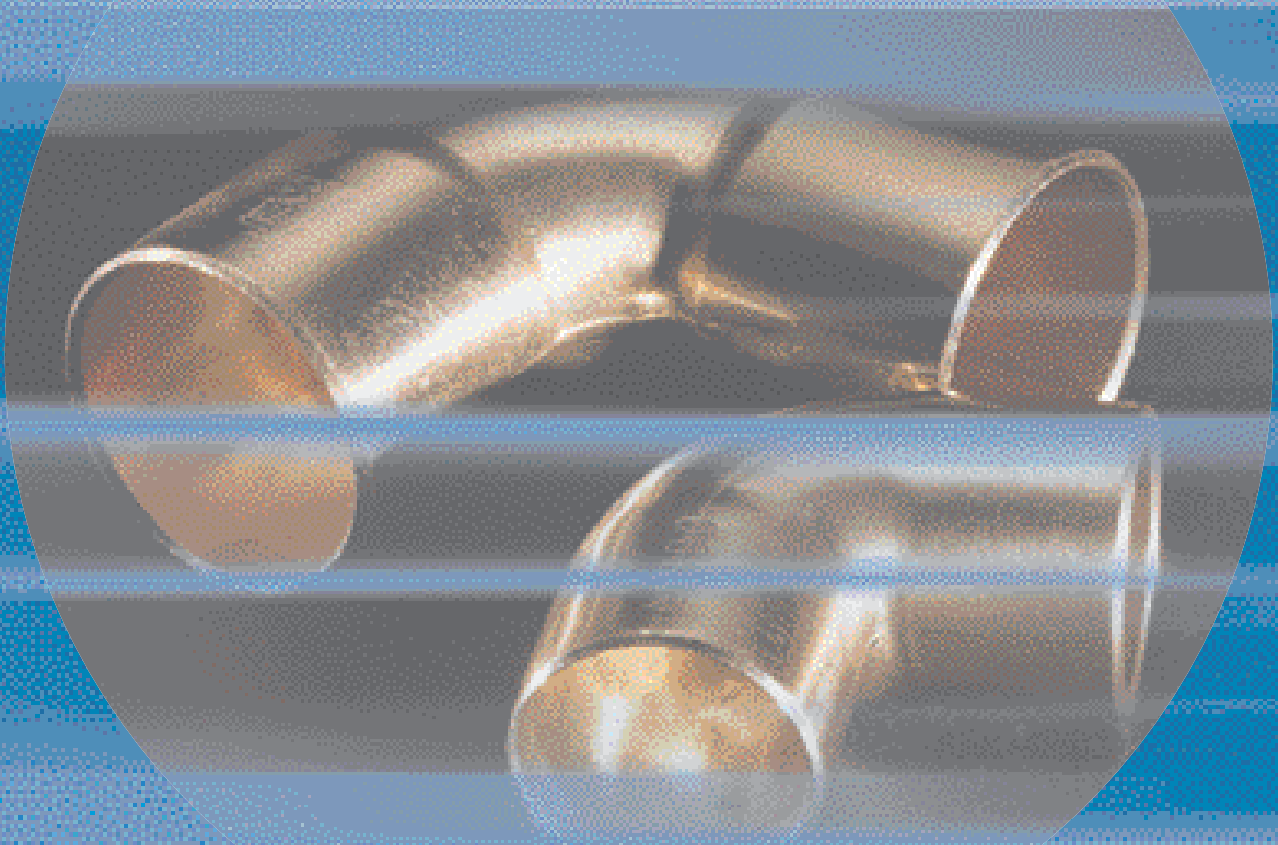


NIBCO®

AHEAD OF THE FLOW®



Copper Fittings

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The manufacturing plants at Stuarts Draft, VA, Nacogdoches, TX and Reynosa, Mexico manufacture products under a Quality Management System conforming to the current revision of ISO-9001 International Standards

Specifications

All of the advantages found in copper as a metal have been capitalized to the utmost in the manufacture of NIBCO Fittings. Because of the accuracy of construction and design, copper plumbing is more efficient and less expensive.

NIBCO manufactures nine general types of fittings: Wrot Pressure; Cast Pressure; Wrot Drainage; Cast Drainage; Flanges; Flared Tube; Threaded Bronze; Insert Fittings for PEX; Barbed Insert Fittings for Polybutylene. Each has its particular place and use and each offers its own advantages when used for the proper service requirement.

ALLOY AND FINISH — NIBCO Fittings are made from highest quality raw materials available — Cast Fittings are made from Copper Alloy C84400 which consists of 81% Copper, 7% Lead, 3% Tin, and 9% Zinc per ASTM Specification B584. Wrot Copper Fittings are made from commercially pure copper mill products per ASTM Specifications B75 Alloy C12200.

NIBCO fittings are produced to meet requirements of applicable standards wherever practicable.

The majority of NIBCO® brand wrot and cast fittings are manufactured in the U.S.A. and Mexico*. The manufacturing plants at Stuarts Draft, VA, Nacogdoches, TX and Reynosa, Mexico are registered to ISO 9002 quality standards.

Following is suggested phrasing to be incorporated in your specifications or bills of material for Copper Tube Fittings.

WROT SOLDER JOINT FITTINGS — “Wrot Solder Joint Fittings shall be produced to one of the following specifications:

1. Material and workmanship shall be in accordance with ASME/ANSI B16.22; Wrought Copper and Copper Alloy Solder Joint Pressure Fittings.”
2. The dimensional, material and workmanship shall meet the requirements of MSS SP-104; Wrought Copper Solder Joint Pressure Fittings.”
3. The dimensional, material and workmanship of 5”–12” copper fittings shall meet the requirements of MSS SP-109 “Welded Fabricated Copper Solder Joint Pressure Fittings.”
4. Certified to NSF/ANSI 61.

CAST COPPER ALLOY SOLDER JOINT FITTINGS — “Cast Copper Alloy Solder Joint Fittings shall be in accordance with ASME B16.18.”

WROT DRAINAGE FITTINGS — “Wrot Drainage Fittings shall be in accordance with ASME B16.29.”

CAST COPPER ALLOY SOLDER JOINT DRAINAGE FITTINGS — “Cast Copper Alloy Solder Joint Drainage Fittings shall be in accordance with ASME B16.23.”

CAST COPPER ALLOY FLARED TUBE FITTINGS — “Cast Copper Alloy Flared Tube Fittings shall be in accordance with ASME B16.26.

CAST COPPER ALLOY FLANGES AND FLANGED FITTINGS—

CLASS 150 — Cast Copper Alloy Flanges and Flanged Fittings shall meet the requirements of MSS SP-106 and/or the workmanship and dimensions of Federal Specifications WW-F-406 or ASME Std. B16.24.

CLASS 125 — Material, workmanship and dimensions of flanges shall be in accordance with MSS SP-106.

CAST BRONZE THREADED FITTINGS — “Cast Bronze Threaded Fittings shall be in accordance with ANSI/ASME B16.15.”

POLYBUTYLENE COPPER INSERT TYPE VALVES AND FITTINGS — “Wrot Copper Insert Fittings shall be manufactured per the following specifications: MSS SP-103 or ASTM F1380.”

NIBCO Copper Tube Fittings are all produced to above Standards. To simplify, write your specifications to read: “Copper Tube Fittings to be in accordance with specifications as outlined in NIBCO Catalog c-cf-0602.”

WROT COPPER MEDICAL MEDICAL GAS SYSTEM COMPONENTS — Wrot copper fittings that are to be installed in medical gas applications shall be prepared in accordance with NFPA 99, Health Care Facilities Gas and Vacuum Systems and the Compressed Gas Association, Pamphlet G4.1. Packaging shall be adequately protective and include labeling that identifies the preparer and states that the product has been cleaned and bagged for oxygen or med gas service.

For technical information and dimensions refer to the engineering section contained in this catalog.

* NIBCO, may, from time to time, source and/or supplement a wrot or cast fitting product from suppliers outside of the U.S.A. and/or Mexico.

Wrot and Cast Pressure Fittings

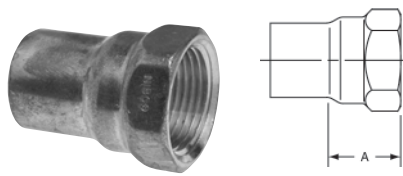
600 Series – Wrot
700 Series – Cast

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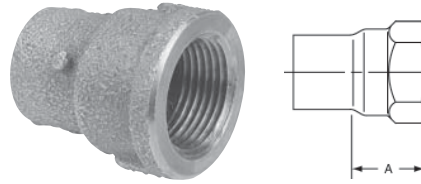
The manufacturing plants at Stuarts Draft, VA, Nacogdoches, TX and Reynosa, Mexico manufacture products under a Quality Management System conforming to the current revision of ISO-9001 International Standards

ADAPTERS



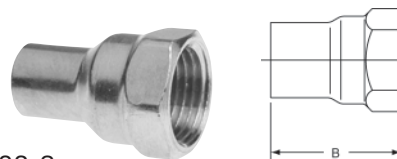
603
Adapter C x F – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/8	0.03	13/32
1/8 x 1/4	0.03	1/2
1/4	0.03	5/8
1/4 x 3/8	0.05	21/32
3/8	0.04	11/16
3/8 x 1/2	0.09	29/32
3/8 x 1/4	0.03	9/16
1/2	0.09	27/32
1/2 x 3/4	0.14	1
1/2 x 3/8	0.04	17/32
1/2 x 1/4	0.05	1/2
5/8 x 3/4	0.12	29/32
5/8 x 1/2	0.11	3/4
3/4	0.15	29/32
3/4 x 1	0.21	1 1/8
3/4 x 1/2	0.10	5/8
1	0.24	31/32
1 x 1 1/4	0.28	1 7/32
1 x 3/4	0.19	25/32
1 x 1/2	0.24	5/8
1 1/4	0.33	1 3/32
1 1/4 x 1 1/2	0.40	1 1/4
1 1/4 x 1	0.27	31/32
1 1/2	0.44	1 1/8
1 1/2 x 2	0.50	1 1/32
2	0.63	1 3/32
2 x 1 1/2	0.74	1 3/16
2 1/2	1.13	–
3	1.94	–



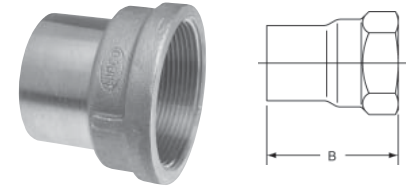
703
Adapter C x F – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/4 x 1/2	0.13	27/32
1/2 x 1	0.30	1
3/4 x 1 1/4	0.55	1 1/8
3/4 x 3/8	0.17	3/4
1 x 1 1/2	0.68	1 3/32
1 1/4 x 1	0.27	31/32
1 1/4 x 3/4	0.29	3/4
1 1/2 x 2	0.78	1 1/32
1 1/2 x 1	0.37	25/32
1 1/2 x 1 1/4	0.47	1 1/4
2 x 1 1/4	0.76	27/32
2 1/2	1.62	1 3/8
3	2.34	1 1/2
4	4.05	1 9/16



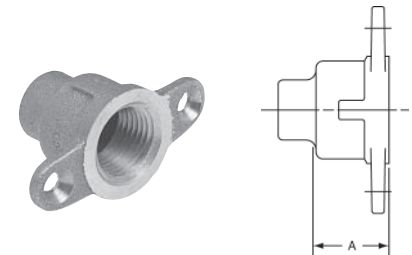
603-2
Fitting Adapter Ftg x F – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
1/4	0.03	1 3/32
3/8	0.06	1 3/16
1/2	0.09	1 7/16
1/2 x 3/8	0.05	1 1/4
3/4	0.13	1 11/16
1	0.27	2 1/32
1 1/4	0.31	2 1/8
1 1/2	0.43	2 5/16
2	0.61	2 17/32



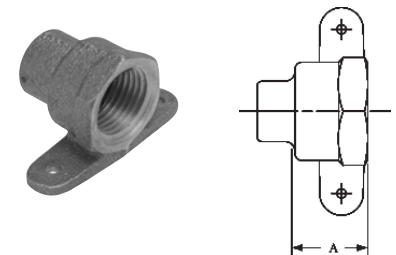
703-2
Fitting Adapter Ftg x F – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
1/2 x 1/4	0.11	1 7/32
3/4 x 1/2	0.12	1 9/16
1 x 3/4	0.38	1 31/32
1 x 1/2	0.15	1 7/16
2 1/2	1.65	2 15/16
3	2.47	3 1/4



703-5 Special
Drop Adapter C x F – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	0.16	3/4
3/4	0.24	31/32

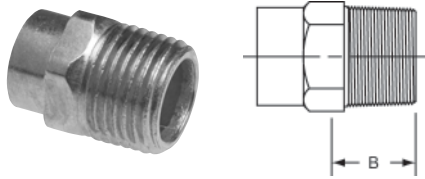


703-5B
Drop Adapter C x F – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	0.15	3/4

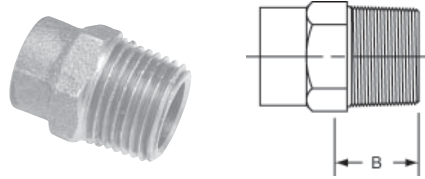
Consult price sheet for Made to Order items and for minimum order quantities.

ADAPTERS *continued*



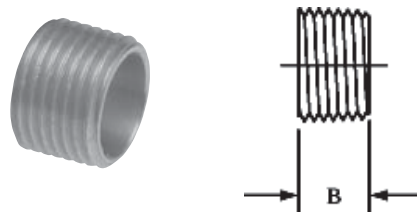
604
Adapter C x M – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
1/8 x 1/4	0.03	7/16
1/4	0.03	23/32
3/8	0.04	15/32
3/8 x 3/4	0.15	15/16
3/8 x 1/2	0.09	1
1/2	0.07	5/8
1/2 x 1	0.25	1 1/2
1/2 x 3/4	0.15	13/16
1/2 x 3/8	0.05	19/32
1/2 x 1/4	0.07	5/8
5/8 x 3/4	0.16	1 1/8
5/8 x 1/2	0.08	3/4
3/4	0.14	13/16
3/4 x 1	0.26	1 7/16
3/4 x 1/2	0.10	27/32
1	0.21	31/32
1 x 1 1/2	0.54	29/32
1 x 1 1/4	0.38	1 1/2
1 x 3/4	0.18	29/32
1 x 1/2	0.18	31/32
1 1/4	0.35	15/16
1 1/4 x 1 1/2	0.51	1 19/32
1 1/4 x 1	0.27	15/32
1 1/2	0.44	31/32
1 1/2 x 2	0.81	1 1/8
1 1/2 x 1 1/4	0.38	13/16
1 1/2 x 1	0.37	13/32
2	0.81	13/32
2 x 1 1/2	0.64	1 1/8
2 1/2	1.48	1 21/32
3	1.69	–



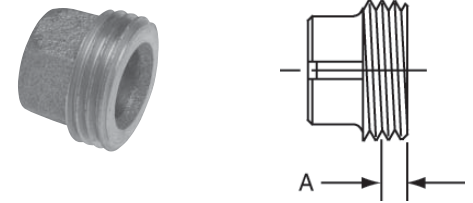
704
Adapter C x M – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
3/4 x 1 1/2	0.60	1 17/32
3/4 x 1 1/4	0.38	1 7/32
3/4 x 3/8	0.19	13/16
1 x 2	1.15	–
1 x 1 1/2	0.64	29/32
1 1/4 x 2	0.88	1 9/32
1 1/4 x 3/4	0.30	31/32
1 1/2 x 2	0.77	1 1/8
2 x 2 1/2	1.57	1 15/32
2 x 1 1/2	0.71	1 1/8
2 x 1 1/4	1.08	–
2 1/2	1.48	1 21/32
2 1/2 x 2	1.83	1 11/16
3	1.96	1 1/2
4	3.66	1 11/16
5	8.60	2 5/8
6	10.73	2



704-F
Flush Adapter C x M – Cast

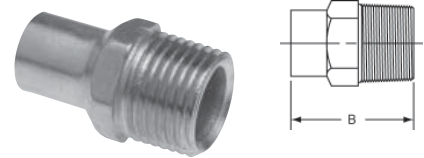
NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
1/2	0.03	9/16
3/4	0.03	19/32



704-H
Hose Adapter C x Hose – Cast

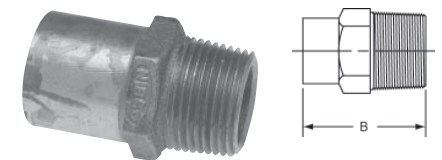
NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	0.09	9/32

NOTE: Fits 1/2" 5/8" and 3/4" Garden Hose.



604-2
Fitting Adapter Ftg x M – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
1/8	0.02	1 1/8
3/8	0.04	1 1/4
1/2	0.09	1 15/32
1/2 x 3/4	0.16	1 13/16
1/2 x 3/8	0.04	1 11/32
3/4	0.17	1 15/16
1	0.25	2 1/4

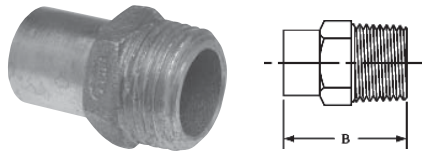


704-2
Fitting Adapter Ftg x M – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
3/4 x 1	0.27	1 31/32
3/4 x 1/2	0.12	1 23/32
1 x 3/4	0.24	1 15/16
1 1/4	0.43	2 27/32
1 1/2	0.54	2 13/32
2	0.89	2 3/4
2 1/2	1.55	3 3/8
3	2.21	3 23/32

Consult price sheet for Made to Order items and for minimum order quantities.

ADAPTERS *continued*



704-2-H
Hose Adapter Ftg x Hose – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
3/4 F x 3/4 H	0.16	1 ⁵ / ₈

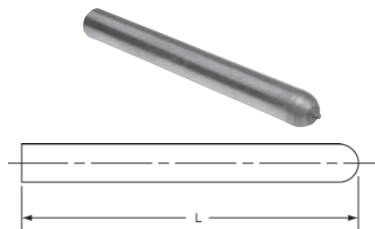
NOTE: Fits 1/2", 5/8" and 3/4" Garden Hose.

AIR CHAMBERS



619
Air Chamber Ftg. – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. L INCHES
1/2 x 6	0.21	1	6
1/2 x 12	0.41	1	12
1/2 x 14	0.78	1 ¹ / ₈	14
3/4 x 12	0.40	1	12

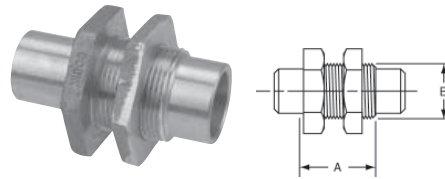


620-L
Air Chamber or Stub-Out
Ftg. – Wrot

As Air Chamber, just solder one joint. When used as Stub-Out, simply pressure test system then cut off stub-out (save piece for future use) and install valve or fixture.

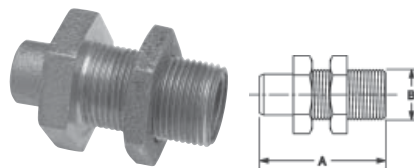
NOM. SIZE	APPROX. NET WT./LBS.	DIM. L INCHES
1/2 x 6	0.14	6
1/2 x 8	0.19	8
1/2 x 10	0.24	10
1/2 x 12	0.28	12
3/4 x 12	0.46	12

BULKHEAD FITTINGS



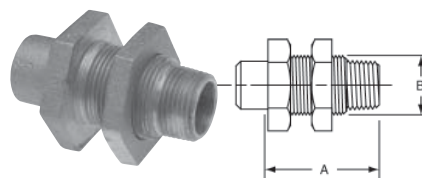
750
Bulkhead Fitting C x C – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
1/2	0.48	1 ¹ / ₄	1
3/4	0.77	1 ⁹ / ₃₂	1 ¹ / ₄
1	1.30	1 ¹ / ₂	1 ⁵ / ₈
1 1/2	2.87	1 ¹ / ₂	2 ³ / ₈
2	3.82	2 ¹ / ₃₂	2 ⁵ / ₈



750-3
Bulkhead Fitting C x F – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
1/2	0.48	1 ¹⁵ / ₁₆	1
3/4	0.79	2 ¹ / ₁₆	1 ¹ / ₄
1	1.43	2 ¹⁵ / ₃₂	1 ⁵ / ₈



750-4
Bulkhead Fitting C x M – Cast

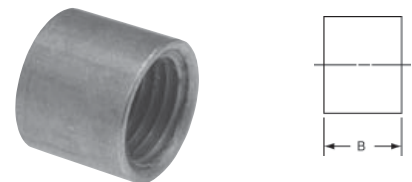
NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
1/2	0.40	1 ³¹ / ₃₂	1
3/4	0.79	2 ⁵ / ₃₂	1 ¹ / ₄

BUSHINGS



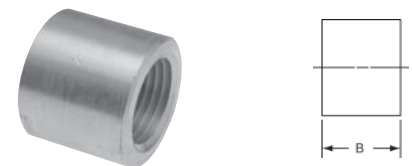
618
Flush Bushing Ftg x C – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. C INCHES
1/4 x 1/8	0.01	1 ¹ / ₁₆
3/8 x 1/4	0.01	1 ¹ / ₁₆
1/2 x 3/8	0.02	3 ³ / ₃₂
1/2 x 1/4	0.04	1 ¹ / ₄
5/8 x 1/2	0.03	1 ¹ / ₁₆
3/4 x 5/8	0.22	3 ³ / ₁₆
3/4 x 1/2	0.08	3 ³ / ₃₂
3/4 x 3/8	0.11	7 ¹ / ₁₆
1 x 3/4	0.12	1 ¹ / ₈
1 x 1/2	0.22	1 ¹⁵ / ₃₂
1 1/4 x 1	0.17	3 ³ / ₃₂
1 1/2 x 1 1/4	0.22	5 ⁵ / ₃₂
2 x 1 1/2	0.66	1 ¹ / ₈



618-3
Flush Bushing Ftg x F – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
1/2 x 1/8	0.03	9 ⁹ / ₁₆
1/2 x 1/4	0.03	9 ⁹ / ₁₆

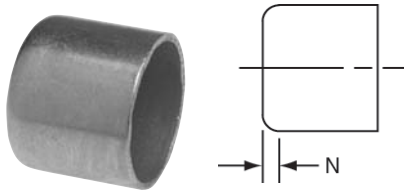


718-3
Flush Bushing Ftg x F – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
3/4 x 3/8	0.06	1 ³¹ / ₃₂
1 x 1/2	0.13	3 ¹ / ₃₂
1 1/4 x 3/4	0.18	1 ¹ / ₃₂
1 1/2 x 1	0.25	1 ⁵ / ₃₂

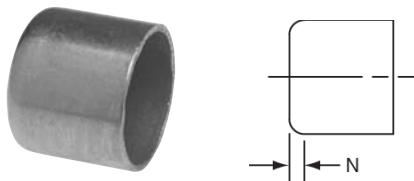
Consult price sheet for Made to Order items and for minimum order quantities.

CAPS



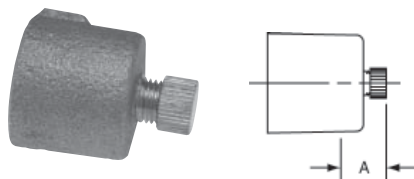
617
Tube Cap C – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. N INCHES
1/8	0.01	1/32
1/4	0.01	3/32
3/8	0.01	3/32
1/2	0.02	3/32
5/8	0.03	1/8
3/4	0.04	1/8
1	0.07	5/32
1 1/4	0.10	3/32
1 1/2	0.16	1/8
2	0.27	5/32
2 1/2	0.50	7/32
3	0.78	7/32
4	1.66	1/4



717
Tube Cap C – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. N INCHES
5	5.48	7/16
6	9.07	17/32

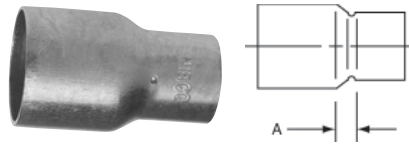


717-D
Drain Cap – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	0.06	21/32

Consult price sheet for Made to Order items and for minimum order quantities.

COUPLINGS

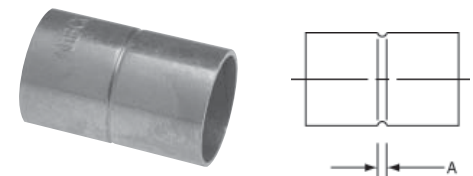


600
Reducing Coupling C x C – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/8 x 3/16 O.D.	0.01	5/32
5/16 O.D. x 1/8	0.01	3/16
1/4 x 5/16 O.D.	0.01	3/16
1/4 x 1/8	0.01	3/16
3/8 x 1/4	0.02	3/16
3/8 x 5/16 O.D.	0.01	1/4
3/8 x 1/8	0.01	1/4
1/2 x 3/8	0.03	3/16
1/2 x 1/4	0.02	1/4
1/2 x 1/8	0.03	11/32
5/8 x 1/2	0.05	3/16
5/8 x 3/8	0.04	11/32
5/8 x 1/4	0.03	13/32
3/4 x 5/8	0.07	3/16
3/4 x 1/2	0.06	9/32
3/4 x 3/8	0.06	3/8
3/4 x 1/4	0.05	11/32
1 x 3/4	0.11	11/32
1 x 5/8	0.09	3/8
1 x 1/2	0.10	11/32
1 x 3/8	0.10	13/32
1 1/4 x 1	0.16	5/16
1 1/4 x 3/4	0.18	17/32
1 1/4 x 5/8	0.18	5/8
1 1/4 x 1/2	0.14	7/16
1 1/2 x 1 1/4	0.23	5/16
1 1/2 x 1	0.22	9/16
1 1/2 x 3/4	0.20	3/8
1 1/2 x 1/2	0.19	1/2
2 x 1 1/2	0.41	9/16
2 x 1 1/4	0.35	11/16
2 x 1	0.37	7/16
2 x 3/4	0.34	17/32
2 x 1/2	0.35	23/32
2 1/2 x 2	0.59	9/16
2 1/2 x 1 1/2	0.65	11/16
2 1/2 x 1 1/4	0.65	13/16
2 1/2 x 1	0.73	29/32

Continues...

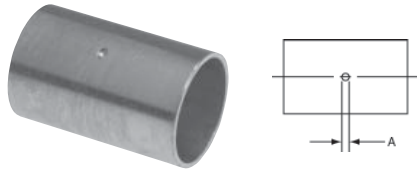
NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
3 x 2 1/2	0.98	1/2
3 x 2	1.06	15/16
3 x 1 1/2	0.92	11/32
3 1/2 x 3	1.52	1/2
4 x 3 1/2	2.12	19/32
4 x 3	1.92	27/32
4 x 2 1/2	1.77	1
4 x 2	1.92	1 1/4
5 x 4	3.50	3 ³¹ /32
5 x 3	3.18	1 ¹⁵ /32
5 x 2 1/2	3.50	13/16
5 x 2	3.09	2 ¹ /32
6 x 5	5.70	1 ¹ /8
6 x 4	5.24	1 ¹ /2
6 x 3	5.04	2
6 x 2 1/2	5.13	2 ¹ /4
6 x 2	4.89	2 ¹ /2
8 x 6	13.06	1 ¹⁹ /32
8 x 4	12.22	2 ¹⁹ /32
8 x 3	11.79	3 ³ /32
8 x 2 1/2	12.64	3 ³ /8



600-RS
Coupling with Rolled Tube Stop
C x C – Wrot

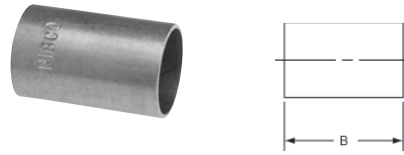
NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/8 O.D.	0.01	1/16
3/16 O.D.	0.01	3/32
1/8	0.01	1/16
5/16 O.D.	0.01	3/32
1/4	0.01	1/16
3/8	0.01	3/32
1/2	0.03	3/32
5/8	0.04	3/32
3/4	0.06	3/32
7/8	0.09	3/32
1	0.11	3/32
1 1/4	0.16	1/8
1 1/2	0.23	1/8
2	0.41	1/8
2 1/2	0.65	1/8
3	0.93	1/8
3 1/2	1.45	5/32
4	1.93	7/32

COUPLINGS *continued*



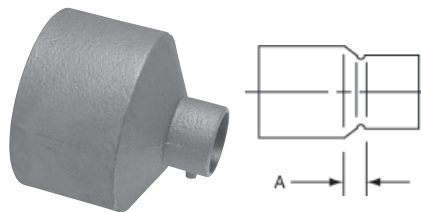
600-DS
Coupling with Dimpled Tube Stop
C x C – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
3/16 O.D.	0.01	3/32
1/8	0.01	1/16
5/16 O.D.	0.01	3/32
1/4	0.01	1/16
3/8	0.01	3/32
1/2	0.03	3/32
5/8	0.04	3/32
3/4	0.06	3/32
7/8	0.09	3/32
1	0.11	3/32
1 1/4	0.16	1/8
1 1/2	0.23	1/8
2	0.41	1/8
2 1/2	0.65	1/8
3	0.93	1/8
3 1/2	1.45	5/32
4	1.93	7/32
5	3.53	7/32
6	5.63	7/32
8	14.12	15/32



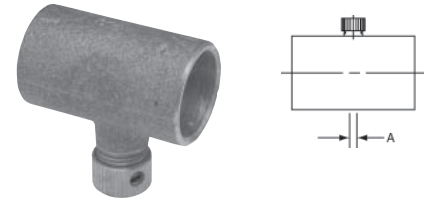
601
Coupling without Stop
C x C – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
1/4	0.01	11/16
3/8	0.01	27/32
1/2	0.03	1
5/8	0.04	1 11/32
3/4	0.06	1 19/32
1	0.11	1 29/32
1 1/4	0.16	2 1/16
1 1/2	0.23	2 5/16
2	0.41	2 13/16
2 1/2	0.64	2 15/16
3	0.86	3 5/16
3 1/2	1.40	3 13/16
4	1.84	4 5/16
5	3.50	5 5/16
6	5.60	6 3/16
8	13.68	8 3/32



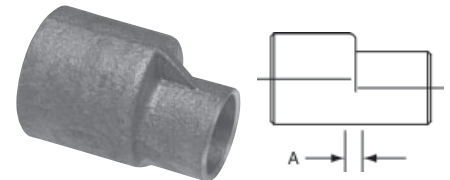
701
Reducing Coupling C x C – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
3 x 1 1/4	1.35	23/32
3 x 1	1.64	27/32



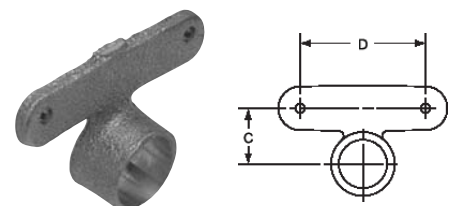
701-D
Drain Coupling C x C – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	0.08	1/4
3/4	0.14	1/4
1	0.22	1/4



702
Eccentric Coupling C x C – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
3/4 x 1/2	0.10	17/32
1 x 3/4	0.18	1/4
1 1/4 x 1	0.25	1/4
1 1/4 x 3/4	0.24	9/32

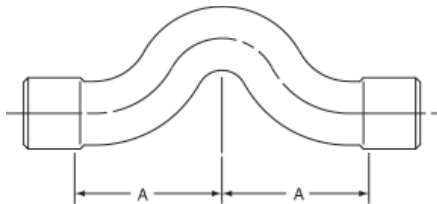


724-5-A
Hy-Set Hanger Coupling
C – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. C INCHES	DIM. D INCHES
1/2	0.05	1 5/8	23/32
3/4	0.09	1 5/8	27/32
1	0.13	1 5/8	1

Consult price sheet for Made to Order items and for minimum order quantities.

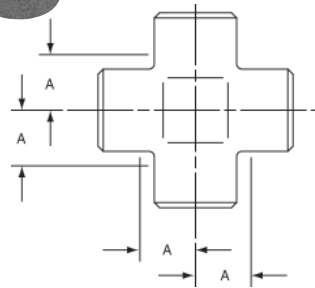
COUPLINGS *continued*



736
Cross-Over Coupling
C x C – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2	0.27	1 ⁷ / ₁₆
3/4	0.60	1 ²⁹ / ₃₂

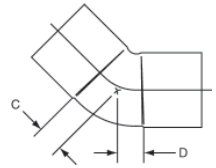
CROSSES



735
Cross C x C x C x C – Cast

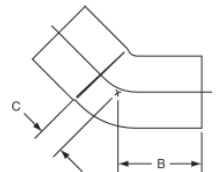
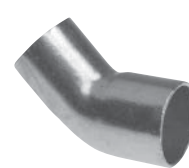
NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
3/8	0.09	3/8
1/2	0.15	7/16
3/4	0.30	9/16
1	0.54	2 ³ / ₃₂
1 1/4	0.78	7/8
1 1/2	1.05	1
2	2.00	1 ¹ / ₄
2 1/2	2.96	1 ¹ / ₂

ELBOWS



606
45° Elbow C x C – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. C INCHES	DIM. D INCHES
1/8	0.01	1/4	1/4
1/4	0.02	9/32	9/32
3/8	0.03	3/16	3/16
1/2	0.04	9/32	9/32
5/8	0.09	15/32	15/32
3/4	0.10	11/32	11/32
7/8	0.20	11/16	11/16
1	0.16	3/8	3/8
1 1/4	0.25	17/32	17/32
1 1/2	0.35	19/32	19/32
2	0.65	25/32	25/32
2 1/2	1.07	29/32	29/32
3	1.58	1 ¹ / ₈	1 ¹ / ₈
4	3.35	1 ⁷ / ₁₆	1 ⁷ / ₁₆
5	11.05	1 ⁹ / ₁₆	1 ⁹ / ₁₆
6	16.95	2	2
8	23.00	2 ⁹ / ₃₂	2 ⁹ / ₃₂

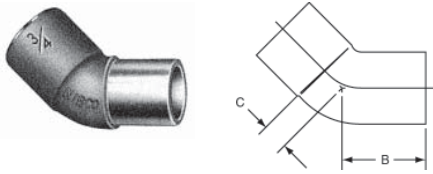


606-2
45° Fitting Elbow Ftg x C – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES	DIM. C INCHES
1/4	0.02	9/16	1/4
1/2	0.04	3/4	7/32
5/8	0.08	1 ¹ / ₈	13/32
3/4	0.10	1 ¹ / ₁₆	5/16
1	0.16	1 ⁷ / ₃₂	15/32
1 1/4	0.25	1 ¹⁹ / ₃₂	17/32
1 1/2	0.35	1 ²⁵ / ₃₂	19/32
2	0.65	2 ³ / ₁₆	25/32
2 1/2	1.07	2 ³ / ₁₆	29/32
3	1.55	2 ¹⁹ / ₃₂	1 ⁵ / ₃₂

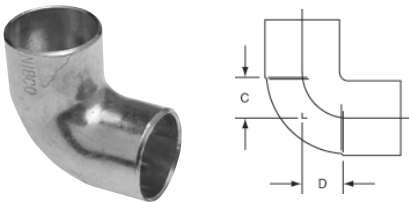
Consult price sheet for Made to Order items and for minimum order quantities.

ELBOWS *continued*



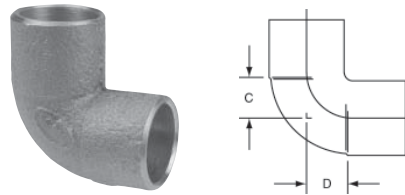
706-2
45° Fitting Elbow Ftg x C – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES	DIM. C INCHES
4	4.31	3 ¹¹ / ₃₂	1 ⁵ / ₁₆



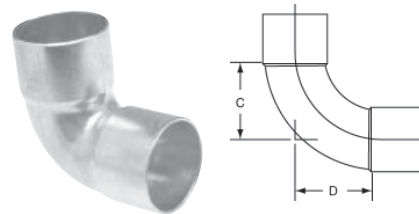
607
90° Elbow – Close Rough
C x C – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. C INCHES	DIM. D INCHES
1/8	0.01	1 ³ / ₃₂	1 ³ / ₃₂
1/4	0.02	9 ⁹ / ₃₂	9 ⁹ / ₃₂
3/8	0.03	1 ¹ / ₂	1 ¹ / ₂
1/2	0.04	3 ³ / ₈	3 ³ / ₈
1/2 x 3/8	0.04	9 ⁹ / ₁₆	2 ¹ / ₃₂
3/4	0.10	1 ⁷ / ₃₂	1 ⁷ / ₃₂
3/4 x 5/8	0.12	2 ⁹ / ₃₂	7 ⁷ / ₈
3/4 x 1/2	0.10	1 ⁷ / ₃₂	3 ³ / ₄
1	0.21	2 ³ / ₃₂	2 ³ / ₃₂
1 x 3/4	0.16	2 ³ / ₃₂	5 ⁵ / ₈
1 1/4	0.31	1 ¹ / ₃₂	1 ¹ / ₃₂
1 1/4 x 1	0.31	1 ⁵ / ₈	1 ¹⁵ / ₃₂
1 1/2	0.46	1 ⁷ / ₃₂	1 ⁷ / ₃₂
1 1/2 x 1 1/4	0.35	1 ⁵ / ₃₂	1 ³ / ₃₂
2	0.84	1 ¹ / ₂	1 ¹ / ₂
2 x 1 1/2	0.58	1 ⁷ / ₁₆	1 ¹ / ₄
2 1/2	1.41	1 ²⁷ / ₃₂	1 ²⁷ / ₃₂
3	2.07	2 ³ / ₃₂	2 ³ / ₃₂
3 1/2	2.94	2 ³ / ₈	2 ³ / ₈
4	4.23	2 ²⁵ / ₃₂	2 ²⁵ / ₃₂
5	7.74	2 ⁷ / ₈	2 ⁷ / ₈
6	10.95	3 ⁷ / ₁₆	3 ⁷ / ₁₆
8	29.50	4 ²³ / ₃₂	4 ²³ / ₃₂



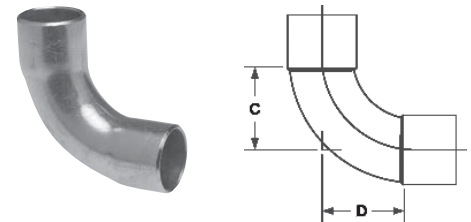
707
90° Elbow – Close Rough
C x C – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. C INCHES	DIM. D INCHES
1 1/4 x 1	0.42	1 ⁵ / ₈	1 ¹⁵ / ₃₂
1 1/4 x 3/4	0.34	9 ⁹ / ₁₆	1 ³ / ₁₆
1 1/4 x 1/2	0.28	1 ⁵ / ₃₂	2 ⁷ / ₃₂
1 1/2 x 1	0.54	1 ¹¹ / ₁₆	1
1 1/2 x 3/4	0.42	1 ⁹ / ₃₂	3 ¹ / ₃₂
1 1/2 x 1/2	0.40	5 ⁵ / ₈	2 ⁹ / ₃₂
2 x 1 1/4	0.86	7 ⁷ / ₈	1 ¹ / ₄
2 x 1	0.78	3 ³ / ₄	1 ¹ / ₄
2 x 3/4	0.69	5 ⁵ / ₈	1 ¹ / ₄
2 1/2 x 2	2.16	1 ³ / ₁₆	1 ⁹ / ₃₂
3 x 2 1/2	2.26	1 ¹¹ / ₁₆	1 ¹ / ₂
3 x 2	2.68	1 ³ / ₈	1 ⁹ / ₁₆
4 x 3	5.18	1 ²⁹ / ₃₂	2 ¹⁵ / ₃₂



607-1
90° Elbow –
Intermediate Radius C x C
– Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. C INCHES	DIM. D INCHES
1/2	0.06	1 ⁹ / ₃₂	1 ⁹ / ₃₂
5/8	0.09	7 ⁷ / ₈	7 ⁷ / ₈
3/4	0.14	1 ³ / ₁₆	3 ³ / ₁₆
1	0.24	1 ¹ / ₁₆	1 ¹ / ₁₆

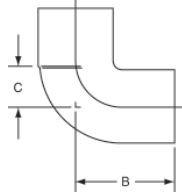


607-LT
90° Elbow – Long Radius
C x C – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. C INCHES	DIM. D INCHES
3/16 O.D.	0.01	1 ³ / ₃₂	1 ³ / ₃₂
1/8	0.01	1 ³ / ₃₂	1 ³ / ₃₂
5/16 O.D.	0.02	9 ⁹ / ₁₆	9 ⁹ / ₁₆
1/4	0.02	1 ⁷ / ₃₂	1 ⁷ / ₃₂
1/4 x 1/8	0.01	1 ⁹ / ₃₂	1 ¹ / ₂
3/8	0.04	2 ³ / ₃₂	2 ³ / ₃₂
1/2	0.08	7 ⁷ / ₈	7 ⁷ / ₈
1/2 x 3/8	0.06	1 ³ / ₁₆	1 ³ / ₁₆
1/2 x 1/4	0.03	2 ⁵ / ₃₂	2 ¹ / ₃₂
5/8	0.10	1 ³ / ₃₂	1 ³ / ₃₂
5/8 x 1/2	0.09	1 ¹ / ₁₆	1 ¹ / ₁₆
3/4	0.16	1 ¹ / ₈	1 ¹ / ₈
3/4 x 5/8	0.13	1 ¹ / ₄	1 ³ / ₃₂
3/4 x 1/2	0.10	1 ¹ / ₈	1 ¹ / ₁₆
7/8	0.28	1 ¹⁹ / ₃₂	1 ¹⁹ / ₃₂
1	0.28	1 ⁷ / ₁₆	1 ⁷ / ₁₆
1 x 3/4	0.20	1 ¹ / ₄	1 ¹ / ₈
1 x 5/8	0.15	1 ¹³ / ₃₂	1 ³ / ₃₂
1 1/4	0.42	1 ⁷ / ₈	1 ⁷ / ₈
1 1/4 x 1	0.33	1 ²⁵ / ₃₂	1 ¹ / ₂
1 1/2	0.66	2 ¹ / ₄	2 ¹ / ₄
2	1.23	2 ¹⁵ / ₁₆	2 ¹⁵ / ₁₆
2 1/2	1.96	3 ¹¹ / ₁₆	3 ¹¹ / ₁₆
3	2.93	4 ¹ / ₃₂	4 ¹ / ₃₂
4	5.95	5 ¹ / ₄	5 ¹ / ₄

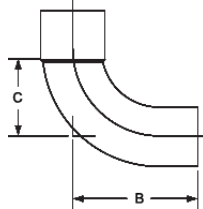
Consult price sheet for Made to Order items and for minimum order quantities.

ELBOWS *continued*



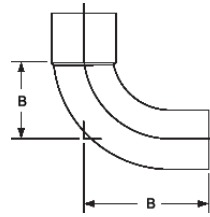
607-2
90° Fitting Elbow – Close Rough
Ftg x C – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES	DIM. C INCHES
1/4	0.02	3/4	3/8
3/8	0.03	15/16	1/2
1/2	0.04	31/32	3/8
5/8	0.07	17/32	17/32
3/4	0.10	111/32	17/32
1	0.20	13/4	27/32
1 1/4	0.33	21/8	11/32
1 1/2	0.46	213/32	17/32
2	0.84	227/32	11/2
2 1/2	1.39	315/32	129/32
3	2.10	313/16	23/32
4	4.00	43/4	225/32



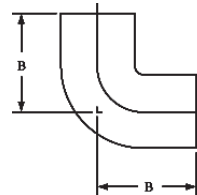
607-2-1
90° Fitting Elbow – Intermediate Radius
Ftg x C – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES	DIM. C INCHES
1/2	0.06	15/32	19/32
5/8	0.09	19/16	7/8
3/4	0.14	15/8	13/16
1	0.24	21/32	11/16



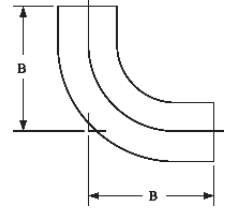
607-2-LT
90° Fitting Elbow – Long Radius
Ftg x C – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES	DIM. C INCHES
1/8	0.01	13/32	1/2
1/4	0.02	11/8	3/4
3/8	0.05	11/8	7/8
1/2	0.08	19/16	13/32
1/2 x 3/8	0.06	15/16	13/16
1/2 x 1/4	0.03	11/4	5/8
5/8	0.10	125/32	13/32
3/4	0.16	115/16	11/8
1	0.31	21/2	121/32
1 1/4	0.43	229/32	17/8
1 1/2	0.66	213/32	21/4
1 1/2 x 1 1/4	0.50	33/8	23/32
2	1.27	411/32	231/32
2 1/2	2.16	57/32	311/16
3	3.10	53/4	41/32



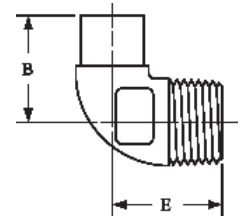
607-2-2
90° Fitting Elbow – Close Rough
Ftg x Ftg – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
1/2	0.04	11/16
3/4	0.12	115/32
1	0.20	123/32
1 1/4	0.33	21/8
1 1/2	0.46	213/32
2	0.82	227/32
3	2.12	37/8



607-2-2-LT
90° Fitting Elbow – Long Radius
Ftg x Ftg – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
1/4	0.02	27/32
3/8	0.04	11/8
1/2	0.08	119/32
5/8	0.10	111/16
3/4	0.16	115/16
1	0.31	21/2
1 1/4	0.43	229/32
1 1/2	0.65	37/16
2	1.25	411/32

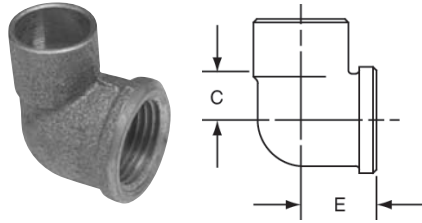


707-2-4
90° Fitting Elbow
Ftg x M – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES	DIM. E INCHES
1/2	0.12	7/8	25/32

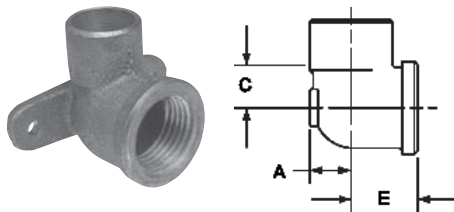
Consult price sheet for Made to Order items and for minimum order quantities.

ELBOWS *continued*



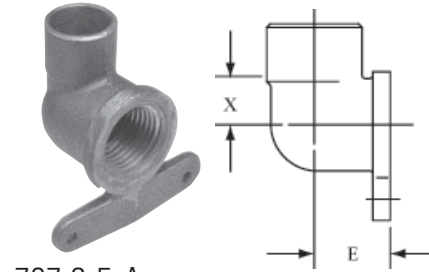
707-3
90° Elbow C x F – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. C INCHES	DIM. E INCHES
1/4	0.06	13/32	9/16
3/8	0.09	7/16	11/16
3/8 x 1/2	0.13	9/16	13/16
1/2	0.12	7/16	13/16
1/2 x 3/4	0.18	11/16	15/16
1/2 x 3/8	0.09	1/2	13/16
1/2 x 1/4	0.10	3/8	23/32
3/4	0.18	21/32	15/16
3/4 x 1	0.35	13/16	11/8
3/4 x 1/2	0.20	9/16	15/16
1	0.43	25/32	11/4
1 x 3/4	0.35	11/16	13/16
1 x 1/2	0.26	9/16	11/8
1 1/4	0.67	1	11/2
1 1/4 x 3/4	0.47	9/16	111/16
1 1/2	0.89	11/8	15/8
2	1.46	13/8	115/16



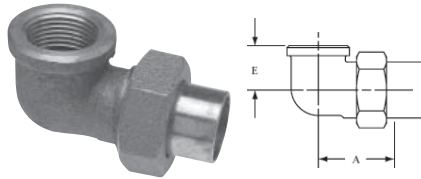
707-3-5
90° Drop Elbow C x F – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. C INCHES	DIM. E INCHES
3/8	0.12	11/32	7/16	11/16
3/8 x 1/2	0.18	11/32	9/16	13/16
1/2	0.15	13/32	9/16	7/8
1/2 x 3/8	0.17	3/8	1/2	13/16
3/4	0.28	17/32	21/32	15/16
3/4 x 1/2	0.24	17/32	9/16	15/16
1	0.49	5/8	25/32	11/4



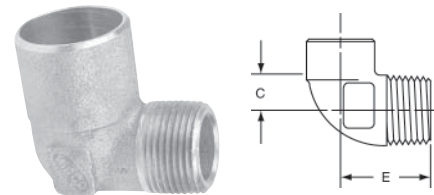
707-3-5-A
90° Hy-Set Elbow C x F – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. C INCHES	DIM. E INCHES
1/2	0.21	9/16	7/8



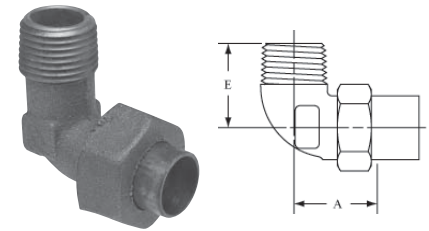
707-3-6
90° Union Elbow C x F – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. E INCHES
1/2	0.31	11/8	7/8
3/4	0.49	17/16	1
1	0.79	17/8	11/4



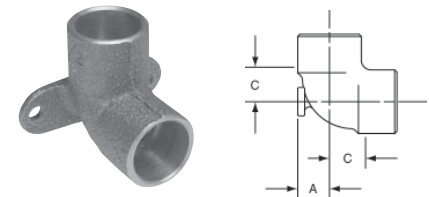
707-4
90° Elbow C x M – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. C INCHES	DIM. E INCHES
3/8	0.08	5/16	7/8
1/2	0.12	7/16	15/32
1/2 x 3/4	0.18	9/16	15/32
1/2 x 3/8	0.10	5/16	15/16
3/4	0.21	9/16	111/32
3/4 x 1	0.33	21/32	113/32
3/4 x 1/2	0.18	7/16	17/32
1	0.43	23/32	15/8
1 1/4	0.58	7/8	111/16
1 1/2	0.81	1	131/32
2	1.38	11/4	29/32



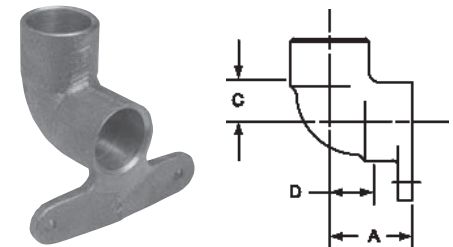
707-4-6
90° Union Elbow C x M – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. E INCHES
3/8	0.21	13/32	13/16
1/2	0.30	11/32	11/2
3/4	0.49	15/16	113/16
1	0.72	123/32	15/8
1 1/4	1.16	13/4	127/32



707-5
90° Drop Elbow C x C – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. C INCHES
1/2	0.13	13/32	7/16
3/4	0.24	17/32	9/16

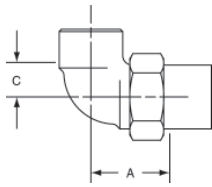


707-5-A
90° Hy-Set Elbow C x C – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. C INCHES	DIM. D INCHES
1/2	0.13	31/32	7/16	15/32
3/4	0.21	15/16	9/16	9/16

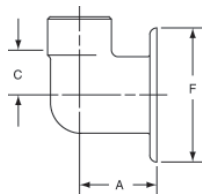
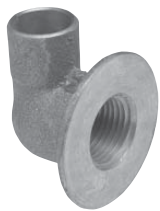
Consult price sheet for Made to Order items and for minimum order quantities.

ELBOWS *continued*



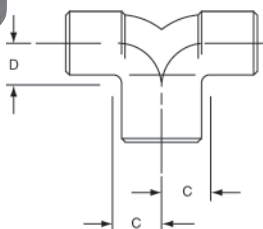
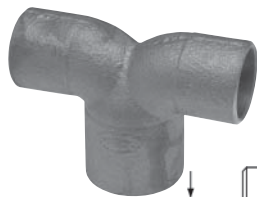
707-6
90° Union Elbow C x C – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. C INCHES
3/8	0.17	31/32	5/16
1/2	0.24	1	7/16
3/4	0.39	1 17/32	9/16
1	0.64	1 21/32	23/32
1 1/4	1.07	1 19/32	23/32



708
90° Flanged Sink Elbow
C x F – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. C INCHES	DIM. F INCHES
1/2	0.20	7/8	9/16	1 3/4

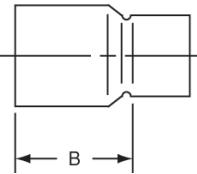


764
90° Double Elbow
C x C x C – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. C INCHES	DIM. D INCHES
1 x 3/4 x 3/4	0.33	3/4	21/32

Consult price sheet for Made to Order items and for minimum order quantities.

FITTING REDUCERS



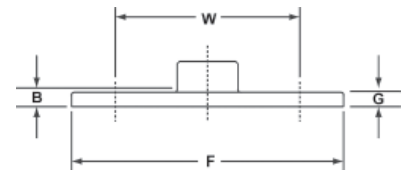
600-2
Fitting Reducer Ftg x C – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
1/4 x 1/8	0.01	15/32
3/8 x 1/4	0.01	19/32
3/8 x 1/8	0.01	25/32
1/2 x 3/8	0.03	11/16
1/2 x 1/4	0.02	25/32
5/8 x 1/2	0.04	7/8
5/8 x 3/8	0.04	31/32
5/8 x 1/4	0.03	1 1/32
3/4 x 5/8	0.06	31/32
3/4 x 1/2	0.06	1 1/8
3/4 x 3/8	0.05	1 1/8
3/4 x 1/4	0.05	1 3/32
1 x 3/4	0.10	1 7/32
1 x 5/8	0.09	1 3/8
1 x 1/2	0.09	1 1/4
1 x 3/8	0.08	1 9/32
1 1/4 x 1	0.15	1 5/16
1 1/4 x 3/4	0.16	1 1/2
1 1/4 x 1/2	0.13	1 3/8
1 1/2 x 1 1/4	0.23	1 13/32
1 1/2 x 1	0.21	1 5/8
1 1/2 x 3/4	0.20	1 7/8
1 1/2 x 1/2	0.16	1 19/32
2 x 1 1/2	0.40	1 31/32
2 x 1 1/4	0.34	2 3/32
2 x 1	0.35	1 27/32
2 x 3/4	0.35	1 27/32
2 x 1/2	0.34	1 31/32
2 1/2 x 2	0.65	1 31/32
2 1/2 x 1 1/2	0.65	2 3/8
2 1/2 x 1 1/4	0.60	2 7/32
2 1/2 x 1	0.78	2 9/32
3 x 2 1/2	1.03	2 1/4
3 x 2	0.99	2 9/16
3 x 1 1/2	0.81	2 19/32
3 x 1 1/4	1.29	3 1/4
3 1/2 x 3	1.48	2 11/32

Continues...

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
4 x 3 1/2	2.09	2 5/8
4 x 3	2.00	3 1/32
4 x 2 1/2	1.56	3 1/32
4 x 2	1.76	3 13/32
5 x 4	3.30	3 9/16
5 x 3	2.97	4 1/16
5 x 2 1/2	3.30	4 11/32
5 x 2	2.88	4 11/16
6 x 5	5.56	4 3/16
6 x 4	5.09	4 9/16
6 x 3	4.67	5 1/16
6 x 2 1/2	4.47	5 11/32
6 x 2	4.51	5 19/32
8 x 6	12.33	5 15/32
8 x 5	10.35	5 15/16
8 x 4	11.10	6 7/16
8 x 3	10.63	6 15/16
8 x 2 1/2	11.41	7 3/16
8 x 2	10.86	7 7/16

FLANGES – CLASS 125



741
Companion Flange C – Cast

NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES	DIM. F INCHES	DIM. G INCHES	DIM. W INCHES
1/2	0.55	1/8	3 1/2	3/16	2 3/8
3/4	0.71	1/8	3 7/8	3/16	2 3/4
1	1.26	1/8	4 1/4	1/4	3 1/8
1 1/4	1.42	1/8	4 5/8	1/4	3 1/2
1 1/2	1.82	1/8	5	5/16	3 7/8
2	2.76	1/8	6	3/8	4 3/4
2 1/2	4.29	1/8	7	3/8	5 1/2
3	5.26	1/8	7 1/2	7/16	6
4	7.60	1/8	9	7/16	7 1/2
5	9.04	1/8	10	7/16	8 1/2
6	12.68	1/8	11	1/2	9 1/2

NOTE: Dim. B = Tube Stop to Flange Face