C TEE	Wrought Copper Alloys	811-201612-II3/49/50
10075124	811 1-1/4X 1 X 1 C X C X C TEE	Wrought Copper Alloys	49/50
10066056	811 1-1/4X 1 X 1-1/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066395	811 1-1/4X 1 X 1-1/2 C X C X C TEE	Wrought Copper Alloys	49/50
10066394	811 1-1/2X 1/2 X 1-1/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066009	811 1-1/2X 1/2 X 1-1/2 C X C X C TEE	Wrought Copper Alloys	49/50
10066195	811 1-1/2X 3/4 X 1/2 C X C X C TEE	Wrought Copper Alloys	49/50
10066383	811 1-1/2X 3/4 X 3/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066397	811 1-1/2X 3/4 X 1 C X C X C TEE	Wrought Copper Alloys	49/50
10066058	811 1-1/2X 3/4 X 1-1/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066043	811 1-1/2X 3/4 X 1-1/2 C X C X C TEE	Wrought Copper Alloys	49/50
10066042	811 1-1/2X 3/4 X 2 C X C X C TEE	Wrought Copper Alloys	49/50
10066011	811 1-1/2X 1 X 3/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066012	811 1-1/2X 1 X 1 C X C X C TEE	Wrought Copper Alloys	49/50
10066081	811 1-1/2X 1 X 1-1/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066013	811 1-1/2X 1 X 1-1/2 C X C X C TEE	Wrought Copper Alloys	49/50
10066108	811 1-1/2X 1 X 2 C X C X C TEE	Wrought Copper Alloys	49/50
10066059	811 1-1/2X 1-1/4 X 1/2 C X C X C TEE	Wrought Copper Alloys	49/50
10066060	811 1-1/2X 1-1/4 X 3/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066014	811 1-1/2X 1-1/4 X 1 C X C X C TEE	Wrought Copper Alloys	49/50
10075126	811 1-1/2X 1-1/4 X 1-1/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066393	811 1-1/2X 1-1/4 X 1-1/2 C X C X C TEE	Wrought Copper Alloys	49/50
10066109	811 1-1/2X 1-1/4 X 2 C X C X C TEE	Wrought Copper Alloys	49/50
10066384	811 2 X 1/2 X 2 C X C X C TEE	Wrought Copper Alloys	49/50
10066121	811 2 X 3/4 X 3/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066092	811 2 X 3/4 X 1-1/2 C X C X C TEE	Wrought Copper Alloys	49/50
10066388	811 2 X 3/4 X 2 C X C X C TEE	Wrought Copper Alloys	49/50
10066079	811 2 X 1 X 1/2 C X C X C TEE	Wrought Copper Alloys	49/50
10066062	811 2 X 1 X 3/4 C X C X C TEE	Wrought Copper Alloys	49/50

10066017	811 2 X 1 X 1 C X C X C TEE	Wrought Copper Alloys	49/50
10066126	811 2 X 1 X 1-1/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066197	811 2 X 1 X 1-1/2 C X C X C TEE	Wrought Copper Alloys	49/50
10066018	811 2 X 1 X 2 C X C X C TEE	Wrought Copper Alloys	49/50
10066063	811 2 X 1-1/4 X 3/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066129	811 2 X 1-1/4 X 1 C X C X C TEE	Wrought Copper Alloys	49/50
10066019	811 2 X 1-1/4 X 1-1/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066125	811 2 X 1-1/4 X 1-1/2 C X C X C TEE	Wrought Copper Alloys	49/50
10066064	811 2 X 1-1/4 X 2 C X C X C TEE	Wrought Copper Alloys	49/50
10066065	811 2 X 1-1/2 X 1/2 C X C X C TEE	Wrought Copper Alloys	49/50
10066020	811 2 X 1-1/2 X 3/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066021	811 2 X 1-1/2 X 1 C X C X C TEE	Wrought Copper Alloys	49/50
10066022	811 2 X 1-1/2 X 1-1/4 C X C X C TEE	Wrought Copper Alloys	49/50
10066023	811 2 X 1-1/2 X 1-1/2 C X C X C TEE	Wrought Copper Alloys	49/50
10066024	811 2 X 1-1/2 X 2 C X C X C TEE	Wrought Copper Alloys	49/50

### TEE - 811 SERIES

**Design Code: ASME B16.51**

**Pressure Rating: 200 psig at 200 °F**

**ASME B16.51 Figure 1(h) P x P x P and Table I-1**

**Typical Manufacturing Drawing: 811-12-AA**

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
10075578	811 1/2 C X C X C TEE	Wrought Copper Alloys	50
10075580	811 3/4 C X C X C TEE	Wrought Copper Alloys	811-12-AA / 50
10075070	811 1 C X C X C TEE	Wrought Copper Alloys	50
10075096	811 1-1/4 C X C X C TEE	Wrought Copper Alloys	50
10075098	811 1-1/2 C X C X C TEE	Wrought Copper Alloys	50
10075100	811 2 C X C X C TEE	Wrought Copper Alloys	50
10075518	811 2-1/2 C X C X C TEE	Wrought Copper Alloys	50
10062072	811 3 C X C X C TEE	Wrought Copper Alloys	50
10062077	811 4 C X C X C TEE	Wrought Copper Alloys	50

### REDUCING RUN/OUTLET TEE LARGE DIAMETER - 811 SERIES

**Design Code: ASME B16.51**

**Pressure Rating: 200 psig at 200 °F**

**ASME B16.51 Figure 1(h) P x P x P and Table I-1**

**ASME B16.51 Figure 1(b) FTG X P and Table I-1**

**Typical Manufacturing: 811 Series Tee with 818 Series Fitting Reducer Attached**

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
10066499	811 2 X 1-1/2 X 2-1/2 C X C X C TEE	Wrought Copper Alloys	51
10066501	811 2-1/2 X 3/4 X 2 C X C X C TEE	Wrought Copper Alloys	51
10066502	811 2-1/2 X 3/4 X 2-1/2 C X C X C TEE	Wrought Copper Alloys	51
10066503	811 2-1/2 X 1 X 2 C X C X C TEE	Wrought Copper Alloys	51
10066514	811 2-1/2 X 1 X 2-1/2 C X C X C TEE	Wrought Copper Alloys	51
10066504	811 2-1/2 X 1-1/4 X 2-1/2 C X C X C TEE	Wrought Copper Alloys	51
10066505	811 2-1/2 X 1-1/2 X 1-1/2 C X C X C TEE	Wrought Copper Alloys	51

10066506	811 2-1/2 X 1-1/2 X 2 C X C X C TEE	Wrought Copper Alloys	51
10066507	811 2-1/2 X 1-1/2 X 2-1/2 C X C X C TEE	Wrought Copper Alloys	51
10066508	811 2-1/2 X 2 X 3/4 C X C X C TEE	Wrought Copper Alloys	51
10066509	811 2-1/2 X 2 X 1 C X C X C TEE	Wrought Copper Alloys	51
10066510	811 2-1/2 X 2 X 1-1/4 C X C X C TEE	Wrought Copper Alloys	51
10066511	811 2-1/2 X 2 X 1-1/2 C X C X C TEE	Wrought Copper Alloys	51
10066396	811 2-1/2 X 2 X 2 C X C X C TEE	Wrought Copper Alloys	51
10066174	811 2-1/2 X 2 X 2-1/2 C X C X C TEE	Wrought Copper Alloys	51
10066515	811 2-1/2 X 2 X 3 C X C X C TEE	Wrought Copper Alloys	51
10066522	811 3 X 3/4 X 2-1/2 C X C X C TEE	Wrought Copper Alloys	51
10066523	811 3 X 3/4 X 3 C X C X C TEE	Wrought Copper Alloys	51
10066524	811 3 X 1 X 2-1/2 C X C X C TEE	Wrought Copper Alloys	51
10066525	811 3 X 1 X 3 C X C X C TEE	Wrought Copper Alloys	51
10066526	811 3 X 1-1/4 X 3 C X C X C TEE	Wrought Copper Alloys	51
10066527	811 3 X 1-1/2 X 3 C X C X C TEE	Wrought Copper Alloys	51
10066528	811 3 X 2 X 2 C X C X C TEE	Wrought Copper Alloys	51
10066529	811 3 X 2 X 2-1/2 C X C X C TEE	Wrought Copper Alloys	51
10066530	811 3 X 2 X 3 C X C X C TEE	Wrought Copper Alloys	51
10066531	811 3 X 2-1/2 X 2 C X C X C TEE	Wrought Copper Alloys	51
10066136	811 3 X 2-1/2 X 2-1/2 C X C X C TEE	Wrought Copper Alloys	51
10066137	811 3 X 2-1/2 X 3 C X C X C TEE	Wrought Copper Alloys	51
10066538	811 4 X 1-1/2 X 3 C X C X C TEE	Wrought Copper Alloys	51
10066539	811 4 X 2 X 4 C X C X C TEE	Wrought Copper Alloys	51
10066138	811 4 X 2-1/2 X 4 C X C X C TEE	Wrought Copper Alloys	51
10066540	811 4 X 3 X 1-1/2 C X C X C TEE	Wrought Copper Alloys	51
10066541	811 4 X 3 X 2 C X C X C TEE	Wrought Copper Alloys	51
10066139	811 4 X 3 X 2-1/2 C X C X C TEE	Wrought Copper Alloys	51
10066096	811 4 X 3 X 3 C X C X C TEE	Wrought Copper Alloys	51
10066140	811 4 X 3 X 4 C X C X C TEE	Wrought Copper Alloys	51

### BULLHEAD TEE - 811 SERIES

**Design Code: ASME B16.51**

**Pressure Rating: 200 psig at 200 °F**

**ASME B16.51 Figure 1(h) P x P x P and Table I-1**

**ASME B16.51 Figure 1(b) FTG X P and Table I-1**

**Typical Manufacturing: 811 Series Tee with 818 Series Fitting Reducer Attached**

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
10066070	811 1/2 X 1/2 X 3/4 C x C x C BH TEE	Wrought Copper Alloys	52
10066006	811 1/2 X 1/2 X 1 C x C x C BH TEE	Wrought Copper Alloys	52
10066071	811 3/4 X 3/4 X 1 C x C x C BH TEE	Wrought Copper Alloys	52
10066008	811 1 X 1 X 1-1/4 C x C x C BH TEE	Wrought Copper Alloys	52
10066128	811 1 X 1 X 2 C x C x C BH TEE	Wrought Copper Alloys	52
10066107	811 1 X 1 X 2 C x C x C BH TEE	Wrought Copper Alloys	52
10066090	811 1 X 1 X 2 C x C x C BH TEE	Wrought Copper Alloys	52
10066550	811 1-1/2 X 1-1/2 X 3 C x C x C BH TEE	Wrought Copper Alloys	52
10066551	811 2 X 2 X 3 C x C x C BH TEE	Wrought Copper Alloys	52
10066135	811 2-1/2 X 2-1/2 X 3 C x C x C BH TEE	Wrought Copper Alloys	52
10066094	811 2-1/2 X 2-1/2 X 4 C x C x C BH TEE	Wrought Copper Alloys	52

**FEMALE OUTLET TEE - 8712 SERIES**

Design Code: ASME B16.51, ASME B16.22

Pressure Rating: 200 psig at 200 °F

ASME B16.51 Figure 1(h) P x P x P and Table I-1

ASME B16.22 Figure 1 FTG x F Adapter and Table II3.

Typical Manufacturing: 811 Series Tee with 803-2 Series Female Street Adapter Attached

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
<b>Female Outlet Tee</b>			
10066399	8712 1/2 C X C X F Tee	Wrought Copper Alloys	52
10066154	8712 3/4 C X C X F Tee	Wrought Copper Alloys	52
<b>Reducing Female Outlet Tee</b>			
10066400	8712 3/4 x 3/4 x 1/2 C X C X F Tee	Wrought Copper Alloys	52
10066401	8712 1 x 1 x 1/2 C X C X F Tee	Wrought Copper Alloys	52
10066150	8712 1 x 1 x 3/4 C X C X F Tee	Wrought Copper Alloys	52
10066402	8712 1-1/4 x 1-1/4 x 1/2 C X C X F Tee	Wrought Copper Alloys	52
10066153	8712 1-1/4 x 1-1/4 x 3/4 C X C X F Tee	Wrought Copper Alloys	52
10066403	8712 1-1/2 x 1-1/2 x 1/2 C X C X F Tee	Wrought Copper Alloys	52
10066156	8712 1-1/2 x 1-1/2 x 3/4 C X C X F Tee	Wrought Copper Alloys	52
10066404	8712 2 x 2 x 1/2 C X C X F Tee	Wrought Copper Alloys	52
10066159	8712 2 x 2 x 3/4 C X C X F Tee	Wrought Copper Alloys	52

**TUBE CAP - 817 SERIES**

Design Code: ASME B16.51

Pressure Rating: 200 psig at 200 °F

ASME B16.51 Figure 1(d) P and Table I-1

Typical Manufacturing Drawing: 75172

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
10075166	817 1/2 TUBE CAP	Wrought Copper Alloys	53
10075168	817 3/4 TUBE CAP	Wrought Copper Alloys	53
10075170	817 1 TUBE CAP	Wrought Copper Alloys	53
10075172	817 1-1/4 TUBE CAP	Wrought Copper Alloys	75172 / 53
10075174	817 1-1/2 TUBE CAP	Wrought Copper Alloys	53
10075176	817 2 TUBE CAP	Wrought Copper Alloys	53
10062142	817 2-1/2 TUBE CAP	Wrought Copper Alloys	53
10062147	817 3 TUBE CAP	Wrought Copper Alloys	53
10062152	817 4 TUBE CAP	Wrought Copper Alloys	53

**CROSSOVER - 836 SERIES**

Design Code: ASME B16.51

Pressure Rating: 200 psig at 200 °F

ASME B16.51 Figure 1(c) P X P and Table I-1

Typical Manufacturing Drawing: 836-8

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
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10075370	836 1/2 C x C CROSSOVER	Wrought Copper Alloys	836-8 / 53
10075372	836 3/4 C x C CROSSOVER	Wrought Copper Alloys	53

### FITTING REDUCER - 818 SERIES

**Design Code: ASME B16.51**

**Pressure Rating: 200 psig at 200 °F**

**ASME B16.51 Figure 1(b) FTG X P and Table I-1**

**Typical Manufacturing Drawing: 75160**

Item Number	Description	Material	Drawing / ApolloXpress Cat. (AXCAT) - 8/12
10075146	818 3/4 X 1/2 FTG x C RED	Wrought Copper Alloys	54
10075150	818 1 X 1/2 FTG x C RED	Wrought Copper Alloys	54
10075148	818 1 X 3/4 FTG x C RED	Wrought Copper Alloys	54
10075336	818 1-1/4 X 1/2 FTG x C RED	Wrought Copper Alloys	54
10075154	818 1-1/4 X 3/4 FTG x C RED	Wrought Copper Alloys	54
10075156	818 1-1/4 X 1 FTG x C RED	Wrought Copper Alloys	54
10075332	818 1-1/2 X 1/2 FTG x C RED	Wrought Copper Alloys	54
10075334	818 1-1/2 X 3/4 FTG x C RED	Wrought Copper Alloys	54
10075158	818 1-1/2 X 1 FTG x C RED	Wrought Copper Alloys	54
10075160	818 1-1/2 X 1-1/4 FTG x C RED	Wrought Copper Alloys	75160 / 54
10075338	818 2 X 1/2 FTG x C RED	Wrought Copper Alloys	54
10075340	818 2 X 3/4 FTG x C RED	Wrought Copper Alloys	54
10075162	818 2 X 1 FTG x C RED	Wrought Copper Alloys	54
10075152	818 2 X 1-1/4 FTG x C RED	Wrought Copper Alloys	54
10075164	818 2 X 1-1/2 FTG x C RED	Wrought Copper Alloys	54
10068025	818 2-1/2 X 1/2 FTG x C RED	Wrought Copper Alloys	54
10068001	818 2-1/2 X 3/4 FTG x C RED	Wrought Copper Alloys	54
10068002	818 2-1/2 X 1 FTG x C RED	Wrought Copper Alloys	54
10068017	818 2-1/2 X 1-1/4 FTG x C RED	Wrought Copper Alloys	54
10068004	818 2-1/2 X 1-1/2 FTG x C RED	Wrought Copper Alloys	54
10075165	818 2-1/2 X 2 FTG x C RED	Wrought Copper Alloys	54
10068005	818 2-1/2 X 2 FTG x C RED	Wrought Copper Alloys	54
10068019	818 3 X 3/4 FTG x C RED	Wrought Copper Alloys	54
10068007	818 3 X 1 FTG x C RED	Wrought Copper Alloys	54
10068008	818 3 X 1-1/4 FTG x C RED	Wrought Copper Alloys	54
10068020	818 3 X 1-1/2 FTG x C RED	Wrought Copper Alloys	54
10068010	818 3 X 2 FTG x C RED	Wrought Copper Alloys	54
10057500	818 3 X 2-1/2 FTG x C RED	Wrought Copper Alloys	54
10068011	818 4 X 1/2 FTG x C RED	Wrought Copper Alloys	54
10068022	818 4 X 3/4 FTG x C RED	Wrought Copper Alloys	54
10068013	818 4 X 1 FTG x C RED	Wrought Copper Alloys	54
10068014	818 4 X 1-1/4 FTG x C RED	Wrought Copper Alloys	54
10068023	818 4 X 1-1/2 FTG x C RED	Wrought Copper Alloys	54
10068016	818 4 X 2 FTG x C RED	Wrought Copper Alloys	54
10057503	818 4 X 2-1/2 FTG x C RED	Wrought Copper Alloys	54
10057506	818 4 X 3 FTG x C RED	Wrought Copper Alloys	54