

# BRASS NIPPLES

PRICE LIST BRNL 899

EFFECTIVE AUGUST 9, 1999

*SUPERSEDES BRNL 397*

**MERITT**  
**BRASS**

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**LIST PRICES SHOWN APPLY TO STANDARD BRASS, EXTRA HEAVY BRASS, CHROME-PLATED AND COPPER NIPPLES**

## **“SPECIALS” ARE MERIT’S SPECIALTY**

List prices and corresponding discounts apply to stock items only. All other lengths, threads and thread one end nipples are considered “specials” and will be quoted upon request. WE WELCOME ALL INQUIRIES FOR SPECIALS.

### **NOTE: STANDARD PACKAGING AS FOLLOWS**

*1/8" thru 3/4" inclusive (close thru 4" lengths) - inner packed 5	- Master packed 25
1/8 thru 3/4" inclusive (4 1/2" lengths and longer)	- Master packed 25
1" Diameter (all lengths)	- Master packed 25
1-1/4", 1-1/2" and 2" Diameters (all lengths)	- Master packed 10
2-1/2" and Larger	- Packed per Order

**\*Standard Brass Nipples in these diameters and lengths will be shipped and invoiced in multiples of 5 only** - Please order accordingly. *Certain sizes are available in bulk pack quantities of 100.* Please ask your Merit sales representative for details.

**Merit Brass Co.**

**Meeting our customers needs... Since 1937.**



# RED BRASS PIPE NIPPLES *LIST PRICES*

DIAMETER INCHES	LENGTH OF CLOSE	Length In Inches																
		1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	6"	7"	8"	9"	10"	11"	12"	
1/8"	3/4"	4.42	4.98	5.36	6.07	6.55	7.08	7.95	8.99	9.73	10.50	11.26	13.40	14.75	18.14	19.85	21.54	22.91
1/4"	7/8"	5.16	5.98	6.76	7.32	8.60	9.36	11.01	11.94	13.02	14.11	15.86	18.10	19.83	22.02	24.19	26.40	28.57
3/8"	1"	5.35	6.33	7.69	8.33	10.20	11.01	13.09	13.94	15.29	16.62	17.97	21.83	24.47	28.95	29.15	31.83	34.52
1/2"	1-1/8"	7.14	8.26	9.71	11.54	13.55	15.47	17.72	19.23	21.18	23.27	25.80	29.89	33.48	37.16	41.10	44.96	48.90
3/4"	1-3/8"	10.28	10.96	12.95	15.02	17.32	19.44	22.60	24.58	27.13	29.65	33.01	38.68	43.56	48.23	53.17	58.01	63.25
1"	1-1/2"	15.16		18.70	21.83	25.13	29.10	32.73	36.50	40.36	44.21	48.19	56.30	64.26	71.71	79.54	85.82	94.86
1-1/4"	1-5/8"	22.88		26.13	29.55	34.97	40.92	46.07	51.01	56.24	61.53	67.19	79.27	89.80	106.49	111.05	127.12	132.83
1-1/2"	1-3/4"	29.75		32.02	38.35	44.07	50.61	57.41	64.51	71.37	78.09	84.82	99.13	112.60	126.07	139.52	152.99	166.44
2"	2"	45.30			48.92	56.45	64.98	73.86	82.35	91.31	100.15	109.04	127.54	145.46	162.19	180.15	194.66	214.87
2-1/2"	2-1/2"	119.59				125.02	141.65	157.47	168.93	185.84	200.14	219.13	249.64	286.70	318.23	351.64	378.89	415.69
3"	2-5/8"	162.62				168.98	191.16	215.31	236.68	260.42	282.96	307.58	358.90	408.88	447.75	496.71	540.16	594.95
4"	2-7/8"	244.66				248.50	279.01	318.20	343.71	379.62	404.81	446.99	513.15	582.08	650.96	719.88	788.91	849.37
5"	3"	662.73							895.07	972.51	1049.96	1127.39	1321.91	1476.81	1631.69	1786.50	1941.48	2096.33
6"	3-1/8"	789.88							1050.28	1144.97	1239.67	1334.35	1563.37	1739.61	1942.14	2131.54	2320.90	2510.28

All Brass Pipe Nipples are produced from Red Brass Pipe conforming to ASTM B43, drawn general purpose temper (H58); unless otherwise noted.

Every precaution has been taken in preparing this price sheet. Merit Brass Company cannot be held responsible for omissions or typographical errors. Certain inventory limitations may apply.

# Merit Brass Co.



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## **E-Mail:**

[clev\\_sales@meritbrass.com](mailto:clev_sales@meritbrass.com)

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## *Reno Distribution Center:*

200 Vista Blvd., Suite #106  
Sparks, NV 89434

## **Telephone:**

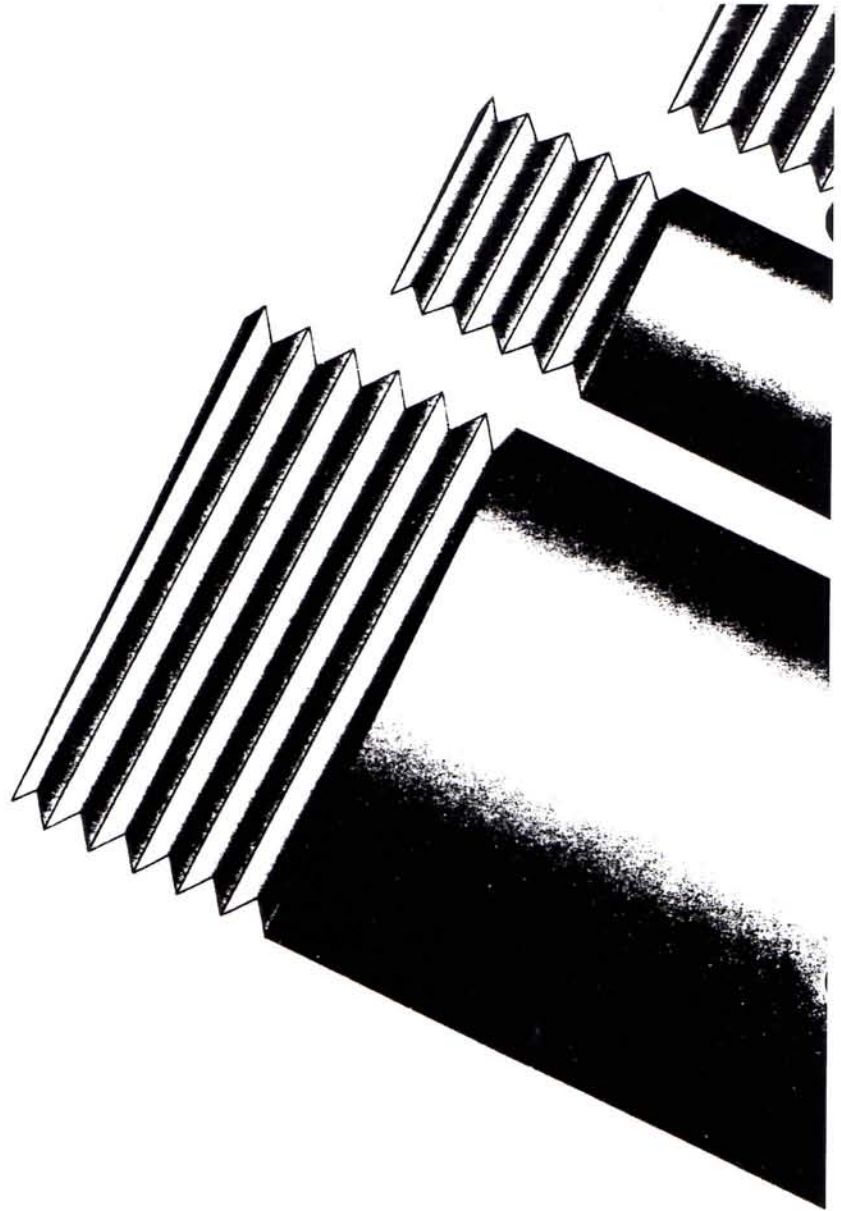
877-711-RENO (Toll Free)

## **Fax:**

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[reno\\_sales@meritbrass.com](mailto:reno_sales@meritbrass.com)



# MERITT BRASS

*Meeting Our Customer's Needs... Since 1937*

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850  
265 1824

"FAX" COVER SHEET

DATE: 12-5-2000  
FROM: Will Lobbica  
TO: Bob (only)  
COMPANY: Merrick  
RE: \_\_\_\_\_

TOTAL NO. OF PAGES, INCLUDING COVER SHEET 23

IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL US IMMEDIATELY.  
THANK YOU.

PHONE: (216) 261-9800  
(800) 726-9800

FAX: (800) 726-9880

800 877-3524

For Bob only

Flagg Brass  
1020 West High St.  
Stowe, PA 19464  
610 326-9000  
610-326-9502

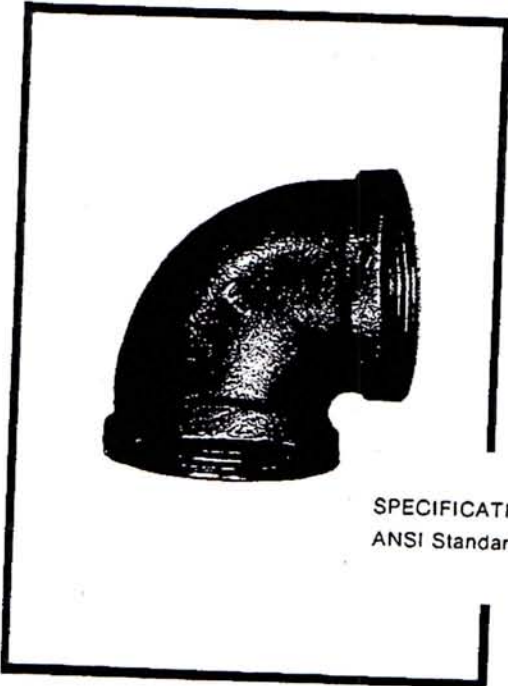




803 733 1202  
Dowell

SECTION 1

STANLEY G. FLAGG & CO. • 1020 W. HIGH STREET, STOWE, PA. 19464



FLAGG FITTINGS

**STANDARD  
CAST BRONZE** (Threaded)

SPECIFICATIONS:—Standard Cast Bronze Fittings  
ANSI Standard B16.15

(The latest issue of any specification shall constitute the authority)

The metal used in Flagg standard cast bronze fittings is produced to rigid specifications. These fittings have a smooth, attractive finish and are inspected and tested in accordance with the requirements of the above specifications.

Maximum pressures for Flagg standard cast bronze fittings are:

*125 psi Working Steam Pressure (W. S. P.)*

*200 psi Non-shock Cold Water, Oil or Gas (W. O. G.)*

- Fittings marked (•) will be furnished from stock if available—or made to order if quantities warrant.

GENERAL DIMENSIONS, in inches, to nearest 1/32".

(For Center-to-Face Dimensions see Fittings' Tables)

These dimensions apply to both straight and reducing sizes.

PIPE SIZE	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Outside diameter of Band	1 1/16	1 3/16	1	1 3/16	1 7/16	1 23/32	2 3/32	2 3/8	2 15/16	3 1/2	4 3/16	5 5/16
Width of Band	3/8	5/32	3/16	3/16	7/32	9/32	5/16	1 1/32	1 3/32	1 5/32	9/16	2 1/32
Length of thread (min.)	1/4	5/16	3/8	7/16	1/2	9/16	1 1/16	1 1/16	3/4	1 5/16	1	1 1/16

**FLAGG  FITTINGS**

SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C
<b>ELBOWS* . . . 90°</b>					Fig Nos.	Rough	4101
						Chrome	4201
020	1/8	35	16	5	9/16	—	—
040	1/4	30	8	9	1 1/16	—	—
060	3/8	30	12	14	1 3/16	—	—
100	1/2	50	6	23	1	—	—
150	3/4	35	6	36	1 3/16	—	—
200	1	20	6	55	1 7/16	—	—
250	1 1/4	20	4	95	1 11/16	—	—
300	1 1/2	12	4	129	1 13/16	—	—
400	2	8	4	195	2 1/8	—	—
450	2 1/2	—	—	393	2 11/16	—	—
500	3	—	—	580	3 1/16	—	—
550	• 3 1/2	—	—	780	3 7/16	—	—
600	4	—	—	1112	3 13/16	—	—
650	5	—	—	1788	4 1/2	—	—
700	6	—	—	2875	5 1/8	—	—
750	• 8	—	—	5200	6 9/16	—	—

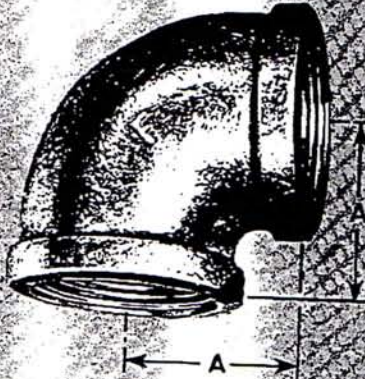


Fig. 4101

**ELBOWS . . . 90° REDUCING**

SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C
<b>ELBOWS . . . 90° REDUCING</b>					Fig Nos.	Rough	4101
						Chrome	4201
039	1/4 x 1/8	—	—	9	5/8	5/8	—
058	3/8 x 1/8	—	—	13	3/4	3/4	—
059	3/8 x 1/4	—	—	15	3/4	3/4	—
097	• 1/2 x 1/8	—	—	20	1	1	—
098	1/2 x 1/4	—	—	19	1	1	—
099	1/2 x 3/8	50	6	20	1 5/16	7/8	—
147	• 3/4 x 1/4	—	—	31	1	1	—
148	3/4 x 3/8	—	—	29	1	1	—
149	3/4 x 1/2	30	6	30	1 1/16	1 1/8	—
197	• 1 x 3/8	—	—	47	1 3/16	1 1/4	—
198	1 x 1/2	—	—	48	1 3/16	1 1/4	—
199	1 x 3/4	—	—	48	1 5/16	1 5/16	—
247	1 1/4 x 1/2	—	—	60	1 5/16	1 7/16	—
248	1 1/4 x 3/4	—	—	80	1 7/16	1 5/8	—
249	1 1/4 x 1	—	—	88	1 1/2	1 5/8	—
296	• 1 1/2 x 1/2	—	—	93	1 13/32	1 21/32	—
297	1 1/2 x 3/4	—	—	97	1 1/2	1 3/4	—
298	1 1/2 x 1	—	—	115	1 5/16	1 3/4	—
299	1 1/2 x 1 1/4	—	—	137	1 3/4	1 13/16	—
395	• 2 x 1/2	—	—	130	1 1/2	1 7/8	—
396	• 2 x 3/4	—	—	120	1 5/8	2	—
397	2 x 1	—	—	168	1 3/4	2	—
398	2 x 1 1/4	—	—	153	1 3/4	2 1/16	—
399	2 x 1 1/2	—	—	166	1 7/8	2 1/16	—
448	2 1/2 x 1 1/2	—	—	295	2 3/16	2 1/2	—
449	2 1/2 x 2	—	—	320	2 3/8	2 5/8	—
498	3 x 2	—	—	436	2 1/2	2 7/8	—
499	3 x 2 1/2	—	—	525	2 13/16	3	—
597	• 4 x 2 1/2	—	—	858	3 1/16	3 1/2	—
598	4 x 3	—	—	950	3 5/16	3 3/8	—

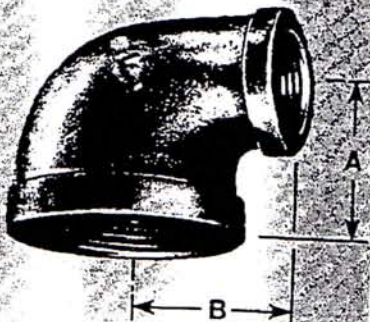


Fig. 4101

\*Plain Pattern Elbows 3/8" thru 2" would be made to order, in straight sizes only, providing the quantities warrant.  
 •Non-Standard; See page 5 for details.

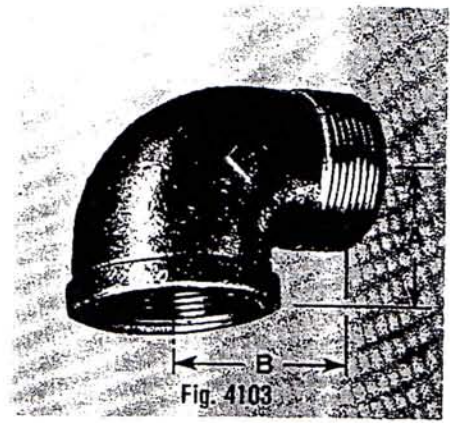


**FLAGG FF FITTINGS**

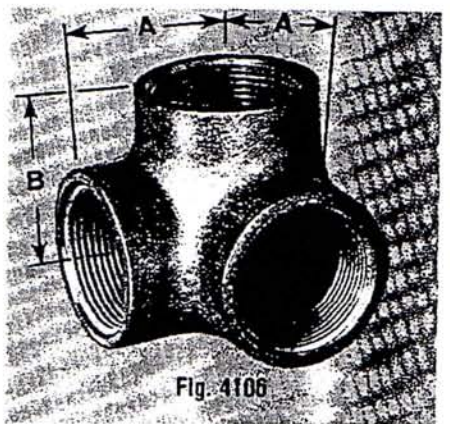
**CAST BRONZE FITTINGS**

125 Lbs. W. S. P. 200 Lbs. non-shock W. O. G.

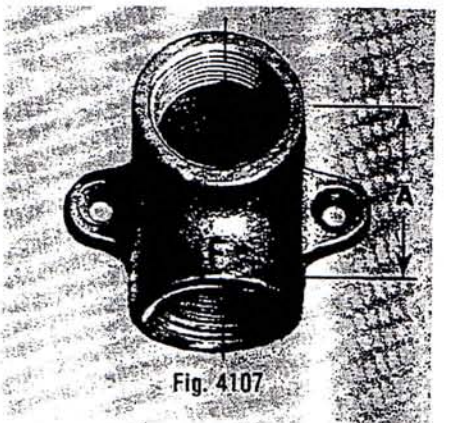
SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C
<b>ELBOWS . . . STREET 90°</b>					Rough	4103	
					Chrome	4203	
					Fig. Nos.		
020	1/8	40	16	6	1 1/16	1	—
040	1/4	30	8	11	1 3/16	1 3/16	—
060	3/8	30	12	15	1 5/16	1 1/4	—
100	1/2	50	6	22	1	1 1/2	—
149	3/4 x 1/2	—	—	35	1 3/16	1 3/8	—
150	3/4	40	4	34	1 3/16	1 5/8	—
200	1	25	4	60	1 1/2	2	—
249	• 1 1/4 x 1	—	—	90	1 9/16	2 3/16	—
250	1 1/4	15	4	96	1 11/16	2 1/4	—
300	1 1/2	12	4	135	1 13/16	2 3/8	—
400	2	8	4	200	2 3/32	2 9/16	—
450	• 2 1/2	—	—	421	2 11/16	3 3/8	—
500	• 3	—	—	651	3 1/16	4 1/2	—
600	• 4	—	—	1136	3 11/16	5 9/16	—



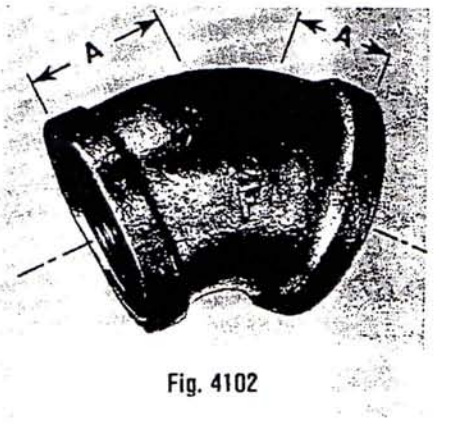
<b>ELBOWS . . . SIDE OUTLET, PLAIN</b>					Rough	4106	
					Chrome	4206	
					Fig. Nos.		
060	• 3/8	—	—	22	1 5/16	—	—
100	• 1/2	—	—	31	1 1/8	—	—
150	• 3/4	—	—	43	1 9/16	—	—
200	• 1	—	—	86	1 1/2	—	—
250	• 1 1/4	—	—	125	1 3/4	—	—
300	• 1 1/2	—	—	171	1 15/16	—	—
400	• 2	—	—	280	2 1/4	—	—



<b>ELBOWS . . . DROP, PLAIN</b>					Rough	4107	
					Chrome	4207	
					Fig. Nos.		
060	• 3/8	—	—	20	1 5/16	—	—
100	1/2	—	—	35	1 1/8	—	—



<b>ELBOWS* . . . 45°</b>					Rough	4102	
					Chrome	4202	
					Fig. Nos.		
020	1/8 ✓	50	8	5	7/16	—	—
040	1/4	35	8	9	9/16	—	—
060	3/8	40	12	14	5/8	—	—
100	1/2	50	6	20	3/4	—	—
150	3/4	40	6	32	7/8	—	—
200	1	25	6	51	1 1/16	—	—
250	1 1/4	15	6	80	1 1/4	—	—
300	1 1/2	12	4	106	1 5/16	—	—
400	2	8	4	171	1 7/16	—	—
450	2 1/2	—	—	325	1 15/16	—	—
500	3	—	—	500	2 3/16	—	—
600	4	—	—	885	2 5/8	—	—
650	• 5	—	—	1490	3 1/16	—	—
700	• 6	—	—	2117	3 7/16	—	—



\*Plain Pattern 45° Elbows 1/2" thru 2" would be made to order, in straight sizes only, providing the quantities warrant.  
 •Non-Standard; See page 5 for details.



# CAST BRONZE FITTINGS

125 Lbs. W. S. P. 200 Lbs. non-shock W. O. G.

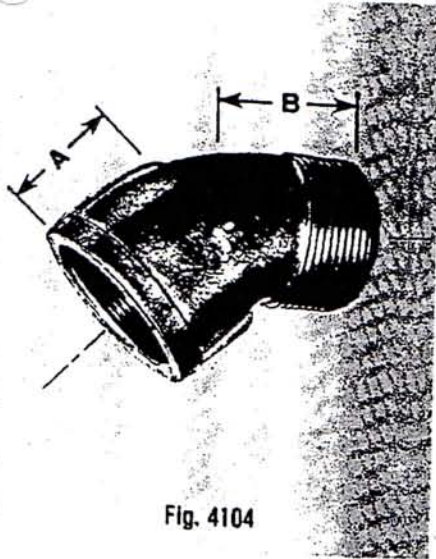


Fig. 4104

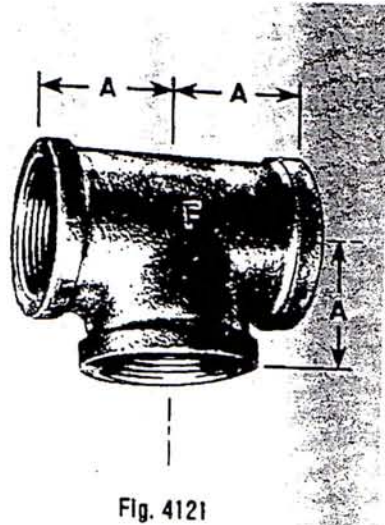


Fig. 4121

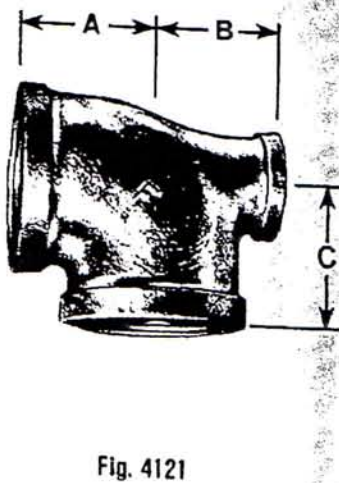


Fig. 4121

SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C
<b>ELBOWS . . . STREET 45°</b>					<b>Fig. Nos.</b>		
					Rough	4104	
					Chrome	4204	
020	• 1/8	—	—	7	1 1/16	27/32	—
040	1/4	—	—	11	3/4	15/16	—
060	3/8	—	—	16	13/16	1	—
100	1/2	—	—	23	7/8	1 1/8	—
150	3/4	—	—	35	15/16	1 1/4	—
200	1	—	—	57	1 3/32	1 7/16	—
250	1 1/4	—	—	91	1 1/4	1 27/32	—
300	1 1/2	—	—	123	1 3/8	1 13/16	—
400	2	—	—	210	1 5/8	2 3/32	—

SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C
<b>TEES*</b>					<b>Fig. Nos.</b>		
					Rough	4121	
					Chrome	4221	
020	1/8	35	8	8	9/16	—	—
040	1/4	35	12	13	1 1/16	—	—
060	3/8	30	12	21	1 3/16	—	—
100	1/2	40	6	34	1	—	—
150	3/4	35	4	49	1 3/16	—	—
200	1	20	4	103	1 7/16	—	—
250	1 1/4	15	4	126	1 11/16	—	—
300	1 1/2	10	4	169	1 13/16	—	—
400	2	10	2	260	2 1/8	—	—
450	2 1/2	—	—	512	2 11/16	—	—
500	3	—	—	763	3 1/16	—	—
550	3 1/2	—	—	975	3 7/16	—	—
600	4	—	—	1400	3 13/16	—	—
650	5	—	—	2175	4 1/2	—	—
700	• 6	—	—	3380	5 1/8	—	—

SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C
<b>TEES . . . REDUCING</b>					<b>Fig. Nos.</b>		
					Rough	4121	
					Chrome	4221	
021	1/8 x 1/8 x 1/4	—	—	13	3/4	3/4	23/32
039	1/4 x 1/4 x 1/8	—	—	15	21/32	21/32	19/32
041	1/4 x 1/4 x 3/8	—	—	16	25/32	25/32	3/4
054	3/8 x 1/4 x 1/4	—	—	17	3/4	1 1/16	3/4
055	3/8 x 1/4 x 3/8	—	—	20	13/16	3/4	13/16
058	• 3/8 x 3/8 x 1/8	—	—	19	3/4	3/4	25/32
059	3/8 x 3/8 x 1/4	—	—	19	3/4	3/4	3/4
061	3/8 x 3/8 x 1/2	—	—	27	7/8	7/8	15/16
080	1/2 x 1/4 x 1/2	—	—	27	1	27/32	1
089	1/2 x 3/8 x 3/8	—	—	25	15/16	13/16	7/8
090	• 1/2 x 3/8 x 1/2	—	—	29	1	7/8	1
097	1/2 x 1/2 x 1/8	—	—	21	29/32	29/32	29/32
098	1/2 x 1/2 x 1/4	25	12	28	7/8	7/8	7/8
099	1/2 x 1/2 x 3/8	35	6	27	15/16	15/16	7/8
101	1/2 x 1/2 x 3/4	—	—	38	1 1/8	1 1/8	1 1/16
128	• 3/4 x 3/8 x 3/8	—	—	34	1	15/16	1
129	• 3/4 x 3/8 x 1/2	—	—	45	1 3/16	1	27/32

\*Plain pattern Tees 1/4" thru 2" would be made to order, in straight sizes only, providing the quantities warrant.  
•Non-Standard; See page 5 for details.





SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C
<b>TEES . . . REDUCING (Cont.)</b>					Rough	4121	
					Chrome	4221	
				Fig. Nos.			
130	• 3/4 x 3/8 x 3/8	—	—	46	1 3/16	1 3/32	1 3/16
138	3/4 x 1/2 x 3/8	—	—	35	1	1 5/16	1
139	3/4 x 1/2 x 1/2	35	4	39	1 1/16	1	1 1/8
140	3/4 x 1/2 x 3/4	35	4	45	1 3/16	1 1/8	1 3/16
141	• 3/4 x 1/2 x 1	—	—	60	1 5/16	1 5/16	1 5/16
147	3/4 x 3/4 x 1/4	—	—	38	1	1	1
148	3/4 x 3/4 x 3/8	—	—	43	1	1	1
149	3/4 x 3/4 x 1/2	35	4	43	1 1/16	1 1/16	1 1/8
151	3/4 x 3/4 x 1	—	—	72	1 5/16	1 5/16	1 5/16
178	1 x 1/2 x 1/2	—	—	60	1 3/16	1 1/16	1 1/4
179	1 x 1/2 x 3/4	—	—	59	1 5/16	1 1/8	1 5/16
180	1 x 1/2 x 1	—	—	69	1 7/16	1 1/4	1 7/16
188	1 x 3/4 x 1/2	—	—	55	1 3/16	1 1/16	1 1/4
189	1 x 3/4 x 3/4	—	—	61	1 5/16	1 3/16	1 5/16
190	1 x 3/4 x 1	—	—	71	1 7/16	1 5/16	1 7/16
196	1 x 1 x 1/4	—	—	64	1 1/8	1 1/8	1 1/4
197	1 x 1 x 3/8	—	—	66	1 1/8	1 1/8	1 1/8
198	1 x 1 x 1/2	—	—	62	1 3/16	1 3/16	1 1/4
199	1 x 1 x 3/4	—	—	73	1 5/16	1 5/16	1 5/16
201	1 x 1 x 1 1/4	—	—	107	1 5/8	1 5/8	1 1/2
202	1 x 1 x 1 1/2	—	—	142	1 3/4	1 3/4	1 1/16
218	1 1/4 x 1/2 x 1	—	—	104	1 9/16	1 3/8	1 11/16
219	1 1/4 x 1/2 x 1 1/4	—	—	106	1 11/16	1 3/8	1 11/16
223	• 1 1/4 x 3/4 x 3/4	—	—	84	1 13/32	1 5/16	1 15/32
224	1 1/4 x 3/4 x 1	15	4	109	1 19/32	1 15/32	1 11/16
225	1 1/4 x 3/4 x 1 1/4	—	—	107	1 11/16	1 1/2	1 11/16
232	1 1/4 x 1 x 1/2	—	—	81	1 3/8	1 5/16	1 1/2
233	1 1/4 x 1 x 3/4	—	—	90	1 3/8	1 5/16	1 1/2
234	1 1/4 x 1 x 1	—	—	104	1 1/2	1 7/16	1 5/8
235	1 1/4 x 1 x 1 1/4	—	—	110	1 11/16	1 5/8	1 11/16
247	1 1/4 x 1 1/4 x 1/2	—	—	89	1 3/16	1 3/16	1 7/16
248	1 1/4 x 1 1/4 x 3/4	—	—	98	1 3/8	1 3/8	1 1/2
249	1 1/4 x 1 1/4 x 1	—	—	111	1 1/2	1 1/2	1 5/8
251	• 1 1/4 x 1 1/4 x 1 1/2	—	—	135	1 13/16	1 13/16	1 3/4
265	1 1/2 x 1/2 x 1 1/2	—	—	136	1 13/16	1 9/16	1 13/16
269	1 1/2 x 3/4 x 1 1/4	—	—	154	1 27/32	1 19/32	1 27/32
270	1 1/2 x 3/4 x 1 1/2	—	—	138	1 13/16	1 5/8	1 13/16
278	1 1/2 x 1 x 1	—	—	140	1 5/8	1 1/2	1 13/16
279	1 1/2 x 1 x 1 1/4	—	—	155	1 13/16	1 11/16	1 7/8
280	1 1/2 x 1 x 1 1/2	—	—	167	1 7/8	1 13/16	1 7/8
286	• 1 1/2 x 1 1/4 x 1/2	—	—	115	1 7/16	1 5/16	1 11/16
287	1 1/2 x 1 1/4 x 3/4	—	—	147	1 17/32	1 15/32	1 3/4
288	1 1/2 x 1 1/4 x 1	—	—	122	1 9/16	1 1/2	1 3/4
289	1 1/2 x 1 1/4 x 1 1/4	—	—	141	1 3/4	1 11/16	1 13/16
290	1 1/2 x 1 1/4 x 1 1/2	—	—	157	1 13/16	1 13/16	1 13/16
296	1 1/2 x 1 1/2 x 1/2	—	—	114	1 5/16	1 5/16	1 1/2
297	1 1/2 x 1 1/2 x 3/4	—	—	125	1 7/16	1 7/16	1 5/8
298	1 1/2 x 1 1/2 x 1	—	—	131	1 9/16	1 9/16	1 3/4
299	1 1/2 x 1 1/2 x 1 1/4	—	—	150	1 3/4	1 3/4	1 13/16
302	1 1/2 x 1 1/2 x 2	—	—	201	2 1/16	2 1/16	1 7/8
350	2 x 1/2 x 2	—	—	204	2 1/8	1 27/32	2 1/8
360	2 x 3/4 x 2	—	—	206	2 1/8	1 27/32	2 1/8
367	• 2 x 1 x 1	—	—	178	2 1/4	2	2 1/4
369	• 2 x 1 x 1 1/2	—	—	253	2 1/32	1 7/8	2 5/32
370	2 x 1 x 2	—	—	223	2 1/8	2 1/16	2 1/8

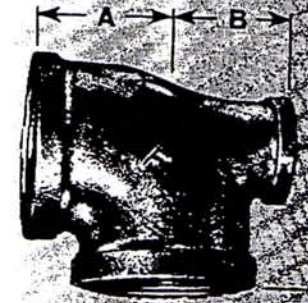


Fig. 4121

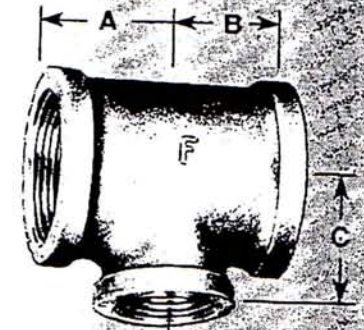


Fig. 4121

•Non-Standard; See page 5 for details.



# STANDARD SECTION CAST BRONZE FITTINGS

125 Lbs. W. S. P. 200 Lbs. non-shock W. O. G.

FLAGG **FF** FITTINGS

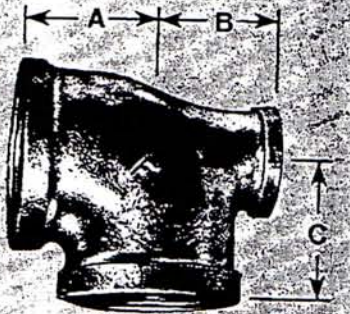
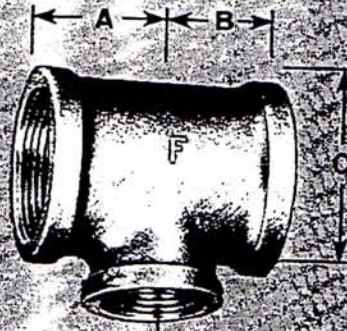
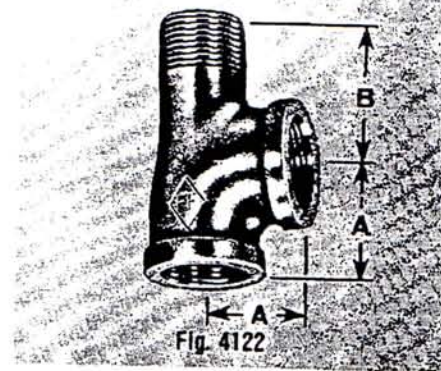


Fig. 4121

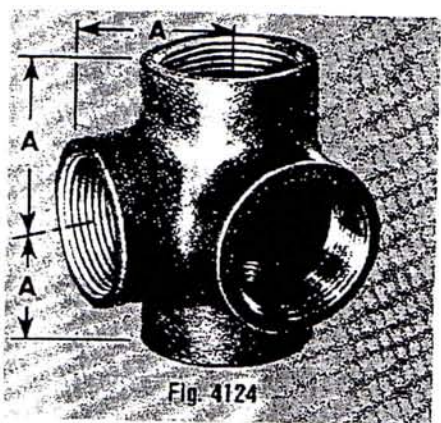
SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C
<b>TEES . . . REDUCING (Cont.)</b>					<b>Rough 4121</b>		
					<b>Chrome 4221</b>		
					<b>Fig. Nos.</b>		
378	2 x 1 1/4 x 1 1/4	—	—	181	1 23/32	1 23/32	2 1/32
379	• 2 x 1 1/4 x 1 1/2	—	—	224	1 7/8	1 13/16	2 1/16
380	2 x 1 1/4 x 2	—	—	259	2 1/8	2 1/16	2 1/8
387	2 x 1 1/2 x 1	—	—	168	1 23/32	1 23/32	2 1/32
388	2 x 1 1/2 x 1 1/4	—	—	190	1 23/32	1 23/32	2 1/32
389	2 x 1 1/2 x 1 1/2	—	—	215	1 7/8	1 13/16	2 1/16
390	2 x 1 1/2 x 2	—	—	240	2 1/8	2 1/16	2 1/8
395	2 x 2 x 1/2	—	—	186	1 1/2	1 1/2	1 7/8
396	2 x 2 x 3/4	—	—	178	1 1/2	1 1/2	1 13/16
397	2 x 2 x 1	—	—	193	1 9/16	1 9/16	1 15/16
398	2 x 2 x 1 1/4	—	—	214	1 3/4	1 3/4	2 1/16
399	2 x 2 x 1 1/2	—	—	225	1 7/8	1 7/8	2 1/16
401	2 x 2 x 2 1/2	—	—	370	2 5/8	2 5/8	2 3/8
402	2 x 2 x 3	—	—	441	2 7/8	2 7/8	2 1/2
410	• 2 1/2 x 1/2 x 2 1/2	—	—	500	2 11/16	2 1/2	2 11/16
415	2 1/2 x 3/4 x 2 1/2	—	—	475	2 11/16	2 1/2	2 11/16
420	2 1/2 x 1 x 2 1/2	—	—	475	2 11/16	2 1/2	2 11/16
425	• 2 1/2 x 1 1/4 x 2 1/2	—	—	468	2 11/16	2 1/2	2 11/16
430	2 1/2 x 1 1/2 x 2 1/2	—	—	430	2 11/16	2 1/2	2 11/16
438	2 1/2 x 2 x 1 1/2	—	—	401	2 3/8	2 1/4	2 5/8
439	2 1/2 x 2 x 2	—	—	375	2 3/8	2 1/4	2 5/8
440	2 1/2 x 2 x 2 1/2	—	—	455	2 11/16	2 5/8	2 11/16
444	2 1/2 x 2 1/2 x 1/2	—	—	266	1 5/8	1 5/8	2 1/16
445	2 1/2 x 2 1/2 x 3/4	—	—	290	1 3/4	1 3/4	2 5/16
446	2 1/2 x 2 1/2 x 1	—	—	331	1 7/8	1 7/8	2 3/8
447	2 1/2 x 2 1/2 x 1 1/4	—	—	360	2 1/16	2 1/16	2 7/16
448	2 1/2 x 2 1/2 x 1 1/2	—	—	408	2 5/32	2 5/32	2 1/2
449	2 1/2 x 2 1/2 x 2	—	—	422	2 3/8	2 3/8	2 5/8
451	• 2 1/2 x 2 1/2 x 3	—	—	600	3	3	2 13/16
459	3 x 3/4 x 3	—	—	637	3 1/16	2 11/16	3 1/16
460	• 3 x 1 x 3	—	—	700	3 1/16	2 11/16	3 1/16
465	• 3 x 1 1/4 x 3	—	—	621	3 1/16	2 5/8	3 1/16
470	• 3 x 1 1/2 x 3	—	—	637	3 1/16	2 5/8	3 1/16
478	3 x 2 x 2	—	—	502	2 1/2	2 1/4	2 7/8
480	3 x 2 x 3	—	—	597	3 1/16	2 7/8	3 1/16
488	3 x 2 1/2 x 2	—	—	616	2 13/16	2 11/16	3
489	3 x 2 1/2 x 2 1/2	—	—	600	2 13/16	2 11/16	3
490	• 3 x 2 1/2 x 3	—	—	749	3 1/16	3	3 1/16
493	3 x 3 x 1/2	—	—	477	1 7/8	1 7/8	2 5/8
494	3 x 3 x 3/4	—	—	450	1 7/8	1 7/8	2 5/8
495	3 x 3 x 1	—	—	470	2	2	2 23/32
496	3 x 3 x 1 1/4	—	—	499	2 3/16	2 3/16	2 3/4
497	3 x 3 x 1 1/2	—	—	546	2 5/16	2 5/16	2 11/16
498	3 x 3 x 2	—	—	600	2 1/4	2 1/2	2 7/8
499	3 x 3 x 2 1/2	—	—	690	2 13/16	2 13/16	3
575	• 4 x 2 x 4	—	—	1168	3 3/16	3 7/16	3 3/16
587	• 4 x 3 x 2	—	—	793	2 3/4	2 17/32	3 13/32
589	4 x 3 x 3	—	—	1037	3 5/16	3 3/32	3 5/8
590	• 4 x 3 x 4	—	—	1205	3 13/16	3 5/8	3 13/16
593	4 x 4 x 1	—	—	730	2 7/32	2 7/32	3 1/16
594	• 4 x 4 x 1 1/4	—	—	883	2 7/16	2 7/16	3 1/8
595	• 4 x 4 x 1 1/2	—	—	850	2 17/32	2 17/32	3 11/32
596	4 x 4 x 2	—	—	940	2 3/4	2 3/4	3 1/16
597	4 x 4 x 2 1/2	—	—	1071	3 1/16	3 1/16	3 17/32
598	4 x 4 x 3	—	—	1137	3 5/16	3 5/16	3 5/8
647	• 5 x 5 x 3	—	—	1892	3 1/2	3 1/2	4 7/32
649	• 5 x 5 x 4	—	—	1928	4	4	4 13/32
698	• 6 x 6 x 4	—	—	2475	4 1/8	4 1/8	4 15/16



SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C
<b>TEES... STREET</b>					Fig. Nos.	Rough 4122	Chrome 4222
040	1/4	—	—	16	1 3/16	1 3/16	—
060	• 3/8	—	—	25	1 5/16	1 7/16	—
100	1/2	—	—	33	1 1/8	1 5/8	—
150	• 3/4	—	—	60	1 5/16	1 7/8	—
200	• 1	—	—	97	1 1/2	2 1/8	—
250	• 1 1/4	—	—	151	1 3/4	2 7/16	—
300	• 1 1/2	—	—	197	1 15/16	2 11/16	—
400	• 2	—	—	285	2 1/4	3 1/4	—



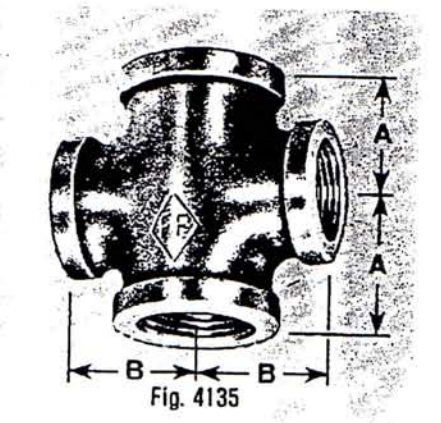
<b>TEES... SIDE OUTLET, PLAIN</b>					Fig. Nos.	Rough 4124	Chrome 4224
060	• 3/8	—	—	30	1 5/16	—	—
100	• 1/2	—	—	37	1 1/8	—	—
150	• 3/4	—	—	63	1 5/16	—	—
200	• 1	—	—	100	1 1/2	—	—
250	• 1 1/4	—	—	150	1 3/4	—	—
300	• 1 1/2	—	—	210	1 15/16	—	—
400	• 2	—	—	315	2 1/4	—	—



<b>CROSSES</b>					Fig. Nos.	Rough 4135	Chrome 4235
020	1/8	—	—	10	9/16	—	—
040	1/4	—	—	19	1 1/16	—	—
060	3/8	—	—	31	1 3/16	—	—
100	1/2	—	—	38	1	—	—
150	3/4	—	—	74	1 5/16	—	—
200	1	—	—	116	1 1/2	—	—
250	1 1/4	—	—	179	1 3/4	—	—
300	1 1/2	—	—	197	1 13/16	—	—
400	2	—	—	310	2 1/8	—	—
450	• 2 1/2	—	—	600	2 11/16	—	—
500	• 3	—	—	825	3 1/16	—	—
600	• 4	—	—	1550	3 3/16	—	—



<b>CROSSES... REDUCING</b>					Fig. Nos.	Rough 4135	Chrome 4235
149	3/4 x 3/4 x 1/2 x 1/2	—	—	53	1 1/16	1 1/8	—
198	1 x 1 x 1/2 x 1/2	—	—	77	1 1/4	1 9/32	—
199	• 1 x 1 x 3/4 x 3/4	—	—	81	1 5/16	1 5/16	—
249	• 1 1/4 x 1 1/4 x 1 x 1	—	—	136	1 17/32	1 21/32	—
298	• 1 1/2 x 1 1/2 x 1 x 1	—	—	159	1 17/32	1 3/4	—
299	• 1 1/2 x 1 1/2 x 1 1/4 x 1 1/4	—	—	172	1 23/32	1 13/16	—
399	• 2 x 2 x 1 1/2 x 1 1/2	—	—	257	1 29/32	2 1/16	—



•Non-Standard; See page 5 for details.



# CAST BRONZE FITTINGS

125 Lbs. W. S. P. 200 Lbs. non-shock W. O. G.

## FLAGG **FF** FITTINGS

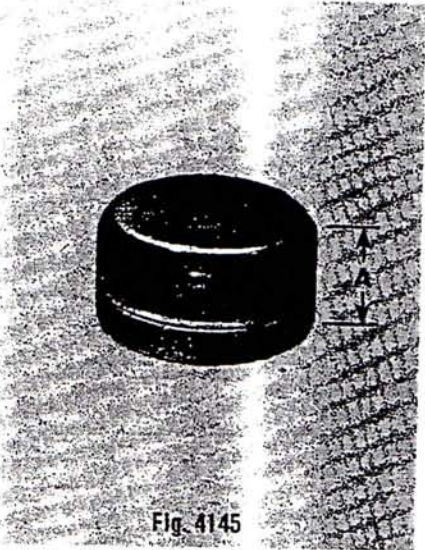


Fig. 4145

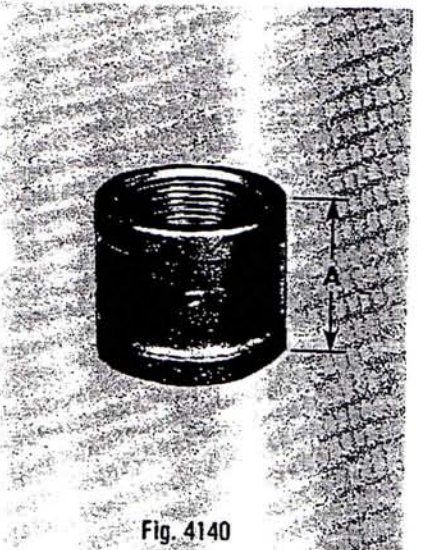


Fig. 4140

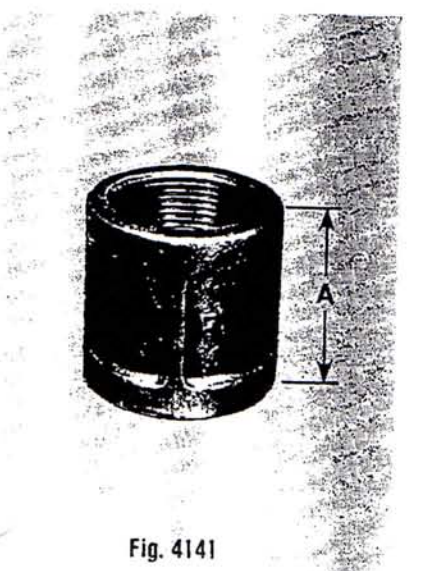


Fig. 4141

SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C
<b>CAPS*</b>					Rough 4145		
					Chrome 4245		
					Fig. Nos.		
020	1/8	100	16	4	9/16	—	—
040	1/4	50	8	6	1 1/16	—	—
060	3/8	40	8	10	3/4	—	—
100	1/2	50	8	12	3/4	—	—
150	3/4	40	8	25	1	—	—
200	1	25	8	42	1 3/16	—	—
250	1 1/4	25	6	64	1 1/4	—	—
300	1 1/2	20	6	81	1 5/16	—	—
400	2	15	4	125	1 5/16	—	—
450	2 1/2	—	—	220	1 11/16	—	—
500	3	—	—	306	1 13/16	—	—
550	• 3 1/2	—	—	437	1 7/8	—	—
600	4	—	—	575	2 1/16	—	—
650	5	—	—	930	2 5/16	—	—
700	6	—	—	1275	2 9/16	—	—

SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C
<b>COUPLINGS**</b>					Rough 4140		
					Chrome 4240		
					Fig. Nos.		
020	1/8	40	16	6	15/16	—	—
040	1/4	35	8	9	1 1/16	—	—
060	3/8	40	12	12	1 1/16	—	—
100	1/2	40	12	17	1 5/16	—	—
150	3/4	40	6	27	1 7/16	—	—
200	1	25	6	44	1 11/16	—	—
250	1 1/4	15	6	65	1 7/8	—	—
300	1 1/2	15	4	89	1 15/16	—	—
400	2	10	4	138	2 3/16	—	—
450	2 1/2	—	—	275	2 7/8	—	—
500	3	—	—	395	3 3/16	—	—
550	• 3 1/2	—	—	522	3 7/16	—	—
600	4	—	—	690	3 11/16	—	—
650	• 5	—	—	1083	4 7/32	—	—
700	6	—	—	1635	4 3/4	—	—

SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C
<b>COUPLINGS... RIGHT AND LEFT</b>					Rough 4141		
					Chrome 4241		
					Fig. Nos.		
060	• 3/8	—	—	10	1 3/16	—	—
100	• 1/2	—	—	26	1 5/16	—	—
150	• 3/4	—	—	33	1 1/2	—	—
200	• 1	—	—	55	1 11/16	—	—
250	• 1 1/4	—	—	75	1 15/16	—	—
300	• 1 1/2	—	—	112	2 1/8	—	—
400	• 2	—	—	175	2 1/2	—	—

\*Plain Caps 1/2" thru 2" would be made to order providing the quantities warrant.  
 \*\*Plain Couplings 1/2" thru 2" would be made to order, in straight sizes only, providing the quantities warrant.  
 •Non-Standard; See page 5 for details.

SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C

<b>COUPLINGS . . . REDUCING</b>					Fig. Nos.		
					Rough	4140	
					Chrome	4240	
039	1/4 x 1/8	50	16	8	1	—	—
058	3/8 x 1/8	—	—	11	1 1/8	—	—
059	3/8 x 1/4	25	8	11	1	—	—
097	1/2 x 1/8	—	—	13	1 1/4	—	—
098	1/2 x 1/4	25	12	14	1 1/8	—	—
099	1/2 x 3/8	30	12	16	1 3/16	—	—
147	3/4 x 1/4	—	—	23	1 7/16	—	—
148	3/4 x 3/8	35	12	23	1 1/4	—	—
149	3/4 x 1/2	50	6	24	1 3/8	—	—
196	• 1 x 1/4	—	—	37	1 11/16	—	—
197	1 x 3/8	—	—	35	1 3/4	—	—
198	1 x 1/2	30	6	36	1 1/2	—	—
199	1 x 3/4	25	6	39	1 9/16	—	—
247	1 1/4 x 1/2	—	—	64	2 3/16	—	—
248	1 1/4 x 3/4	15	6	53	1 5/8	—	—
249	1 1/4 x 1	15	6	60	1 3/4	—	—
296	1 1/2 x 1/2	—	—	81	2 5/16	—	—
297	1 1/2 x 3/4	—	—	65	1 13/16	—	—
298	1 1/2 x 1	15	4	70	1 13/16	—	—
299	1 1/2 x 1 1/4	15	4	80	1 7/8	—	—
395	• 2 x 1/2	—	—	140	2 13/16	—	—
396	2 x 3/4	—	—	138	2 13/16	—	—
397	2 x 1	—	—	143	2	—	—
398	2 x 1 1/4	—	—	112	2	—	—
399	2 x 1 1/2	10	4	118	2 1/16	—	—
448	2 1/2 x 1 1/2	—	—	227	3 1/4	—	—
449	2 1/2 x 2	—	—	260	3 1/4	—	—
497	3 x 1 1/2	—	—	375	3 11/16	—	—
498	3 x 2	—	—	365	3 11/16	—	—
499	3 x 2 1/2	—	—	390	3 11/16	—	—
596	4 x 2	—	—	582	4 3/8	—	—
597	• 4 x 2 1/2	—	—	653	4 3/8	—	—
598	4 x 3	—	—	680	4 3/8	—	—
698	• 6 x 4	—	—	1600	5 7/8	—	—

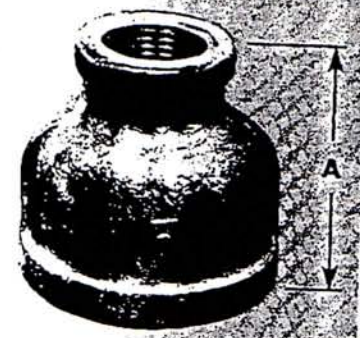


Fig. 4140

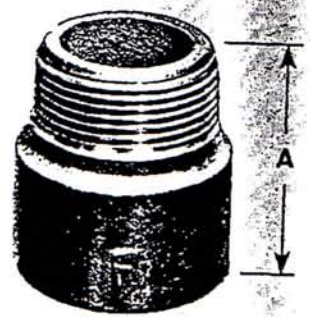


Fig. 4151

<b>EXTENSION PIECES</b>					Fig. Nos.		
					Rough	4151	
					Chrome	4251	
060	3/8	—	—	12	1 3/16	—	—
100	1/2	—	—	17	1 9/16	—	—
150	3/4	—	—	25	1 11/16	—	—
200	• 1	—	—	46	2 3/16	—	—
250	• 1 1/4	—	—	63	2 3/16	—	—
300	• 1 1/2	—	—	86	2 7/32	—	—
400	• 2	—	—	116	2 3/8	—	—

•Non-Standard; See page 5 for details.



# STANDARD CAST BRONZE FITTINGS

SECTION 1

125 Lbs. W. S. P. 200 Lbs. non-shock W. O. G.

FLAGG **FF** FITTINGS

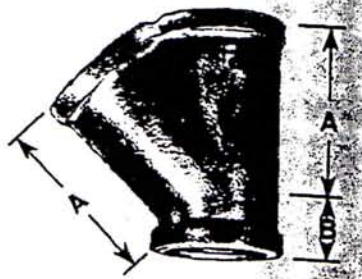


Fig. 4138



Fig. 4149

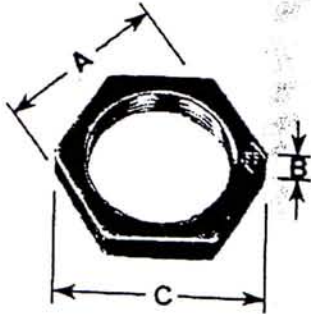


Fig. 4152

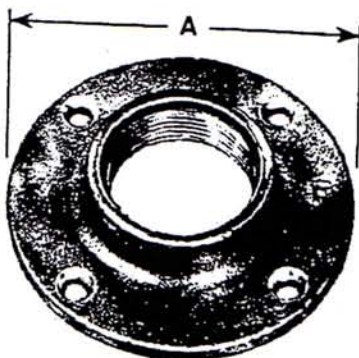


Fig. 4157

SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C
<b>"Y" BRANCHES . . . 45°</b>					Rough 4138		
					Chrome 4238		
060	3/8	—	—	26	1 1/4	1/2	—
100	1/2	—	—	38	1 9/16	3/8	—
150	3/4	—	—	60	1 7/8	3/4	—
200	1	—	—	100	2 9/16	7/8	—
250	1 1/4	—	—	145	2 13/16	1	—
300	1 1/2	—	—	200	3 1/8	1 1/8	—
400	2	—	—	325	3 3/4	1 1/4	—
450	• 2 1/2	—	—	725	4 3/4	1 1/2	—
500	• 3	—	—	1036	5 9/16	1 11/16	—
600	• 4	—	—	1825	6 15/16	2	—

<b>RETURN BENDS . . . OPEN PATTERN</b>					Rough 4149		
					Chrome 4249		
100	1/2	—	—	47	1 1/2	1 11/16	—
150	3/4	—	—	80	2	2 1/8	—
200	1	—	—	138	2 1/2	2 5/8	—
250	1 1/4	—	—	195	3	3 3/8	—
300	1 1/2	—	—	305	3 1/2	3 9/16	—
400	2	—	—	545	4	4 3/16	—

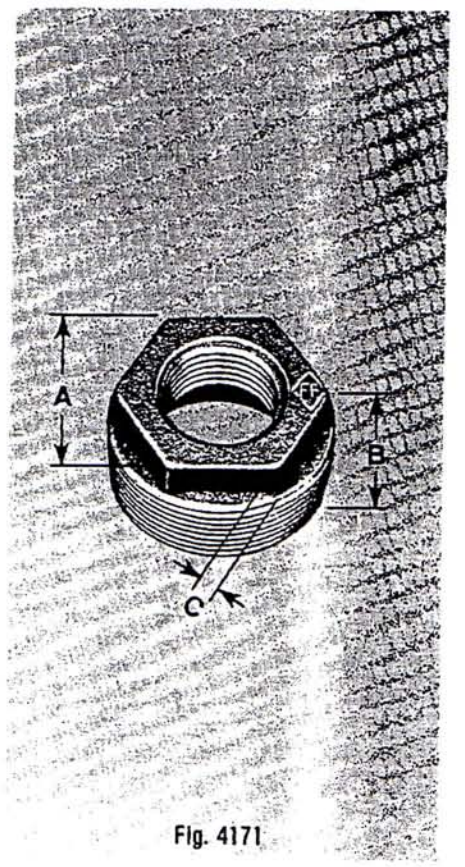
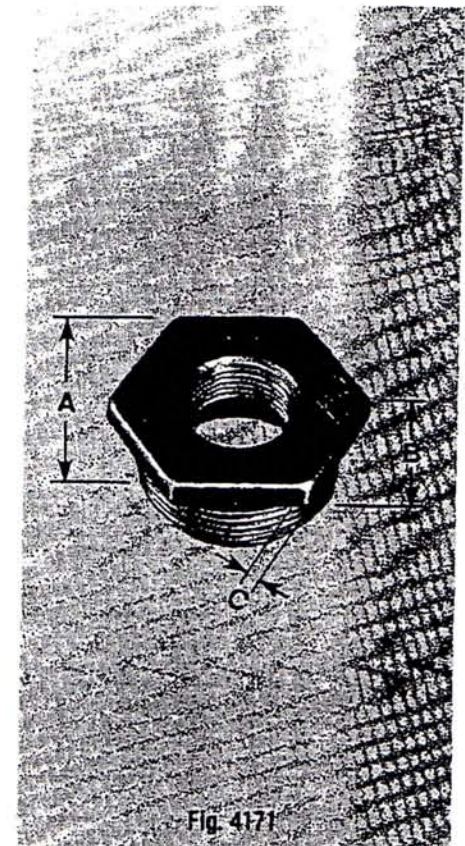
<b>LOCKNUTS*</b>					Rough 4152		
					Chrome 4252		
020	1/8	—	—	2	1 1/16	3/16	7/8
040	1/4	—	—	3	1 3/16	1/4	31/32
060	3/8	—	—	5	1	3/8	1 1/32
100	1/2	—	—	7	1 1/16	5/16	1 25/64
150	3/4	—	—	9	1 7/16	5/16	1 45/64
200	1	—	—	17	1 3/4	3/8	2 1/16
250	1 1/4	—	—	25	2 1/8	7/16	2 29/64
300	1 1/2	—	—	27	2 3/8	1/2	2 45/64
400	2	—	—	47	2 7/8	1/2	2 23/64
450	2 1/2	—	—	116	3 1/2	9/16	4 15/32
500	3	—	—	190	4 1/4	1 1/16	4 15/16
600	4	—	—	265	5 3/8	1 3/16	6 5/32
700	6	—	—	662	7 3/4	1 3/8	9

<b>FLOOR FLANGES . . . ROUND</b>					Rough 4157		
					Chrome 4257		
020	• 1/8	—	—	16	2	—	—
040	1/4	—	—	20	2 3/8	—	—
060	3/8	—	—	24	2 9/16	—	—
100	1/2	—	—	35	2 13/16	—	—
150	3/4	—	—	44	3 1/8	—	—
200	1	—	—	59	3 1/2	—	—
250	1 1/4	—	—	87	4	—	—
300	1 1/2	—	—	105	4 5/16	—	—
400	2	—	—	157	5	—	—

\*Non-Standard; See page 5 for details.  
\*Locknuts made with straight threads.



SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C
<b>BUSHINGS . . . HEXAGON</b>					Rough	4171	
					Chrome	4271	
					Fig. Nos.		
039	1/4 x 1/8	100	—	2	9/16	19/32	1/16
058	3/8 x 1/8	50	—	5	25/32	5/8	5/32
059	3/8 x 1/4	50	—	4	25/32	5/8	5/32
097	1/2 x 1/8	50	16	8	7/8	3/4	7/32
098	1/2 x 1/4	50	16	7	7/8	3/4	7/32
099	1/2 x 3/8	50	16	6	7/8	3/4	7/32
146	3/4 x 1/8	25	8	15	15/32	27/32	7/32
147	3/4 x 1/4	25	8	14	15/32	27/32	7/32
148	3/4 x 3/8	25	8	13	15/32	27/32	7/32
149	3/4 x 1/2	25	8	11	15/32	27/32	7/32
195	† 1 x 1/8	—	—	25	1 1/8	1 1/16	9/32
196	† 1 x 1/4	25	12	23	1 1/8	1 1/16	9/32
197	† 1 x 3/8	25	12	20	1 1/8	1 1/16	9/32
198	1 x 1/2	25	12	23	1 13/32	1	1/4
199	1 x 3/4	25	12	21	1 13/32	1	1/4
245	† 1 1/4 x 1/4	—	—	33	1 1/8	1 1/8	11/32
246	† 1 1/4 x 3/8	—	—	31	1 1/8	1 1/8	11/32
247	† 1 1/4 x 1/2	25	12	33	1 11/32	1 1/8	11/32
248	1 1/4 x 3/4	25	12	39	1 3/4	1 3/32	9/32
249	1 1/4 x 1	25	12	33	1 3/4	1 3/32	9/32
294	† 1 1/2 x 1/4	—	—	55	1 11/32	1 3/16	3/8
295	† 1 1/2 x 3/8	—	—	57	1 11/32	1 1/16	3/8
296	† 1 1/2 x 1/2	30	6	55	1 11/32	1 3/16	3/8
297	† 1 1/2 x 3/4	30	6	48	1 5/8	1 3/16	3/8
298	1 1/2 x 1	30	6	52	2	1 1/8	5/16
299	1 1/2 x 1 1/4	30	6	35	2	1 1/8	5/16
393	• † 2 x 1/4	—	—	78	1 5/8	1 9/16	13/32
394	• † 2 x 3/8	—	—	74	1 5/8	1 9/32	13/32
395	† 2 x 1/2	20	6	75	1 5/8	1 9/32	13/32
396	† 2 x 3/4	20	6	70	1 5/8	1 9/32	13/32
397	† 2 x 1	20	6	73	1 15/16	1 9/32	13/32
398	2 x 1 1/4	20	6	82	2 5/32	1 7/32	11/32
399	2 x 1 1/2	20	6	73	2 5/32	1 7/32	11/32
444	• † 2 1/2 x 1/2	—	—	160	1 15/16	1 1/2	7/16
445	† 2 1/2 x 3/4	—	—	125	1 15/16	1 1/2	7/16
446	† 2 1/2 x 1	—	—	108	1 15/16	1 1/2	7/16
447	† 2 1/2 x 1 1/4	—	—	111	2 3/8	1 1/2	7/16
448	2 1/2 x 1 1/2	—	—	125	2 11/16	1 1/2	7/16
449	2 1/2 x 2	—	—	100	2 21/32	1 7/16	3/8
493	• † 3 x 1/2	—	—	270	1 15/16	1 5/8	15/32
494	• † 3 x 3/4	—	—	261	2 3/8	1 5/8	15/32
495	† 3 x 1	—	—	281	2 3/8	1 5/8	15/32
496	† 3 x 1 1/4	—	—	170	2 3/8	1 5/8	15/32
497	† 3 x 1 1/2	—	—	167	2 11/16	1 5/8	15/32
498	3 x 2	—	—	183	3 3/32	1 5/8	15/32
499	3 x 2 1/2	—	—	185	3 7/8	1 17/32	13/32
548	• 3 1/2 x 2 1/2	—	—	310	4 3/8	1 11/16	7/16
549	• 3 1/2 x 3	—	—	212	4 3/8	1 11/16	7/16



• Non-Standard; See page 16 for details.  
† Inside hexagon.



# STANDARD CAST BRONZE FITTINGS

SECTION 2

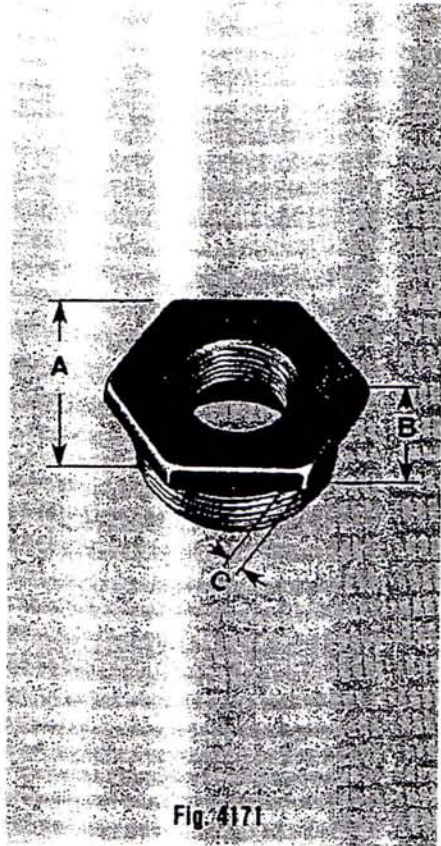


Fig. 4171

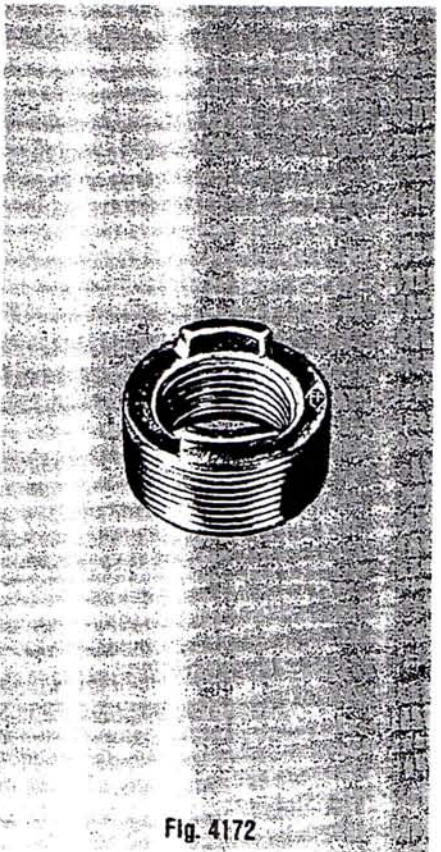


Fig. 4172

SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C

## BUSHINGS . . . HEXAGON

Fig. Nos. Rough 4171  
Chrome 4271

593	• † 4 x 1	—	—	468	3 <sup>9</sup> / <sub>32</sub>	1 <sup>13</sup> / <sub>16</sub>	1 <sup>9</sup> / <sub>32</sub>
594	• † 4 x 1 <sup>1</sup> / <sub>4</sub>	—	—	368	2 <sup>3</sup> / <sub>8</sub>	1 <sup>13</sup> / <sub>16</sub>	1 <sup>9</sup> / <sub>32</sub>
595	† 4 x 1 <sup>1</sup> / <sub>2</sub>	—	—	335	2 <sup>11</sup> / <sub>16</sub>	1 <sup>13</sup> / <sub>16</sub>	1 <sup>9</sup> / <sub>32</sub>
596	† 4 x 2	—	—	302	3 <sup>9</sup> / <sub>32</sub>	1 <sup>13</sup> / <sub>16</sub>	1 <sup>9</sup> / <sub>32</sub>
597	† 4 x 2 <sup>1</sup> / <sub>2</sub>	—	—	335	3 <sup>7</sup> / <sub>32</sub>	1 <sup>13</sup> / <sub>16</sub>	1 <sup>9</sup> / <sub>32</sub>
598	4 x 3	—	—	330	4 <sup>5</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>2</sub>
649	5 x 4	—	—	514	5 <sup>25</sup> / <sub>32</sub>	1 <sup>13</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub>
696	• † 6 x 3	—	—	750	4 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>32</sub>	3 <sup>1</sup> / <sub>4</sub>
698	† 6 x 4	—	—	763	5 <sup>25</sup> / <sub>32</sub>	2 <sup>5</sup> / <sub>32</sub>	3 <sup>1</sup> / <sub>4</sub>
699	• 6 x 5	—	—	775	6 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>8</sub>

## BUSHINGS . . . FLUSH

Fig. 4172

039	1/4 x 1/8	50	16	1	—	—	—
058	3/8 x 1/8	25	16	3	—	—	—
059	3/8 x 1/4	25	16	2	—	—	—
097	• 1/2 x 1/8	25	16	6	—	—	—
098	1/2 x 1/4	25	16	5	—	—	—
099	1/2 x 3/8	25	16	3	—	—	—
147	• 3/4 x 1/4	—	—	11	—	—	—
148	3/4 x 3/8	—	—	9	—	—	—
149	3/4 x 1/2	25	16	6	—	—	—
196	• 1 x 1/4	—	—	20	—	—	—
197	• 1 x 3/8	—	—	21	—	—	—
198	1 x 1/2	—	—	16	—	—	—
199	1 x 3/4	25	12	10	—	—	—
247	• 1 1/4 x 1/2	—	—	28	—	—	—
248	1 1/4 x 3/4	—	—	25	—	—	—
249	1 1/4 x 1	—	—	18	—	—	—
296	• 1 1/2 x 1/2	—	—	38	—	—	—
297	• 1 1/2 x 3/4	—	—	37	—	—	—
298	1 1/2 x 1	—	—	33	—	—	—
299	1 1/2 x 1 1/4	—	—	17	—	—	—
396	• 2 x 3/4	—	—	68	—	—	—
397	• 2 x 1	—	—	61	—	—	—
398	2 x 1 1/4	—	—	59	—	—	—
399	2 x 1 1/2	—	—	41	—	—	—
446	• 2 1/2 x 1	—	—	112	—	—	—
449	2 1/2 x 2	—	—	65	—	—	—
498	• 3 x 2	—	—	150	—	—	—
499	3 x 2 1/2	—	—	100	—	—	—
596	• 4 x 2	—	—	340	—	—	—
598	• 4 x 3	—	—	210	—	—	—

Flush Bushings. 1 1/4 and larger are regularly furnished with lugs.

•Non-Standard; See page 16 for details.  
†Inside hexagon.

SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C
<b>PLUGS . . . REGULAR</b>					Rough 4173		
					Chrome 4273		
					Fig. Nos.		
100	½	100	8	10	—	—	—
150	¾	80	8	12	—	—	—
200	1	40	8	21	—	—	—
250	1¼	40	6	31	—	—	—
300	1½	40	4	42	—	—	—
400	2	20	4	63	—	—	—
450	2½	—	—	131	—	—	—
500	3	—	—	200	—	—	—
550	3½	—	—	270	—	—	—
600	4	—	—	315	—	—	—
650	5	—	—	662	—	—	—
700	6	—	—	1036	—	—	—
750	• 8	—	—	1913	—	—	—



Fig. 4173

<b>PLUGS . . . SOLID</b>					Rough 4174		
					Chrome 4274		
					Fig. Nos.		
020	⅙	100	—	2	—	—	—
040	¼	100	16	4	—	—	—
060	⅜	100	12	6	—	—	—
100	½	100	8	12	—	—	—
150	¾	80	8	19	—	—	—
200	1	40	8	35	—	—	—
250	1¼	40	4	63	—	—	—
300	1½	40	2	88	—	—	—
400	2	20	4	133	—	—	—
450	2½	—	—	245	—	—	—
500	3	—	—	370	—	—	—
600	4	—	—	736	—	—	—
650	• 5	—	—	1150	—	—	—
700	• 6	—	—	1800	—	—	—

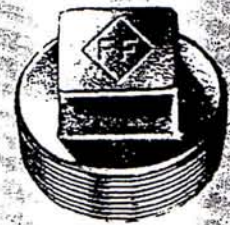


Fig. 4174

<b>PLUGS . . . COUNTERSUNK</b>					Rough 4175		
					Chrome 4275		
					Fig. Nos.		
040	• ¼	100	16	2	—	—	—
060	• ⅜	100	8	4	—	—	—
100	½	100	12	6	—	—	—
150	¾	80	12	11	—	—	—
200	1	40	12	23	—	—	—
250	1¼	40	8	38	—	—	—
300	1½	30	8	57	—	—	—
400	2	20	6	96	—	—	—
450	2½	—	—	165	—	—	—
500	3	—	—	260	—	—	—
600	4	—	—	440	—	—	—



Fig. 4175

•Non-Standard; See page 16 for details.

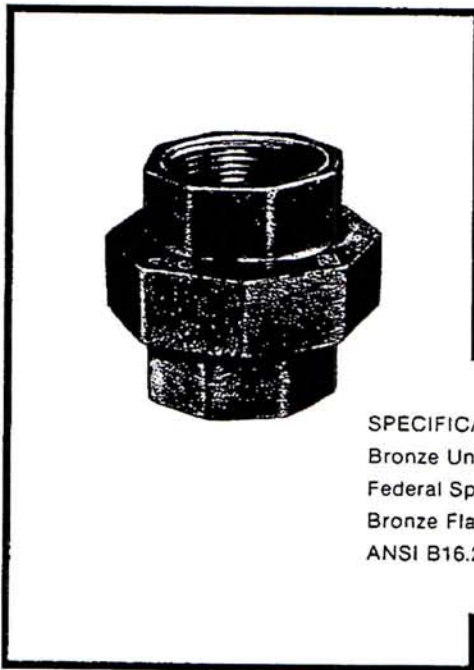


STANLEY G. FLAGG & CO. • 1020 W. HIGH STREET, STOWE, PA. 19464



FLAGG FITTINGS

**BRONZE UNIONS,  
UNION FITTINGS,  
FLANGE UNIONS,  
and COMPANION  
FLANGES**



**SPECIFICATIONS:**

Bronze Unions—125 Lb. and 250 Lb. W.S.P.  
Federal Spec. WW-U-516  
Bronze Flanges—150 Lbs., 300 Lbs.  
ANSI B16.24

(The latest issue of any specification shall constitute the authority)

The same high standards of quality and finish which are inherent in all Flagg products are maintained in the production of the items shown in this section.

Unions and flanges are produced under strict controls to meet rigid specifications. They are inspected and tested in accordance with the applicable standards.

- Fittings marked (•) will be furnished from stock if available—or made to order if quantities warrant.

TABLE SHOWING OUTSIDE DIMENSION OF UNION NUTS (ACROSS CORNERS)

TYPE OF UNION	SIZES											
	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
150 # Ground Joint Unions	1 1/4	1 1/4	1 7/16	1 23/32	1 31/32	2 11/32	2 27/32	3 3/16	3 13/16	4 3/8	5 1/16	6 1/2
250 # Ground Joint Unions	1	1 1/16	1 1/8	1 13/16	2 3/16	2 9/16	2 5/8	3 1/8	4	3 3/8	3 3/4	—
300 # Ground Joint Unions	1	1 15/32	1 11/16	1 5/8	2 3/8	2 3/4	3 1/8	3 1/2	4 3/8	—	—	—

# BRONZE UNIONS and UNION FITTINGS

SECTION 3

FLAGG  FITTINGS

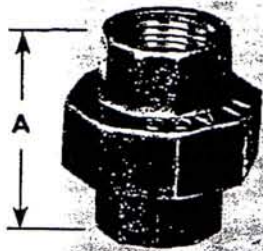


Fig. 4401

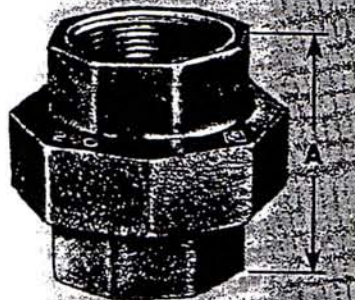


Fig. 4421

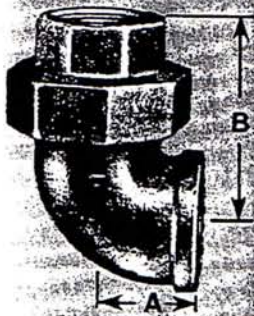


Fig. 4408

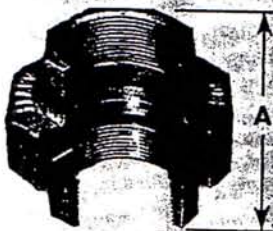


Fig. 4431

SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C
<b>UNIONS... STANDARD</b>					Rough 4401		
125 Lbs. W.S.P.					Chrome 4280		
GROUND JOINT					200 Lbs. non-shock W.O.G.		
020	1/8	25	12	14	1 7/16	—	—
040	1/4	35	12	19	1 7/16	—	—
060	3/8	35	8	29	1 5/8	—	—
100	1/2	40	4	45	1 13/16	—	—
150	3/4	30	4	62	2	—	—
200	1	18	4	89	2 3/16	—	—
250	1 1/4	12	4	143	2 7/16	—	—
300	1 1/2	12	4	179	2 5/8	—	—
400	2	12	2	269	2 15/16	—	—
450	2 1/2	—	—	500	3 1/4	—	—
500	3	—	—	670	3 1/2	—	—
600	4	—	—	920	3 7/32	—	—

SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C
<b>UNIONS "250"...</b>					Rough 4421		
250 Lbs. W.S.P.					Chrome 4281		
GROUND JOINT					400 Lbs. non-shock W.O.G.		
The dimensions of these unions conform to the specifications of the Navy Department							
020	1/8	—	—	15	1 7/16	—	—
040	1/4	—	—	24	1 9/16	—	—
060	3/8	—	—	42	1 3/4	—	—
100	1/2	—	—	60	2	—	—
150	3/4	—	—	96	2 1/8	—	—
200	1	—	—	144	2 7/16	—	—
250	1 1/4	—	—	200	2 11/16	—	—
300	1 1/2	—	—	250	2 13/16	—	—
400	2	—	—	372	3 3/16	—	—
450	2 1/2	—	—	589	3 5/8	—	—
500	3	—	—	907	3 31/32	—	—

SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C
<b>UNIONS ELBOWS "250" ... 90°</b>					Rough 4408		
250 Lbs. W.S.P.					Chrome 4283		
GROUND JOINT					400 Lbs. non-shock W.O.G.		
040	1/4	—	—	34	1 3/16	2	—
060	3/8	—	—	52	1 5/16	1 15/16	—
100	1/2	—	—	76	1 7/8	2 5/16	—
150	3/4	—	—	115	1 15/16	2 7/16	—
200	1	—	—	173	1 1/2	2 15/16	—
250	1 1/4	—	—	270	1 3/4	3 3/8	—
300	1 1/2	—	—	345	1 15/16	3 5/8	—
400	2	—	—	535	2 1/4	4 1/8	—

SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C
<b>UNIONS "300"...</b>					Rough 4431		
300 Lbs. W.S.P.					Chrome 4282		
GROUND JOINT					600 Lbs. non-shock W.O.G.		
040	1/4	—	—	36	1 5/8	—	—
060	3/8	—	—	51	1 13/16	—	—
100	1/2	—	—	68	1 15/16	—	—
150	3/4	—	—	118	2 1/4	—	—
200	1	—	—	169	2 7/16	—	—
250	1 1/4	—	—	267	2 13/16	—	—
300	1 1/2	—	—	340	3	—	—
400	2	—	—	519	3 3/8	—	—



SIZE CODE	PIPE SIZE IN INCHES	WEIGHT PER 100 PIECES ROUGH	O.D. OF FLANGE IN INCHES	DIA. OF BOLT CIRCLE IN INCHES	HEIGHT IN INCHES	FLANGE THICKNESS IN INCHES	BOLT SIZE IN INCHES	NO. OF BOLTS
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**STANDARD FLANGE UNIONS\* . . .**

Fig. 4162

150 Lbs. W.S.P.			FLAT FACE WITH GASKET			225 Lbs. non-shock W.O.G.		
100	1/2	219	3 1/8	—	1 5/16	—	7/16	3
150	3/4	210	3 3/8	—	1 5/16	—	7/16	3
200	1	299	3 5/8	—	1 7/16	—	7/16	4
250	1 1/4	330	3 7/8	—	1 9/16	—	7/16	4
300	1 1/2	450	4 3/8	—	1 13/16	—	1/2	4
400	2	660	5 1/16	—	1 15/16	—	1/2	4
450	2 1/2	1100	5 13/16	—	2 1/16	—	5/8	4
500	3	1287	6 11/16	—	2 1/16	—	5/8	4
600	4	1825	7 3/8	—	2 13/16	—	5/8	5

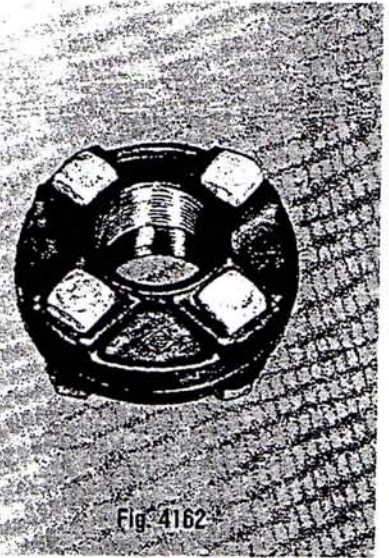


Fig. 4162

**STANDARD COMPANION FLANGES . . .**

Fig. 4164

150 Lbs. W.S.P.			225 Lbs. non-shock W.O.G.					
100	• 1/2	95	3 1/2	2 3/8	19/32	5/16	1/2	4
150	• 3/4	124	3 3/8	2 3/4	5/8	11/32	1/2	4
200	1	168	4 1/4	3 1/8	1 1/16	3/8	1/2	4
250	1 1/4	224	4 5/8	3 1/2	1 3/16	13/32	1/2	4
300	1 1/2	289	5	3 7/8	7/8	7/16	1/2	4
400	2	422	6	4 3/4	1	1/2	5/8	4
450	2 1/2	653	7	5 1/2	1 1/8	9/16	5/8	4
500	3	772	7 1/2	6	1 3/16	5/8	5/8	4
550	3 1/2	1100	8 1/2	7	1 1/4	1 1/16	5/8	8
600	4	1227	9	7 1/2	1 5/16	1 1/16	5/8	8
650	5	1495	10	8 1/2	1 7/16	3/4	3/4	8
700	6	1801	11	9 1/2	1 9/16	13/16	3/4	8
750	8	2975	13 1/2	11 3/4	1 3/4	1 5/16	3/4	8

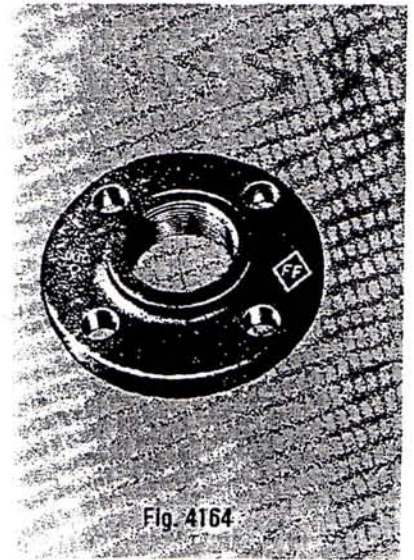


Fig. 4164

**EXTRA HEAVY COMPANION FLANGES . . .**

Fig. 4764

300 Lbs. W.S.P.			500 Lbs. non-shock W.O.G.					
200	1	303	4 3/8	3 1/2	1 1/16	19/32	5/8	4
250	1 1/4	400	5 1/4	3 7/8	1 3/16	5/8	5/8	4
300	1 1/2	575	6 1/8	4 1/2	7/8	1 1/16	3/4	4
400	2	575	6 1/2	5	1	3/4	5/8	8
450	2 1/2	915	7 1/2	5 7/8	1 1/8	13/16	3/4	8
500	3	1100	8 1/4	6 3/8	1 3/16	29/32	3/4	8
600	4	1850	10	7 7/8	1 5/16	1 1/16	3/4	8

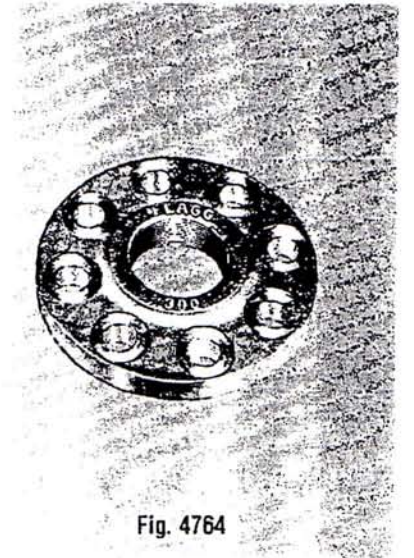


Fig. 4764

Brass Companion Flanges are regularly furnished "faced and drilled" and are so priced. No deduction allowable for "faced only".

•Non-Standard; See page 21 for details.  
\*Furnished with steel nuts and bolts only.

STANLEY G. FLAGG &amp; CO. • 1020 W. HIGH STREET, STOWE, PA. 19464



FLAGG FITTINGS

## EXTRA HEAVY BRONZE (Threaded)

SPECIFICATIONS:—Extra Heavy Cast Bronze Fittings  
ANSI B16.15

(The latest issue of any specification  
shall constitute the authority)

The metal used in Flagg extra heavy cast bronze fittings is produced to rigid specifications. These fittings have a smooth, attractive finish and are inspected and tested in accordance with the requirements of the above specifications.

Allowable pressures for Flagg extra heavy bronze fittings are:

*250 psi Working Steam Pressures (W. S. P.)*

*400 psi Non-Shock Cold Water, Oil or Gas (W. O. G.)*

• Fittings marked (•) will be furnished from stock if available—or made to order if quantities warrant.

GENERAL DIMENSIONS, in inches, to nearest  $\frac{1}{32}$ ".

These dimensions apply to both straight and reducing size fittings.

For center-to-face dimensions see fittings tables.

PIPE SIZE	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	4
O.D. of Band	$\frac{15}{16}$	$1\frac{1}{8}$	$1\frac{11}{32}$	$1\frac{1}{8}$	$1\frac{15}{16}$	$2\frac{3}{8}$	$2\frac{11}{16}$	$3\frac{9}{32}$	$3\frac{3}{8}$	$4\frac{1}{8}$	$5\frac{25}{32}$
Width of Band	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$1\frac{1}{16}$	$\frac{3}{4}$	$2\frac{7}{32}$	$1\frac{5}{16}$	1	$1\frac{1}{8}$
Thread Length (min.)	$\frac{3}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$1\frac{1}{16}$	$1\frac{1}{16}$	$\frac{3}{4}$	$1\frac{5}{16}$	1	$1\frac{1}{16}$



# EXTRA HEAVY • SECTION 4 BRONZE FITTINGS

250 Lbs. W. S. P. 400 Lbs. non-shock W. O. G.

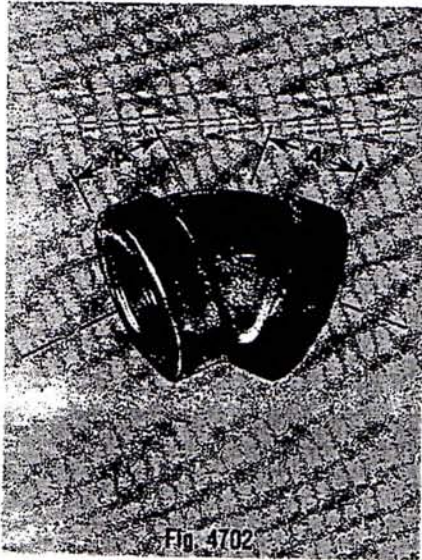


Fig. 4702

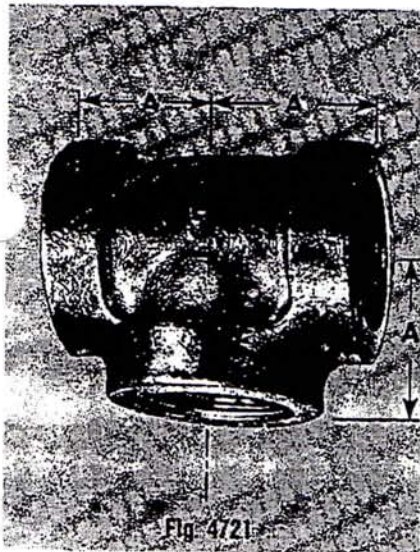


Fig. 4721

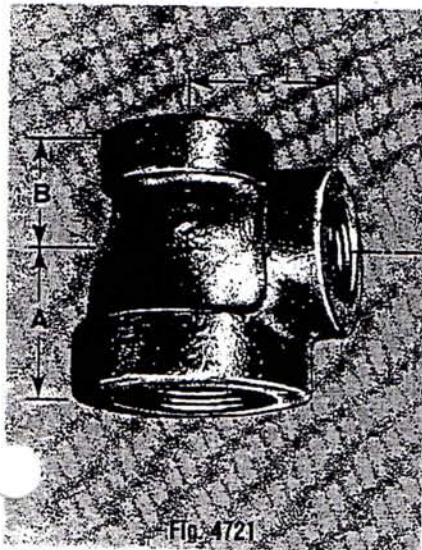


Fig. 4721

SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C
<b>ELBOWS . . . 45°</b>							
040	1/4	—	—	17	3/4	—	—
060	3/8	—	—	27	13/16	—	—
100	1/2	—	—	40	7/8	—	—
150	3/4	—	—	65	1	—	—
200	1	—	—	100	1 1/8	—	—
250	1 1/4	—	—	160	1 5/16	—	—
300	1 1/2	—	—	205	1 7/16	—	—
400	2	—	—	338	1 11/16	—	—
450	2 1/2	—	—	500	1 15/16	—	—
500	3	—	—	736	2 3/16	—	—
600	4	—	—	1267	2 5/8	—	—

Fig. 4702

<b>TEES</b>							
040	1/4	—	—	25	13/16	—	—
060	3/8	—	—	38	15/16	—	—
100	1/2	—	—	61	1 1/8	—	—
150	3/4	—	—	100	1 5/16	—	—
200	1	—	—	150	1 1/2	—	—
250	1 1/4	—	—	244	1 3/4	—	—
300	1 1/2	—	—	318	1 15/16	—	—
400	2	—	—	489	2 1/4	—	—
450	2 1/2	—	—	750	2 11/16	—	—
500	3	—	—	1175	3 1/16	—	—
600	4	—	—	1960	3 13/16	—	—

Fig. 4721

<b>TEES . . . REDUCING</b>							
098	• 1/2 x 1/2 x 1/4	—	—	50	31/32	31/32	31/32
099	• 1/2 x 1/2 x 3/8	—	—	57	1 1/16	1 1/16	1
101	• 1/2 x 1/2 x 3/4	—	—	85	1 1/4	1 1/4	1 3/16
139	• 3/4 x 1/2 x 1/2	—	—	75	1 3/16	1 3/8	1 1/4
140	• 3/4 x 1/2 x 3/4	—	—	92	1 5/16	1 1/4	1 5/16
147	• 3/4 x 3/4 x 1/4	—	—	74	1	1	1 1/8
148	• 3/4 x 3/4 x 3/8	—	—	83	1 1/8	1 1/8	1 1/8
149	• 3/4 x 3/4 x 1/2	—	—	86	1 3/16	1 3/16	1 1/4
180	• 1 x 1/2 x 1	—	—	151	1 15/32	1 11/32	1 15/32
188	• 1 x 3/4 x 1/2	—	—	112	1 1/4	1 3/8	1 3/8
189	• 1 x 3/4 x 3/4	—	—	124	1 3/8	1 5/16	1 7/16
190	• 1 x 3/4 x 1	—	—	136	1 1/2	1 7/16	1 1/2
198	• 1 x 1 x 1/2	—	—	125	1 1/4	1 1/4	1 3/8
199	• 1 x 1 x 3/4	—	—	126	1 3/8	1 3/8	1 7/16
201	• 1 x 1 x 1 1/4	—	—	197	1 11/16	1 11/16	1 9/16
225	• 1 1/4 x 3/4 x 1 1/4	—	—	208	1 3/4	1 3/8	1 3/4
234	• 1 1/4 x 1 x 1	—	—	180	1 9/16	1 1/2	1 11/16
235	• 1 1/4 x 1 x 1 1/4	—	—	227	1 3/4	1 11/16	1 3/4
247	• 1 1/4 x 1 1/4 x 1/2	—	—	163	1 5/16	1 5/16	1 1/2

•Non-Standard; See page 24 for details.

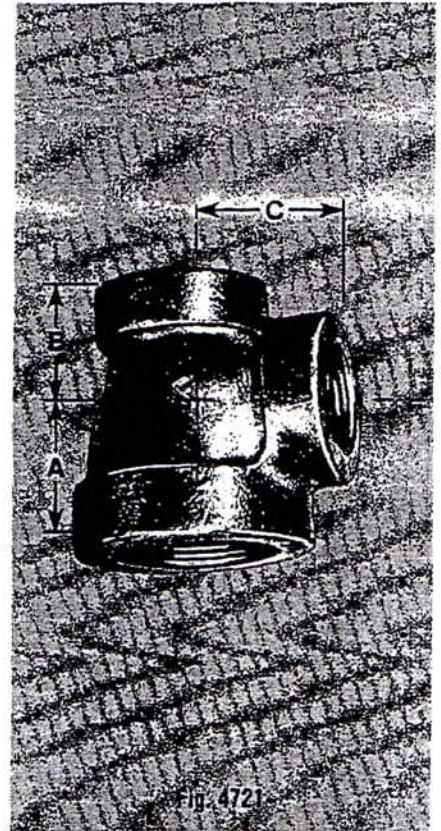


SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C

**TEES . . . REDUCING (Cont.)**

Fig. 4721

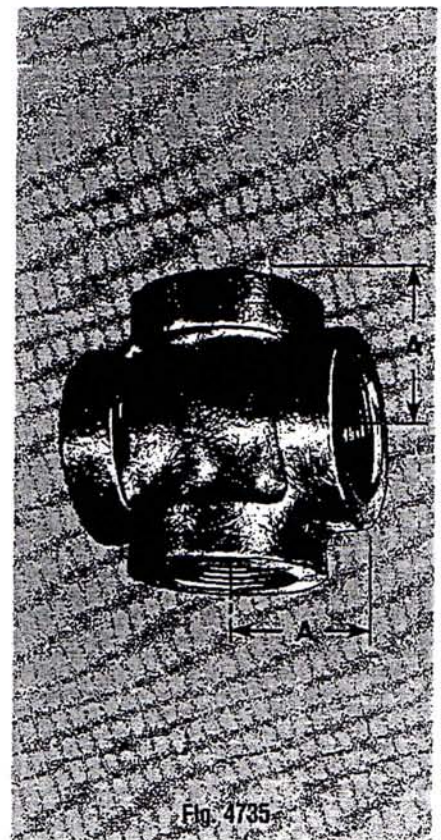
248	• 1¼ x 1¼ x ¾	—	—	185	17/16	17/16	1¾
249	• 1¼ x 1¼ x 1	—	—	210	19/16	19/16	111/16
251	• 1¼ x 1¼ x 1½	—	—	264	17/8	17/8	113/16
280	• 1½ x 1 x 1½	—	—	285	115/16	113/16	115/16
288	• 1½ x 1¼ x 1	—	—	237	1¾	19/16	113/16
289	• 1½ x 1¼ x 1¼	—	—	272	113/16	1¾	17/8
290	• 1½ x 1¼ x 1½	—	—	305	115/16	17/8	115/16
296	• 1½ x 1½ x ½	—	—	200	17/16	17/16	111/16
297	• 1½ x 1½ x ¾	—	—	230	1½	1½	1¾
298	• 1½ x 1½ x 1	—	—	255	1¾	1¾	113/16
299	• 1½ x 1½ x 1¼	—	—	296	113/16	113/16	17/8
389	• 2 x 1½ x 1½	—	—	378	27/32	115/16	27/32
390	• 2 x 1½ x 2	—	—	465	2¼	27/32	2¼
395	• 2 x 2 x ½	—	—	306	1½	1½	17/8
396	• 2 x 2 x ¾	—	—	340	1¾	1¾	2
397	• 2 x 2 x 1	—	—	360	1¾	1¾	2
398	• 2 x 2 x 1¼	—	—	385	17/8	17/8	27/8
399	• 2 x 2 x 1½	—	—	420	2	2	27/16
447	• 2½ x 2½ x 1¼	—	—	398	27/16	27/16	27/16
449	• 2½ x 2½ x 2	—	—	675	2¾	2¾	2¾
480	• 3 x 2 x 3	—	—	1000	37/16	27/8	37/16
498	• 3 x 3 x 2	—	—	876	2½	2½	27/8
596	• 4 x 4 x 2	—	—	1325	2¾	2¾	37/16
598	• 4 x 4 x 3	—	—	1650	37/16	37/16	3¾



**CROSSES**

Fig. 4735

040	¼	—	—	19	13/16	—	—
060	• ¾	—	—	30	15/16	—	—
100	½	—	—	79	17/8	—	—
150	• ¾	—	—	131	15/16	—	—
200	1	—	—	189	1½	—	—
250	1¼	—	—	300	1¾	—	—
300	1½	—	—	379	115/16	—	—
400	• 2	—	—	580	2¼	—	—
450	• 2½	—	—	896	211/16	—	—



•Non-Standard; See page 24 for details.



BRONZE FITTINGS

250 Lbs. W. S. P. 400 Lbs. non-shock W. O. G.



SIZE CODE	PIPE SIZE IN INCHES	PCS. PER UNIT	UNITS PER MST.	WEIGHT PER 100 PIECES ROUGH	DIMENSIONS IN INCHES		
					A	B	C

COUPLINGS

Fig. 4740

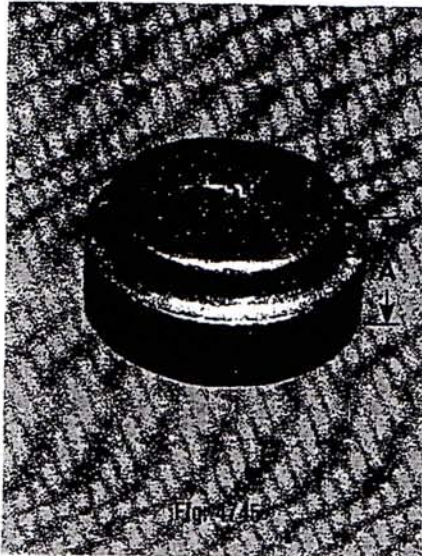
040	1/4	—	—	14	1 1/16	—	—
060	3/8	—	—	27	1 1/2	—	—
100	1/2	—	—	43	1 11/16	—	—
150	3/4	—	—	67	1 15/16	—	—
200	1	—	—	103	2 3/16	—	—
250	1 1/4	—	—	159	2 7/16	—	—
300	1 1/2	—	—	200	2 5/8	—	—
400	2	—	—	320	2 15/16	—	—
450	2 1/2	—	—	465	3 1/16	—	—
500	3	—	—	660	3 3/8	—	—
600	4	—	—	1150	4 7/16	—	—



COUPLINGS . . . REDUCING

Fig. 4740

098	1/2 x 1/4	—	—	48	1 11/16	—	—
099	• 1/2 x 3/8	—	—	45	1 11/16	—	—
149	• 3/4 x 1/2	—	—	63	1 3/4	—	—
198	1 x 1/2	—	—	93	2	—	—
199	1 x 3/4	—	—	87	2	—	—
249	1 1/4 x 1	—	—	157	2 3/8	—	—
298	• 1 1/2 x 1	—	—	200	2 11/16	—	—
299	• 1 1/2 x 1 1/4	—	—	191	2 11/16	—	—
399	• 2 x 1 1/2	—	—	270	2 3/16	—	—
449	• 2 1/2 x 2	—	—	398	3 1/4	—	—



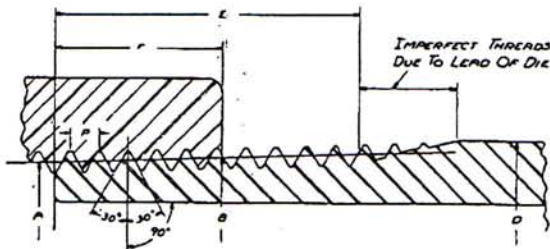
CAPS

Fig. 4745

040	• 1/4	—	—	15	7/8	—	—
060	• 3/8	—	—	22	1 5/16	—	—
100	1/2	—	—	25	1 5/16	—	—
150	3/4	—	—	40	1	—	—
200	1	—	—	67	1 3/16	—	—
250	1 1/4	—	—	100	1 5/16	—	—
300	1 1/2	—	—	130	1 3/8	—	—
400	2	—	—	210	1 1/16	—	—
450	• 2 1/2	—	—	340	1 15/16	—	—
500	• 3	—	—	500	2 1/2	—	—

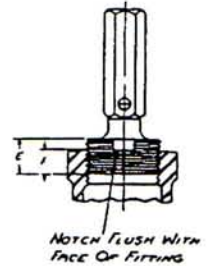
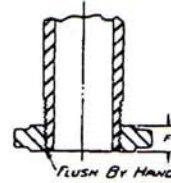
•Non-Standard; See page 24 for details.





$A = D - (0.050D + 1.1)P$   
 $B = A + 0.0625 F$   
 $E = (0.80D + 6.8) P$

$P =$  Pitch  
 Depth of thread  $= 0.80P$   
 Total Taper  $\frac{3}{4}$ -inch per Foot



Tolerance on Product:  
 One turn large or small from notch on plug gage or face of ring gage.

If chamfered, notch flush with bottom of chamfer.

Dimensions, in inches

Nominal Pipe Size	A	B†	D	E*	F‡ Normal Engagement by Hand between Male and Female Thread	P Pitch of Thread	Depth of Thread	Number of Threads Per Inch
1/8	0.36351	0.37476	0.405	0.2638	0.180	0.03704	0.02963	27
1/4	0.47739	0.48989	0.540	0.4018	0.200	0.05556	0.04444	18
3/8	0.61201	0.62701	0.675	0.4078	0.240	0.05556	0.04444	18
1/2	0.75843	0.77843	0.840	0.5337	0.320	0.07143	0.05714	14
3/4	0.96768	0.98887	1.050	0.5457	0.339	0.07143	0.05714	14
1	1.21363	1.23863	1.315	0.6828	0.400	0.08696	0.06957	11 1/2
1 1/4	1.55713	1.58338	1.660	0.7068	0.420	0.08696	0.06957	11 1/2
1 1/2	1.79609	1.82234	1.900	0.7235	0.420	0.08696	0.06957	11 1/2
2	2.26902	2.29627	2.375	0.7565	0.436	0.08696	0.06957	11 1/2
2 1/2	2.71953	2.76216	2.875	1.1375	0.682	0.12500	0.10000	8
3	3.34063	3.38850	3.500	1.2000	0.766	0.12500	0.10000	8
3 1/2	3.83750	3.88881	4.000	1.2500	0.821	0.12500	0.10000	8
4	4.33438	4.38713	4.500	1.3000	0.844	0.12500	0.10000	8
5	5.39073	5.44949	5.563	1.4063	0.937	0.12500	0.10000	8
6	6.44609	6.50597	6.625	1.5125	0.958	0.12500	0.10000	8
8	8.43359	8.50003	8.625	1.7125	1.063	0.12500	0.10000	8
10	10.54531	10.62094	10.750	1.9250	1.210	0.12500	0.10000	8
12	12.53281	12.61781	12.750	2.1250	1.360	0.12500	0.10000	8
14 O.D.	13.77500	13.87263	14.000	2.2500	1.562	0.12500	0.10000	8
16 O.D.	15.76250	15.87575	16.000	2.4500	1.812	0.12500	0.10000	8
18 O.D.	17.75000	17.87500	18.000	2.6500	2.000	0.12500	0.10000	8
20 O.D.	19.73750	19.87031	20.000	2.8500	2.125	0.12500	0.10000	8
24 O.D.	23.71250	23.86094	24.000	3.2500	2.375	0.12500	0.10000	8

†Also pitch diameter at gaging notch.

\*Also length of plug gage.

‡Also length of ring gage, and length from gaging notch to small end of plug gage.

The above information taken from the American Standard for Pipe Threads, ANSI—B2.1.