

NIBCO

COPPER FITTINGS • BRONZE VALVES



CATALOG G
AND PRICE LIST
1951

STANDARD
OF QUALITY

NORTHERN INDIANA BRASS COMPANY • Elkhart, Indiana

NIBCO000001

CATALOG G

and Price List



VALVES AND FITTINGS FOR EVERY REQUIREMENT

CATALOG G is a manual of technical and selling information to aid in specifying and ordering the newest and best valves and fittings for copper tube installations. Constant use of this detailed information will help in selling, and will build for sound business at a profit.

NIBCO presents this manual to the Plumbing, Heating, Refrigeration and Air Conditioning trades with a deep appreciation of the vital part they have had in the development of this Company. Continued and repeated confidence and patronage has encouraged this Company to sustain a high standard of quality in products with dependable service.

This presentation represents over 23 years of experience and effort since originating and pioneering copper tube and fittings for general plumbing use. Since 1928 NIBCO engineers and technical staff has devoted constant study and research toward developing better and more economical means for joining copper tubes—enabling this Company to provide the latest in fittings and valves for COMPLETE PIPING INSTALLATIONS.

The processes of manufacture utilized by NIBCO are thoroughly modernized with plants that are models of efficiency—using the latest equipment with many unique and patented processes properly controlled by constant laboratory guidance.

Northern Indiana Brass Company

Elkhart, Indiana - - Established 1904

OVZ-11051

NQZ-51051

NQZ-91552

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MARKETING — By NIBCO

Selling Policy

NIBCO Products are marketed and available thru Wholesalers engaged in the distribution of plumbing, heating, and refrigeration materials to the trade.

Sales Assistance

In the United States and many foreign markets, NIBCO Sales Representatives are strategically located — to render on-the-ground assistance to Contractors, Manufacturers, Wholesalers, and any other interested parties.

Pricing Policy

This catalog shows list prices applicable to each item. List prices remain constant with market changes reflected on discount sheets published and available upon application. List prices and discounts are subject to change without notice.

Ordering By Nibco Figure Number

Only one Figure Number has been assigned to one given type of fitting — this figure number, as catalogued, coupled with size desired completely and accurately identifies the fitting you require. The simplicity of this means of identification is self-evident as the comparatively fewer figure numbers are easily and readily remembered which eliminates necessity of assigning further identifying numerals.

Packing and Shipping Weight

Sturdy re-useable cloth bags continue to house and protect NIBCO copper fittings until ready for actual use. Valves are protected by attractive sales cartons contained in master shipping cartons. Ordering in standard packing quantities will simplify handling, warehousing and increase sales — thus reducing overall operating costs. Individual packing quantity is shown opposite each item as well as individual shipping weight so accurate estimate of total order can be made to insure that terms of freight allowance are met.

Returned Materials

No material is to be returned without our written permission. Transportation charges must be prepaid on returned shipments. To cover our costs of re-handling, re-inspecting, and re-stocking — 15% will be deducted from the face of the credit memorandum.



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ENGINEERING DATA

COPPER WATER TUBE

Under normal conditions, the physical properties of copper tubes that are produced by responsible manufacturers are perfectly adapted for the conveyance of hot and cold water, steam, oil, gas, and air. Copper tubes will stand up under ordinary conditions, but the user is specifically cautioned against laying underground pipe in cinderfill, especially if the ground is apt to be wet. Due to the sulphur compounds in the cinders, a condition of this kind may corrode the outside of the tubes. This may be overcome either by wrapping the pipe with canvas and asphaltum or by surrounding the tube with a bed of clean sand mixed with lime, or with limestone or broken plaster. When conditions are doubtful, it is advisable to consult the Copper & Brass Research Association, or the tube manufacturer.

From tests which have been conducted, it has been proved that copper tubes (either annealed or hard drawn types) will stand ordinary handling. If ordinary precautions are used, there is very little danger of copper tubes being crushed on the job, during or after installation.

Annealed copper tubes are generally recommended for underground use. 1/2" Annealed copper tubes have been frozen as many as six times before finally bursting, eight times for 1" size, and eleven times for 2" size. Hard drawn copper tubes, however, burst during the first freezing the same as iron pipe. (Condensed from Copper and Brass Research Copper Tube Handbook.)

COMPARATIVE DATA—COPPER AND IRON PIPES

Nominal Size REF.	Kind of Pipe A	Inches Diameter		Lbs. Per Foot D	Gallons in 10 Ft. E	BTU'S to Raise 100° F		Heat Loss H	G.P.M. Flow I
		Inside B	Outside C			Water F	Pipe G		
3/8"	Copper Iron	.430 .493	.500 .675	.198 .567	.0754 .0992	62.89 82.66	18.61 62.37	NO DATA	1.873 2.464
1/2"	Copper Iron	.545 .622	.625 .840	.284 .850	.1212 .1578	101.2 131.6	26.70 93.50	.343 5.94	3.565 4.585
3/4"	Copper Iron	.785 .824	.875 1.050	.454 1.130	.2514 .2770	209.6 230.1	42.67 124.30	.413 7.16	9.599 9.720
1"	Copper Iron	1.025 1.049	1.125 1.315	.653 1.678	.4287 .4490	357.3 374.3	61.38 184.58	.498 8.62	19.80 18.53
1 1/4"	Copper Iron	1.265 1.380	1.375 1.660	.882 2.27	.6529 .7770	544.3 647.7	82.91 249.70	.615 10.65	35.05 38.56
1 1/2"	Copper Iron	1.505 1.610	1.625 1.900	1.14 2.71	.9241 1.058	770.4 881.6	107.16 298.10	.691 11.97	56.16 58.20
2"	Copper Iron	1.985 2.067	2.125 2.375	1.75 3.65	1.608 1.743	1340. 1453.	164.50 401.50	.844 14.61	119.1 113.5
2 1/2"	Copper Iron	2.465 2.469	2.625 2.875	2.48 5.79	2.479 2.487	2066. 2073.	233.12 636.90	1.01 17.42	214.3 182.5
3"	Copper Iron	2.945 3.068	3.125 3.500	3.33 7.57	3.539 3.840	2945. 3201.	313.20 832.70	1.13 20.63	347.4 326.0
4"	Copper Iron	3.905 4.026	4.125 4.500	5.38 10.79	6.222 6.613	5186. 5513.	505.72 1186.90	1.50 26.00	747.1 673.8

COLUMN A: The copper pipe is Type L Standard, meeting the requirements of U. S. Government specification WW-T-799 and A.S.T.M. specification B-88-33. The iron pipe is standard weight, bare pipe, except as to Column I where new galvanized pipe is referred to.

COLUMN B: From manufacturer's specifications. A slight variation of one or two thousandths is noted between specifications of different manufacturers, but these figures are representative.

COLUMN C: From manufacturers' specifications with the same considerations as noted for Column B.

COLUMN D: From manufacturers' specifications.

COLUMN E: Cubic contents of 10 linear feet of pipe has been calculated from diameters given in Column B, by the formula for the contents of a cylinder.

COLUMN F: This column has been calculated from Column E and shows the number of BTU's required to heat the water content only of 10 feet of the given pipe 100° F. It requires 833.6 BTU's to heat 1 gallon of water 100° F.

COLUMN G: These figures are calculated from Column D and show the number of BTU's required to raise the temperature of 10 ft. of empty pipe 100° F. Due to difference in the specific heat of the ma-

terials, it requires 9.4 BTU's to raise 1 pound of copper 100° F. and 11.0 BTU's to raise 1 pound of iron 100° F.

COLUMN H: This column shows the heat emission from 10 feet of the given pipe placed horizontally. The column is in terms of BTU's lost per hour for each degree of difference in temperature between the pipe and the surrounding air. The figures for iron are taken from experimental data obtained at the Mellon Institute. Figures for copper have been calculated with reference to those for iron on the basis of the known ratio of heat emission between the two materials.

COLUMN I: This column shows the number of gallons of water which will flow through 100 feet of the given pipe with a pressure loss of 10 pounds per square inch. Flow is based on diameters in Columns B according to Prof. Dawson's formulae for NEW galvanized iron pipe and NEW copper pipe. Due to the corrosion of iron and its tendency to accumulate sediment and other foreign matter, Prof. Dawson suggests that 15% be deducted from the figures for iron pipe in order to arrive at a reasonable performance expectancy for such pipe in service. Because copper resists rust and is inherently more smooth, Prof. Dawson suggests a deduction of only 5% from the figures given for copper pipe.

ENGINEERING DATA

COPPER WATER TUBE

Nom- inal Tube Size in Inches	Out- side Diam- eter in Inches	TOLERANCE Tubing O. D. in inches		GOVERNMENT TYPE "K"						GOVERNMENT TYPE "L"						GOVERNMENT TYPE "M"			
				Hard Drawn—20 Ft. Straight Lengths Soft Annealed—20 Ft. Straight Lengths or 40 Ft. and 60 Ft. Length Coils (to and including 1½")						Hard Drawn—20 Ft. Straight Lengths Soft Annealed—20 Ft. Straight Lengths or 40 Ft. and 60 Ft. Length Coils (to and including 1½")						Hard Drawn Only—20 Ft. Straight Lengths			
				Use: For Underground Service and General Plumbing and Heating Installations under Severe Conditions.						Use: For General Plumbing and Heating Installations.						Use: For General Plumbing and Heating Installations. Particularly suitable for Copper Drainage work.			
		Max.	Min.	Wall Thick- ness in inches	Weight per Foot in pounds	HARD DRAWN		SOFT ANNEALED		Wall Thick- ness in inches	Weight per Foot in pounds	HARD DRAWN		SOFT ANNEALED		Wall Thick- ness in inches	Weight Per Foot in pounds	HARD DRAWN	
						Bursting Pressure in pounds	Safe Working Stress in pounds	Bursting Pressure in pounds	Safe Working Stress in pounds			Bursting Pressure in pounds	Safe Working Stress in pounds	Bursting Pressure in pounds	Safe Working Stress in pounds			Bursting Pressure in pounds	Safe Working Stress in pounds
¼"	.375	.376	.374	.035	.145	8190	1365	5120	853	.030	.126	7680	1280	4800	800	.025	.106	6410	1070
⅜"	.500	.501	.499	.049	.269	9410	1570	5880	980	.035	.198	6720	1120	4200	700	.025	.144	4800	800
½"	.625	.626	.624	.049	.344	7530	1255	4710	785	.040	.285	6150	1025	3840	640	.028	.203	4300	717
⅝"	.750	.751	.749	.049	.418	6270	1045	3920	653	.042	.362	5380	897	3360	560				
¾"	.875	.876	.874	.065	.641	7140	1190	4460	743	.045	.455	4940	825	3090	516	.032	.328	3510	585
1"	1.125	1.1265	1.1235	.065	.839	5550	925	3470	578	.050	.655	4270	712	2670	445	.035	.464	2990	498
1¼"	1.375	1.3765	1.3735	.065	1.04	4540	753	2840	473	.055	.884	3840	640	2400	400	.042	.681	2930	488
1½"	1.625	1.627	1.623	.072	1.36	4250	709	2660	443	.060	1.14	3540	590	2215	369	.049	.940	2890	481
2"	2.125	2.127	2.123	.083	2.06	3750	625	2340	390	.070	1.75	3160	527	1980	330	.058	1.46	2620	436
2½"	2.625	2.627	2.623	.095	2.92	3470	578	2170	362	.080	2.48	2930	488	1830	305	.065	2.03	2375	396
3"	3.125	3.127	3.123	.109	4.00	3350	558	2090	348	.090	3.33	2760	460	1730	289	.072	2.68	2210	368
3½"	3.625	3.627	3.623	.120	5.12	3180	530	1990	332	.100	4.29	2650	442	1655	276	.083	3.58	2190	365
4"	4.125	4.127	4.123	.134	6.51	3120	520	1950	325	.110	5.38	2560	427	1600	267	.095	4.66	2210	368
5"	5.125	5.127	5.123	.160	9.67	3000	500	1875	312	.125	7.61	2340	390	1460	243	.109	6.66	2040	340
6"	6.125	6.127	6.123	.192	13.87	3010	502	1880	313	.140	10.20	2190	365	1370	228	.122	8.91	1910	318
8"	8.125	8.127	8.123	.271	25.90	3200	533	2000	333	.200	19.29	2370	395	1480	247	.170	16.46	2010	335

Note: Information and data contained in these charts as taken from A. S. T. M. Specifications No. B-88-33, Federal Specification WW-T-799, and various Copper Tube Mill chart standards.

ENGINEERING DATA

COPPER TUBE FITTINGS AND VALVES

All of the advantages found in copper as a metal have been capitalized to the utmost in the manufacture of NIBCO Valves and Fittings which are shown in this catalog. NIBCO Fittings, because of their accuracy of construction and design, make copper plumbing more efficient and less expensive.

NIBCO manufactures five general types of fittings, Wrot, Cast Solder, Cast Drainage, Flanged, and Flared Tube Fittings. Each has its particular place and use and each offers its own advantages when used for the proper service requirement. The opening page of each section covering these four types gives more information regarding these types of fittings.

ALLOY AND FINISH — All NIBCO fittings and valves are made from highest quality raw materials available — Cast Brass parts are made from 85-5-5-5 Red Brass per A.S.T.M. Specification B62. Wrot Copper parts are made from commercially pure copper tube or strip. Wrot adapters are made from 85-15 composition Red Brass in pipe form.

NIBCO products are produced to meet requirements of applicable standards wherever practicable or where such standards have been established.

- Cast Solder Fittings meet A.S.A. Std. B16.18-1950
- Flared Tube Fittings meet A.S.A. Std. A40.2-1936
- Cast Drainage Fittings are produced to NIBCO standards developed as required for copper drainage line use. (Formal specifications in proposed stage at time of printing.)
- Valves meet design detail of Federal Specifications as shown individually under each valve listing.
- Wrot Solder Joint Fittings meet A.S.A. Std. B16.22-1951
- Flanged Fittings meet individual specifications as published for 150 lb. M.S.S. Standard, 125 lb. A.S.M.E. Standard and R.P.M. Standard as listed.

ROUGHING-IN MEASUREMENTS

Recognizing the need for purposes of estimating tube requirements and other uses, NIBCO has provided in this catalog roughing-in measurements on each individual fitting and valve — straight and reducing sizes. A line drawing is shown opposite each figure number which identifies the measurements found opposite each straight or reducing size of that figure number. It should be pointed out here that these roughing-in measurements are furnished primarily for estimating purposes — if the intended use of this information requires exacting information, the factory should be consulted on each individual item. The desire to furnish our customers with the latest in design advantages causes many changes in pattern equipment and tooling, thru newly adopted A.S.A. Standards on some items and others in the proposed stage at this printing.

TYPE OF JOINTS

FLARED JOINT — Principle of the flared type joint was first developed for copper tube plumbing in 1928 by NIBCO. The flared type joint is wholly a mechanical means of joining copper tubes. The tube nut is placed over the end of the copper tube to be joined — the tube end then is flared out at an approximate 45 deg. angle by a flaring tool — the flared end is then drawn up by the tube nut so the inside surface is tightly secured against the ball seat of the fitting. This joint can be readily dismantled at any time and is in effect a type of a union connection. Its use is generally restricted to soft (annealed) copper tubes since hard drawn tubes would be subject to splitting when flared (if the ends were not previously annealed). Flared ends of NIBCO Flared Fittings and Valves are produced to meet ASA Specifications A40.2-1936.

SOLDER JOINT — NIBCO pioneered in the development of the solder type joint and its application to the field of copper tube plumbing. Today the solder type joint is widely adopted as evidenced by the majority of cities and states that have written codes to include copper tube and solder joints as desirable for general plumbing water lines, vent, stack, waste and drain lines, as well as other uses in industry. The solder type joint in test has shown strength greater than the tubes being joined. While the method of preparing a solder joint is an exacting art to insure a full strength joint, it can be readily mastered by the excellent mechanics in the Plumbing, Heating and Refrigeration trades. It is for this reason — to insure the public of the protection afforded by properly prepared joints — that NIBCO products are marketed thru the reputable sources of supply to the Plumbing, Heating and Refrigeration trades. Important procedures for preparing a solder joint are graphically illustrated on page 8 of this catalog.

THREADED ENDS — To provide adaptability of copper tube to equipment having standard iron pipe connections, or additions to previous iron pipe installations or other purposes, NIBCO provides fittings and valves having both male and female N. P. T. threads. These threaded ends are produced to exacting standards conforming to American Standard Taper Pipe Thread (NPT), ASA B2.1. Symbols for Threaded ends are used throughout catalog as follows:

N.P.T.I. = Internal Standard Pipe Thread (Female)

N.P.T.E. = External Standard Pipe Thread (Male)

FLANGED ENDS — To provide adaptability of copper tube to equipment having flanged connections, or additions to previous flanged pipe installations or other purposes, NIBCO provides flanged adapters and flanged fittings. The flanged ends are produced in three standards most widely used in this field where copper tube can serve — the M.S.S. Standard (150# Class), A.S.M.E. Standard (125# Class) and R.P.M. Standard (100# Class). Flanged end dimensional information is contained in the Flanged Fitting Section beginning on page 79 of this catalog.

ENGINEERING DATA

COPPER TUBE FITTINGS AND VALVES

SOLDER AND SOLDER FLUX REQUIREMENTS					
Nominal Size Joint	Solder Required General Use	*Solder Required Drainage Use	Nominal Size Joint	Solder Required General Use	*Solder Required Drainage Use
1/4"	1/2 lb	-----	2"	2 1/2 lb	1 1/2 lb
3/8"	1/2 lb	-----	2 1/2"	3 1/2 lb	-----
1/2"	3/4 lb	-----	3"	4 1/2 lb	2 3/4 lb
5/8"	7/8 lb	-----	3 1/2"	5 lb	-----
3/4"	1 lb	-----	4"	6 1/2 lb	4 1/4 lb
1"	1 1/2 lb	-----	5"	9 lb	-----
1 1/4"	1 3/4 lb	1 1/4 lb	6"	17 lb	-----
1 1/2"	2 lb	1 3/8 lb	8"	35 lb	-----

Solder requirements in this table are based on estimate of weight of solder used to prepare 100 Solder Joints of sizes shown.

Two oz. of Solder Flux will be required for each pound of Solder.

*Estimate based on ASA Standard as proposed at time of printing.

SERVICE PRESSURE AND TEMPERATURE RATING INSTALLATIONS WITH VARIOUS SOLDERS					
Solder used in Joints	Service Temp. Deg. "F"	Maximum Service Pressure — Water			P.S.I. Steam All Sizes
		1/4"-1" Incl.	1 1/4"-2" Incl.	2 1/2"-4" Incl.	
50-50	100	200	175	150	-----
Tin-Lead	150	150	125	100	-----
Per ASTM	200	100	90	75	-----
B-32 Grade 50A	250	85	75	50	15
95-5	100	500	400	300	-----
Tin-Antimony	150	400	350	275	-----
or 95-5	200	300	250	200	-----
Lead-Tin Per ASTM	250	200	175	150	15
B-32, Grade 5A					
Solders melting at or above 1100° F.	350	270	190	155	120

DIMENSIONAL DATA — SOLDER JOINT FITTING ENDS

Nominal Size	Tolerances — Solder Joint Fittings				Solder Joint Fittings Cast Brass ¹		Solder Joint Fittings Cast Drainage	
	Male End (Fitting Conn.)		Female End (Solder Cup)		Wrot Copper (For General Plumbing Use)		(For Copper Drainage Use)	
	O.D. Max.	O.D. Min.	I.D. Max.	I.D. Min.	Fitting End Length	Solder Cup Depth	Fitting End Length	Solder Cup Depth
1/4"	.376	.374	.380	.378	3/8	1/8	-----	-----
3/8"	.501	.499	.505	.503	1/2	3/8	-----	-----
1/2"	.626	.624	.630	.628	1 1/8	1/2	-----	-----
5/8"	.751	.749	.755	.753	1 1/4	5/8	-----	-----
3/4"	.876	.874	.880	.878	1 1/2	3/4	-----	-----
1"	1.1265	1.1235	1.1305	1.1285	1 3/4	7/8	-----	-----
1 1/4"	1.3765	1.3735	1.3805	1.3785	1 3/4	1 1/8	1 1/4	5/8
1 1/2"	1.627	1.623	1.6315	1.629	1 3/4	1 1/2	3/4	1 1/8
2"	2.127	2.123	2.1315	2.129	1 3/4	1 1/2	1 1/8	3/4
2 1/2"	2.627	2.623	2.6315	2.629	1 3/4	1 1/2	-----	-----
3"	3.127	3.123	3.1315	3.129	1 3/4	1 1/2	1	1 1/8
3 1/2"	3.627	3.623	3.632	3.629	1 3/4	1 1/2	-----	-----
4"	4.127	4.123	4.132	4.129	2 1/2	2 1/2	1 1/4	1 3/8
5"	5.127	5.123	5.132	5.129	2 3/4	2 3/4	-----	-----
6"	6.127	6.123	6.132	6.129	3 1/2	3 1/2	-----	-----
8"	8.127	8.123	8.132	8.129	4 1/2	3 1/2	-----	-----

NOTES ¹ As shown A.S.A. Standard #ASA-B16, 18—1950

SOLDER JOINT — The mechanics of making a solder joint are comparatively simple. Complete instructions of proper techniques are outlined on following page. An important consideration toward insuring a satisfactory joint is the choice of solder to be used. This depends not so much on the working pressure, but rather on the working temperature of the installation. If the working temperature is not over 250 Deg. F. either 50-50 or 95-5 soft solders can be used with assur-

ance. If working temperature exceeds 250 Deg. F. use a low temperature Brazing Alloy with melting temperature somewhat in excess of 1000 Deg. F. Results of elevated-temperature tests indicate that joints in copper tubing made with tin or tin-alloy solders should not be subjected continuously to temperatures above 250 Deg. F. (excerpt from BM&S Report BMS58 of National Bureau of Standards.) Careful study of the choice of Bonding Agent should be made on the higher working temperature lines.

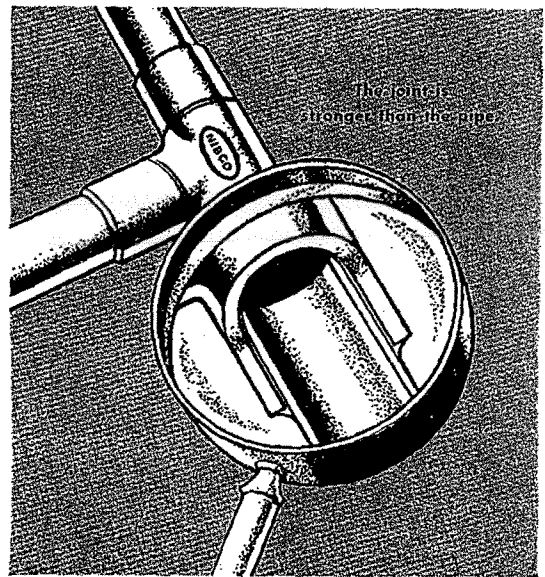
ARCHITECTS • ENGINEERS • OTHERS

To insure trouble-free joints and quality installations of copper tube, following is a suggested phrasing to be incorporated in your specifications or bill of materials:

"Copper Tube Fittings and Valves shall be in strict accordance with applicable standards as published by American Standards Association (A.S.A.)—such as illustrated in NIBCO Catalog 'G' for 1951."

THE FINE ART OF THE Solder Joint

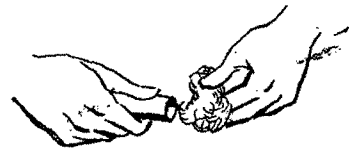
When adjoining surfaces of copper and copper alloys meet under proper conditions of cleanliness and temperature, solder will make a perfect adhesion. The strength of joint is equal to or even greater than the strength of tube alone. This is due to the great affinity of tin and copper... tin of the solder and copper of the tube and fittings. Surface tension seals the joint. Capillary attraction draws solder into-around-through-and-all-about the joint. Learning to make a perfect solder joint with NIBCO Fittings is not difficult. There are...



SIX SIMPLE STEPS

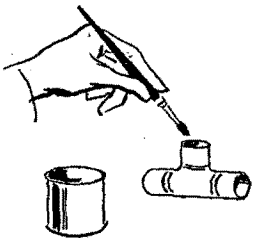
1

CUT TUBE END SQUARE
— REAM — BURR — SIZE.



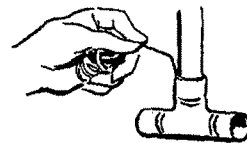
2

Use steel wool, sand cloth or steel wire brush to clean both tube and cup to a bright metal.



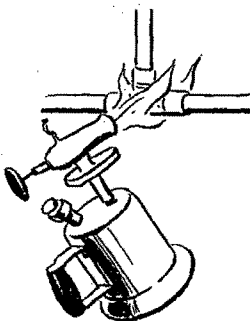
3

Apply solder flux to outside of tube and inside of cup of fitting carefully so that surfaces to be joined are completely covered. Use flux sparingly.



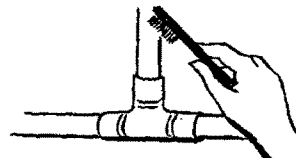
4

Bend over end of solder wire about as long as the size of the fitting... $\frac{1}{2}$ " solder for $\frac{1}{2}$ " fitting, etc.



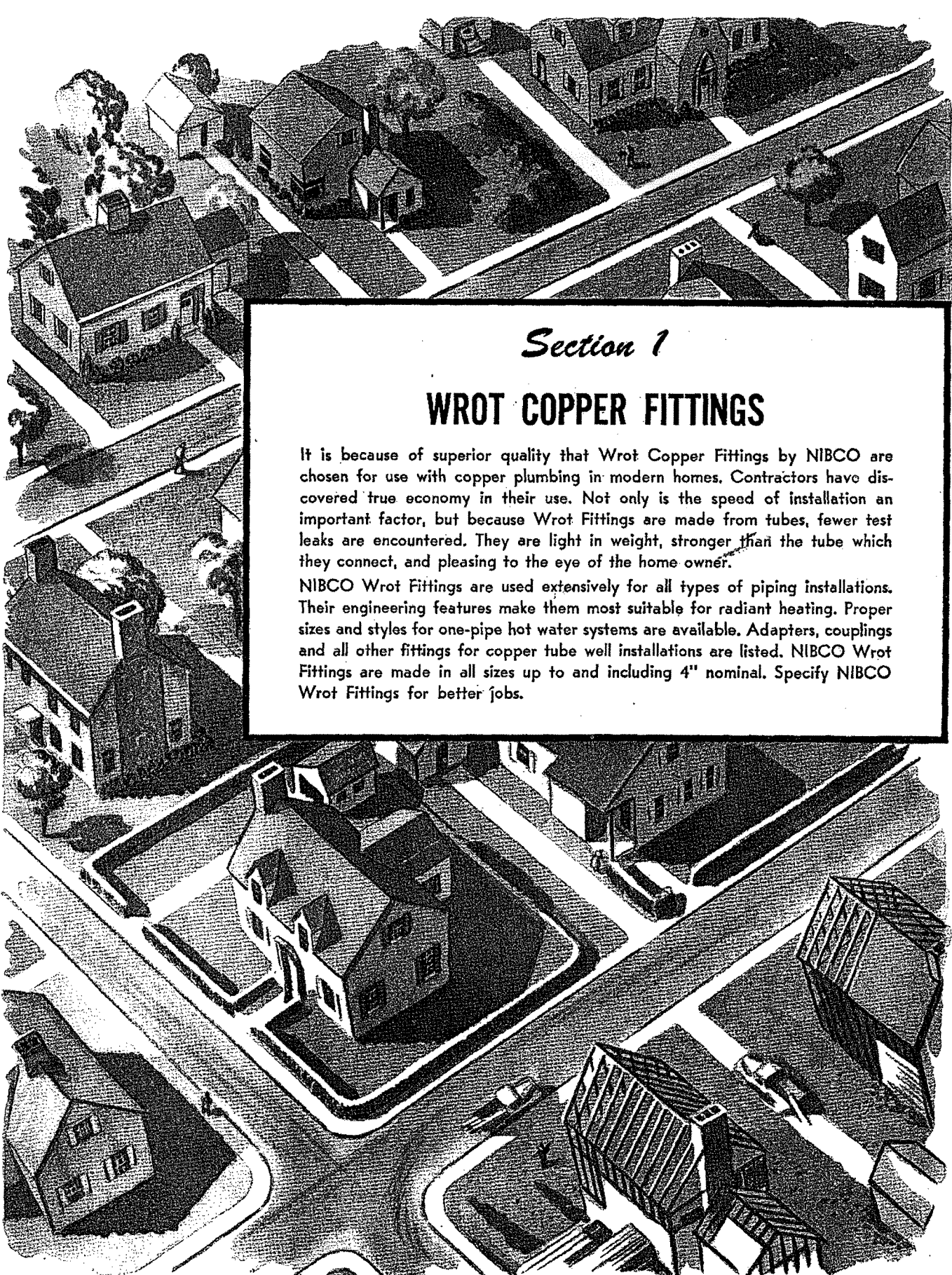
5

Apply flame to the fitting to heat tube and solder cup of fitting until solder melts when placed at joint of tube and fitting. Then pass flame toward center of fitting until solder is absorbed and joint completed.



6

Remove excess solder with a small brush while plastic, leaving a fillet around end of fitting as it cools.

An aerial, black-and-white illustration of a suburban neighborhood. The view shows several houses of varying sizes, some with lawns and trees. Streets are visible, including a main road and a side street. The houses are arranged in a typical residential layout. The illustration is detailed, showing windows, roofs, and surrounding vegetation.

Section 1

WROT COPPER FITTINGS

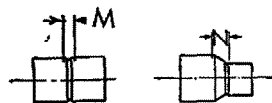
It is because of superior quality that Wrot Copper Fittings by NIBCO are chosen for use with copper plumbing in modern homes. Contractors have discovered true economy in their use. Not only is the speed of installation an important factor, but because Wrot Fittings are made from tubes, fewer test leaks are encountered. They are light in weight, stronger than the tube which they connect, and pleasing to the eye of the home owner.

NIBCO Wrot Fittings are used extensively for all types of piping installations. Their engineering features make them most suitable for radiant heating. Proper sizes and styles for one-pipe hot water systems are available. Adapters, couplings and all other fittings for copper tube well installations are listed. NIBCO Wrot Fittings are made in all sizes up to and including 4" nominal. Specify NIBCO Wrot Fittings for better jobs.



WROT FITTINGS

By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

600 — COUPLINGS WITH STOP

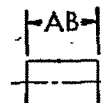
Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. M	Dim. N
$\frac{3}{8}$ " O. D. _____	\$.08	1000S	.005	$\frac{3}{32}$	
$\frac{1}{8}$ " _____	.08	1000S	.01	$\frac{1}{16}$	
$\frac{1}{8}$ " O. D. _____	.09	1000M	.008	$\frac{1}{16}$	
$\frac{1}{8}$ " O. D. x $\frac{1}{8}$ " _____	.09	1000M	.01		$\frac{5}{32}$
$\frac{1}{4}$ " _____	.09	1000M	.015	$\frac{3}{16}$	
$\frac{1}{4}$ " x $\frac{5}{16}$ " O. D. _____	.09	1000M	.01		$\frac{5}{32}$
$\frac{1}{4}$ " x $\frac{1}{8}$ " _____	.09	1000M	.01		$\frac{1}{4}$
$\frac{3}{8}$ " _____	.09	250M	.03	$\frac{3}{16}$	
$\frac{3}{8}$ " x $\frac{1}{4}$ " _____	.09	250M	.015		$\frac{1}{32}$
$\frac{3}{8}$ " x $\frac{5}{16}$ " O. D. _____	.09	250M	.015		$\frac{5}{32}$
$\frac{3}{8}$ " x $\frac{1}{8}$ " _____	.09	250M	.012		$\frac{3}{8}$
$\frac{1}{2}$ " _____	.12	250M	.04	$\frac{3}{16}$	
$\frac{1}{2}$ " x $\frac{3}{8}$ " _____	.12	250M	.03		$\frac{1}{16}$
$\frac{1}{2}$ " x $\frac{1}{4}$ " _____	.12	250M	.02		$\frac{3}{32}$
$\frac{5}{8}$ " _____	.15	100M	.05		$\frac{3}{32}$
$\frac{5}{8}$ " x $\frac{1}{2}$ " _____	.15	100M	.055		$\frac{1}{32}$
$\frac{5}{8}$ " x $\frac{3}{8}$ " _____	.15	100M	.05		$\frac{1}{16}$
$\frac{5}{8}$ " x $\frac{1}{4}$ " _____	.15	100M	.025		$\frac{3}{8}$
$\frac{3}{4}$ " _____	.18	100M	.10	$\frac{1}{16}$	
$\frac{3}{4}$ " x $\frac{5}{8}$ " _____	.18	100M	.075		$\frac{1}{32}$
$\frac{3}{4}$ " x $\frac{1}{2}$ " _____	.18	100M	.065		$\frac{1}{16}$
$\frac{3}{4}$ " x $\frac{3}{8}$ " _____	.18	100M	.06		$\frac{3}{8}$
$\frac{3}{4}$ " x $\frac{1}{4}$ " _____	.18	100M	.05		$\frac{1}{4}$
$\frac{7}{8}$ " _____	.22	150L	.13	$\frac{1}{16}$	
1" _____	.24	150L	.15	$\frac{1}{16}$	
1" x $\frac{7}{8}$ " _____	.24	150L	.15		$\frac{5}{32}$
1" x $\frac{3}{4}$ " _____	.24	150L	.15		$\frac{1}{32}$
1" x $\frac{5}{8}$ " _____	.24	150L	.10		$\frac{1}{32}$
1" x $\frac{1}{2}$ " _____	.24	150L	.09		$\frac{1}{16}$
1" x $\frac{3}{8}$ " _____	.24	150L	.08		$\frac{1}{4}$
$1\frac{1}{4}$ " _____	.30	100L	.19	$\frac{3}{32}$	
$1\frac{1}{4}$ " x 1" _____	.30	100L	.20		$\frac{1}{16}$
$1\frac{1}{4}$ " x $\frac{3}{4}$ " _____	.30	100L	.12		$\frac{1}{2}$
$1\frac{1}{4}$ " x $\frac{5}{8}$ " _____	.30	100L	.13		$\frac{3}{8}$
$1\frac{1}{4}$ " x $\frac{1}{2}$ " _____	.30	100L	.10		$\frac{1}{32}$
$1\frac{1}{2}$ " _____	.38	50L	.28	$\frac{3}{32}$	
$1\frac{1}{2}$ " x $1\frac{1}{4}$ " _____	.38	50L	.24		$\frac{1}{16}$
$1\frac{1}{2}$ " x 1" _____	.38	50L	.18		$\frac{1}{2}$
$1\frac{1}{2}$ " x $\frac{3}{4}$ " _____	.38	50L	.16		$\frac{3}{8}$
$1\frac{1}{2}$ " x $\frac{1}{2}$ " _____	.38	50L	.12		$\frac{1}{16}$
2" _____	.68	25L	.44	$\frac{1}{8}$	
2" x $1\frac{1}{2}$ " _____	.68	25L	.39		$\frac{1}{16}$
2" x $1\frac{1}{4}$ " _____	.68	25L	.33		$\frac{3}{4}$
2" x 1" _____	.68	25L	.27		$\frac{3}{32}$
2" x $\frac{3}{4}$ " _____	.68	25L	.27		$\frac{1}{32}$
2" x $\frac{1}{2}$ " _____	.68	25L	.24		$\frac{1}{16}$

600 — COUPLINGS WITH STOP

(Continued)

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. M	Dim. N
$2\frac{1}{2}$ " _____	\$ 1.00		.74	$\frac{1}{8}$	
$2\frac{1}{2}$ " x 2" _____	1.00		.69		$\frac{3}{32}$
$2\frac{1}{2}$ " x $1\frac{1}{2}$ " _____	1.00		.71		$\frac{1}{16}$
$2\frac{1}{2}$ " x $1\frac{1}{4}$ " _____	1.00		.64		$\frac{5}{8}$
$2\frac{1}{2}$ " x 1" _____	1.00		.62		$\frac{3}{4}$
3" _____	1.65		1.15	$\frac{1}{16}$	
3" x $2\frac{1}{2}$ " _____	1.65		1.09		$\frac{3}{32}$
3" x 2" _____	1.65		.81		$\frac{1}{16}$
3" x $1\frac{1}{2}$ " _____	1.65		.90		$\frac{3}{4}$
$3\frac{1}{2}$ " _____	2.35		1.84	$\frac{1}{16}$	
$3\frac{1}{2}$ " x 3" _____	2.35		1.90		$\frac{1}{8}$
4" _____	2.95		2.21	$\frac{1}{16}$	
4" x $3\frac{1}{2}$ " _____	2.95		2.14		$\frac{1}{16}$
4" x 3" _____	2.95		2.03		$\frac{1}{16}$
5" _____	5.95		4.80	$\frac{1}{4}$	
6" _____	8.35		8.03	$\frac{1}{4}$	
8" _____	14.45		18.70	$\frac{1}{4}$	



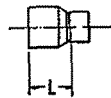
601 — COUPLINGS WITHOUT STOP

Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. AB
$\frac{3}{8}$ " O.D. _____	\$.08	1000S	.005	$\frac{3}{4}$
$\frac{1}{8}$ " _____	.08	1000S	.01	$\frac{1}{16}$
$\frac{1}{8}$ " O.D. _____	.09	1000M	.008	$\frac{3}{4}$
$\frac{1}{4}$ " _____	.09	1000M	.015	$\frac{5}{8}$
$\frac{3}{8}$ " _____	.09	250M	.03	$1\frac{1}{4}$
$\frac{1}{2}$ " _____	.12	250M	.04	$1\frac{1}{2}$
$\frac{3}{8}$ " _____	.15	100M	.05	$1\frac{1}{8}$
$\frac{3}{4}$ " _____	.18	100M	.10	$1\frac{1}{4}$
$\frac{7}{8}$ " _____	.22	150L	.13	$1\frac{1}{8}$
1" _____	.24	150L	.15	$1\frac{1}{4}$
$1\frac{1}{4}$ " _____	.30	100L	.19	$2\frac{3}{8}$
$1\frac{1}{2}$ " _____	.38	50L	.28	$2\frac{1}{2}$
2" _____	.68	25L	.44	$2\frac{3}{8}$
$2\frac{1}{2}$ " _____	1.00		.74	$3\frac{1}{8}$
3" _____	1.65		1.15	$3\frac{3}{8}$
$3\frac{1}{2}$ " _____	2.35		1.84	$4\frac{1}{8}$
4" _____	2.95		2.21	$4\frac{3}{8}$
5" _____	5.95		4.80	$5\frac{3}{8}$
6" _____	8.35		8.03	$6\frac{3}{4}$
8" _____	14.45		18.70	7

WROT FITTINGS

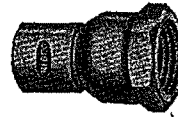
By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

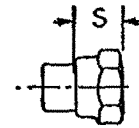
600-2 — FITTING REDUCER

Fitting to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. L
$\frac{1}{4}$ " x $\frac{1}{8}$ "	.09	100M	.008	$\frac{5}{8}$ "
$\frac{3}{8}$ " x $\frac{1}{4}$ "	.09	250M	.015	$\frac{3}{4}$ "
$\frac{3}{8}$ " x $\frac{1}{8}$ "	.09	250M	.01	$\frac{3}{4}$ "
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.12	250M	.035	$\frac{3}{4}$ "
$\frac{1}{2}$ " x $\frac{1}{4}$ "	.12	250M	.02	$\frac{3}{4}$ "
$\frac{3}{8}$ " x $\frac{1}{2}$ "	.15	100M	.05	1"
$\frac{3}{8}$ " x $\frac{3}{8}$ "	.15	100M	.045	$1\frac{1}{8}$ "
$\frac{3}{4}$ " x $\frac{3}{8}$ "	.18	100M	.075	$1\frac{1}{8}$ "
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.18	100M	.06	$1\frac{1}{8}$ "
$\frac{3}{4}$ " x $\frac{3}{4}$ "	.18	100M	.05	$1\frac{1}{4}$ "
$\frac{3}{4}$ " x $\frac{1}{4}$ "	.18	100M	.04	$1\frac{1}{8}$ "
1" x $\frac{3}{4}$ "	.24	150L	.135	$1\frac{1}{8}$ "
1" x $\frac{1}{2}$ "	.24	150L	.085	$1\frac{1}{8}$ "
1" x $\frac{3}{8}$ "	.24	150L	.07	$1\frac{1}{8}$ "
$1\frac{1}{4}$ " x 1"	.30	100L	.18	1 $\frac{3}{8}$ "
$1\frac{1}{4}$ " x $\frac{3}{4}$ "	.30	100L	.18	$1\frac{3}{8}$ "
$1\frac{1}{4}$ " x $\frac{1}{2}$ "	.30	100L	.17	$1\frac{1}{8}$ "
$1\frac{1}{2}$ " x $1\frac{1}{4}$ "	.38	50L	.24	$1\frac{1}{2}$ "
$1\frac{1}{2}$ " x 1"	.38	50L	.23	$1\frac{1}{8}$ "
$1\frac{1}{2}$ " x $\frac{3}{4}$ "	.38	50L	.21	$1\frac{1}{8}$ "
$1\frac{1}{2}$ " x $\frac{1}{2}$ "	.38	50L	.125	$1\frac{1}{2}$ "
2" x $1\frac{1}{2}$ "	.68	25L	.395	$1\frac{1}{2}$ "
2" x $1\frac{1}{4}$ "	.68	25L	.34	$2\frac{1}{8}$ "
2" x 1"	.68	25L	.26	$1\frac{1}{8}$ "
2" x $\frac{3}{4}$ "	.68	25L	.25	$1\frac{1}{8}$ "
2" x $\frac{1}{2}$ "	.68	25L	.24	$1\frac{1}{8}$ "
$2\frac{1}{2}$ " x 2"	1.00		.65	$2\frac{1}{8}$ "
$2\frac{1}{2}$ " x $1\frac{1}{2}$ "	1.00		.64	$2\frac{1}{8}$ "
$2\frac{1}{2}$ " x $1\frac{1}{4}$ "	1.00		.63	$2\frac{3}{8}$ "
$2\frac{1}{2}$ " x 1"	1.00		.62	3
3" x $2\frac{1}{2}$ "	1.65		.91	$2\frac{1}{8}$ "
3" x 2"	1.65		.82	$2\frac{3}{8}$ "
3" x $1\frac{1}{2}$ "	1.65		.89	$2\frac{3}{8}$ "
3" x $1\frac{1}{4}$ "	1.65		.94	$2\frac{3}{8}$ "
3" x 1"	1.65		.92	$2\frac{3}{8}$ "
$3\frac{1}{2}$ " x 3"	2.35		2.07	$2\frac{3}{8}$ "
4" x $3\frac{1}{2}$ "	2.95		2.15	$2\frac{1}{8}$ "
4" x 3"	2.95		1.96	$3\frac{1}{8}$ "
4" x $2\frac{1}{2}$ "	2.95		1.85	$3\frac{1}{8}$ "
4" x 2"	2.95		1.80	$3\frac{1}{2}$ "
4" x $1\frac{1}{2}$ "	2.95		1.80	$3\frac{1}{2}$ "
4" x $1\frac{1}{4}$ "	2.95		1.80	$3\frac{3}{8}$ "
4" x 1"	2.95		1.73	$3\frac{3}{8}$ "



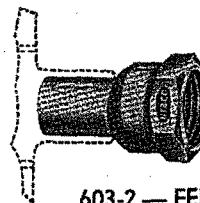
Patent Applied For



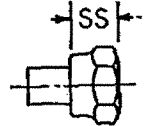
603 — FEMALE ADAPTERS

Copper to N. P. T. I.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. S
$\frac{1}{8}$ "	.18	500S	.02	$\frac{1}{8}$ "
$\frac{1}{4}$ "	.18	500M	.04	$\frac{3}{4}$ "
$\frac{1}{4}$ " x $\frac{3}{8}$ "	.18	250M	.07	$\frac{7}{8}$ "
$\frac{3}{8}$ "	.18	250M	.06	$\frac{3}{4}$ "
$\frac{3}{8}$ " x $\frac{3}{4}$ "	.30	100M	.16	$\frac{1}{2}$ "
$\frac{3}{8}$ " x $\frac{1}{2}$ "	.20	150M	.09	$\frac{3}{4}$ "
$\frac{1}{2}$ "	.20	150M	.09	$\frac{3}{4}$ "
$\frac{1}{2}$ " x $\frac{3}{4}$ "	.30	100M	.16	$1\frac{1}{8}$ "
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.20	150M	.06	$\frac{1}{8}$ "
$\frac{1}{2}$ " x $\frac{1}{4}$ "	.20	150M	.07	$\frac{1}{2}$ "
$\frac{3}{8}$ " x $\frac{3}{4}$ "	.30	100M	.14	$\frac{1}{2}$ "
$\frac{3}{8}$ " x $\frac{1}{2}$ "	.25	100M	.09	$\frac{1}{2}$ "
$\frac{3}{4}$ "	.30	100M	.165	$\frac{1}{2}$ "
$\frac{3}{4}$ " x 1"	.55	100L	.26	$1\frac{1}{4}$ "
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.30	100M	.12	$\frac{1}{2}$ "
1"	.55	100L	.28	$1\frac{1}{4}$ "
1" x $\frac{1}{4}$ "	.76	75L	.44	$1\frac{1}{4}$ "
1" x $\frac{3}{4}$ "	.55	100L	.19	$\frac{1}{2}$ "
$1\frac{1}{4}$ "	.76	75L	.36	$1\frac{1}{8}$ "
$1\frac{1}{4}$ " x $\frac{1}{2}$ "	1.05	40L	.46	$1\frac{1}{2}$ "
$1\frac{1}{4}$ " x 1"	.76	75L	.37	$1\frac{1}{4}$ "
$1\frac{1}{2}$ "	1.05	40L	.47	$1\frac{1}{2}$ "
$1\frac{1}{2}$ " x 2"	1.50	25L	.68	$1\frac{1}{4}$ "
$1\frac{1}{2}$ " x $\frac{1}{4}$ "	1.05	40L	.46	$1\frac{1}{8}$ "
2"	1.50	25L	.69	$1\frac{1}{2}$ "
2" x $1\frac{1}{2}$ "	1.50	25L	.68	$1\frac{1}{2}$ "



Patent Applied For



603-2 — FEMALE FITTING ADAPTERS

Fitting to N. P. T. I.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. SS
$\frac{1}{8}$ "	.18	500S	.02	$\frac{1}{8}$ "
$\frac{1}{4}$ "	.18	500M	.04	$\frac{3}{4}$ "
$\frac{3}{8}$ "	.18	250M	.06	$\frac{3}{4}$ "
$\frac{3}{8}$ " x $\frac{1}{2}$ "	.20	150M	.08	$\frac{3}{4}$ "
$\frac{1}{2}$ "	.20	150M	.09	$\frac{1}{2}$ "
$\frac{1}{2}$ " x $\frac{3}{4}$ "	.30	100M	.18	$\frac{3}{4}$ "
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.20	150M	.06	$\frac{3}{4}$ "
$\frac{3}{4}$ "	.30	100M	.17	$\frac{3}{4}$ "
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.30	100M	.15	$\frac{3}{4}$ "
1"	.55	100L	.28	$1\frac{1}{4}$ "
$1\frac{1}{4}$ "	.76	75L	.36	$1\frac{1}{8}$ "
$1\frac{1}{2}$ "	1.05	40L	.45	$1\frac{1}{4}$ "
2"	1.50	25L	.72	$1\frac{1}{2}$ "

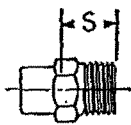


WROT FITTINGS

By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

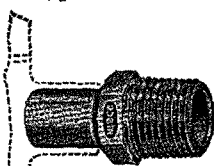
Patent Applied For



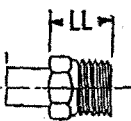
604 — MALE ADAPTERS

Copper to N. P. T. E.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. S
$\frac{1}{8}$ "	.18	500S	.025	$\frac{1}{2}$ "
$\frac{1}{4}$ "	.18	500M	.03	$\frac{3}{4}$ "
$\frac{1}{4}$ " x $\frac{3}{8}$ "	.18	250M	.08	1"
$\frac{3}{8}$ "	.18	250M	.05	$\frac{3}{4}$ "
$\frac{3}{8}$ " x $\frac{3}{4}$ "	.30	100M	.15	$1\frac{1}{4}$ "
$\frac{3}{8}$ " x $\frac{1}{2}$ "	.20	150M	.08	$1\frac{1}{8}$ "
$\frac{1}{2}$ "	.20	150M	.085	$1\frac{1}{8}$ "
$\frac{1}{2}$ " x 1"	.55	100L	.23	$1\frac{1}{4}$ "
$\frac{1}{2}$ " x $\frac{3}{4}$ "	.30	100M	.15	$1\frac{1}{8}$ "
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.20	150M	.06	$\frac{3}{4}$ "
$\frac{5}{8}$ " x $\frac{3}{4}$ "	.30	100M	.19	$1\frac{1}{8}$ "
$\frac{5}{8}$ " x $\frac{1}{2}$ "	.25	100M	.09	1"
$\frac{3}{4}$ "	.30	100M	.16	$1\frac{1}{8}$ "
$\frac{3}{4}$ " x 1"	.55	100L	.26	$1\frac{1}{2}$ "
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.30	100M	.13	$\frac{1}{2}$ "
1"	.55	100L	.25	$1\frac{1}{8}$ "
1" x $1\frac{1}{4}$ "	.76	75L	.38	$1\frac{3}{4}$ "
1" x $\frac{3}{4}$ "	.55	100L	.19	$1\frac{1}{8}$ "
$1\frac{1}{4}$ "	.76	75L	.36	$1\frac{1}{8}$ "
$1\frac{1}{4}$ " x $1\frac{1}{2}$ "	1.05	40L	.52	$1\frac{1}{2}$ "
$1\frac{1}{4}$ " x 1"	.76	75L	.29	$1\frac{1}{2}$ "
$1\frac{1}{2}$ "	1.05	40L	.55	$1\frac{1}{2}$ "
$1\frac{1}{2}$ " x 2"	1.50	25L	1.14	$1\frac{1}{2}$ "
$1\frac{1}{2}$ " x $1\frac{1}{4}$ "	1.05	40L	.42	$1\frac{1}{8}$ "
2"	1.50	25L	.79	$1\frac{1}{2}$ "
2" x $1\frac{1}{2}$ "	1.50	25L	.70	$1\frac{1}{2}$ "



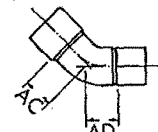
Patent Applied For



604-2 — MALE FITTING ADAPTERS

Fitting to N. P. T. E.

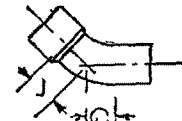
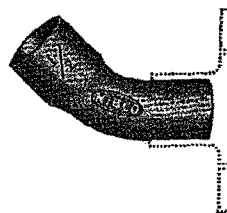
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. LL
$\frac{1}{8}$ "	.18	500S	.035	$\frac{3}{4}$ "
$\frac{1}{4}$ "	.18	500M	.03	$\frac{1}{2}$ "
$\frac{3}{8}$ "	.18	250M	.055	$\frac{3}{4}$ "
$\frac{3}{8}$ " x $\frac{1}{2}$ "	.20	150M	.10	$1\frac{1}{2}$ "
$\frac{1}{2}$ "	.20	150M	.085	$1\frac{1}{8}$ "
$\frac{1}{2}$ " x $\frac{3}{4}$ "	.30	100M	.16	$1\frac{3}{4}$ "
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.20	150M	.09	$\frac{3}{4}$ "
$\frac{3}{4}$ "	.30	100M	.195	$1\frac{1}{4}$ "
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.30	100M	.15	1"
1"	.55	100L	.265	$1\frac{3}{4}$ "
$1\frac{1}{4}$ "	.76	75L	.36	$1\frac{1}{2}$ "
$1\frac{1}{4}$ " x 1"	.76	75L	.29	$1\frac{1}{2}$ "
$1\frac{1}{2}$ "	1.05	40L	.75	$1\frac{1}{8}$ "
2"	1.50	25L	.80	$1\frac{1}{2}$ "



606 — 45 DEG. ELBOWS

Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. J	Dim. AC	Dim. AD
$\frac{1}{8}$ " O.D.	.15	500S	.005	$\frac{1}{2}$ "		
$\frac{1}{8}$ "	.15	500S	.01	$\frac{1}{4}$ "		
$\frac{1}{8}$ " O.D.	.15	500M	.012	$\frac{1}{2}$ "		
$\frac{1}{4}$ "	.15	500M	.02	$\frac{1}{2}$ "		
$\frac{3}{8}$ "	.15	250M	.04	$\frac{3}{4}$ "		
$\frac{3}{8}$ " x $\frac{1}{4}$ "	.15	250M	.04		$\frac{1}{8}$ "	$\frac{1}{2}$ "
$\frac{1}{2}$ "	.18	150M	.06	$\frac{1}{2}$ "		
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.18	150M	.07		$\frac{3}{8}$ "	$\frac{3}{8}$ "
$\frac{3}{8}$ "	.23	150L	.08	$\frac{1}{2}$ "		
$\frac{3}{4}$ "	.30	150L	.14	$\frac{1}{2}$ "		
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.30	150L	.16		$\frac{3}{8}$ "	$\frac{1}{8}$ "
$\frac{7}{8}$ "	.43	75L	.21	$\frac{1}{2}$ "		
1"	.55	75L	.23	$\frac{1}{2}$ "		
1" x $\frac{3}{4}$ "	.55	75L	.24		$\frac{3}{4}$ "	$\frac{3}{8}$ "
$1\frac{1}{4}$ "	.84	50L	.32	$\frac{1}{2}$ "		
$1\frac{1}{4}$ " x 1"	.84	50L	.30		$\frac{3}{8}$ "	$\frac{1}{8}$ "
$1\frac{1}{2}$ "	1.15	25L	.46	$1\frac{1}{2}$ "		
2"	1.65		.77	$1\frac{1}{4}$ "		
$2\frac{1}{2}$ "	3.05		1.46	$1\frac{1}{2}$ "		
3"	4.60		2.48	2		
$3\frac{1}{2}$ "	6.65		3.58	$2\frac{3}{4}$ "		
4"	8.70		5.20	$2\frac{1}{2}$ "		



606-2 — 45 DEG. STREET ELBOWS

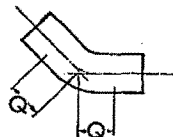
Copper to Fitting

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. J	Dim. Q
$\frac{1}{8}$ "	.20	500S	.008	$\frac{1}{2}$ "	$\frac{1}{2}$ "
$\frac{1}{4}$ "	.20	500M	.012	$\frac{1}{2}$ "	$\frac{1}{2}$ "
$\frac{3}{8}$ "	.20	250M	.04	$\frac{3}{4}$ "	$\frac{3}{4}$ "
$\frac{1}{2}$ "	.28	150M	.06	$\frac{1}{2}$ "	$\frac{1}{2}$ "
$\frac{5}{8}$ "	.34	150L	.085	$\frac{1}{2}$ "	$\frac{1}{2}$ "
$\frac{3}{4}$ "	.40	150L	.15	$\frac{1}{2}$ "	$\frac{1}{2}$ "
$\frac{7}{8}$ "	.55	75L	.18	$\frac{1}{2}$ "	$\frac{1}{2}$ "
1"	.70	75L	.22	$\frac{1}{2}$ "	$\frac{3}{8}$ "
$1\frac{1}{4}$ "	.84	50L	.34	$\frac{1}{2}$ "	$\frac{1}{2}$ "
$1\frac{1}{2}$ "	1.15	25L	.47	$1\frac{1}{2}$ "	$1\frac{1}{2}$ "
2"	1.65		.78	$1\frac{1}{2}$ "	$1\frac{1}{2}$ "
$2\frac{1}{2}$ "	3.05		1.44	$1\frac{1}{2}$ "	$1\frac{1}{2}$ "
3"	4.60		2.43	2	$1\frac{1}{2}$ "

WROT FITTINGS

By NIBCO

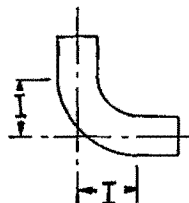
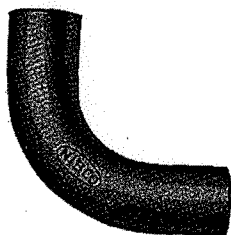
Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.



606-2-2 — 45 DEG. STREET ELBOWS

Fitting to Fitting

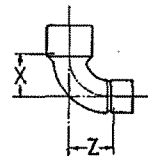
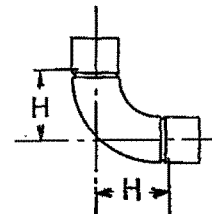
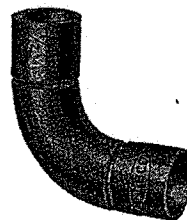
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. Q
$\frac{1}{4}$ "	\$.20	500M	.01	$\frac{15}{16}$
$\frac{3}{8}$ "	.20	250M	.03	$\frac{5}{16}$
$\frac{1}{2}$ "	.28	150M	.055	$\frac{21}{32}$
$\frac{5}{8}$ "	.34	150L	.08	$\frac{1}{2}$
$\frac{3}{4}$ "	.40	150L	.135	$\frac{13}{16}$
1"	.70	75L	.22	$\frac{5}{8}$



607-2-2 — 90 DEG. STREET ELBOWS

Fitting to Fitting

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. I
$\frac{1}{8}$ "	\$.20	500M	.01	$\frac{3}{8}$
$\frac{1}{4}$ "	.20	500M	.015	$\frac{1}{8}$
$\frac{3}{8}$ "	.20	250M	.04	$\frac{3}{4}$
$\frac{1}{2}$ "	.28	100M	.075	1
$\frac{5}{8}$ "	.34	100L	.10	$1\frac{1}{16}$
$\frac{3}{4}$ "	.40	100L	.18	$1\frac{1}{4}$
$\frac{7}{8}$ "	.55	50L	.20	$1\frac{1}{4}$
1"	.70	50L	.29	$1\frac{1}{2}$
$1\frac{1}{4}$ "	.84	25L	.43	$2\frac{3}{32}$
$1\frac{1}{2}$ "	1.15	25L	.65	$2\frac{11}{32}$
2"	1.65		1.12	$2\frac{27}{32}$
$2\frac{1}{2}$ "	3.05		2.10	$3\frac{1}{16}$
3"	4.60		3.45	$4\frac{5}{8}$



607 — 90 DEG. ELBOWS

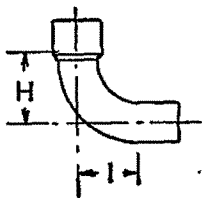
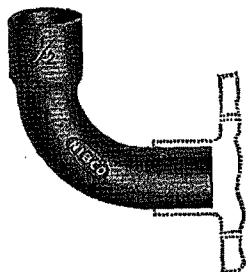
Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H	Dim. X	Dim. Z
$\frac{1}{8}$ " O.D.	\$.15	500M	.008	$\frac{3}{8}$		
$\frac{1}{8}$ "	.15	500M	.01	$\frac{1}{8}$		
$\frac{1}{8}$ " O.D.	.15	500M	.016	$\frac{3}{8}$		
$\frac{1}{4}$ "	.15	500M	.02	$\frac{1}{2}$		
$\frac{1}{4}$ " x $\frac{1}{8}$ "	.15	500M	.015		$\frac{1}{2}$	$\frac{7}{16}$
$\frac{3}{8}$ "	.15	250M	.035	$\frac{7}{16}$		
$\frac{3}{8}$ " x $\frac{1}{4}$ "	.15	250M	.03		$\frac{3}{8}$	$\frac{1}{2}$
$\frac{1}{2}$ "	.15	100M	.048	$\frac{5}{8}$		
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.18	100M	.06		$\frac{3}{4}$	$\frac{1}{2}$
$\frac{1}{2}$ " x $\frac{1}{4}$ "	.18	100M	.03		$\frac{1}{2}$	$\frac{3}{4}$
$\frac{5}{8}$ "	.23	100L	.11	$1\frac{1}{16}$		
$\frac{5}{8}$ " x $\frac{1}{2}$ "	.23	100L	.10		$\frac{3}{4}$	1
$\frac{5}{8}$ " x $\frac{3}{8}$ "	.23	100L	.07		1	$\frac{3}{4}$
$\frac{3}{4}$ "	.30	100L	.117	$\frac{1}{2}$		
$\frac{3}{4}$ " x $\frac{5}{8}$ "	.30	100L	.13		$1\frac{1}{4}$	1
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.30	100L	.10		$1\frac{1}{8}$	$1\frac{1}{16}$
$\frac{3}{4}$ " x $\frac{3}{8}$ "	.30	100L	.08		$\frac{3}{4}$	$\frac{3}{4}$
$\frac{7}{8}$ "	.43	50L	.28	$1\frac{13}{16}$		
1"	.55	50L	.205	$\frac{3}{2}$		
1" x $\frac{3}{4}$ "	.55	50L	.235		$1\frac{11}{16}$	$1\frac{5}{8}$
1" x $\frac{5}{8}$ "	.55	50L	.145		$1\frac{5}{8}$	$1\frac{1}{4}$
1" x $\frac{1}{2}$ "	.55	50L	.12		$1\frac{3}{8}$	$1\frac{1}{8}$
$1\frac{1}{4}$ "	.84	25L	.47	$2\frac{3}{32}$		
$1\frac{1}{4}$ " x 1"	.84	25L	.35		$1\frac{3}{4}$	$1\frac{5}{16}$
$1\frac{1}{4}$ " x $\frac{3}{4}$ "	.84	25L	.25		$1\frac{11}{16}$	$1\frac{1}{8}$
$1\frac{1}{2}$ "	1.15	25L	.67	$2\frac{11}{16}$		
$1\frac{1}{2}$ " x $1\frac{1}{4}$ "	1.15	25L	.49		$2\frac{3}{8}$	$2\frac{3}{16}$
$1\frac{1}{2}$ " x 1"	1.15	25L	.424		$1\frac{11}{16}$	$1\frac{5}{8}$
2"	1.65		1.10	$2\frac{7}{8}$		
2" x $1\frac{1}{2}$ "	1.65		.793		$2\frac{3}{8}$	$2\frac{11}{16}$
2" x $1\frac{1}{4}$ "	1.65		.53		$2\frac{1}{8}$	$2\frac{3}{16}$
$2\frac{1}{2}$ "	3.05		1.99	$3\frac{1}{16}$		
3"	4.60		3.62	$4\frac{5}{8}$		
$3\frac{1}{2}$ "	6.65		5.19	$5\frac{1}{8}$		
4"	8.70		7.54	$6\frac{1}{4}$		

WROT FITTINGS

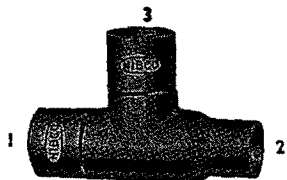
By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.



607-2 — 90 DEG. STREET ELBOWS
Copper to Fitting

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H	Dim. I
$\frac{1}{8}$ "	.20	500M	.012	$\frac{1}{8}$	$\frac{3}{8}$
$\frac{1}{4}$ "	.20	500M	.02	$\frac{1}{4}$	$\frac{1}{2}$
$\frac{1}{4}$ " x $\frac{1}{2}$ "	.28	100M	.03	$1\frac{1}{2}$	1
$\frac{3}{8}$ "	.20	250M	.05	$\frac{3}{8}$	$\frac{3}{4}$
$\frac{3}{8}$ " x $\frac{1}{2}$ "	.28	100M	.06	$1\frac{1}{2}$	1
$\frac{1}{2}$ "	.28	100M	.08	$1\frac{1}{2}$	1
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.28	100M	.055	$1\frac{1}{2}$	$\frac{3}{4}$
$\frac{3}{8}$ "	.34	100L	.10	$1\frac{1}{2}$	$1\frac{1}{4}$
$\frac{3}{4}$ "	.40	100L	.19	$1\frac{1}{2}$	$1\frac{1}{4}$
$\frac{3}{4}$ " x 1"	.70	50L	.25	$1\frac{1}{2}$	$1\frac{3}{4}$
$\frac{7}{8}$ "	.55	50L	.30	$1\frac{1}{2}$	$1\frac{1}{4}$
1"	.70	50L	.30	$1\frac{1}{2}$	$1\frac{1}{2}$
1" x $\frac{3}{4}$ "	.70	50L	.21	$1\frac{1}{2}$	$1\frac{1}{4}$
1 $\frac{1}{4}$ "	.84	25L	.45	2 $\frac{3}{4}$	2 $\frac{3}{4}$
1 $\frac{1}{2}$ "	1.15	25L	.70	2 $\frac{3}{4}$	2 $\frac{3}{4}$
2"	1.65		1.10	2 $\frac{3}{4}$	2 $\frac{3}{4}$
2 $\frac{1}{2}$ "	3.05		2.11	2 $\frac{3}{4}$	3 $\frac{3}{4}$
3"	4.60		3.49	4 $\frac{3}{4}$	4 $\frac{3}{4}$
4"	8.70		6.37	6 $\frac{3}{4}$	6 $\frac{3}{4}$

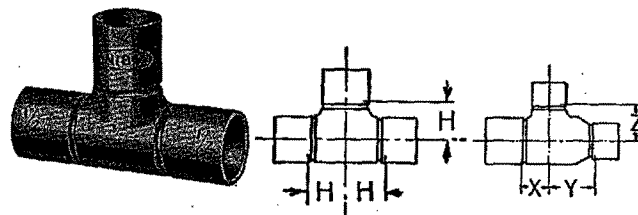


U.S. Patents 2,027,285—2,111,695—2,557,403

611-HE — HEAT EXCHANGER TEES
Copper to Copper to Copper

Tube slips entirely thru fitting on small end of run.

Sizes and Prices same as listed under 611 where tee has one or more reductions on one end of the run.



U.S. Patents 2,027,285—2,111,695—2,557,403

611 — TEES
Copper to Copper to Copper

Nominal Size	List Price Each	Bag Qty.	App. Net Wt.	Dim. H	Dim. X	Dim. Y	Dim. Z
$\frac{1}{8}$ " O.D.	.23	500M	.01	$\frac{1}{8}$			
$\frac{1}{8}$ "	.23	500M	.01	$\frac{1}{8}$			
$\frac{1}{8}$ " x $\frac{1}{8}$ " x $\frac{1}{4}$ "	.23	500M	.02		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{1}{8}$ " O.D.	.23	500M	.02	$\frac{1}{8}$			
$\frac{1}{8}$ " O.D. x $\frac{1}{8}$ " O.D. x $\frac{1}{4}$ "	.23	500M	.02		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{1}{8}$ " O.D. x $\frac{1}{8}$ " O.D. x $\frac{1}{8}$ "	.23	500M	.02		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{1}{8}$ " O.D. x $\frac{1}{8}$ " x $\frac{1}{8}$ " O.D.	.23	500M	.02		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{1}{8}$ " O.D. x $\frac{1}{8}$ " x $\frac{1}{8}$ "	.23	500M	.02		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{1}{4}$ "	.23	500M	.02	$\frac{1}{4}$			
$\frac{1}{4}$ " x $\frac{1}{4}$ " x $\frac{1}{2}$ "	.27	100M	.09		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{1}{4}$ " x $\frac{1}{4}$ " x $\frac{3}{8}$ "	.23	200M	.065		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{1}{4}$ " x $\frac{1}{4}$ " x $\frac{1}{8}$ " O.D.	.23	500M	.02		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{1}{4}$ " x $\frac{1}{4}$ " x $\frac{1}{8}$ "	.23	500M	.02		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{1}{4}$ " x $\frac{1}{8}$ " O.D. x $\frac{1}{4}$ "	.23	500M	.02		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{1}{4}$ " x $\frac{1}{8}$ " O.D. x $\frac{1}{8}$ " O.D.	.23	500M	.02		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{1}{4}$ " x $\frac{1}{8}$ " x $\frac{1}{4}$ "	.23	500M	.02		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{1}{4}$ " x $\frac{1}{8}$ " x $\frac{1}{8}$ "	.23	500M	.025		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{3}{8}$ "	.23	200M	.065	$\frac{3}{8}$			
$\frac{3}{8}$ " x $\frac{3}{8}$ " x $\frac{1}{2}$ "	.27	100M	.09		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{3}{8}$ " x $\frac{3}{8}$ " x $\frac{1}{4}$ "	.23	200M	.06		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{3}{8}$ " x $\frac{3}{8}$ " x $\frac{1}{8}$ " O.D.	.23	200M	.06		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{3}{8}$ " x $\frac{3}{8}$ " x $\frac{1}{8}$ "	.23	200M	.06		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{3}{8}$ " x $\frac{1}{4}$ " x $\frac{3}{8}$ "	.23	200M	.06		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{3}{8}$ " x $\frac{1}{4}$ " x $\frac{1}{4}$ "	.23	200M	.06		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{3}{8}$ " x $\frac{1}{4}$ " x $\frac{1}{8}$ "	.23	200M	.07		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{3}{8}$ " x $\frac{1}{8}$ " O.D. x $\frac{3}{8}$ "	.23	200M	.06		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{3}{8}$ " x $\frac{1}{8}$ " O.D. x $\frac{1}{4}$ "	.23	200M	.06		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{3}{8}$ " x $\frac{1}{8}$ " O.D. x $\frac{1}{8}$ " O.D.	.23	200M	.06		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{3}{8}$ " x $\frac{1}{8}$ " O.D. x $\frac{1}{8}$ "	.23	200M	.06		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{3}{8}$ " x $\frac{1}{8}$ " x $\frac{3}{8}$ "	.23	200M	.07		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{3}{8}$ " x $\frac{1}{8}$ " x $\frac{1}{4}$ "	.23	200M	.065		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{3}{8}$ " x $\frac{1}{8}$ " x $\frac{1}{8}$ "	.23	200M	.06		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{1}{2}$ "	.27	100M	.09	$\frac{1}{2}$			
$\frac{1}{2}$ " x $\frac{1}{2}$ " x 1"	.76	50L	.35		$1\frac{1}{2}$	$1\frac{1}{2}$	$\frac{3}{4}$
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{3}{4}$ "	.49	100L	.25		$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{5}{8}$ "	.38	100L	.14		$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{3}{8}$ "	.27	100M	.09		$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{4}$ "	.27	100M	.085		$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
$\frac{1}{2}$ " x $\frac{3}{8}$ " x $\frac{1}{2}$ "	.27	100M	.09		$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
$\frac{1}{2}$ " x $\frac{3}{8}$ " x $\frac{3}{8}$ "	.27	100M	.09		$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
$\frac{1}{2}$ " x $\frac{3}{8}$ " x $\frac{1}{4}$ "	.27	100M	.095		$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
$\frac{1}{2}$ " x $\frac{1}{4}$ " x $\frac{1}{2}$ "	.27	100M	.10		$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
$\frac{1}{2}$ " x $\frac{1}{4}$ " x $\frac{3}{8}$ "	.27	100M	.10		$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
$\frac{1}{2}$ " x $\frac{1}{4}$ " x $\frac{1}{4}$ "	.27	100M	.09		$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$

WROT FITTINGS

By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.611 — TEES
(Continued)

Nominal Size	List Price Each	Bag. Qty.	App. Net Wt.	Dim. H	Dim. X	Dim. Y	Dim. Z
$\frac{3}{8}$ "	.38	100L	.13	$\frac{3}{8}$			
$\frac{3}{8}$ " x $\frac{3}{8}$ " x $\frac{3}{4}$ "	.49	100L	.26	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{8}$	
$\frac{3}{8}$ " x $\frac{3}{8}$ " x $\frac{1}{2}$ "	.38	100L	.14	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	
$\frac{3}{8}$ " x $\frac{3}{8}$ " x $\frac{3}{8}$ "	.38	100L	.135	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	
$\frac{3}{8}$ " x $\frac{3}{8}$ " x $\frac{1}{4}$ "	.38	100L	.135	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{4}$	
$\frac{3}{8}$ " x $\frac{1}{2}$ " x $\frac{3}{8}$ "	.38	100L	.135	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	
$\frac{3}{8}$ " x $\frac{1}{2}$ " x $\frac{1}{2}$ "	.38	100L	.135	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	
$\frac{3}{8}$ " x $\frac{1}{2}$ " x $\frac{3}{4}$ "	.38	100L	.14	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{4}$	
$\frac{3}{8}$ " x $\frac{3}{8}$ " x $\frac{3}{8}$ "	.38	100L	.135	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	
$\frac{3}{8}$ " x $\frac{3}{8}$ " x $\frac{1}{2}$ "	.38	100L	.13	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	
$\frac{3}{8}$ " x $\frac{3}{8}$ " x $\frac{3}{8}$ "	.38	100L	.135	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	
$\frac{3}{4}$ "	.49	100L	.25	$\frac{3}{4}$			
$\frac{3}{4}$ " x $\frac{3}{4}$ " x 1"	.76	50L	.375	1	1	$\frac{3}{4}$	
$\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{3}{8}$ "	.49	100L	.24	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{8}$	
$\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{1}{2}$ "	.49	100L	.215	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{2}$	
$\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{3}{8}$ "	.49	100L	.24	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{8}$	
$\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{1}{4}$ "	.49	100L	.23	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{4}$	
$\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{3}{4}$ "	.49	100L	.24	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{4}$	
$\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{3}{8}$ "	.49	100L	.26	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	
$\frac{3}{4}$ " x $\frac{1}{2}$ " x $\frac{3}{4}$ "	.49	100L	.24	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	
$\frac{3}{4}$ " x $\frac{1}{2}$ " x $\frac{3}{8}$ "	.49	100L	.25	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{8}$	
$\frac{3}{4}$ " x $\frac{1}{2}$ " x $\frac{1}{2}$ "	.49	100L	.22	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	
$\frac{3}{4}$ " x $\frac{1}{2}$ " x $\frac{3}{8}$ "	.49	100L	.22	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{8}$	
$\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{3}{4}$ "	.49	100L	.25	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{4}$	
$\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{1}{2}$ "	.49	100L	.24	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	
$\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{3}{8}$ "	.49	100L	.235	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	
$\frac{7}{8}$ "	.63	50L	.31	$\frac{7}{8}$			
1"	.76	50L	.38	1			
1" x 1" x 1 $\frac{1}{2}$ "	1.65	25L	.80	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	
1" x 1" x 1 $\frac{1}{4}$ "	1.15	25L	.53	1 $\frac{1}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	
1" x 1" x $\frac{3}{4}$ "	.76	50L	.365	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	
1" x 1" x $\frac{3}{8}$ "	.76	50L	.36	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	
1" x 1" x $\frac{1}{2}$ "	.76	50L	.335	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	
1" x 1" x $\frac{3}{8}$ "	.76	50L	.325	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	
1" x $\frac{3}{4}$ " x 1"	.76	50L	.38	$\frac{3}{4}$	1	$\frac{3}{4}$	
1" x $\frac{3}{4}$ " x $\frac{3}{4}$ "	.76	50L	.37	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	
1" x $\frac{3}{4}$ " x $\frac{3}{8}$ "	.76	50L	.38	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	
1" x $\frac{3}{4}$ " x $\frac{1}{2}$ "	.76	50L	.32	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	
1" x $\frac{3}{4}$ " x $\frac{3}{8}$ "	.76	50L	.335	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	
1" x $\frac{3}{8}$ " x 1"	.76	50L	.41	$\frac{3}{8}$	1	$\frac{3}{8}$	
1" x $\frac{3}{8}$ " x $\frac{3}{4}$ "	.76	50L	.34	$\frac{3}{8}$	$\frac{3}{4}$	$\frac{3}{4}$	
1" x $\frac{3}{8}$ " x $\frac{3}{8}$ "	.76	50L	.365	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	
1" x $\frac{3}{8}$ " x $\frac{1}{2}$ "	.76	50L	.34	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	
1" x $\frac{1}{2}$ " x 1"	.76	50L	.37	$\frac{1}{2}$	1	$\frac{1}{2}$	
1" x $\frac{1}{2}$ " x $\frac{3}{4}$ "	.76	50L	.32	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	
1" x $\frac{1}{2}$ " x $\frac{1}{2}$ "	.76	50L	.32	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	
1 $\frac{1}{4}$ "	1.15	25L	.54	1 $\frac{1}{4}$			
1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ " x 2"	2.30		1.48	2	2	1 $\frac{1}{4}$	
1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ " x 1 $\frac{1}{2}$ "	1.65	20L	.81	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{4}$	

611 — TEES
(Continued)

Nominal Size	List Price Each	Bag. Qty.	App. Net Wt.	Dim. H	Dim. X	Dim. Y	Dim. Z
1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ " x 1"	\$1.15	25L	.55	$\frac{3}{4}$	$\frac{3}{4}$	1 $\frac{1}{4}$	
1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ " x $\frac{3}{4}$ "	1.15	25L	.53	$\frac{3}{4}$	$\frac{3}{4}$	1 $\frac{1}{4}$	
1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ " x $\frac{1}{2}$ "	1.15	25L	.53	$\frac{3}{4}$	$\frac{3}{4}$	1 $\frac{1}{4}$	
1 $\frac{1}{4}$ " x 1" x 1 $\frac{1}{4}$ "	1.15	25L	.55	$\frac{3}{4}$	1 $\frac{1}{4}$	$\frac{3}{4}$	
1 $\frac{1}{4}$ " x 1" x 1"	1.15	25L	.53	$\frac{3}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	
1 $\frac{1}{4}$ " x 1" x $\frac{3}{4}$ "	1.15	25L	.53	$\frac{3}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	
1 $\frac{1}{4}$ " x 1" x $\frac{1}{2}$ "	1.15	25L	.53	$\frac{3}{4}$	1	1 $\frac{1}{4}$	
1 $\frac{1}{4}$ " x $\frac{3}{4}$ " x 1 $\frac{1}{4}$ "	1.15	25L	.53	1 $\frac{1}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	
1 $\frac{1}{4}$ " x $\frac{3}{4}$ " x 1"	1.15	25L	.53	$\frac{3}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	
1 $\frac{1}{4}$ " x $\frac{3}{4}$ " x $\frac{3}{4}$ "	1.15	25L	.53	$\frac{3}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	
1 $\frac{1}{2}$ "	1.65	20L	.82	1 $\frac{1}{2}$			
1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 2"	2.30		1.37	1 $\frac{3}{4}$	1 $\frac{3}{4}$	1 $\frac{1}{2}$	
1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 1 $\frac{1}{4}$ "	1.65	20L	.79	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{4}$	
1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 1"	1.65	20L	.75	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{4}$	
1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x $\frac{3}{4}$ "	1.65	20L	.72	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{4}$	
1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x $\frac{1}{2}$ "	1.65	20L	.72	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{4}$	
1 $\frac{1}{2}$ " x 1 $\frac{1}{4}$ " x 1 $\frac{1}{2}$ "	1.65	20L	.83	1 $\frac{1}{2}$	1 $\frac{1}{4}$	1 $\frac{1}{2}$	
1 $\frac{1}{2}$ " x 1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ "	1.65	20L	.75	1 $\frac{1}{2}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	
1 $\frac{1}{2}$ " x 1 $\frac{1}{4}$ " x 1"	1.65	20L	.69	1 $\frac{1}{2}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	
1 $\frac{1}{2}$ " x 1 $\frac{1}{4}$ " x $\frac{3}{4}$ "	1.65	20L	.68	1 $\frac{1}{2}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	
1 $\frac{1}{2}$ " x 1 $\frac{1}{4}$ " x $\frac{1}{2}$ "	1.65	20L	.76	1 $\frac{1}{2}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	
1 $\frac{1}{2}$ " x 1" x 1 $\frac{1}{2}$ "	1.65	20L	.81	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{4}$	
1 $\frac{1}{2}$ " x 1" x 1 $\frac{1}{4}$ "	1.65	20L	.77	1 $\frac{1}{2}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	
1 $\frac{1}{2}$ " x 1" x 1"	1.65	20L	.68	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{4}$	
1 $\frac{1}{2}$ " x 1" x $\frac{3}{4}$ "	1.65	20L	.76	1	1 $\frac{1}{2}$	1 $\frac{1}{4}$	
1 $\frac{1}{2}$ " x $\frac{3}{4}$ " x 1 $\frac{1}{2}$ "	1.65	20L	.80	1 $\frac{1}{2}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	
1 $\frac{1}{2}$ " x $\frac{3}{4}$ " x $\frac{3}{4}$ "	1.65	20L	.76	1	1 $\frac{1}{4}$	1 $\frac{1}{4}$	
2"	2.30		1.43	1 $\frac{3}{4}$			
2" x 2" x 1 $\frac{1}{2}$ "	2.30		1.23	1 $\frac{3}{4}$	1 $\frac{3}{4}$	1 $\frac{1}{2}$	
2" x 2" x 1 $\frac{1}{4}$ "	2.30		1.23	1 $\frac{3}{4}$	1 $\frac{3}{4}$	1 $\frac{1}{4}$	
2" x 2" x 1"	2.30		1.23	1 $\frac{3}{4}$	1 $\frac{3}{4}$	1 $\frac{1}{4}$	
2" x 2" x $\frac{3}{4}$ "	2.30		1.19	$\frac{3}{4}$	$\frac{3}{4}$	1 $\frac{3}{4}$	
2" x 2" x $\frac{1}{2}$ "	2.30		1.02	$\frac{1}{2}$	$\frac{1}{2}$	1 $\frac{3}{4}$	
2" x 1 $\frac{1}{2}$ " x 2"	2.30		1.23	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	
2" x 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ "	2.30		1.22	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	
2" x 1 $\frac{1}{2}$ " x 1 $\frac{1}{4}$ "	2.30		1.23	1 $\frac{1}{2}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	
2" x 1 $\frac{1}{2}$ " x 1"	2.30		1.21	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{4}$	
2" x 1 $\frac{1}{2}$ " x $\frac{3}{4}$ "	2.30		1.20	1 $\frac{1}{2}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	
2" x 1 $\frac{1}{4}$ " x 2"	2.30		1.45	1 $\frac{1}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{2}$	
2" x 1 $\frac{1}{4}$ " x 1 $\frac{1}{2}$ "	2.30		1.17	1 $\frac{1}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{2}$	
2" x 1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ "	2.30		1.22	1 $\frac{1}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	
2" x 1 $\frac{1}{4}$ " x 1"	2.30		1.28	1 $\frac{1}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	
2 $\frac{1}{2}$ "	4.85		2.20	1 $\frac{3}{4}$			
3"	6.90		3.34	2 $\frac{1}{2}$			
3 $\frac{1}{2}$ "	8.00		5.34	2 $\frac{3}{4}$			
4"	10.65		7.79	2 $\frac{3}{4}$			

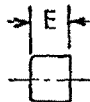
WROT FITTINGS

By NIBCO

 Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.


616 — FITTING END PLUGS

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. E
$\frac{3}{8}$ "	\$.09	1000M	.01	$\frac{1}{16}$
$\frac{1}{2}$ "	.12	500M	.02	$\frac{3}{16}$
$\frac{3}{4}$ "	.18	250M	.055	$\frac{3}{8}$
1"	.24	150M	.09	$1\frac{1}{32}$



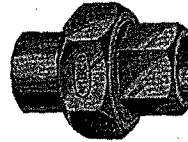
617 — TUBE CAPS

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. E
$\frac{1}{8}$ "	\$.08	500S	.0025	$\frac{3}{32}$
$\frac{1}{4}$ "	.09	500S	.005	$\frac{1}{16}$
$\frac{3}{8}$ "	.09	1000M	.012	$\frac{21}{64}$
$\frac{1}{2}$ "	.12	500M	.02	$\frac{23}{32}$
$\frac{5}{8}$ "	.15	250M	.035	$\frac{11}{16}$
$\frac{3}{4}$ "	.18	250M	.055	$\frac{11}{8}$
1"	.24	150M	.09	1
$1\frac{1}{4}$ "	.30	100L	.12	$1\frac{1}{16}$
$1\frac{1}{2}$ "	.38	100L	.18	$1\frac{13}{32}$
2"	.68	50L	.32	$1\frac{11}{16}$
$2\frac{1}{2}$ "	1.00		.44	$1\frac{31}{32}$
3"	1.65		.70	$1\frac{5}{8}$
$3\frac{1}{2}$ "	2.35		.96	$2\frac{1}{16}$
4"	2.95		1.36	$2\frac{11}{16}$

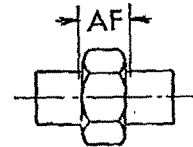


618 — FLUSH BUSHINGS Fitting to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. AE
$\frac{1}{4}$ " x $\frac{1}{8}$ "	\$.09	500S	.01	$\frac{3}{8}$
$\frac{3}{8}$ " x $\frac{1}{4}$ "	.09	1000M	.015	$\frac{1}{2}$
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.12	500M	.02	$\frac{3}{4}$
$\frac{5}{8}$ " x $\frac{1}{2}$ "	.15	250M	.03	$\frac{3}{4}$
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.18	250M	.08	$\frac{11}{8}$
1" x $\frac{3}{4}$ "	.24	150M	.15	$1\frac{1}{8}$
$1\frac{1}{4}$ " x 1"	.30	100L	.18	$1\frac{3}{8}$
$1\frac{1}{2}$ " x $1\frac{1}{4}$ "	.38	100L	.24	$1\frac{3}{4}$

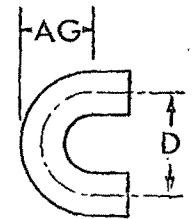
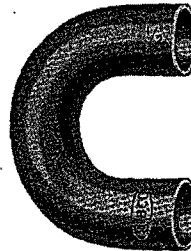


Patent Applied For



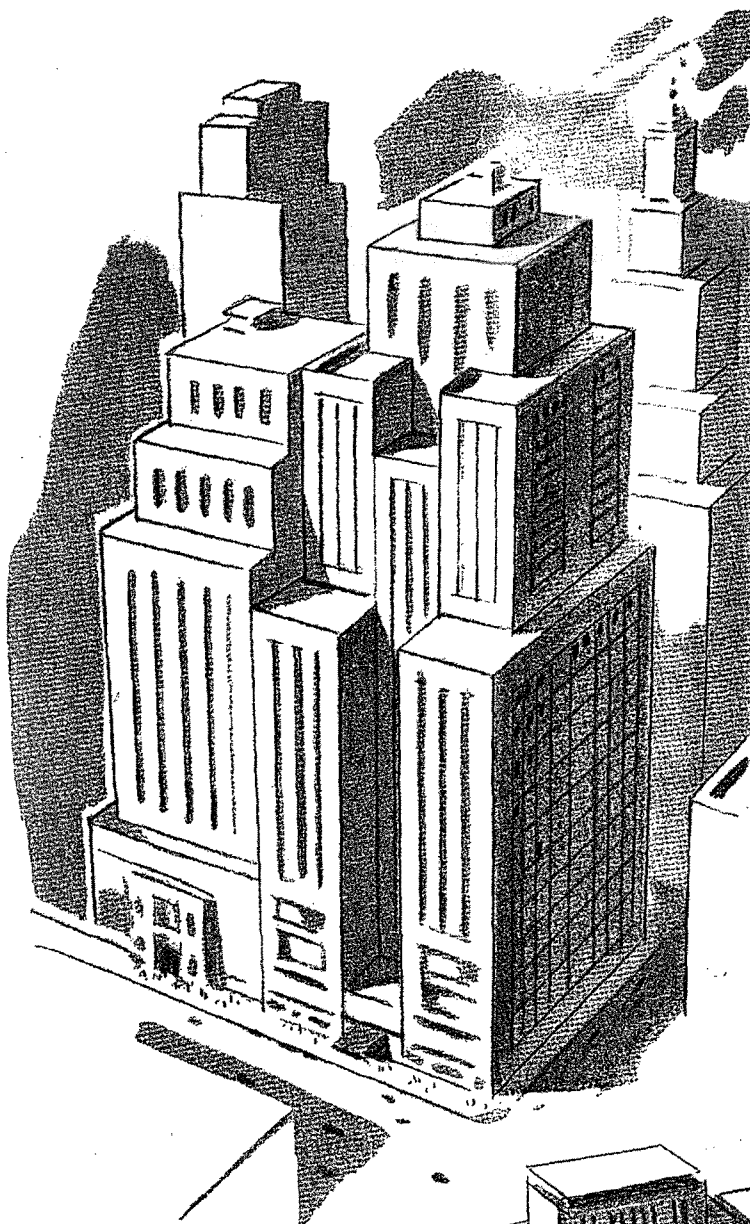
633 — UNIONS Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. AF
$\frac{1}{8}$ "	\$.76	100S	.109	$\frac{5}{8}$
$\frac{1}{4}$ "	.76	100S	.240	$\frac{5}{8}$
$\frac{3}{8}$ "	.76	150M	.125	$1\frac{1}{32}$
$\frac{1}{2}$ "	.91	75M	.215	$\frac{23}{32}$
$\frac{5}{8}$ "	1.15	35M	.64	$\frac{7}{8}$
$\frac{3}{4}$ "	1.30	35M	.36	$\frac{23}{16}$
1"	1.65	50L	.82	$\frac{31}{16}$
$1\frac{1}{4}$ "	2.30	25L	.132	$\frac{31}{8}$
$1\frac{1}{2}$ "	3.35	25L	1.70	$\frac{31}{4}$
2"	4.20		2.79	$1\frac{1}{2}$



638 — RETURN BENDS Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. D	Dim. AG
$\frac{1}{8}$ "	\$.24	200S	.015	1	$\frac{33}{32}$
$\frac{1}{4}$ "	.24	100S	.03	$1\frac{1}{4}$	$\frac{27}{16}$
$\frac{3}{8}$ "	.30	100M	.08	$1\frac{1}{2}$	$1\frac{5}{8}$
$\frac{1}{2}$ "	.38	100L	.13	2	$1\frac{31}{32}$
$\frac{5}{8}$ "	.50	50L	.18	$2\frac{1}{4}$	$1\frac{31}{16}$
$\frac{3}{4}$ "	.53	50L	.26	$2\frac{1}{2}$	$1\frac{3}{4}$
$\frac{3}{4}$ "	.53	50L	.31	$3\frac{3}{8}$	$2\frac{1}{8}$
1"	.76	25L	.48	3	$2\frac{1}{8}$
$1\frac{1}{4}$ "	1.20		.72	4	$2\frac{3}{4}$
$1\frac{1}{2}$ "	1.65		1.06	$4\frac{1}{2}$	$3\frac{3}{4}$
2"	2.65		1.89	$5\frac{1}{2}$	$3\frac{31}{32}$



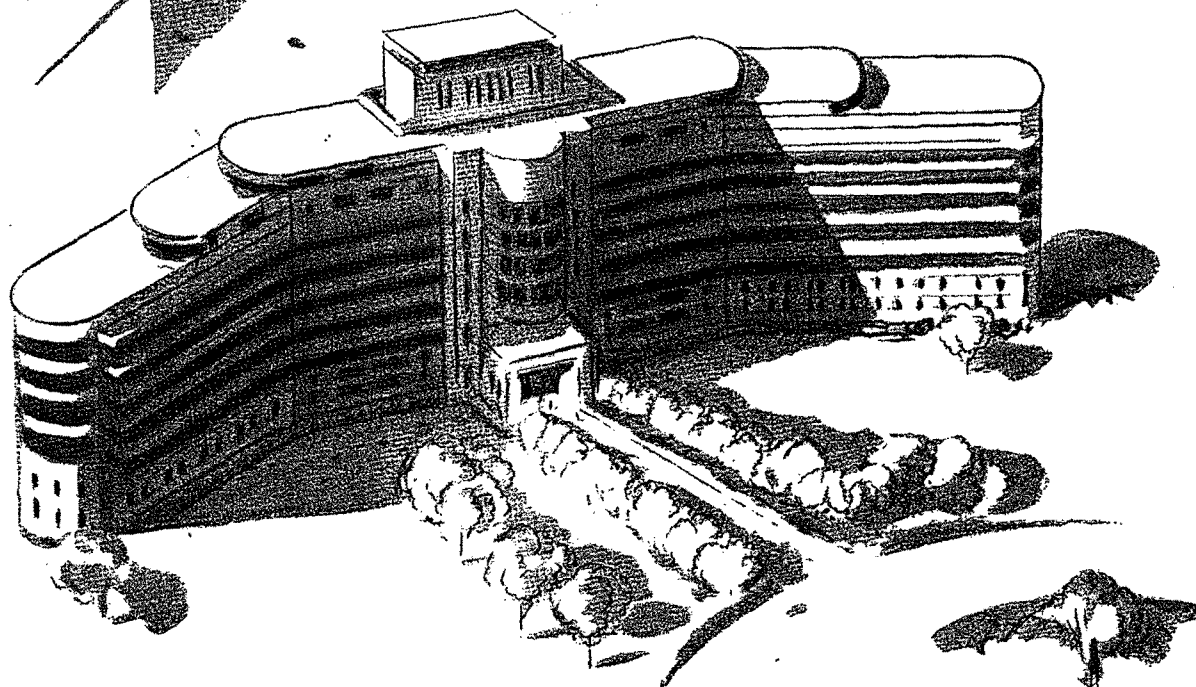
Section 2

CAST SOLDER FITTINGS

In all types of large, modern construction, NIBCO Cast Solder Fittings have been installed over the past twenty years. Wherever large supply lines are needed, with an infinite variety of reductions, they are admirably suited for the job. The styles and sizes of fittings listed in this section have been greatly amplified to cover complete installed uses.

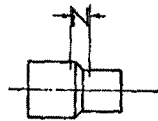
Each casting is made from red brass in NIBCO's laboratory controlled foundries. Each fitting is tested at 90 Lbs. of air pressure under water to insure the trade receiving only sound fittings. Solder cups are gauged carefully before shipment.

Modern methods and years of experience make NIBCO Cast Solder Fittings the standard of the Industry.



CAST SOLDER FITTINGS

By NIBCO

 Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.


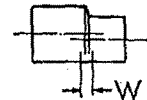
701 — COUPLINGS
Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. M	Dim. N
$\frac{1}{4}$ "	.15	500M	.02	$\frac{1}{8}$	
$\frac{1}{4}$ " x $\frac{1}{8}$ "	.15	500M	.025		$\frac{3}{16}$
$\frac{3}{8}$ "	.15	500M	.03	$\frac{1}{8}$	
$\frac{3}{8}$ " x $\frac{1}{4}$ "	.15	500M	.07		$\frac{1}{4}$
$\frac{1}{2}$ "	.18	250M	.06	$\frac{1}{8}$	
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.18	250M	.06		$\frac{1}{4}$
$\frac{5}{8}$ "	.23	100M	.10	$\frac{1}{8}$	
$\frac{3}{4}$ "	.27	100M	.12	$\frac{1}{8}$	
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.27	100M	.10		$\frac{5}{8}$
$\frac{3}{4}$ " x $\frac{3}{8}$ "	.27	100M	.14		$\frac{7}{8}$
1"	.46	50M	.18	$\frac{1}{8}$	
1" x $\frac{3}{4}$ "	.46	50M	.19		$\frac{7}{8}$
1" x $\frac{1}{2}$ "	.46	50M	.16		$\frac{11}{16}$
1" x $\frac{3}{8}$ "	.46	50M	.27		$\frac{1}{2}$
$1\frac{1}{4}$ "	.76	50L	.25	$\frac{5}{16}$	
$1\frac{1}{4}$ " x 1"	.76	50L	.28		$\frac{3}{8}$
$1\frac{1}{4}$ " x $\frac{3}{4}$ "	.76	50L	.24		$\frac{1}{2}$
$1\frac{1}{4}$ " x $\frac{1}{2}$ "	.76	50L	.23		$\frac{3}{8}$
$1\frac{1}{4}$ " x $\frac{3}{8}$ "	.76	50L	.37		$\frac{1}{2}$
$1\frac{1}{2}$ "	1.05	50L	.35	$\frac{7}{16}$	
$1\frac{1}{2}$ " x $1\frac{1}{4}$ "	1.05	50L	.39		$\frac{11}{16}$
$1\frac{1}{2}$ " x 1"	1.05	50L	.33		$\frac{3}{8}$
$1\frac{1}{2}$ " x $\frac{3}{4}$ "	1.05	50L	.32		$\frac{1}{2}$
$1\frac{1}{2}$ " x $\frac{1}{2}$ "	1.05	50L	.34		$\frac{3}{8}$
$1\frac{1}{2}$ " x $\frac{3}{8}$ "	1.05	50L	.30		$\frac{1}{8}$
2"	1.50	25L	.715	$\frac{3}{16}$	
2" x $1\frac{1}{2}$ "	1.50	25L	.655		$\frac{1}{2}$
2" x $1\frac{1}{4}$ "	1.50	25L	.62		$\frac{11}{16}$
2" x 1"	1.50	25L	.56		$\frac{3}{4}$
2" x $\frac{3}{4}$ "	1.50	25L	.85		$\frac{1}{2}$
$2\frac{1}{2}$ "	2.60		1.56	$\frac{1}{2}$	
$2\frac{1}{2}$ " x 2"	2.60		1.45		$\frac{3}{8}$
$2\frac{1}{2}$ " x $1\frac{1}{2}$ "	2.60		1.45		$\frac{1}{2}$
$2\frac{1}{2}$ " x $1\frac{1}{4}$ "	2.60		1.44		$\frac{3}{8}$
$2\frac{1}{2}$ " x 1"	2.60		1.32		$\frac{1}{2}$
$2\frac{1}{2}$ " x $\frac{3}{4}$ "	2.60		1.26		$\frac{3}{8}$
3"	3.40		2.15	$\frac{1}{4}$	
3" x $2\frac{1}{2}$ "	3.40		2.25		$\frac{3}{8}$
3" x 2"	3.40		2.00		$\frac{1}{2}$
3" x $1\frac{1}{2}$ "	3.40		1.98		$\frac{3}{8}$
3" x $1\frac{1}{4}$ "	3.40		1.95		$\frac{1}{2}$
3" x 1"	3.40		1.92		$\frac{3}{4}$

701 — COUPLINGS

(Continued)

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. M	Dim. N
$3\frac{1}{2}$ "	5.30		2.96	$\frac{1}{4}$	
$3\frac{1}{2}$ " x 3"	5.30		3.21		$\frac{1}{2}$
$3\frac{1}{2}$ " x $2\frac{1}{2}$ "	5.30		3.09		$\frac{5}{8}$
$3\frac{1}{2}$ " x 2"	5.30		2.76		$\frac{3}{4}$
$3\frac{1}{2}$ " x $1\frac{1}{2}$ "	5.30		2.77		$\frac{7}{8}$
$3\frac{1}{2}$ " x $1\frac{1}{4}$ "	5.30		2.85		1
$3\frac{1}{2}$ " x 1"	5.30		2.78		1
4"	5.80		4.00	$\frac{1}{4}$	
4" x $3\frac{1}{2}$ "	5.80		4.25		$\frac{1}{2}$
4" x 3"	5.80		3.74		$\frac{3}{4}$
4" x $2\frac{1}{2}$ "	5.80		3.63		$\frac{7}{8}$
4" x 2"	5.80		3.49		1
4" x $1\frac{1}{2}$ "	5.80		3.46		$1\frac{1}{8}$
4" x $1\frac{1}{4}$ "	5.80		3.42		$1\frac{1}{4}$
4" x 1"	5.80		3.57		$1\frac{3}{8}$
5"	14.45		8.8	$\frac{3}{8}$	
5" x 4"	14.45		7.2		$\frac{1}{2}$
5" x $3\frac{1}{2}$ "	14.45		7.2		$\frac{3}{8}$
5" x 3"	14.45		7.0		$\frac{3}{4}$
5" x $2\frac{1}{2}$ "	14.45		7.0		$\frac{7}{8}$
5" x 2"	14.45		6.9		1
5" x $1\frac{1}{2}$ "	14.45		6.9		$1\frac{1}{8}$
5" x $1\frac{1}{4}$ "	14.45		6.8		$1\frac{1}{4}$
5" x 1"	14.45		6.8		$1\frac{3}{8}$
6"	19.00		14.0	$\frac{3}{8}$	
6" x 5"	19.00		9.8		$1\frac{1}{8}$
6" x 4"	19.00		10.0		$1\frac{1}{4}$
6" x 3"	19.00		10.2		$1\frac{3}{8}$
6" x 2"	19.00		10.5		$1\frac{1}{2}$
8"	27.35		20.0	$\frac{1}{2}$	
8" x 6"	27.35		26.2		$1\frac{1}{4}$
10"	35.70		29.8	$\frac{3}{8}$	
12"	72.95		47.5	1	



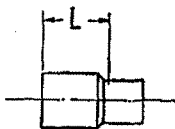
702 — ECCENTRIC COUPLINGS

Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. W
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.27	100M	.13	$\frac{5}{16}$
1" x $\frac{3}{4}$ "	.46	50M	.18	$\frac{3}{8}$
$1\frac{1}{4}$ " x 1"	.76	50L	.42	$\frac{1}{2}$
$1\frac{1}{2}$ " x $1\frac{1}{4}$ "	1.05	50L	.58	$\frac{3}{8}$
2" x $1\frac{1}{2}$ "	1.50	25L	.82	$\frac{1}{2}$
$2\frac{1}{2}$ " x 2"	2.60		1.70	$\frac{5}{8}$
3" x $2\frac{1}{2}$ "	3.40		2.30	$\frac{3}{4}$
3" x 2"	3.40		2.08	$\frac{1}{2}$
4" x 3"	5.80		3.74	$\frac{3}{4}$

CAST SOLDER FITTINGS

By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

701-2 — FITTING REDUCERS

Fitting to Copper

Nominal Size	List Price Each	Bag. Qty.	Approx. Net Wt.	Dim. L
$\frac{1}{4}$ " x $\frac{1}{8}$ "	.15	500M	.06	$\frac{1}{2}$
$\frac{3}{8}$ " x $\frac{1}{4}$ "	.15	500M	.08	$\frac{3}{8}$
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.18	250M	.06	$\frac{1}{2}$
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.27	100M	.10	$1\frac{1}{8}$
$\frac{3}{4}$ " x $\frac{3}{8}$ "	.27	100M	.09	$1\frac{1}{4}$
1" x $\frac{3}{4}$ "	.46	50M	.19	$1\frac{1}{2}$
1" x $\frac{1}{2}$ "	.46	50M	.14	$1\frac{1}{2}$
1" x $\frac{3}{8}$ "	.46	50M	.17	1%
$1\frac{1}{4}$ " x 1"	.76	50L	.31	1%
$1\frac{1}{4}$ " x $\frac{3}{4}$ "	.76	50L	.24	1%
$1\frac{1}{4}$ " x $\frac{1}{2}$ "	.76	50L	.16	1%
$1\frac{1}{4}$ " x $\frac{3}{8}$ "	.76	50L	.36	1%
$1\frac{1}{2}$ " x $1\frac{1}{4}$ "	1.05	50L	.45	$1\frac{1}{2}$
$1\frac{1}{2}$ " x 1"	1.05	50L	.36	$1\frac{1}{2}$
$1\frac{1}{2}$ " x $\frac{3}{4}$ "	1.05	50L	.35	$1\frac{1}{2}$
$1\frac{1}{2}$ " x $\frac{1}{2}$ "	1.05	50L	.38	1%
$1\frac{1}{2}$ " x $\frac{3}{8}$ "	1.05	50L	.33	1%
2" x $1\frac{1}{2}$ "	1.50	25L	.74	$2\frac{1}{8}$
2" x $1\frac{1}{4}$ "	1.50	25L	.62	$2\frac{1}{8}$
2" x 1"	1.50	25L	.58	$2\frac{1}{8}$
2" x $\frac{3}{4}$ "	1.50	25L	.54	$2\frac{1}{8}$
$2\frac{1}{2}$ " x 2"	2.60		1.10	$1\frac{3}{4}$
$2\frac{1}{2}$ " x $1\frac{1}{2}$ "	2.60		1.08	1%
$2\frac{1}{2}$ " x $1\frac{1}{4}$ "	2.60		1.06	2
$2\frac{1}{2}$ " x 1"	2.60		1.00	$2\frac{1}{8}$
3" x $2\frac{1}{2}$ "	3.40		1.95	$2\frac{1}{8}$
3" x 2"	3.40		1.70	$2\frac{1}{4}$
3" x $1\frac{1}{2}$ "	3.40		1.65	$2\frac{1}{8}$
3" x $1\frac{1}{4}$ "	3.40		1.67	$2\frac{1}{2}$
3" x 1"	3.40		1.51	$2\frac{1}{8}$
$3\frac{1}{2}$ " x 3"	5.30		2.48	$2\frac{1}{8}$
$3\frac{1}{2}$ " x $2\frac{1}{2}$ "	5.30		2.26	$2\frac{1}{2}$
$3\frac{1}{2}$ " x 2"	5.30		2.16	$2\frac{3}{4}$
$3\frac{1}{2}$ " x $1\frac{1}{2}$ "	5.30		2.13	$2\frac{3}{4}$
$3\frac{1}{2}$ " x $1\frac{1}{4}$ "	5.30		2.05	$2\frac{3}{4}$
$3\frac{1}{2}$ " x 1"	5.30		1.95	$2\frac{1}{2}$

701-2 — FITTING REDUCERS

(Continued)

Nominal Size	List Price Each	Bag. Qty.	Approx. Net Wt.	Dim. L
4" x $3\frac{1}{2}$ "	\$ 5.80		3.26	$2\frac{1}{2}$
4" x 3"	5.80		2.84	$2\frac{1}{8}$
4" x $2\frac{1}{2}$ "	5.80		2.73	$2\frac{1}{4}$
4" x 2"	5.80		2.65	$2\frac{1}{8}$
4" x $1\frac{1}{2}$ "	5.80		2.61	3
4" x $1\frac{1}{4}$ "	5.80		2.58	$3\frac{1}{8}$
4" x 1"	5.80		2.68	$3\frac{1}{4}$
5" x 4"	14.45		7.5	$2\frac{1}{8}$
5" x $3\frac{1}{2}$ "	14.45		7.2	3
5" x 3"	14.45		7.0	$3\frac{1}{8}$
5" x $2\frac{1}{2}$ "	14.45		6.8	$3\frac{1}{4}$
5" x 2"	14.45		6.8	$3\frac{3}{8}$
5" x $1\frac{1}{2}$ "	14.45		6.5	$3\frac{1}{2}$
5" x $1\frac{1}{4}$ "	14.45		6.5	$3\frac{5}{8}$
5" x 1"	14.45		5.0	$3\frac{3}{4}$
6" x 5"	19.00		13.3	$3\frac{3}{8}$
6" x 4"	19.00		12.0	$3\frac{1}{2}$
6" x 3"	19.00		11.0	$3\frac{1}{8}$
6" x 2"	19.00		10.0	$3\frac{1}{4}$



718 — FLUSH BUSHINGS

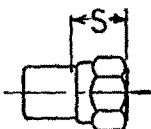
Fitting to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. AE
$\frac{1}{4}$ " x $\frac{1}{8}$ "	\$.09	500S	.01	%
$\frac{3}{8}$ " x $\frac{1}{4}$ "	.09	1000M	.02	$\frac{1}{2}$
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.12	500M	.04	%
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.18	250M	.09	$1\frac{1}{8}$
1" x $\frac{3}{4}$ "	.24	150M	.15	1%
$1\frac{1}{4}$ " x 1"	.30	100L	.19	$1\frac{1}{8}$
$1\frac{1}{2}$ " x $1\frac{1}{4}$ "	.38	100L	.23	$1\frac{1}{4}$



CAST SOLDER FITTINGS

By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

703 — FEMALE ADAPTERS

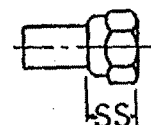
Copper to N. P. T. I.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. S
$\frac{1}{8}$ "	\$.18	500M	.06	$\frac{7}{16}$
$\frac{1}{4}$ "	.18	500M	.08	$\frac{3}{4}$
$\frac{1}{4}$ " x $\frac{3}{8}$ "	.18	300M	.08	$\frac{5}{8}$
$\frac{3}{8}$ "	.18	300M	.085	$\frac{5}{8}$
$\frac{3}{8}$ " x $\frac{1}{2}$ "	.20	200M	.12	$\frac{3}{4}$
$\frac{3}{8}$ " x $\frac{1}{4}$ "	.18	300M	.06	$\frac{9}{16}$
$\frac{1}{2}$ "	.20	200M	.12	$\frac{3}{4}$
$\frac{1}{2}$ " x 1"	.55	50M	.30	1
$\frac{1}{2}$ " x $\frac{3}{4}$ "	.30	100M	.17	$\frac{7}{8}$
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.20	200M	.09	$\frac{5}{8}$
$\frac{1}{2}$ " x $\frac{1}{4}$ "	.20	200M	.08	$\frac{9}{16}$
$\frac{3}{4}$ "	.30	100M	.18	$\frac{7}{8}$
$\frac{3}{4}$ " x 1"	.55	50M	.28	1
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.30	100M	.15	$\frac{3}{4}$
1"	.55	50M	.33	1
1" x $\frac{1}{4}$ "	.76	50L	.47	$1\frac{1}{16}$
1" x $\frac{3}{4}$ "	.55	50M	.23	$\frac{7}{8}$
1" x $\frac{1}{2}$ "	.55	50M	.19	$\frac{5}{8}$
$1\frac{1}{4}$ "	.76	50L	.46	1
$1\frac{1}{4}$ " x 2"	1.50	25L	1.27	$1\frac{1}{2}$
$1\frac{1}{4}$ " x $1\frac{1}{2}$ "	1.05	25L	.56	$1\frac{1}{16}$
$1\frac{1}{4}$ " x 1"	.76	50L	.34	$1\frac{1}{16}$
$1\frac{1}{4}$ " x $\frac{3}{4}$ "	.76	50L	.44	1
$1\frac{1}{2}$ "	1.05	25L	.55	$1\frac{1}{8}$
$1\frac{1}{2}$ " x 2"	1.50	25L	.85	$1\frac{3}{8}$
$1\frac{1}{2}$ " x $1\frac{1}{4}$ "	1.05	25L	.48	$1\frac{1}{8}$
$1\frac{1}{2}$ " x 1"	1.05	25L	.40	$\frac{3}{4}$
2"	1.50		.92	1
2" x $2\frac{1}{2}$ "	2.60	25L	2.03	$1\frac{3}{4}$
2" x $1\frac{1}{2}$ "	1.50	25L	.66	$\frac{7}{8}$
2" x $1\frac{1}{4}$ "	1.50	25L	1.13	$1\frac{1}{2}$
$2\frac{1}{2}$ "	2.60		2.12	$1\frac{1}{2}$
3"	3.40		3.00	$1\frac{3}{4}$

703 — FEMALE ADAPTERS

(Continued)

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. S
3" x 4"	\$ 5.80		5.74	$2\frac{1}{8}$
$3\frac{1}{2}$ "	5.30		4.33	$1\frac{7}{8}$
4"	5.80		4.65	$1\frac{1}{2}$
5"	14.45		8.5	$2\frac{1}{4}$
6"	19.00		15.00	$2\frac{1}{4}$
8"	27.35		22.00	$2\frac{5}{8}$



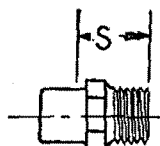
703-2 — FEMALE FITTING ADAPTERS

Fitting to N. P. T. I.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. SS
$\frac{1}{8}$ "	\$.18	500M	.06	$\frac{7}{16}$
$\frac{1}{4}$ "	.18	500M	.08	$\frac{3}{4}$
$\frac{3}{8}$ "	.18	300M	.08	$\frac{5}{8}$
$\frac{3}{8}$ " x $\frac{1}{2}$ "	.20	200M	.14	$\frac{5}{8}$
$\frac{1}{2}$ "	.20	200M	.13	$\frac{5}{8}$
$\frac{1}{2}$ " x $\frac{3}{4}$ "	.30	100M	.20	$\frac{7}{8}$
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.20	200M	.09	$\frac{5}{8}$
$\frac{3}{4}$ "	.30	100M	.18	$\frac{7}{8}$
$\frac{3}{4}$ " x 1"	.55	50M	.25	$1\frac{1}{16}$
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.30	100M	.13	$\frac{7}{8}$
1"	.55	50M	.33	1
1" x $\frac{1}{4}$ "	.76	50L	.56	$1\frac{1}{8}$
1" x $\frac{3}{4}$ "	.55	50M	.52	$1\frac{1}{8}$
$1\frac{1}{4}$ "	.76	50L	.465	$1\frac{1}{8}$
$1\frac{1}{4}$ " x $1\frac{1}{2}$ "	1.05	25L	.80	$1\frac{1}{8}$
$1\frac{1}{4}$ " x 1"	.76	50L	.76	$1\frac{1}{4}$
$1\frac{1}{2}$ "	1.05	25L	.595	$1\frac{1}{8}$
$1\frac{1}{2}$ " x $1\frac{1}{4}$ "	1.05	25L	.96	$1\frac{1}{8}$
2"	1.50	25L	.99	$1\frac{1}{8}$
$2\frac{1}{2}$ "	2.60		2.15	$1\frac{3}{8}$
3"	3.40		3.10	$1\frac{5}{8}$
$3\frac{1}{2}$ "	5.30		4.50	$1\frac{1}{2}$
4"	5.80		4.74	$1\frac{3}{4}$
5"	14.45		8.7	$1\frac{1}{2}$
6"	19.00		15.5	$2\frac{1}{8}$

CAST SOLDER FITTINGS

By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

704 — MALE ADAPTERS

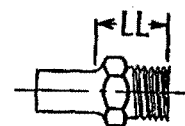
Copper to N. P. T. E.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. S
$\frac{1}{8}$ "	.18	500M	.03	$\frac{1}{2}$
$\frac{1}{4}$ "	.18	500M	.07	$\frac{3}{4}$
$\frac{1}{4}$ " x $\frac{1}{2}$ "	.20	200M	.14	$1\frac{1}{4}$
$\frac{1}{4}$ " x $\frac{3}{8}$ "	.18	300M	.05	$\frac{3}{4}$
$\frac{3}{8}$ "	.18	300M	.06	$\frac{5}{8}$
$\frac{3}{8}$ " x 1"	.55	50M	.24	$1\frac{1}{2}$
$\frac{3}{8}$ " x $\frac{3}{4}$ "	.30	100M	.17	1
$\frac{3}{8}$ " x $\frac{1}{2}$ "	.20	200M	.11	$\frac{7}{8}$
$\frac{3}{8}$ " x $\frac{1}{4}$ "	.18	300M	.045	$\frac{5}{8}$
$\frac{1}{2}$ "	.20	200M	.09	$\frac{3}{4}$
$\frac{1}{2}$ " x 1"	.55	50M	.25	$1\frac{1}{8}$
$\frac{1}{2}$ " x $\frac{3}{4}$ "	.30	100M	.16	$\frac{7}{8}$
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.20	200M	.08	$\frac{3}{4}$
$\frac{1}{2}$ " x $\frac{1}{4}$ "	.20	200M	.12	1
$\frac{5}{8}$ " x $\frac{3}{4}$ "	.30	100M	.15	$1\frac{1}{8}$
$\frac{3}{4}$ "	.30	100M	.155	$\frac{3}{4}$
$\frac{3}{4}$ " x 2"	1.50	25L	1.00	$2\frac{1}{4}$
$\frac{3}{4}$ " x $1\frac{1}{2}$ "	1.05	25L	.92	$2\frac{3}{8}$
$\frac{3}{4}$ " x $1\frac{1}{4}$ "	.76	50L	.57	$1\frac{1}{2}$
$\frac{3}{4}$ " x 1"	.55	50M	.22	1
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.30	100M	.12	$\frac{3}{4}$
$\frac{3}{4}$ " x $\frac{3}{8}$ "	.30	100M	.19	$\frac{7}{8}$
1"	.55	50M	.28	1
1" x 2"	1.50	25L	1.18	2
1" x $1\frac{1}{2}$ "	1.05	25L	.88	$1\frac{7}{8}$
1" x $1\frac{1}{4}$ "	.76	50L	.405	$1\frac{1}{8}$
1" x $\frac{3}{4}$ "	.55	50M	.24	$1\frac{1}{8}$
1" x $\frac{1}{2}$ "	.55	50M	.19	$\frac{3}{4}$
$1\frac{1}{4}$ "	.76	50L	.38	$1\frac{1}{8}$
$1\frac{1}{4}$ " x 2"	1.50	25L	.81	$1\frac{1}{2}$
$1\frac{1}{4}$ " x $1\frac{1}{2}$ "	1.05	25L	.56	$1\frac{1}{8}$
$1\frac{1}{4}$ " x 1"	.76	50L	.35	$1\frac{1}{8}$
$1\frac{1}{4}$ " x $\frac{3}{4}$ "	.76	50L	.24	$1\frac{1}{8}$
$1\frac{1}{2}$ "	1.05	25L	.55	$1\frac{1}{4}$
$1\frac{1}{2}$ " x 2"	1.50	25L	.89	$1\frac{1}{8}$
$1\frac{1}{2}$ " x $1\frac{1}{4}$ "	1.05	25L	.47	$1\frac{1}{8}$
$1\frac{1}{2}$ " x 1"	1.05	25L	.45	$1\frac{1}{8}$
$1\frac{1}{2}$ " x $\frac{3}{4}$ "	1.05	25L	.87	$1\frac{1}{8}$
2"	1.50	25L	.87	$1\frac{1}{4}$
2" x $2\frac{1}{2}$ "	2.60		2.03	2
2" x $1\frac{1}{2}$ "	1.50		.78	$1\frac{3}{8}$
2" x $1\frac{1}{4}$ "	1.50		.86	$1\frac{3}{8}$
2" x 1"	1.50		1.07	$1\frac{1}{2}$
2" x $\frac{3}{4}$ "	1.50		1.10	$1\frac{1}{2}$

704 — MALE ADAPTERS

(Continued)

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. S
$2\frac{1}{2}$ "	\$ 2.60		1.83	$1\frac{3}{4}$
$2\frac{1}{2}$ " x 2"	2.60		2.03	$1\frac{3}{4}$
3"	3.40		2.55	$1\frac{3}{4}$
$3\frac{1}{2}$ "	5.30		3.44	$1\frac{3}{4}$
4"	5.80		4.65	$2\frac{1}{8}$
5"	14.45		10.0	$2\frac{1}{2}$
6"	19.00		16.80	$3\frac{1}{8}$
8"	27.35		23.0	$3\frac{1}{8}$



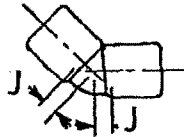
704-2 — MALE FITTING ADAPTERS

Fitting to N. P. T. E.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. LL
$\frac{1}{8}$ "	.18	500M	.04	$\frac{3}{4}$
$\frac{1}{4}$ "	.18	500M	.08	$1\frac{1}{8}$
$\frac{3}{8}$ "	.18	300M	.08	$1\frac{1}{8}$
$\frac{3}{8}$ " x $\frac{1}{2}$ "	.20	200M	.095	$1\frac{1}{8}$
$\frac{1}{2}$ "	.20	200M	.11	$1\frac{1}{8}$
$\frac{1}{2}$ " x $\frac{3}{4}$ "	.30	100M	.185	$1\frac{1}{8}$
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.20	200M	.09	$1\frac{1}{8}$
$\frac{3}{4}$ "	.30	100M	.18	$1\frac{1}{8}$
$\frac{3}{4}$ " x 1"	.55	50M	.25	$1\frac{1}{8}$
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.30	100M	.135	$1\frac{1}{8}$
1"	.55	50M	.30	$1\frac{1}{8}$
1" x $1\frac{1}{4}$ "	.76	50L	.65	$1\frac{3}{4}$
1" x $\frac{3}{4}$ "	.55	50M	.22	$1\frac{1}{8}$
$1\frac{1}{4}$ "	.76	50L	.45	$1\frac{3}{8}$
$1\frac{1}{4}$ " x $1\frac{1}{2}$ "	1.05	25L	.83	$1\frac{3}{4}$
$1\frac{1}{4}$ " x 1"	.76	50L	.40	$1\frac{3}{8}$
$1\frac{1}{2}$ "	1.05	25L	.59	$1\frac{3}{8}$
$1\frac{1}{2}$ " x $1\frac{1}{4}$ "	1.05	25L	.72	$1\frac{3}{8}$
2"	1.50	25L	.96	$1\frac{1}{2}$
2" x $1\frac{1}{2}$ "	1.50	25L	1.00	$2\frac{1}{8}$
$2\frac{1}{2}$ "	2.60		2.02	$2\frac{1}{8}$
3"	3.40		2.93	$2\frac{1}{8}$
$3\frac{1}{2}$ "	5.30		4.23	$2\frac{1}{8}$
4"	5.80		5.67	$2\frac{3}{8}$
5"	14.45		11.00	$3\frac{1}{8}$
6"	19.00		17.00	$3\frac{1}{8}$

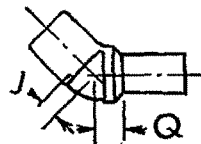
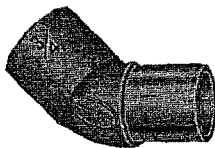
CAST SOLDER FITTINGS

By NIBCO

 Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.


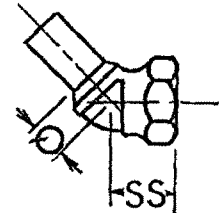
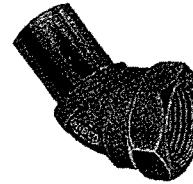
706 — 45 DEG. ELBOWS
Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. J
$\frac{1}{8}$ "	\$.15	500M	.08	$\frac{3}{16}$
$\frac{1}{4}$ "	.15	500M	.15	$\frac{1}{8}$
$\frac{3}{8}$ "	.15	300M	.045	$\frac{3}{16}$
$\frac{1}{2}$ "	.18	200M	.07	$\frac{1}{8}$
$\frac{3}{4}$ "	.30	100M	.16	$\frac{1}{4}$
1"	.55	50M	.26	$\frac{5}{16}$
1 $\frac{1}{4}$ "	.84	50L	.40	$\frac{3}{4}$
1 $\frac{1}{2}$ "	1.15	25L	.57	$\frac{1}{2}$
2"	1.65		1.04	$\frac{5}{8}$
2 $\frac{1}{2}$ "	3.05		2.15	$\frac{3}{4}$
3"	3.80		2.83	$\frac{3}{4}$
3 $\frac{1}{2}$ "	5.70		4.21	$\frac{7}{8}$
4"	6.40		5.72	$1\frac{1}{8}$
5"	15.50		12.20	$1\frac{1}{8}$
6"	25.85		23.10	$1\frac{3}{8}$
8"	43.15		37.0	2
10"	66.60		62.7	2 $\frac{3}{8}$
12"	98.80		98.2	3 $\frac{1}{4}$



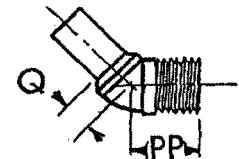
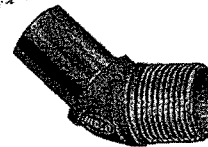
706-2 — 45 DEG. STREET ELBOWS
Copper to Fitting

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. J	Dim. Q
$\frac{3}{8}$ "	\$.20	300M	.05	$\frac{3}{16}$	$\frac{1}{4}$
$\frac{1}{2}$ "	.28	200M	.07	$\frac{1}{8}$	$\frac{1}{4}$
$\frac{3}{4}$ "	.40	100M	.16	$\frac{1}{4}$	$\frac{3}{8}$
1"	.70	50M	.27	$\frac{5}{16}$	$\frac{3}{8}$
1 $\frac{1}{4}$ "	.84	50L	.42	$\frac{3}{4}$	$\frac{1}{2}$
1 $\frac{1}{2}$ "	1.15	25L	.61	$\frac{1}{2}$	$\frac{3}{4}$
2"	1.65		1.08	$\frac{5}{8}$	$1\frac{1}{8}$
2 $\frac{1}{2}$ "	3.05		2.22	$\frac{3}{4}$	1
3"	3.80		3.08	$\frac{3}{4}$	1 $\frac{1}{4}$
4"	6.40		6.19	$1\frac{1}{8}$	1 $\frac{1}{2}$



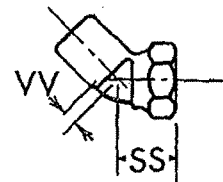
706-2-3 — 45 DEG. STREET ELBOWS
Fitting to N. P. T. I.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. Q	Dim. SS
$\frac{3}{8}$ "	\$.20	300M	.115	$\frac{1}{4}$	$1\frac{1}{8}$
$\frac{1}{2}$ "	.28	200M	.19	$\frac{3}{8}$	$1\frac{1}{8}$
$\frac{3}{4}$ "	.40	100M	.32	$\frac{3}{8}$	1
1"	.70	50M	.50	$\frac{1}{2}$	$1\frac{1}{8}$
1 $\frac{1}{4}$ "	.84	50L	.81	$\frac{3}{4}$	1 $\frac{3}{8}$
1 $\frac{1}{2}$ "	1.15	25L	1.04	$\frac{3}{4}$	1 $\frac{3}{8}$
2"	1.65		1.55	1	1 $\frac{3}{8}$



706-2-4 — 45 DEG. STREET ELBOWS
Fitting to N. P. T. E.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. Q	Dim. PP
$\frac{3}{8}$ "	\$.20	300M	.09	$\frac{1}{4}$	$1\frac{1}{8}$
$\frac{1}{2}$ "	.28	200M	.13	$\frac{3}{8}$	$1\frac{1}{8}$
$\frac{3}{4}$ "	.40	100M	.28	$\frac{3}{8}$	$1\frac{1}{8}$
1"	.70	50M	.45	$\frac{1}{2}$	$1\frac{1}{8}$
1 $\frac{1}{4}$ "	.84	50L	.58	$\frac{3}{4}$	1 $\frac{3}{8}$
1 $\frac{1}{2}$ "	1.15	25L	.87	$\frac{3}{4}$	1 $\frac{3}{8}$
2"	1.65		1.29	$\frac{3}{4}$	2

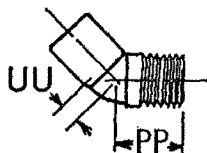


706-3 — 45 DEG. ELBOWS
Copper to N. P. T. I.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. VV	Dim. SS
$\frac{3}{8}$ "	\$.20	300M	.095	$\frac{1}{4}$	$1\frac{1}{8}$
$\frac{1}{2}$ "	.28	200M	.16	$\frac{3}{8}$	$1\frac{1}{8}$
$\frac{3}{4}$ "	.40	100M	.24	$\frac{1}{4}$	1
1"	.70	50M	.36	$\frac{1}{2}$	$1\frac{1}{8}$
1 $\frac{1}{4}$ "	.84	50L	.65	$\frac{1}{2}$	$1\frac{1}{8}$
1 $\frac{1}{2}$ "	1.15	25L	.78	$\frac{3}{8}$	$1\frac{1}{8}$
2"	1.65		1.31	$1\frac{1}{8}$	$1\frac{1}{8}$

CAST SOLDER FITTINGS

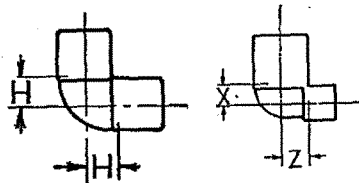
By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

706-4 — 45 DEG. ELBOWS

Copper to N. P. T. E.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. UU	Dim. PP
$\frac{3}{8}$ "	\$.20	300M	.07	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{1}{2}$ "	.28	200M	.11	$\frac{1}{8}$	1
$\frac{3}{4}$ "	.40	100M	.20	$\frac{1}{4}$	$1\frac{1}{8}$
1"	.70	50M	.32	$\frac{1}{8}$	$1\frac{5}{8}$
$1\frac{1}{4}$ "	.84	50L	.49	$\frac{1}{8}$	$1\frac{5}{8}$
$1\frac{1}{2}$ "	1.15	25L	.64	$\frac{1}{2}$	$1\frac{5}{8}$
2"	1.65		1.19	$\frac{1}{8}$	$1\frac{1}{8}$



707 — 90 DEG. ELBOWS

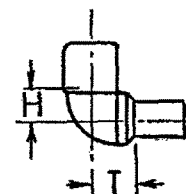
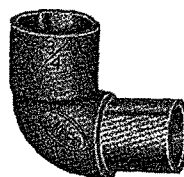
Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H	Dim. X	Dim. Z
$\frac{1}{8}$ "	\$.15	500M	.05	$\frac{1}{4}$		
$\frac{1}{4}$ "	.15	500M	.04	$\frac{1}{4}$		
$\frac{3}{8}$ "	.15	200M	.05	$\frac{1}{8}$		
$\frac{3}{8}$ x $\frac{1}{4}$ "	.15	200M	.045		$\frac{3}{8}$	$\frac{1}{2}$
$\frac{1}{2}$ "	.15	150M	.09	$\frac{1}{8}$		
$\frac{1}{2}$ x $\frac{3}{8}$ "	.18	150M	.08		$\frac{3}{8}$	$\frac{1}{8}$
$\frac{3}{4}$ "	.30	75M	.20	$\frac{1}{8}$		
$\frac{3}{4}$ x $\frac{1}{2}$ "	.30	75M	.13		$\frac{1}{8}$	$\frac{1}{8}$
$\frac{3}{4}$ x $\frac{3}{8}$ "	.30	75M	.10		$\frac{1}{2}$	$\frac{1}{2}$
1"	.55	50L	.31	$\frac{3}{8}$		
1" x $\frac{3}{4}$ "	.55	50L	.27		$\frac{3}{8}$	$\frac{3}{8}$
1" x $\frac{1}{2}$ "	.55	50L	.21		$\frac{1}{8}$	$\frac{3}{4}$
1" x $\frac{3}{8}$ "	.55	50L	.44		$\frac{3}{8}$	$\frac{1}{8}$
$1\frac{1}{4}$ "	.84	50L	.50	$\frac{3}{8}$		
$1\frac{1}{4}$ x 1"	.84	50L	.45		$\frac{1}{8}$	$\frac{1}{8}$
$1\frac{1}{4}$ x $\frac{3}{4}$ "	.84	50L	.34		$\frac{1}{8}$	$\frac{1}{8}$
$1\frac{1}{4}$ x $\frac{1}{2}$ "	.84	50L	.31		$\frac{3}{8}$	$\frac{3}{8}$
$1\frac{1}{2}$ "	1.15	25L	.69		$\frac{1}{2}$	
$1\frac{1}{2}$ x $1\frac{1}{4}$ "	1.15	25L	.61		$\frac{1}{8}$	$\frac{1}{8}$
$1\frac{1}{2}$ x 1"	1.15	25L	.55		$\frac{1}{8}$	1
$1\frac{1}{2}$ x $\frac{3}{4}$ "	1.15	25L	.49		$\frac{3}{8}$	$\frac{3}{8}$
$1\frac{1}{2}$ x $\frac{1}{2}$ "	1.15	25L	.35		$\frac{1}{2}$	1

707 — 90 DEG. ELBOWS

(Continued)

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H	Dim. X	Dim. Z
2"	\$ 1.65		1.35	$1\frac{1}{4}$		
2" x $1\frac{1}{2}$ "	1.65		1.06		$1\frac{1}{8}$	$1\frac{1}{4}$
2" x $1\frac{1}{4}$ "	1.65		.95		$\frac{3}{8}$	$1\frac{1}{4}$
2" x 1"	1.65		.80		$\frac{3}{4}$	$1\frac{1}{4}$
2" x $\frac{3}{4}$ "	1.65		.71		$\frac{5}{8}$	$1\frac{1}{4}$
$2\frac{1}{2}$ "	3.05		2.01	$1\frac{1}{2}$		
$2\frac{1}{2}$ x 2"	3.05		2.38		$1\frac{3}{8}$	$1\frac{3}{8}$
$2\frac{1}{2}$ x $1\frac{1}{2}$ "	3.05		2.16		$1\frac{1}{8}$	$1\frac{3}{8}$
$2\frac{1}{2}$ x $1\frac{1}{4}$ "	3.05		1.95		$1\frac{1}{4}$	$1\frac{3}{4}$
$2\frac{1}{2}$ x 1"	3.05		1.70		$1\frac{1}{4}$	$1\frac{3}{4}$
3"	3.80		3.36	$1\frac{3}{4}$		
3" x $2\frac{1}{2}$ "	3.80		3.12		$1\frac{3}{8}$	$1\frac{3}{8}$
3" x 2"	3.80		2.94		$1\frac{3}{8}$	$1\frac{3}{4}$
3" x $1\frac{1}{2}$ "	3.80		2.86		$1\frac{3}{8}$	$1\frac{3}{4}$
$3\frac{1}{2}$ "	5.70		4.13	2		
4"	6.40		5.88	$2\frac{1}{4}$		
4" x 3"	6.40		5.50		$1\frac{3}{4}$	$2\frac{1}{8}$
4" x $2\frac{1}{2}$ "	6.40		5.21		$1\frac{3}{8}$	$2\frac{1}{8}$
4" x 2"	6.40		4.90		$1\frac{3}{8}$	$2\frac{1}{8}$
5"	15.50		14.77	$3\frac{1}{4}$		
5" x 4"	15.50		9.9		$2\frac{1}{8}$	$2\frac{1}{8}$
6"	25.85		27.75	$3\frac{3}{4}$		
6" x 4"	25.85		24.00		$3\frac{1}{8}$	4
8"	43.15		45.00	4 $\frac{1}{4}$		
8" x 6"	43.15		42.00		$3\frac{1}{8}$	$4\frac{1}{8}$
10"	66.60		83.00	5 $\frac{1}{2}$		
12"	98.80		132.20	6 $\frac{1}{8}$		



707-2 — 90 DEG. STREET ELBOWS

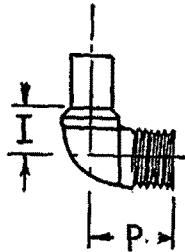
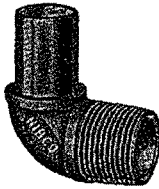
Copper to Fitting

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H	Dim. I
$\frac{1}{4}$ "	\$.20	500M	.08	$\frac{1}{2}$	$\frac{1}{8}$
$\frac{3}{8}$ "	.20	200M	.055	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{1}{2}$ "	.28	150M	.085	$\frac{1}{8}$	$\frac{1}{2}$
$\frac{3}{4}$ "	.40	75M	.18	$\frac{1}{8}$	$\frac{3}{8}$
1"	.70	50L	.34	$\frac{3}{8}$	$\frac{1}{8}$
$1\frac{1}{4}$ "	.84	50L	.51	1	$\frac{1}{8}$
$1\frac{1}{2}$ "	1.15	25L	.70	1	$1\frac{1}{8}$
2"	1.65		1.30	$1\frac{1}{4}$	$1\frac{1}{8}$
$2\frac{1}{2}$ "	3.05		2.78	$1\frac{3}{8}$	$1\frac{1}{8}$
3"	3.80		3.61	$1\frac{3}{8}$	2
$3\frac{1}{2}$ "	5.70		5.30	$2\frac{1}{4}$	$2\frac{1}{4}$
4"	6.40		7.14	$2\frac{3}{8}$	$2\frac{3}{8}$

CAST SOLDER FITTINGS

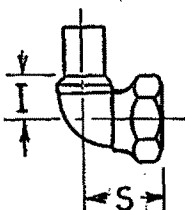
By NIBCO

Sizes shown are nominal sizes (actual O.D. 1/8" larger) except thread sizes which are standard pipe sizes.



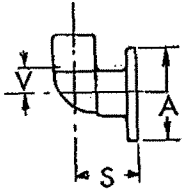
707-2-4 — 90 DEG. STREET ELBOWS
Fitting to N. P. T. E.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. I	Dim. P
3/8"	\$.20	200M	.095	1/2	1
1/2"	.28	150M	.17	1/2	1 1/8
3/4"	.40	50M	.33	3/4	1 1/8
1"	.70	50L	.57	3/4	1 1/8
1 1/4"	.84	50L	.79	1 1/2	2
1 1/2"	1.15	25L	1.03	1 3/8	2 3/8
2"	1.65		1.56	1 7/8	2 5/8



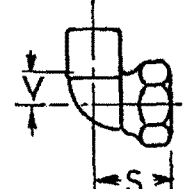
707-2-3 — 90 DEG. STREET ELBOWS
Fitting to N. P. T. I.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. I	Dim. S
3/8"	\$.20	200M	.11	1/2	3/8
1/2"	.28	150M	.13	3/4	1 1/8
3/4"	.40	50M	.30	3/4	1 1/8
1"	.70	50L	.50	3/4	1 1/8
1 1/4"	.84	50L	.75	1 1/2	1 3/8
1 1/2"	1.15	25L	.97	1 3/8	2
2"	1.65		1.95	1 7/8	2 1/8



708 — FLANGED SINK ELBOWS
Copper to N. P. T. I.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. S	Dim. V
3/8" x 1/2"	\$.55	150M	.27	1 3/4	1 1/8	3/8
1/2" x 3/8"	.55	150M	.27	1 3/4	1 1/8	1/2
1/2" x 1/2"	.55	150M	.24	2 1/8	3/4	3/8
3/4" x 3/4"	.75	50M	.52	1 3/4	1	1 1/8

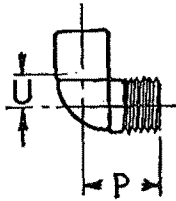


707-3 — 90 DEG. ELBOWS
Copper to N. P. T. I.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. V	Dim. S
1/4"	\$.20	500M	.06	3/8	1/8
3/8"	.20	200M	.09	1/2	1/8
3/8" x 3/4"	.40	75M	.16	3/4	1 3/8
3/8" x 1/2"	.28	150M	.13	3/8	1 1/8
3/8" x 1/4"	.20	200M	.07	3/8	3/8
1/2"	.28	150M	.15	3/8	3/8
1/2" x 1"	.70	50L	.36	1	1 1/2
1/2" x 3/4"	.40	75M	.20	1 1/8	1 1/8
1/2" x 3/8"	.28	150M	.12	1/2	1 1/8
1/2" x 1/4"	.28	150M	.09	3/8	3/8
3/4"	.40	75M	.26	1 1/8	1
3/4" x 1 1/4"	.84	50L	.74	3/4	1 5/8
3/4" x 1"	.70	50L	.37	1 1/8	1 1/8
3/4" x 1/2"	.40	75M	.19	3/8	1 1/8
3/4" x 3/8"	.40	75M	.26	3/8	1 1/8
1"	.70	50L	.44	3/8	1 1/8
1" x 1 1/4"	.84	50L	.58	1 1/8	1 5/8
1" x 3/4"	.70	50L	.33	1	1 1/8
1" x 1/2"	.70	50L	.45	3/4	1 1/2
1 1/4"	.84	50L	.66	1	1 1/2
1 1/4" x 2"	1.65		1.53	1 3/8	2 1/8
1 1/4" x 1 1/2"	1.15	25L	.88	1	1 7/8
1 1/4" x 1"	.84	50L	.55	1	1 1/8
1 1/4" x 3/4"	.84	50L	.48	1 1/8	1 5/8
1 1/2"	1.15	25L	.95	1 1/8	1 5/8
1 1/2" x 2"	1.65		1.56	1	2 1/8
1 1/2" x 1 1/4"	1.15	25L	.75	1	1 5/8
1 1/2" x 1"	1.15	25L	.89	3/4	2
1 1/2" x 3/4"	1.15	25L	.82	3/4	1 3/4
2"	1.65		1.61	1 3/8	1 11/8
2" x 1 1/2"	1.65		1.35	1 3/8	1 7/8
2" x 1 1/4"	1.65		1.28	1	2 1/8
2" x 1"	1.65		1.20	1 1/8	2
2 1/2"	3.05		3.43	1 3/8	2 11/8
3"	3.80		4.73	1 7/8	3 3/8
3 1/2"	5.70		7.06	2 1/8	4 3/8
4"	6.40		9.61	2 3/8	4 3/8
5"	15.50		18.7	3 3/4	5 3/4
6"	25.85		30.5	3 3/4	6

CAST SOLDER FITTINGS

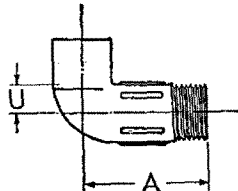
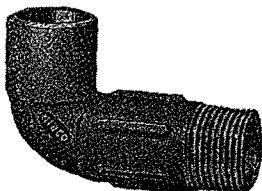
By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

707-4 — 90 DEG. ELBOWS

Copper to N. P. T. E.

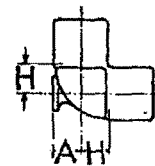
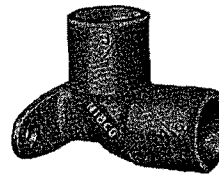
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. U	Dim. P
$\frac{1}{8}$ "	\$.20	500M	.055	$\frac{1}{4}$	$\frac{7}{8}$
$\frac{1}{4}$ " x $\frac{3}{8}$ "	.20	200M	.06	$\frac{5}{8}$	$\frac{11}{8}$
$\frac{1}{4}$ "	.20	500M	.08	$\frac{5}{8}$	$\frac{5}{8}$
$\frac{3}{8}$ "	.20	200M	.07	$\frac{5}{8}$	$\frac{3}{4}$
$\frac{3}{8}$ " x $\frac{1}{2}$ "	.28	150M	.12	$\frac{7}{8}$	$1\frac{1}{4}$
$\frac{3}{8}$ " x $\frac{1}{4}$ "	.20	200M	.09	$\frac{7}{8}$	1
$\frac{1}{2}$ "	.28	150M	.11	$\frac{7}{8}$	$1\frac{1}{4}$
$\frac{1}{2}$ " x 1"	.70	50L	.41	$\frac{9}{8}$	$1\frac{1}{2}$
$\frac{1}{2}$ " x $\frac{3}{4}$ "	.40	75M	.19	$\frac{7}{8}$	$1\frac{5}{8}$
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.28	150M	.095	$\frac{7}{8}$	$1\frac{3}{8}$
$\frac{3}{4}$ "	.40	75M	.23	$\frac{9}{8}$	$1\frac{1}{2}$
$\frac{3}{4}$ " x 1"	.70	50L	.34	$\frac{9}{8}$	$1\frac{1}{2}$
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.40	75M	.19	$\frac{7}{8}$	$1\frac{5}{8}$
1"	.70	50L	.37	$\frac{9}{8}$	$1\frac{1}{2}$
1" x $1\frac{1}{4}$ "	.84	50L	.67	$\frac{11}{8}$	$1\frac{7}{8}$
1" x $\frac{3}{4}$ "	.70	50L	.32	$\frac{9}{8}$	$1\frac{3}{8}$
1" x $\frac{1}{2}$ "	.70	50L	.41	1	$1\frac{3}{4}$
$1\frac{1}{4}$ "	.84	50L	.57	$\frac{7}{8}$	$1\frac{3}{4}$
$1\frac{1}{4}$ " x $1\frac{1}{2}$ "	1.15	25L	.89	1	2
$1\frac{1}{4}$ " x 1"	.84	50L	.51	$\frac{11}{8}$	$1\frac{1}{8}$
$1\frac{1}{4}$ " x $\frac{3}{4}$ "	.84	50L	.56	$\frac{5}{8}$	$1\frac{1}{4}$
$1\frac{1}{4}$ " x $\frac{1}{2}$ "	.84	50L	.50	$\frac{1}{2}$	$1\frac{3}{8}$
$1\frac{1}{2}$ "	1.15	25L	.79	1	$2\frac{3}{8}$
$1\frac{1}{2}$ " x 2"	1.65		1.50	1	$2\frac{1}{4}$
$1\frac{1}{2}$ " x $1\frac{1}{4}$ "	1.15	25L	.86	1	2
$1\frac{1}{2}$ " x 1"	1.15	25L	.80	$\frac{3}{4}$	2
2"	1.65		1.47	$1\frac{1}{4}$	$2\frac{1}{2}$
2" x $1\frac{1}{2}$ "	1.65		1.20	$1\frac{1}{8}$	$2\frac{1}{4}$
2" x $1\frac{1}{4}$ "	1.65		1.15	1	$2\frac{1}{2}$
2" x 1"	1.65		1.10	1	$2\frac{3}{8}$
$2\frac{1}{2}$ "	3.05		2.58	$1\frac{1}{8}$	$3\frac{1}{8}$
3"	3.80		3.73	$1\frac{1}{8}$	$3\frac{3}{8}$
$3\frac{1}{2}$ "	5.70		6.03	$2\frac{1}{8}$	$4\frac{1}{8}$
4"	6.40		7.24	$2\frac{3}{8}$	$4\frac{3}{8}$
5"	15.50		16.50	$3\frac{1}{4}$	$5\frac{1}{8}$
6"	25.85		27.00	$3\frac{3}{4}$	7



709 — WATER METER ELBOWS

Copper to N. P. T. E.

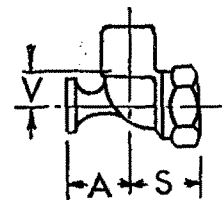
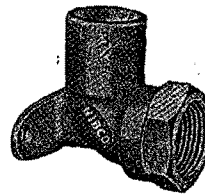
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. U
$\frac{3}{4}$ " x $\frac{3}{4}$ "	\$.49	100M	.43	$2\frac{1}{2}$	$\frac{7}{8}$



707-5 — 90 DEG. DROP EAR ELBOWS

Copper to Copper

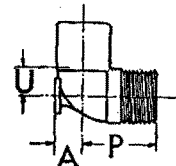
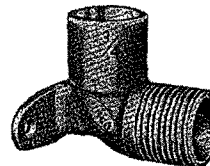
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. H
$\frac{3}{8}$ "	\$.30	200M	.07	$\frac{11}{8}$	$\frac{7}{8}$
$\frac{1}{2}$ "	.40	150M	.12	$\frac{3}{4}$	$\frac{11}{8}$
$\frac{3}{4}$ "	.55	50M	.24	$\frac{11}{8}$	$\frac{7}{8}$



707-3-5 — 90 DEG. DROP EAR ELBOWS

Copper to N. P. T. E.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. V	Dim. S
$\frac{3}{8}$ "	\$.30	150M	.135	$\frac{11}{8}$	$\frac{7}{8}$	$\frac{11}{8}$
$\frac{3}{8}$ " x $\frac{1}{2}$ "	.40	100M	.175	$\frac{11}{8}$	$\frac{11}{8}$	$\frac{11}{8}$
$\frac{1}{2}$ "	.40	100M	.18	$\frac{3}{4}$	$\frac{7}{8}$	$\frac{11}{8}$
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.40	100M	.135	$\frac{3}{4}$	$\frac{11}{8}$	$\frac{11}{8}$
$\frac{3}{4}$ "	.55	50M	.30	$\frac{11}{8}$	$\frac{11}{8}$	1
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.55	50M	.36	$\frac{3}{4}$	$\frac{7}{8}$	$1\frac{1}{8}$
1"	1.00	50L	.49	$\frac{11}{8}$	$\frac{3}{2}$	$1\frac{1}{4}$



707-4-5 — 90 DEG. DROP EAR ELBOWS

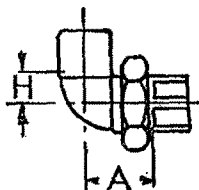
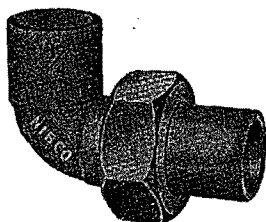
Copper to N. P. T. E.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. U	Dim. P
$\frac{3}{8}$ "	\$.30	200M	.14	$\frac{3}{4}$	$\frac{3}{4}$	1
$\frac{1}{2}$ "	.40	150M	.21	$\frac{11}{8}$	$\frac{1}{2}$	$1\frac{1}{4}$
$\frac{3}{4}$ "	.55	50M	.42	$\frac{3}{4}$	$\frac{7}{8}$	$1\frac{1}{8}$

CAST SOLDER FITTINGS

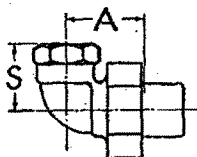
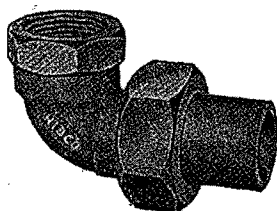
By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.



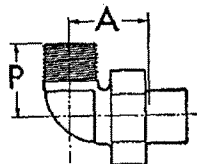
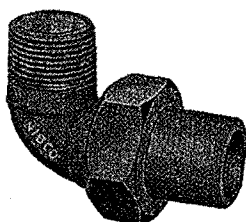
707-6 — 90 DEG. UNION ELBOWS
Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. H
$\frac{3}{8}$ "	\$1.20	100M	.22	$\frac{3}{8}$	$\frac{1}{8}$
$\frac{1}{2}$ "	1.35	75M	.44	1	$\frac{1}{2}$
$\frac{3}{4}$ "	1.80	25M	.69	$1\frac{1}{8}$	$\frac{3}{8}$
1"	2.45	25L	.95	$1\frac{1}{2}$	$\frac{3}{4}$
$1\frac{1}{4}$ "	3.20	25L	1.45	$1\frac{1}{2}$	$\frac{7}{8}$
$1\frac{1}{2}$ "	4.55		1.93	2 $\frac{1}{4}$	1
2"	5.95		3.41	2 $\frac{3}{4}$	1 $\frac{3}{8}$



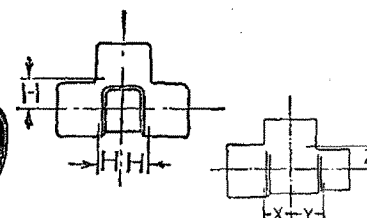
707-3-6 — 90 DEG. UNION ELBOWS
N. P. T. E. Ell to Copper Tailpiece

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. S
$\frac{3}{8}$ "	\$1.35	100M	.26	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{1}{2}$ "	1.60	75M	.49	$1\frac{1}{2}$	$\frac{3}{8}$
$\frac{3}{4}$ "	2.00	25M	.75	$1\frac{3}{4}$	1
1"	2.75	25L	1.19	$1\frac{7}{8}$	$1\frac{1}{4}$
$1\frac{1}{4}$ "	3.65	25L	1.60	$1\frac{1}{8}$	$1\frac{1}{2}$
$1\frac{1}{2}$ "	5.00		2.46	2 $\frac{1}{2}$	2 $\frac{3}{8}$
2"	6.85		5.60	2 $\frac{3}{4}$	2 $\frac{3}{4}$



707-4-6 — 90 DEG. UNION ELBOWS
N. P. T. E. Ell to Copper Tailpiece

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. P
$\frac{3}{8}$ "	\$1.35	100M	.26	$\frac{3}{8}$	$\frac{3}{4}$
$\frac{1}{2}$ "	1.60	75M	.63	$\frac{3}{4}$	$1\frac{1}{4}$
$\frac{3}{4}$ "	2.00	25M	.81	$1\frac{1}{2}$	$1\frac{1}{2}$
1"	2.75	25L	1.25	$1\frac{1}{2}$	$1\frac{1}{2}$
$1\frac{1}{4}$ "	3.65	25L	1.72	$1\frac{3}{4}$	2 $\frac{3}{8}$
$1\frac{1}{2}$ "	5.00		2.25	2 $\frac{1}{4}$	2 $\frac{1}{2}$
2"	6.85		5.09	2 $\frac{3}{4}$	2 $\frac{3}{4}$



711 — TEES

Copper to Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H	Dim. X	Dim. Y	Dim. Z
$\frac{1}{8}$ "	\$.23	250M	.05	$\frac{1}{4}$			
$\frac{1}{4}$ "	.23	250M	.05	$\frac{1}{4}$			
$\frac{3}{8}$ "	.23	150M	.07	$\frac{1}{8}$			
$\frac{3}{8}$ " x $\frac{3}{8}$ " x $\frac{1}{2}$ "	.27	100M	.09		$\frac{1}{8}$	$\frac{1}{8}$	$\frac{3}{8}$
$\frac{3}{8}$ " x $\frac{3}{8}$ " x $\frac{1}{4}$ "	.23	150M	.06		$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{8}$
$\frac{1}{2}$ "	.27	100M	.13	$\frac{1}{8}$			
$\frac{1}{2}$ " x $\frac{1}{2}$ " x 1"	.76	50L	.26		$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{8}$
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{3}{4}$ "	.49	40M	.17		$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{2}$
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{3}{8}$ "	.27	100M	.10		$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{8}$
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{4}$ "	.27	100M	.08		$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{1}{2}$ " x $\frac{3}{8}$ " x $\frac{1}{2}$ "	.27	100M	.11		$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{1}{2}$ " x $\frac{3}{8}$ " x $\frac{3}{8}$ "	.27	100M	.095		$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{8}$
$\frac{3}{4}$ "	.49	40M	.28	$\frac{3}{4}$			
$\frac{3}{4}$ " x $\frac{3}{4}$ " x $1\frac{1}{4}$ "	1.15	25L	.45		$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{8}$
$\frac{3}{4}$ " x $\frac{3}{4}$ " x 1"	.76	50L	.35		$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{8}$
$\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{1}{2}$ "	.49	40M	.20		$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{3}{8}$ "	.49	40M	.18		$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
$\frac{3}{4}$ " x $\frac{1}{2}$ " x $\frac{3}{4}$ "	.49	40M	.22		$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{3}{4}$ " x $\frac{1}{2}$ " x $\frac{1}{2}$ "	.49	40M	.17		$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{3}{4}$ " x $\frac{1}{2}$ " x $\frac{3}{8}$ "	.49	40M	.15		$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
$\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{1}{2}$ "	.49	40M	.17		$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{3}{4}$ "	.49	40M	.43		$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{3}{8}$ "	.49	40M	.32		$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{8}$
1"	.76	50L	.45	$\frac{3}{8}$			
1" x 1" x $1\frac{1}{2}$ "	1.65	25L	.65		1	1	$\frac{3}{4}$
1" x 1" x $1\frac{1}{4}$ "	1.15	25L	.54		$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{4}$
1" x 1" x $\frac{3}{4}$ "	.76	50L	.36		$\frac{1}{8}$	$\frac{1}{8}$	$\frac{3}{4}$
1" x 1" x $\frac{1}{2}$ "	.76	50L	.30		$\frac{1}{8}$	$\frac{1}{8}$	$\frac{3}{4}$
1" x 1" x $\frac{3}{8}$ "	.76	50L	.27		$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{8}$
1" x $\frac{3}{4}$ " x 1"	.76	50L	.39		$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
1" x $\frac{3}{4}$ " x $\frac{3}{4}$ "	.76	50L	.33		$\frac{3}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
1" x $\frac{3}{4}$ " x $\frac{1}{2}$ "	.76	50L	.28		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
1" x $\frac{3}{4}$ " x $\frac{3}{8}$ "	.76	50L	.45		$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{4}$
1" x $\frac{1}{2}$ " x 1"	.76	50L	.40		$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
1" x $\frac{1}{2}$ " x $\frac{3}{4}$ "	.76	50L	.35		$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
1" x $\frac{1}{2}$ " x $\frac{1}{2}$ "	.76	50L	.23		$\frac{1}{8}$	$\frac{1}{8}$	$\frac{3}{8}$
$1\frac{1}{4}$ "	1.15	25L	.64	$\frac{3}{8}$			
$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x 2"	2.30		.83		$1\frac{1}{4}$	$1\frac{1}{4}$	$\frac{3}{8}$
$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x $1\frac{1}{2}$ "	1.65	25L	.76		1	1	$\frac{3}{8}$
$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x 1"	1.15	25L	.61		$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x $\frac{3}{4}$ "	1.15	25L	.51		$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x $\frac{1}{2}$ "	1.15	25L	.47		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{8}$
$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x $\frac{3}{8}$ "	1.15	25L	.41		$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$

CAST SOLDER FITTINGS

By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.711 — TEES
(Continued)

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H	Dim. X	Dim. Y	Dim. Z
$1\frac{1}{4}" \times 1"$	1.65	25L	1.18	1	1	$\frac{7}{8}$	$\frac{7}{8}$
$1\frac{1}{4}" \times 1"$	1.15	25L	.59		$\frac{7}{8}$	$\frac{7}{8}$	$\frac{7}{8}$
$1\frac{1}{4}" \times 1"$	1.15	25L	.51		$\frac{3}{4}$	$\frac{3}{4}$	$\frac{7}{8}$
$1\frac{1}{4}" \times 1"$	1.15	25L	.46		$\frac{3}{8}$	$\frac{3}{8}$	$\frac{7}{8}$
$1\frac{1}{4}" \times 1"$	1.15	25L	.40		$\frac{1}{8}$	$\frac{1}{8}$	$\frac{3}{8}$
$1\frac{1}{4}" \times 1"$	1.15	25L	.65		$\frac{1}{8}$	$\frac{1}{8}$	$\frac{7}{8}$
$1\frac{1}{4}" \times \frac{3}{4}" \times 1\frac{1}{4}"$	1.15	25L	.57		$\frac{7}{8}$	$\frac{7}{8}$	$\frac{7}{8}$
$1\frac{1}{4}" \times \frac{3}{4}" \times 1"$	1.15	25L	.51		$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
$1\frac{1}{4}" \times \frac{3}{4}" \times \frac{3}{4}"$	1.15	25L	.45		$\frac{3}{8}$	1	$\frac{7}{8}$
$1\frac{1}{4}" \times \frac{3}{4}" \times \frac{1}{2}"$	1.15	25L	.79		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{7}{8}$
$1\frac{1}{4}" \times \frac{1}{2}" \times 1\frac{1}{4}"$	1.15	25L	.54		$\frac{7}{8}$	$\frac{7}{8}$	$\frac{7}{8}$
$1\frac{1}{4}" \times \frac{1}{2}" \times 1"$	1.15	25L	.50		$\frac{3}{4}$	$\frac{3}{4}$	$\frac{7}{8}$
$1\frac{1}{4}" \times \frac{1}{2}" \times \frac{3}{4}"$	1.15	25L	.57		$\frac{3}{8}$	$\frac{3}{8}$	$\frac{7}{8}$
$1\frac{1}{4}" \times \frac{1}{2}" \times \frac{1}{2}"$	1.15	25L	.64		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{7}{8}$
$1\frac{1}{2}"$	1.65	25L	.98	1			
$1\frac{1}{2}" \times 1\frac{1}{2}" \times 2\frac{1}{2}"$	3.80		4.02		$1\frac{1}{2}$	$1\frac{1}{2}$	1
$1\frac{1}{2}" \times 1\frac{1}{2}" \times 2"$	2.30		1.15		$1\frac{1}{4}$	$1\frac{1}{4}$	1
$1\frac{1}{2}" \times 1\frac{1}{2}" \times 1\frac{1}{4}"$	1.65	25L	.90		$\frac{7}{8}$	$\frac{7}{8}$	$\frac{7}{8}$
$1\frac{1}{2}" \times 1\frac{1}{2}" \times 1"$	1.65	25L	.72		$\frac{3}{4}$	$\frac{3}{4}$	$\frac{7}{8}$
$1\frac{1}{2}" \times 1\frac{1}{2}" \times \frac{3}{4}"$	1.65	25L	.66		$\frac{3}{8}$	$\frac{3}{8}$	1
$1\frac{1}{2}" \times 1\frac{1}{2}" \times \frac{1}{2}"$	1.65	25L	.60		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{7}{8}$
$1\frac{1}{2}" \times 1\frac{1}{2}" \times \frac{3}{8}"$	1.65	25L	.85		$\frac{1}{8}$	$\frac{1}{8}$	1
$1\frac{1}{2}" \times 1\frac{1}{4}" \times 2"$	2.30		1.15		$1\frac{1}{4}$	$1\frac{1}{4}$	1
$1\frac{1}{2}" \times 1\frac{1}{4}" \times 1\frac{1}{2}"$	1.65	25L	.93	1	1	1	1
$1\frac{1}{2}" \times 1\frac{1}{4}" \times 1\frac{1}{4}"$	1.65	25L	.74		$\frac{7}{8}$	$\frac{3}{8}$	$\frac{1}{8}$
$1\frac{1}{2}" \times 1\frac{1}{4}" \times 1"$	1.65	25L	.70		$\frac{3}{4}$	$\frac{3}{8}$	1
$1\frac{1}{2}" \times 1\frac{1}{4}" \times \frac{3}{4}"$	1.65	25L	.55		$\frac{3}{8}$	$\frac{3}{8}$	1
$1\frac{1}{2}" \times 1\frac{1}{4}" \times \frac{1}{2}"$	1.65	25L	.50		$\frac{1}{2}$	$\frac{1}{2}$	1
$1\frac{1}{2}" \times 1"$	1.65	25L	.86	1	1	1	1
$1\frac{1}{2}" \times 1"$	1.65	25L	.70		$\frac{7}{8}$	$\frac{7}{8}$	1
$1\frac{1}{2}" \times 1"$	1.65	25L	.63		$\frac{3}{4}$	$\frac{3}{4}$	1
$1\frac{1}{2}" \times 1"$	1.65	25L	1.13		$\frac{3}{8}$	$\frac{3}{8}$	1
$1\frac{1}{2}" \times 1"$	1.65	25L	.90		$\frac{1}{2}$	$\frac{1}{2}$	1
$1\frac{1}{2}" \times \frac{3}{4}" \times 1\frac{1}{2}"$	1.65	25L	.84	1	1	$1\frac{3}{8}$	
$1\frac{1}{2}" \times \frac{3}{4}" \times 1\frac{1}{4}"$	1.65	25L	.74		$\frac{7}{8}$	$\frac{7}{8}$	1
$1\frac{1}{2}" \times \frac{3}{4}" \times 1"$	1.65	25L	1.20		$\frac{3}{4}$	$\frac{3}{4}$	1
$1\frac{1}{2}" \times \frac{3}{4}" \times \frac{3}{4}"$	1.65	25L	1.20		$\frac{3}{8}$	$\frac{3}{8}$	1
$1\frac{1}{2}" \times \frac{1}{2}" \times 1\frac{1}{2}"$	1.65	25L	.84	1	1	1	1
$1\frac{1}{2}" \times \frac{1}{2}" \times 1\frac{1}{4}"$	1.65	25L	1.05		$\frac{7}{8}$	$\frac{7}{8}$	1
$1\frac{1}{2}" \times \frac{1}{2}" \times 1"$	1.65	25L	.99		$\frac{3}{4}$	$\frac{3}{4}$	1
2"	2.30		1.80	$1\frac{1}{4}$			
2" x 2" x 4"	9.40		5.32		$2\frac{3}{8}$	$2\frac{3}{8}$	$1\frac{1}{2}$
2" x 2" x 3"	4.85		4.40		$1\frac{7}{8}$	$1\frac{7}{8}$	$1\frac{1}{2}$
2" x 2" x 2 $\frac{1}{2}"$	3.80		2.86		$1\frac{5}{8}$	$1\frac{5}{8}$	$1\frac{1}{4}$
2" x 2" x 1 $\frac{1}{2}"$	2.30		1.56	1	1	$1\frac{1}{4}$	
2" x 2" x 1 $\frac{1}{4}"$	2.30		1.28		$\frac{7}{8}$	$\frac{7}{8}$	$1\frac{1}{4}$
2" x 2" x 1"	2.30		1.21		$\frac{3}{4}$	$\frac{3}{4}$	$1\frac{1}{4}$
2" x 2" x $\frac{3}{4}"$	2.30		1.15		$\frac{3}{8}$	$\frac{3}{8}$	$1\frac{1}{4}$
2" x 2" x $\frac{1}{2}"$	2.30		1.03		$\frac{3}{8}$	$\frac{3}{8}$	$1\frac{1}{4}$
2" x 1 $\frac{1}{2}" \times 2"$	2.30		1.65	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$	
2" x 1 $\frac{1}{2}" \times 1\frac{1}{2}"$	2.30		1.55	1	1	$1\frac{1}{4}$	
2" x 1 $\frac{1}{2}" \times 1\frac{1}{4}"$	2.30		1.52		$\frac{7}{8}$	$\frac{7}{8}$	$1\frac{1}{4}$
2" x 1 $\frac{1}{2}" \times 1"$	2.30		1.50		$\frac{3}{4}$	$\frac{3}{4}$	$1\frac{1}{4}$
2" x 1 $\frac{1}{2}" \times \frac{3}{4}"$	2.30		.95		$\frac{3}{8}$	$\frac{3}{8}$	$1\frac{1}{4}$

711 — TEES
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Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H	Dim. X	Dim. Y	Dim. Z
2" x 1 $\frac{1}{2}" \times \frac{1}{2}"$	2.30		1.40		$\frac{1}{2}$	$\frac{1}{2}$	$1\frac{1}{4}$
2" x 1 $\frac{1}{4}" \times 2"$	2.30		1.60		$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$
2" x 1 $\frac{1}{4}" \times 1\frac{1}{2}"$	2.30		1.38	1	1	$1\frac{1}{4}$	
2" x 1 $\frac{1}{4}" \times 1\frac{1}{4}"$	2.30		1.35		$\frac{7}{8}$	$\frac{7}{8}$	$1\frac{1}{4}$
2" x 1 $\frac{1}{4}" \times 1"$	2.30		1.35		$\frac{3}{4}$	$\frac{3}{4}$	$1\frac{1}{4}$
2" x 1 $\frac{1}{4}" \times \frac{3}{4}"$	2.30		1.33		$\frac{3}{8}$	$\frac{3}{8}$	$1\frac{1}{4}$
2" x 1" x 2"	2.30		1.55	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$	
2" x 1" x 1 $\frac{1}{2}"$	2.30		1.50	1	1	$1\frac{1}{4}$	
2" x 1" x 1 $\frac{1}{4}"$	2.30		1.62		$\frac{7}{8}$	$\frac{7}{8}$	$1\frac{1}{4}$
2" x 1" x 1"	2.30		1.61		$\frac{3}{4}$	$\frac{3}{4}$	$1\frac{1}{4}$
2" x $\frac{3}{4}" \times 2"$	2.30		1.38	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$	
2" x $\frac{3}{4}" \times 1\frac{1}{2}"$	2.30		1.35	1	1	$1\frac{1}{4}$	
2" x $\frac{1}{2}" \times 2"$	2.30		1.30	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$	
2 $\frac{1}{2}"$	3.80		3.75	$1\frac{1}{2}$			
2 $\frac{1}{2}" \times 2\frac{1}{2}" \times 4"$	9.40		6.40		$2\frac{1}{2}$	$2\frac{1}{2}$	$1\frac{3}{4}$
2 $\frac{1}{2}" \times 2\frac{1}{2}" \times 3\frac{1}{2}"$	7.60		5.45		$2\frac{1}{2}$	$2\frac{1}{2}$	$1\frac{3}{4}$
2 $\frac{1}{2}" \times 2\frac{1}{2}" \times 3"$	4.85		4.58		$1\frac{7}{8}$	$1\frac{7}{8}$	$1\frac{3}{4}$
2 $\frac{1}{2}" \times 2\frac{1}{2}" \times 2"$	3.80		3.62	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{3}{4}$	
2 $\frac{1}{2}" \times 2\frac{1}{2}" \times 1\frac{1}{2}"$	3.80		2.96	1	1	$1\frac{3}{4}$	
2 $\frac{1}{2}" \times 2\frac{1}{2}" \times 1\frac{1}{4}"$	3.80		2.64		$\frac{7}{8}$	$\frac{7}{8}$	$1\frac{3}{4}$
2 $\frac{1}{2}" \times 2\frac{1}{2}" \times 1"$	3.80		2.46		$\frac{3}{4}$	$\frac{3}{4}$	$1\frac{3}{4}$
2 $\frac{1}{2}" \times 2\frac{1}{2}" \times \frac{3}{4}"$	3.80		2.20		$\frac{3}{8}$	$\frac{3}{8}$	$1\frac{3}{4}$
2 $\frac{1}{2}" \times 2\frac{1}{2}" \times \frac{1}{2}"$	3.80		2.14		$\frac{1}{8}$	$\frac{1}{8}$	$1\frac{3}{4}$
2 $\frac{1}{2}" \times 2"$	3.80		3.63	$1\frac{5}{8}$	$1\frac{5}{8}$	$1\frac{5}{8}$	
2 $\frac{1}{2}" \times 2"$	3.80		3.48	$1\frac{5}{8}$	$1\frac{5}{8}$	$1\frac{5}{8}$	
2 $\frac{1}{2}" \times 2"$	3.80		3.37	$1\frac{5}{8}$	$1\frac{5}{8}$	$1\frac{5}{8}$	
2 $\frac{1}{2}" \times 2"$	3.80		3.25	$1\frac{5}{8}$	$1\frac{5}{8}$	$1\frac{5}{8}$	
2 $\frac{1}{2}" \times 2"$	3.80		2.35	1	$\frac{3}{4}$	$1\frac{5}{8}$	
2 $\frac{1}{2}" \times 2"$	3.80		2.22	1	$\frac{3}{4}$	$1\frac{5}{8}$	
2 $\frac{1}{2}" \times 2"$	3.80		2.00		$\frac{1}{2}$	$\frac{5}{8}$	$1\frac{5}{8}$
2 $\frac{1}{2}" \times 1\frac{1}{2}" \times 2\frac{1}{2}"$	3.80		3.55	$1\frac{3}{4}$	$1\frac{3}{4}$	$1\frac{5}{8}$	
2 $\frac{1}{2}" \times 1\frac{1}{2}" \times 2"$	3.80		3.47	$1\frac{3}{4}$	$1\frac{3}{4}$	$1\frac{5}{8}$	
2 $\frac{1}{2}" \times 1\frac{1}{2}" \times 1\frac{1}{2}"$	3.80		3.41	$1\frac{3}{4}$	$1\frac{3}{4}$	$1\frac{5}{8}$	
2 $\frac{1}{2}" \times 1\frac{1}{2}" \times 1\frac{1}{4}"$	3.80		3.40	$1\frac{3}{4}$	$1\frac{3}{4}$	2	
2 $\frac{1}{2}" \times 1\frac{1}{2}" \times 1"$	3.80		3.51	$1\frac{3}{4}$	$1\frac{3}{4}$	$2\frac{1}{8}$	
2 $\frac{1}{2}" \times 1\frac{1}{4}" \times 2\frac{1}{2}"$	3.80		3.46	$1\frac{3}{4}$	$1\frac{7}{8}$	$1\frac{5}{8}$	
2 $\frac{1}{2}" \times 1\frac{1}{4}" \times 2"$	3.80		3.26	$1\frac{3}{4}$	$1\frac{7}{8}$	$1\frac{5}{8}$	
2 $\frac{1}{2}" \times 1\frac{1}{4}" \times 1\frac{1}{2}"$	3.80		3.33	$1\frac{3}{4}$	$1\frac{7}{8}$	$1\frac{5}{8}$	
2 $\frac{1}{2}" \times 1\frac{1}{4}" \times 1\frac{1}{4}"$	3.80		3.45	$1\frac{3}{4}$	$1\frac{7}{8}$	2	
2 $\frac{1}{2}" \times 1\frac{1}{4}" \times 1"$	3.80		3.60	$1\frac{3}{4}$	$1\frac{7}{8}$	$2\frac{1}{8}$	
2 $\frac{1}{2}" \times 1"$	3.80		3.56	$1\frac{3}{4}$	2	$1\frac{5}{8}$	
2 $\frac{1}{2}" \times 1"$	3.80		3.31	$1\frac{3}{4}$	2	$1\frac{5}{8}$	
2 $\frac{1}{2}" \times 1"$	3.80		3.53	$1\frac{3}{4}$	2	$1\frac{5}{8}$	
2 $\frac{1}{2}" \times 1"$	3.80		3.30	$1\frac{3}{4}$	2	2	
2 $\frac{1}{2}" \times 1"$	3.80		3.31	$1\frac{3}{4}$	2	$2\frac{1}{8}$	
2 $\frac{1}{2}" \times \frac{3}{4}" \times 2\frac{1}{2}"$	3.80		3.25	$1\frac{3}{4}$	$2\frac{1}{8}$	$1\frac{5}{8}$	
2 $\frac{1}{2}" \times \frac{3}{4}" \times 1"$	3.80		3.20	$1\frac{3}{4}$	$2\frac{1}{8}$	$2\frac{1}{8}$	
2 $\frac{1}{2}" \times \frac{1}{2}" \times 2\frac{1}{2}"$	3.80		3.78	$1\frac{3}{4}$	$2\frac{1}{4}$	$1\frac{5}{8}$	
3"	4.85		5.20	$1\frac{3}{4}$			
3" x 3" x 4"	9.40		7.58		$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{3}{4}$
3" x 3" x 2 $\frac{1}{2}"$	4.85		4.30		$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{3}{4}$
3" x 3" x 2"	4.85		3.98		$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{3}{4}$
3" x 3" x 1 $\frac{1}{2}"$	4.85		3.70	1	1	$1\frac{3}{4}$	
3" x 3" x 1 $\frac{1}{4}"$	4.85		3.46		$\frac{7}{8}$	$\frac{7}{8}$	$2\frac{1}{8}$



CAST SOLDER FITTINGS

By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

711 — TEES

(Continued)

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H	Dim. X	Dim. Y	Dim. Z
3" x3" x1" —	\$ 4.85		3.20		$\frac{7}{8}$	$\frac{7}{8}$	1 $\frac{1}{2}$
3" x3" x $\frac{3}{4}$ " —	4.85		2.86		$\frac{5}{8}$	$\frac{5}{8}$	2
3" x3" x $\frac{1}{2}$ " —	4.85		2.92		$\frac{5}{8}$	$\frac{5}{8}$	2
3" x2 $\frac{1}{2}$ " x3" —	4.85		5.22	2	2	2	
3" x2 $\frac{1}{2}$ " x2 $\frac{1}{2}$ " —	4.85		5.14	2	2	2	
3" x2 $\frac{1}{2}$ " x2" —	4.85		4.74	2	2	2 $\frac{1}{2}$	
3" x2 $\frac{1}{2}$ " x1 $\frac{1}{2}$ " —	4.85		4.80	2	2	2 $\frac{1}{4}$	
3" x2 $\frac{1}{2}$ " x1 $\frac{1}{4}$ " —	4.85		4.84	2	2	2 $\frac{1}{4}$	
3" x2 $\frac{1}{2}$ " x1" —	4.85		4.86	2	2	2 $\frac{1}{2}$	
3" x2" x3" —	4.85		4.90	2	2 $\frac{1}{2}$	2	
3" x2" x2 $\frac{1}{2}$ " —	4.85		4.74	2	2 $\frac{1}{2}$	2	
3" x2" x2" —	4.85		4.65	2	2 $\frac{1}{2}$	2 $\frac{1}{2}$	
3" x2" x1 $\frac{1}{2}$ " —	4.85		4.50	2	2 $\frac{1}{2}$	2 $\frac{1}{4}$	
3" x2" x1 $\frac{1}{4}$ " —	4.85		4.69	2	2 $\frac{1}{2}$	2 $\frac{3}{8}$	
3" x2" x1" —	4.85		4.59	2	2 $\frac{1}{2}$	2 $\frac{1}{2}$	
3" x1 $\frac{1}{2}$ " x3" —	4.85		4.81	2	2 $\frac{1}{2}$	2	
3" x1 $\frac{1}{2}$ " x2 $\frac{1}{2}$ " —	4.85		4.90	2	2 $\frac{1}{2}$	2	
3" x1 $\frac{1}{2}$ " x2" —	4.85		4.42	2	2 $\frac{1}{2}$	2 $\frac{1}{2}$	
3" x1 $\frac{1}{2}$ " x1 $\frac{1}{2}$ " —	4.85		4.50	2	2 $\frac{1}{2}$	2 $\frac{1}{4}$	
3" x1 $\frac{1}{2}$ " x1 $\frac{1}{4}$ " —	4.85		4.49	2	2 $\frac{1}{2}$	2 $\frac{3}{8}$	
3" x1 $\frac{1}{2}$ " x1" —	4.85		4.44	2	2 $\frac{1}{2}$	2 $\frac{1}{2}$	
3" x1 $\frac{1}{4}$ " x3" —	4.85		4.93	2	2 $\frac{3}{8}$	2	
3" x1 $\frac{1}{4}$ " x2 $\frac{1}{2}$ " —	4.85		4.94	2	2 $\frac{3}{8}$	2	
3" x1 $\frac{1}{4}$ " x2" —	4.85		4.57	2	2 $\frac{3}{8}$	2 $\frac{1}{2}$	
3" x1 $\frac{1}{4}$ " x1 $\frac{1}{2}$ " —	4.85		4.74	2	2 $\frac{3}{8}$	2 $\frac{1}{4}$	
3" x1 $\frac{1}{4}$ " x1 $\frac{1}{4}$ " —	4.85		4.54	2	2 $\frac{3}{8}$	2 $\frac{3}{8}$	
3" x1 $\frac{1}{4}$ " x1" —	4.85		4.50	2	2 $\frac{3}{8}$	2 $\frac{1}{2}$	
3" x1" x3" —	4.85		4.74	2	2 $\frac{1}{2}$	2	
3" x1" x2 $\frac{1}{2}$ " —	4.85		4.64	2	2 $\frac{1}{2}$	2	
3" x1" x2" —	4.85		4.52	2	2 $\frac{1}{2}$	2 $\frac{1}{2}$	
3" x1" x1 $\frac{1}{2}$ " —	4.85		4.43	2	2 $\frac{1}{2}$	2 $\frac{1}{4}$	
3" x1" x1 $\frac{1}{4}$ " —	4.85		4.38	2	2 $\frac{1}{2}$	2 $\frac{3}{8}$	
3" x1" x1" —	4.85		4.35	2	2 $\frac{1}{2}$	2 $\frac{1}{2}$	
3" x $\frac{3}{4}$ " x3" —	4.85		4.84	2	2 $\frac{3}{8}$	2	
3" x $\frac{3}{4}$ " x2 $\frac{1}{2}$ " —	4.85		4.64	2	2 $\frac{3}{8}$	2	
3" x $\frac{3}{4}$ " x2" —	4.85		4.44	2	2 $\frac{3}{8}$	2 $\frac{1}{2}$	
3" x $\frac{3}{4}$ " x1 $\frac{1}{2}$ " —	4.85		4.64	2	2 $\frac{3}{8}$	2 $\frac{1}{4}$	
3" x $\frac{3}{4}$ " x1 $\frac{1}{4}$ " —	4.85		4.38	2	2 $\frac{3}{8}$	2 $\frac{1}{4}$	
3" x $\frac{3}{4}$ " x1" —	4.85		4.68	2	2 $\frac{3}{8}$	2 $\frac{3}{8}$	
3" x $\frac{1}{2}$ " x3" —	4.85		4.80	2	2 $\frac{3}{4}$	2	
3" x $\frac{1}{2}$ " x2 $\frac{1}{2}$ " —	4.85		4.64	2	2 $\frac{3}{4}$	2	
3" x $\frac{1}{2}$ " x2" —	4.85		4.55	2	2 $\frac{3}{4}$	2 $\frac{1}{2}$	
3" x $\frac{1}{2}$ " x1 $\frac{1}{2}$ " —	4.85		4.42	2	2 $\frac{3}{4}$	2 $\frac{1}{4}$	
3" x $\frac{1}{2}$ " x1 $\frac{1}{4}$ " —	4.85		4.35	2	2 $\frac{3}{4}$	2 $\frac{1}{4}$	
3" x $\frac{1}{2}$ " x1" —	4.85		4.30	2	2 $\frac{3}{4}$	2 $\frac{1}{2}$	
3 $\frac{1}{2}$ " —	7.60		7.56	2 $\frac{3}{4}$			
3 $\frac{1}{2}$ " x3 $\frac{1}{2}$ " x3" —	7.60		6.46	1 $\frac{3}{4}$	1 $\frac{3}{4}$	2 $\frac{1}{4}$	
3 $\frac{1}{2}$ " x3 $\frac{1}{2}$ " x2 $\frac{1}{2}$ " —	7.60		7.84	1 $\frac{3}{4}$	1 $\frac{3}{4}$	2 $\frac{3}{8}$	
3 $\frac{1}{2}$ " x3 $\frac{1}{2}$ " x2" —	7.60		5.70	1 $\frac{5}{8}$	1 $\frac{5}{8}$	2 $\frac{1}{4}$	
3 $\frac{1}{2}$ " x3 $\frac{1}{2}$ " x1 $\frac{1}{2}$ " —	7.60		4.72	1	1	2 $\frac{1}{2}$	
3 $\frac{1}{2}$ " x3 $\frac{1}{2}$ " x1 $\frac{1}{4}$ " —	7.60		4.62	1	1	2 $\frac{3}{8}$	
3 $\frac{1}{2}$ " x3 $\frac{1}{2}$ " x1" —	7.60		3.97	$\frac{3}{4}$	$\frac{3}{4}$	2 $\frac{1}{4}$	
3 $\frac{1}{2}$ " x3 $\frac{1}{2}$ " x $\frac{3}{4}$ " —	7.60		3.90	$\frac{5}{8}$	$\frac{5}{8}$	2 $\frac{1}{2}$	

711 — TEES

(Continued)

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H	Dim. X	Dim. Y	Dim. Z
3 $\frac{1}{2}$ " x3" x3 $\frac{1}{2}$ " —	\$ 7.60		4.30		2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{2}$
3 $\frac{1}{2}$ " x3" x3" —	7.60		5.85		2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{4}$
3 $\frac{1}{2}$ " x3" x2 $\frac{1}{2}$ " —	7.60		7.09		2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{3}{8}$
3 $\frac{1}{2}$ " x3" x2" —	7.60		7.00		2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{2}$
3 $\frac{1}{2}$ " x3" x1 $\frac{1}{2}$ " —	7.60		7.03		2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{3}{8}$
3 $\frac{1}{2}$ " x3" x1 $\frac{1}{4}$ " —	7.60		6.90		2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{3}{4}$
3 $\frac{1}{2}$ " x3" x1" —	7.60		7.07		2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{3}{8}$
3 $\frac{1}{2}$ " x2 $\frac{1}{2}$ " x3 $\frac{1}{2}$ " —	7.60		7.50		2 $\frac{1}{4}$	2 $\frac{3}{8}$	2 $\frac{1}{2}$
3 $\frac{1}{2}$ " x2 $\frac{1}{2}$ " x3" —	7.60		7.57		2 $\frac{1}{4}$	2 $\frac{3}{8}$	2 $\frac{1}{4}$
3 $\frac{1}{2}$ " x2 $\frac{1}{2}$ " x2 $\frac{1}{2}$ " —	7.60		7.45		2 $\frac{1}{4}$	2 $\frac{3}{8}$	2 $\frac{3}{8}$
3 $\frac{1}{2}$ " x2 $\frac{1}{2}$ " x2" —	7.60		7.42		2 $\frac{1}{4}$	2 $\frac{3}{8}$	2 $\frac{3}{8}$
3 $\frac{1}{2}$ " x2 $\frac{1}{2}$ " x1 $\frac{1}{2}$ " —	7.60		7.30		2 $\frac{1}{4}$	2 $\frac{3}{8}$	2 $\frac{1}{2}$
3 $\frac{1}{2}$ " x2 $\frac{1}{2}$ " x1 $\frac{1}{4}$ " —	7.60		7.20		2 $\frac{1}{4}$	2 $\frac{3}{8}$	2 $\frac{3}{8}$
3 $\frac{1}{2}$ " x2 $\frac{1}{2}$ " x1" —	7.60		7.15		2 $\frac{1}{4}$	2 $\frac{3}{8}$	2 $\frac{3}{4}$
3 $\frac{1}{2}$ " x2" x3 $\frac{1}{2}$ " —	7.60		7.21		2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{1}{4}$
3 $\frac{1}{2}$ " x2" x3" —	7.60		6.92		2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{1}{4}$
3 $\frac{1}{2}$ " x2" x2 $\frac{1}{2}$ " —	7.60		6.93		2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{3}{8}$
3 $\frac{1}{2}$ " x2" x2" —	7.60		6.80		2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$
3 $\frac{1}{2}$ " x2" x1 $\frac{1}{2}$ " —	7.60		6.84		2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{3}{8}$
3 $\frac{1}{2}$ " x2" x1 $\frac{1}{4}$ " —	7.60		6.75		2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{3}{4}$
3 $\frac{1}{2}$ " x2" x1" —	7.60		6.68		2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{7}{8}$
3 $\frac{1}{2}$ " x1 $\frac{1}{2}$ " x3 $\frac{1}{2}$ " —	7.60		7.46		2 $\frac{1}{4}$	2 $\frac{3}{8}$	2 $\frac{1}{2}$
3 $\frac{1}{2}$ " x1 $\frac{1}{2}$ " x3" —	7.60		6.80		2 $\frac{1}{4}$	2 $\frac{3}{8}$	2 $\frac{1}{4}$
3 $\frac{1}{2}$ " x1 $\frac{1}{2}$ " x2 $\frac{1}{2}$ " —	7.60		6.75		2 $\frac{1}{4}$	2 $\frac{3}{8}$	2 $\frac{3}{8}$
3 $\frac{1}{2}$ " x1 $\frac{1}{2}$ " x2" —	7.60		6.72		2 $\frac{1}{4}$	2 $\frac{3}{8}$	2 $\frac{1}{2}$
3 $\frac{1}{2}$ " x1 $\frac{1}{2}$ " x1 $\frac{1}{2}$ " —	7.60		6.69		2 $\frac{1}{4}$	2 $\frac{3}{8}$	2 $\frac{3}{8}$
3 $\frac{1}{2}$ " x1 $\frac{1}{2}$ " x1 $\frac{1}{4}$ " —	7.60		6.65		2 $\frac{1}{4}$	2 $\frac{3}{8}$	2 $\frac{3}{4}$
3 $\frac{1}{2}$ " x1 $\frac{1}{2}$ " x1" —	7.60		6.58		2 $\frac{1}{4}$	2 $\frac{3}{8}$	2 $\frac{7}{8}$
3 $\frac{1}{2}$ " x1 $\frac{1}{4}$ " x3 $\frac{1}{2}$ " —	7.60		7.30		2 $\frac{1}{4}$	2 $\frac{3}{4}$	2 $\frac{1}{4}$
3 $\frac{1}{2}$ " x1 $\frac{1}{4}$ " x3" —	7.60		6.88		2 $\frac{1}{4}$	2 $\frac{3}{4}$	2 $\frac{3}{8}$
3 $\frac{1}{2}$ " x1 $\frac{1}{4}$ " x2 $\frac{1}{2}$ " —	7.60		6.75		2 $\frac{1}{4}$	2 $\frac{3}{4}$	2 $\frac{1}{2}$
3 $\frac{1}{2}$ " x1 $\frac{1}{4}$ " x2" —	7.60		6.68		2 $\frac{1}{4}$	2 $\frac{3}{4}$	2 $\frac{3}{8}$
3 $\frac{1}{2}$ " x1 $\frac{1}{4}$ " x1 $\frac{1}{2}$ " —	7.60		6.60		2 $\frac{1}{4}$	2 $\frac{3}{4}$	2 $\frac{3}{4}$
3 $\frac{1}{2}$ " x1 $\frac{1}{4}$ " x1 $\frac{1}{4}$ " —	7.60		6.54		2 $\frac{1}{4}$	2 $\frac{3}{4}$	2 $\frac{7}{8}$
3 $\frac{1}{2}$ " x1 $\frac{1}{4}$ " x1" —	7.60		6.45		2 $\frac{1}{4}$	2 $\frac{3}{4}$	3
3 $\frac{1}{2}$ " x1" x3 $\frac{1}{2}$ " —	7.60		7.36		2 $\frac{1}{4}$	2 $\frac{7}{8}$	2 $\frac{1}{4}$
3 $\frac{1}{2}$ " x1" x3" —	7.60		6.80		2 $\frac{1}{4}$	2 $\frac{7}{8}$	2 $\frac{3}{8}$
3 $\frac{1}{2}$ " x1" x2 $\frac{1}{2}$ " —	7.60		6.71		2 $\frac{1}{4}$	2 $\frac{7}{8}$	2 $\frac{1}{2}$
3 $\frac{1}{2}$ " x1" x2" —	7.60		6.50		2 $\frac{1}{4}$	2 $\frac{7}{8}$	2 $\frac{3}{8}$
3 $\frac{1}{2}$ " x1" x1 $\frac{1}{2}$ " —	7.60		6.48		2 $\frac{1}{4}$	2 $\frac{7}{8}$	2 $\frac{3}{4}$
3 $\frac{1}{2}$ " x1" x1 $\frac{1}{4}$ " —	7.60		6.42		2 $\frac{1}{4}$	2 $\frac{7}{8}$	2 $\frac{7}{8}$
3 $\frac{1}{2}$ " x1" x1" —	7.60		6.35		2 $\frac{1}{4}$	2 $\frac{7}{8}$	3
4" —	9.40		8.80	2 $\frac{3}{4}$			
4" x4" x6" —	37.10		30.00		3 $\frac{3}{8}$	3 $\frac{3}{8}$	4
4" x4" x3 $\frac{1}{2}$ " —	9.40		10.40		2 $\frac{3}{8}$	2 $\frac{3}{8}$	2 $\frac{1}{2}$
4" x4" x3" —	9.40		9.80		2 $\frac{3}{8}$	2 $\frac{3}{8}$	2 $\frac{3}{8}$
4" x4" x2 $\frac{1}{2}$ " —	9.40		6.66		1 $\frac{1}{2}$	1 $\frac{1}{2}$	2 $\frac{1}{2}$
4" x4" x2" —	9.40		4.86		1 $\frac{1}{4}$	1 $\frac{1}{4}$	2 $\frac{3}{8}$
4" x4" x1 $\frac{1}{2}$ " —	9.40		5.65		1	1	2 $\frac{3}{8}$
4" x4" x1 $\frac{1}{4}$ " —	9.40		5.25		$\frac{3}{4}$	$\frac{3}{4}$	2 $\frac{3}{8}$
4" x4" x1" —	9.40		4.99		$\frac{7}{8}$	$\frac{7}{8}$	2 $\frac{3}{8}$
4" x4" x $\frac{3}{4}$ " —	9.40		4.45		$\frac{1}{2}$	$\frac{1}{2}$	2 $\frac{1}{2}$
4" x4" x $\frac{1}{2}$ " —	9.40		4.47		$\frac{1}{2}$	$\frac{1}{2}$	2 $\frac{1}{2}$

CAST SOLDER FITTINGS

By NIBCO

Sizes shown are nominal sizes (actual O.D. 1/8" larger) except thread sizes which are standard pipe sizes.

711 — TEES

(Continued)

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H	Dim. X	Dim. Y	Dim. Z
4"x3 1/2"x4"	\$ 9.40		10.33	2 1/2	2 1/2	2 1/2	
4"x3 1/2"x3 1/2"	9.40		10.00	2 1/2	2 1/2	2 3/8	
4"x3 1/2"x3"	9.40		9.62	2 1/2	2 1/2	2 3/4	
4"x3 1/2"x2 1/2"	9.40		9.18	2 1/2	2 1/2	2 7/8	
4"x3 1/2"x2"	9.40		9.24	2 1/2	2 1/2	3	
4"x3 1/2"x1 1/2"	9.40		9.00	2 1/2	2 1/2	3 1/8	
4"x3 1/2"x1 1/4"	9.40		8.95	2 1/2	2 1/2	3 1/4	
4"x3 1/2"x1"	9.40		8.51	2 1/2	2 1/2	3 3/8	
4"x3"x4"	9.40		10.06	2 1/2	2 5/8	2 1/2	
4"x3"x3 1/2"	9.40		9.65	2 1/2	2 5/8	2 1/2	
4"x3"x3"	9.40		9.21	2 1/2	2 5/8	2 3/8	
4"x3"x2 1/2"	9.40		9.15	2 1/2	2 5/8	2 3/4	
4"x3"x2"	9.40		8.98	2 1/2	2 5/8	2 7/8	
4"x3"x1 1/2"	9.40		8.94	2 1/2	2 5/8	3	
4"x3"x1 1/4"	9.40		8.75	2 1/2	2 5/8	3 1/8	
4"x3"x1"	9.40		8.54	2 1/2	2 5/8	3 1/4	
4"x2 1/2"x4"	9.40		10.62	2 1/2	2 5/8	2 1/2	
4"x2 1/2"x3 1/2"	9.40		9.18	2 1/2	2 5/8	2 3/4	
4"x2 1/2"x3"	9.40		9.02	2 1/2	2 5/8	2 5/8	
4"x2 1/2"x2 1/2"	9.40		8.90	2 1/2	2 5/8	2 1/2	
4"x2 1/2"x2"	9.40		8.62	2 1/2	2 5/8	2 7/8	
4"x2 1/2"x1 1/2"	9.40		8.60	2 1/2	2 5/8	3	
4"x2 1/2"x1 1/4"	9.40		8.57	2 1/2	2 5/8	3 1/8	
4"x2 1/2"x1"	9.40		8.50	2 1/2	2 5/8	3 1/4	
4"x2"x4"	9.40		9.63	2 1/2	2 3/4	2 3/8	
4"x2"x3 1/2"	9.40		9.24	2 1/2	2 3/4	2 1/2	
4"x2"x3"	9.40		8.99	2 1/2	2 3/4	2 3/8	
4"x2"x2 1/2"	9.40		8.75	2 1/2	2 3/4	2 3/4	
4"x2"x2"	9.40		8.68	2 1/2	2 3/4	2 7/8	
4"x2"x1 1/2"	9.40		8.55	2 1/2	2 3/4	3	
4"x2"x1 1/4"	9.40		8.52	2 1/2	2 3/4	3 1/8	
4"x2"x1"	9.40		8.45	2 1/2	2 3/4	3 1/4	
4"x1 1/2"x4"	9.40		9.65	2 1/2	2 7/8	2 3/8	
4"x1 1/2"x3 1/2"	9.40		9.45	2 1/2	2 7/8	2 1/2	
4"x1 1/2"x3"	9.40		8.90	2 1/2	2 7/8	2 3/8	
4"x1 1/2"x2 1/2"	9.40		8.72	2 1/2	2 7/8	2 3/4	
4"x1 1/2"x2"	9.40		8.65	2 1/2	2 7/8	2 7/8	
4"x1 1/2"x1 1/2"	9.40		8.57	2 1/2	2 7/8	3	
4"x1 1/2"x1 1/4"	9.40		8.50	2 1/2	2 7/8	3 1/8	
4"x1 1/2"x1"	9.40		8.42	2 1/2	2 7/8	3 1/4	
4"x1 1/4"x4"	9.40		9.30	2 1/2	3	2 1/2	
4"x1 1/4"x3 1/2"	9.40		9.15	2 1/2	3	2 5/8	
4"x1 1/4"x3"	9.40		8.85	2 1/2	3	2 3/4	
4"x1 1/4"x2 1/2"	9.40		8.62	2 1/2	3	2 7/8	
4"x1 1/4"x2"	9.40		8.42	2 1/2	3	3	
4"x1 1/4"x1 1/2"	9.40		8.35	2 1/2	3	3 1/8	
4"x1 1/4"x1 1/4"	9.40		8.32	2 1/2	3	3 1/4	
4"x1 1/4"x1"	9.40		8.28	2 1/2	3	3 3/8	
4"x1"x4"	9.40		9.87	2 1/2	3 3/8	3	
4"x1"x3 1/2"	9.40		9.05	2 1/2	3 3/8	3 3/8	
4"x1"x3"	9.40		8.75	2 1/2	3 3/8	3 1/4	
4"x1"x2 1/2"	9.40		8.52	2 1/2	3 3/8	3 3/8	
4"x1"x2"	9.40		8.32	2 1/2	3 3/8	3 1/2	

711 — TEES

(Continued)

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H	Dim. X	Dim. Y	Dim. Z
4"x1" x1 1/2"	\$ 9.40		8.25	2 1/2	3 3/8	3 3/8	
4"x1" x1 1/4"	9.40		8.22	2 1/2	3 3/8	3 3/4	
4"x1" x1"	9.40		8.15	2 1/2	3 3/8	3 7/8	
5" x3 1/2"	22.05		22	3 1/2			
5"x5" x6"	37.10		30.0		3 3/8	3 3/8	3
5"x5" x4"	22.05		19		3 3/8	3 3/8	3 3/8
5"x5" x3 1/2"	22.05		18.5		3 3/8	3 3/8	3 1/2
5"x5" x3"	22.05		20		3 3/8	3 3/8	3 5/8
5"x5" x2 1/2"	22.05		19.8		3 3/8	3 3/8	3 3/4
5"x5" x2"	22.05		21		3 3/8	3 3/8	3 7/8
5"x5" x1 1/2"	22.05		20.5		3 3/8	3 3/8	4
5"x5" x1 1/4"	22.05		20		3 3/8	3 3/8	4 1/8
5"x5" x1"	22.05		19.0		3 3/8	3 3/8	4 1/4
5"x4" x5"	22.05		20		3 1/2	3 3/8	3 3/4
5"x4" x4"	22.05		19.2		3 1/2	3 3/8	3 3/8
5"x4" x3 1/2"	22.05		19.5		3 1/2	3 3/8	3 1/2
5"x4" x3"	22.05		19.05		3 1/2	3 3/8	3 3/8
5"x4" x2 1/2"	22.05		18.75		3 1/2	3 3/8	3 3/4
5"x4" x2"	22.05		18.35		3 1/2	3 3/8	3 7/8
5"x4" x1 1/2"	22.05		18.15		3 1/2	3 3/8	4
5"x4" x1 1/4"	22.05		18.10		3 1/2	3 3/8	4 1/8
5"x4" x1"	22.05		18.05		3 1/2	3 3/8	4 1/4
5"x3 1/2" x5"	22.05		20		3 1/2	3 3/4	3 3/4
5"x3 1/2" x4"	22.05		19.2		3 1/2	3 3/4	3 3/8
5"x3 1/2" x3 1/2"	22.05		19.5		3 1/2	3 3/4	3 1/2
5"x3 1/2" x3"	22.05		19.1		3 1/2	3 3/4	3 5/8
5"x3 1/2" x2 1/2"	22.05		18.75		3 1/2	3 3/4	3 3/4
5"x3 1/2" x2"	22.05		18.35		3 1/2	3 3/4	3 7/8
5"x3 1/2" x1 1/2"	22.05		18.15		3 1/2	3 3/4	4
5"x3 1/2" x1 1/4"	22.05		18.10		3 1/2	3 3/4	4 1/8
5"x3 1/2" x1"	22.05		18.0		3 1/2	3 3/4	4 1/4
5"x3" x5"	22.05		19.5		3 1/2	3 3/8	3 3/4
5"x3" x4"	22.05		18.7		3 1/2	3 3/8	3 3/8
5"x3" x3 1/2"	22.05		18.2		3 1/2	3 3/8	3 1/2
5"x3" x3"	22.05		17.7		3 1/2	3 3/8	3 5/8
5"x3" x2 1/2"	22.05		17.4		3 1/2	3 3/8	3 3/4
5"x3" x2"	22.05		17.0		3 1/2	3 3/8	3 7/8
5"x3" x1 1/2"	22.05		16.8		3 1/2	3 3/8	4
5"x3" x1 1/4"	22.05		16.7		3 1/2	3 3/8	4 1/8
5"x3" x1"	22.05		16.7		3 1/2	3 3/8	4 1/4
5"x2 1/2" x5"	22.05		19.2		3 1/2	3 3/8	3 3/4
5"x2 1/2" x4"	22.05		18.4		3 1/2	3 3/8	3 3/8
5"x2 1/2" x3 1/2"	22.05		17.9		3 1/2	3 3/8	3 1/2
5"x2 1/2" x3"	22.05		17.4		3 1/2	3 3/8	3 5/8
5"x2 1/2" x2 1/2"	22.05		17.1		3 1/2	3 3/8	3 3/4
5"x2 1/2" x2"	22.05		16.7		3 1/2	3 3/8	3 7/8
5"x2 1/2" x1 1/2"	22.05		16.5		3 1/2	3 3/8	4
5"x2 1/2" x1 1/4"	22.05		16.0		3 1/2	3 3/8	4 1/8
5"x2 1/2" x1"	22.05		16.0		3 1/2	3 3/8	4 1/4
5"x2" x5"	22.05		18.8		3 1/2	3 1/2	3 3/4
5"x2" x4"	22.05		18.0		3 1/2	3 1/2	3 3/8
5"x2" x3 1/2"	22.05		17.5		3 1/2	3 1/2	3 1/2
5"x2" x3"	22.05		17.1		3 1/2	3 1/2	3 5/8
5"x2" x2 1/2"	22.05		16.8		3 1/2	3 1/2	3 3/4



CAST SOLDER FITTINGS

By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

711 — TEES

(Continued)

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H	Dim. X	Dim. Y	Dim. Z
5"x2" x2"	\$ 22.05		16.4		3½	3½	3¾
5"x2" x1½"	22.05		16.2		3½	3½	4
5"x2" x1¼"	22.05		15.8		3½	3½	4½
5"x2" x1"	22.05		15.8		3½	3½	4½
5"x1½"x5"	22.05		18.6		3½	3¾	3½
5"x1½"x4"	22.05		17.8		3½	3¾	3¾
5"x1½"x3½"	22.05		17.3		3½	3¾	3½
5"x1½"x3"	22.05		16.8		3½	3¾	3¾
5"x1½"x2½"	22.05		16.5		3½	3¾	3¾
5"x1½"x2"	22.05		16.1		3½	3¾	3¾
5"x1½"x1½"	22.05		15.9		3½	3¾	4
5"x1½"x1¼"	22.05		15.8		3½	3¾	4½
5"x1½"x1"	22.05		15.7		3½	3¾	4½
5"x1¼"x5"	22.05		18.5		3½	3¾	3¾
5"x1¼"x4"	22.05		17.7		3½	3¾	3¾
5"x1¼"x3½"	22.05		17.2		3½	3¾	3½
5"x1¼"x3"	22.05		16.7		3½	3¾	3¾
5"x1¼"x2½"	22.05		16.4		3½	3¾	3¾
5"x1¼"x2"	22.05		16.0		3½	3¾	3¾
5"x1¼"x1½"	22.05		15.8		3½	3¾	4
5"x1¼"x1¼"	22.05		15.7		3½	3¾	4½
5"x1¼"x1"	22.05		15.7		3½	3¾	4½
5"x1" x5"	22.05		18.4		3½	3¾	3¾
5"x1" x4"	22.05		17.6		3½	3¾	3¾
5"x1" x3½"	22.05		17.1		3½	3¾	3½
5"x1" x3"	22.05		16.6		3½	3¾	3¾
5"x1" x2½"	22.05		16.3		3½	3¾	3¾
5"x1" x2"	22.05		15.9		3½	3¾	3¾
5"x1" x1½"	22.05		15.7		3½	3¾	4
5"x1" x1¼"	22.05		15.6		3½	3¾	4½
5"x1" x1"	22.05		15.7		3½	3¾	4½
6"	37.10		34.4	3¾			
6"x6" x8"	54.10		56.0		3¾	3¾	
6"x6" x5"	37.10		33.0		3¾	3¾	3¾
6"x6" x4"	37.10		31.4		3¾	3¾	4
6"x6" x3½"	37.10		30.8		3¾	3¾	4½
6"x6" x3"	37.10		29.3		3¾	3¾	4¾
6"x6" x2½"	37.10		28.0		3¾	3¾	4½
6"x6" x2"	37.10		27.6		1¾	1¾	4
6"x6" x1½"	37.10		26.2		1¾	1¾	4½
6"x6" x1¼"	37.10		24.5		1¾	1¾	4½
6"x6" x1"	37.10		22.0		1¾	1¾	4¾
6"x6" x¾"	37.10		22.0		1¾	1¾	4½
6"x5" x6"	37.10		31.0		3¾	3¾	4
6"x5" x5"	37.10		29.0		3¾	3¾	4½
6"x5" x4"	37.10		27.0		3¾	3¾	4½
6"x5" x3½"	37.10		26.5		3¾	3¾	4¾
6"x5" x3"	37.10		26.0		3¾	3¾	4½
6"x5" x2½"	37.10		25.8		3¾	3¾	4¾
6"x5" x2"	37.10		25.4		3¾	3¾	4¾
6"x4" x6"	37.10		30.0		3¾	3¾	4
6"x4" x5"	37.10		28.0		3¾	3¾	4½
6"x4" x4"	37.10		26.5		3¾	3¾	4½

711 — TEES

(Continued)

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H	Dim. X	Dim. Y	Dim. Z
6"x4" x3½"	\$ 37.10		26.0		3¾	3¾	4¾
6"x4" x3"	37.10		25.5		3¾	3¾	4½
6"x4" x2½"	37.10		25.2		3¾	3¾	4¾
6"x4" x2"	37.10		24.8		3¾	3¾	4¾
6"x3½"x6"	37.10		29.5		3¾	4	4
6"x3½"x5"	37.10		27.5		3¾	4	4½
6"x3½"x4"	37.10		26.0		3¾	4	4½
6"x3½"x3½"	37.10		25.5		3¾	4	4¾
6"x3½"x3"	37.10		25.0		3¾	4	4½
6"x3½"x2½"	37.10		24.7		3¾	4	4¾
6"x3½"x2"	37.10		24.3		3¾	4	4¾
6"x3" x6"	37.10		29.0		3¾	4½	4
6"x3" x5"	37.10		27.0		3¾	4½	4½
6"x3" x4"	37.10		25.5		3¾	4½	4½
6"x3" x3½"	37.10		25.0		3¾	4½	4¾
6"x3" x3"	37.10		24.5		3¾	4½	4½
6"x3" x2½"	37.10		24.2		3¾	4½	4¾
6"x3" x2"	37.10		23.8		3¾	4½	4¾
6"x2½"x6"	37.10		28.7		3¾	4½	4
6"x2½"x5"	37.10		26.8		3¾	4½	4½
6"x2½"x4"	37.10		25.3		3¾	4½	4½
6"x2½"x3½"	37.10		24.8		3¾	4½	4¾
6"x2½"x3"	37.10		24.3		3¾	4½	4½
6"x2½"x2½"	37.10		24.0		3¾	4½	4¾
6"x2½"x2"	37.10		24.6		3¾	4½	4¾
6"x2" x6"	37.10		28.3		3¾	4¾	4
6"x2" x5"	37.10		26.3		3¾	4¾	4½
6"x2" x4"	37.10		24.8		3¾	4¾	4½
6"x2" x3½"	37.10		24.3		3¾	4¾	4¾
6"x2" x3"	37.10		23.8		3¾	4¾	4½
6"x2" x2½"	37.10		23.5		3¾	4¾	4¾
6"x2" x2"	37.10		23.1		3¾	4¾	4¾
6"x1½"x6"	37.10		28.1		3¾	4½	4
6"x1½"x5"	37.10		26.1		3¾	4½	4½
6"x1½"x4"	37.10		24.6		3¾	4½	4½
6"x1½"x3½"	37.10		24.1		3¾	4½	4¾
6"x1½"x3"	37.10		23.6		3¾	4½	4½
6"x1½"x2½"	37.10		23.3		3¾	4½	4¾
6"x1½"x2"	37.10		22.9		3¾	4½	4¾
6"x1¼"x6"	37.10		28.0		3¾	4¾	4
6"x1¼"x5"	37.10		26.0		3¾	4¾	4¾
6"x1¼"x4"	37.10		24.5		3¾	4¾	4½
6"x1¼"x3½"	37.10		24.0		3¾	4¾	4¾
6"x1¼"x3"	37.10		23.5		3¾	4¾	4½
6"x1¼"x2½"	37.10		23.2		3¾	4¾	4¾
6"x1¼"x2"	37.10		22.8		3¾	4¾	4¾
6"x1" x6"	37.10		28.0		3¾	4¾	4
6"x1" x5"	37.10		26.0		3¾	4¾	4½
6"x1" x4"	37.10		24.5		3¾	4¾	4½
6"x1" x3½"	37.10		24.0		3¾	4¾	4¾
6"x1" x3"	37.10		23.5		3¾	4¾	4½
6"x1" x2½"	37.10		23.2		3¾	4¾	4¾
6"x1" x2"	37.10		22.8		3¾	4¾	4¾

CAST SOLDER FITTINGS

By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

711 — TEES

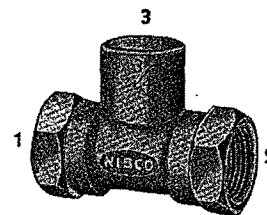
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Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H	Dim. X	Dim. Y	Dim. Z
8" _____	\$ 54.10		65	5			
8"x8"x6" _____	54.10		62		5	5	5 3/4
8"x8"x5" _____	54.10		60.4		5	5	5 3/4
8"x8"x4" _____	54.10		55.2		5	5	6 1/4
8"x6"x8" _____	54.10		62.0		5	5	5
8"x6"x6" _____	54.10		59.0		5	5	5 3/4
8"x6"x5" _____	54.10		56.4		5	5	5 3/4
8"x6"x4" _____	54.10		54.8		5	5 3/4	6 1/4
8"x5"x8" _____	54.10		59.0		5	5 3/4	5
8"x5"x6" _____	54.10		56.0		5	5 3/4	5 3/4
8"x5"x5" _____	54.10		53.4		5	5 3/4	5 3/4
8"x5"x4" _____	54.10		51.8		5	5 3/4	6 1/4
8"x4"x8" _____	54.10		57.4		5	5 3/4	5
8"x4"x6" _____	54.10		54.4		5	5 3/4	5 3/4
8"x4"x5" _____	54.10		51.8		5	5 3/4	5 3/4
8"x4"x4" _____	54.10		50.2		5	5 3/4	6 1/4
10" _____	108.60		127.2	6			
10"x10"x 8" _____	108.60		118.0		6	6	6 3/4
10"x10"x 6" _____	108.60		115.2		6	6	6 3/4
10"x10"x 5" _____	108.60		112.5		6	6	7 1/4
10"x10"x 4" _____	108.60		111.8		6	6	7 1/2
10"x 8"x10" _____	108.60		118.0		6	6 3/4	6
10"x 8"x 8" _____	108.60		109.3		6	6 3/4	6 3/4
10"x 8"x 6" _____	108.60		106.0		6	6 3/4	6 3/4
10"x 8"x 5" _____	108.60		103.4		6	6 3/4	7 1/4
10"x 8"x 4" _____	108.60		102.1		6	6 3/4	7 1/2
10"x 6"x10" _____	108.60		115.0		6	6 3/4	6
10"x 6"x 8" _____	108.60		106.0		6	6 3/4	6 3/4
10"x 6"x 6" _____	108.60		103.5		6	6 3/4	6 3/4
10"x 6"x 5" _____	108.60		101.7		6	6 3/4	7 1/4
10"x 6"x 4" _____	108.60		100.2		6	6 3/4	7 1/2
10"x 5"x10" _____	108.60		112.5		6	7 1/4	6
10"x 5"x 8" _____	108.60		104.7		6	7 1/4	6 3/4
10"x 5"x 6" _____	108.60		101.6		6	7 1/4	6 3/4
10"x 5"x 5" _____	108.60		98.8		6	7 1/4	7 1/4
10"x 5"x 4" _____	108.60		97.4		6	7 1/4	7 1/2
10"x 4"x10" _____	108.60		111.8		6	7 1/2	6
10"x 4"x 8" _____	108.60		103.0		6	7 1/2	6 3/4
10"x 4"x 6" _____	108.60		100.2		6	7 1/2	6 3/4
10"x 4"x 5" _____	108.60		97.5		6	7 1/2	7 1/4
10"x 4"x 4" _____	108.60		96.0		6	7 1/2	7 1/2
12" _____	148.00		207.0	7			
12"x12"x10" _____	148.00		189.9		7	7	7 3/4
12"x12"x 8" _____	148.00		181.2		7	7	7 3/4
12"x12"x 6" _____	148.00		178.5		7	7	8 1/4
12"x12"x 5" _____	148.00		176.0		7	7	8 1/2
12"x12"x 4" _____	148.00		174.4		7	7	8 3/4
12"x10"x12" _____	148.00		189.9		7	7 3/4	7
12"x10"x10" _____	148.00		180.2		7	7 3/4	7 3/4
12"x10"x 8" _____	148.00		174.5		7	7 3/4	7 3/4
12"x10"x 6" _____	148.00		171.5		7	7 3/4	8 1/4
12"x10"x 5" _____	148.00		168.9		7	7 3/4	8 1/2
12"x10"x 4" _____	148.00		167.3		7	7 3/4	8 3/4

711 — TEES

(Continued)

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H	Dim. X	Dim. Y	Dim. Z
12"x 8"x12" _____	\$148.00		181.2		7	7 3/4	7
12"x 8"x10" _____	148.00		172.6		7	7 3/4	7 3/4
12"x 8"x 8" _____	148.00		166.2		7	7 3/4	7 3/4
12"x 8"x 6" _____	148.00		163.2		7	7 3/4	8 1/4
12"x 8"x 5" _____	148.00		160.6		7	7 3/4	8 1/2
12"x 8"x 4" _____	148.00		159.0		7	7 3/4	8 3/4
12"x 6"x12" _____	148.00		178.5		7	8 1/4	7
12"x 6"x10" _____	148.00		169.8		7	8 1/4	7 3/4
12"x 6"x 8" _____	148.00		163.7		7	8 1/4	7 3/4
12"x 6"x 6" _____	148.00		160.7		7	8 1/4	8 1/4
12"x 6"x 5" _____	148.00		158.1		7	8 1/4	8 1/2
12"x 6"x 4" _____	148.00		156.5		7	8 1/2	8 3/4
12"x 5"x12" _____	148.00		176.0		7	8 3/4	7
12"x 5"x10" _____	148.00		167.2		7	8 3/4	7 3/4
12"x 5"x 8" _____	148.00		161.3		7	8 3/4	7 3/4
12"x 5"x 6" _____	148.00		158.4		7	8 3/4	8 1/4
12"x 5"x 5" _____	148.00		155.8		7	8 3/4	8 1/2
12"x 5"x 4" _____	148.00		154.2		7	8 3/4	8 3/4
12"x 4"x12" _____	148.00		174.4		7	9 1/4	7
12"x 4"x10" _____	148.00		165.5		7	9 1/4	7 3/4
12"x 4"x 8" _____	148.00		159.4		7	9 1/4	7 3/4
12"x 4"x 6" _____	148.00		156.6		7	9 1/4	8 1/4
12"x 4"x 5" _____	148.00		154.0		7	9 1/4	8 1/2
12"x 4"x 4" _____	148.00		152.4		7	9 1/4	8 3/4



* 710-3 — TEES

N.P.T.I. to N.P.T.I. to Copper

* 710-4 — TEES

N.P.T.E. to N.P.T.E. to Copper

* 710-3-4 — TEES

N.P.T.E. to N.P.T.I. to Copper

* 712-3 — TEES

Copper to N.P.T.I. to N.P.T.I.

* 714-4 — TEES

Copper to N.P.T.I. to N.P.T.E.

* 713-4 — TEES

Copper to N.P.T.E. to N.P.T.E.

* 715-3 — TEES

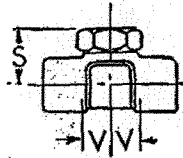
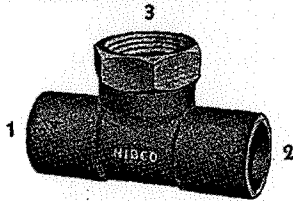
Copper to N.P.T.E. to N.P.T.I.

* These items of Tees with two N.P.T. ends available in straight sizes and some reducing sizes. Dimensional information will be forwarded upon request. Production at factory option. List prices are the same as those on Figure No. 712 plus 25%.

CAST SOLDER FITTINGS

By NIBCO

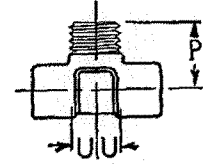
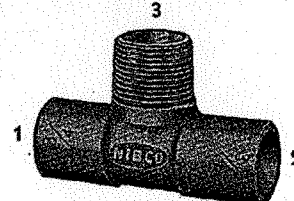
Sizes shown are nominal sizes (actual O.D. 1/8" larger) except thread sizes which are standard pipe sizes.



712 — TEES

Copper to Copper to N. P. T. I.

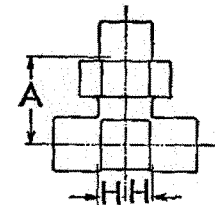
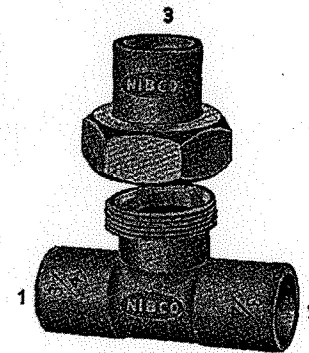
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. S	Dim. V
1/8"	.23	250M	.10	3/8"	1/8"
1/4"	.23	250M	.19	1	1/2"
3/8"	.30	150M	.12	1 1/8"	3/8"
3/8" x 3/8" x 1/2"	.40	100M	.15	1 1/8"	3/8"
1/2"	.40	100M	.17	7/8"	3/8"
1/2" x 1/2" x 3/4"	.60	40M	.23	1 1/8"	1 1/8"
1/2" x 1/2" x 3/8"	.40	100M	.155	1 1/8"	1/2"
3/4"	.60	40M	.30	1	1 1/8"
3/4" x 3/4" x 1"	1.00	50L	.35	1 3/8"	3/4"
3/4" x 3/4" x 1/2"	.60	40M	.25	1 1/8"	3/8"
3/4" x 3/4" x 3/8"	.60	40M	.23	7/8"	1/2"
3/4" x 1/2" x 3/4"	.60	40M	.26	1 1/8"	1 1/8"
3/4" x 1/2" x 1/2"	.60	40M	.23	1 1/8"	3/8"
1"	1.00	50L	.54	1 1/4"	3/4"
1" x 1" x 3/4"	1.00	50L	.45	1 3/8"	1 1/8"
1" x 1" x 1/2"	1.00	50L	.36	1 1/8"	3/8"
1" x 1" x 3/8"	1.00	50L	.36	1 1/8"	1/2"
1" x 3/4" x 1"	1.00	50L	.47	1 1/4"	3/4"
1" x 3/4" x 3/4"	1.00	50L	.37	1 3/8"	1 1/8"
1" x 3/4" x 1/2"	1.00	50L	.28	1 1/8"	3/8"
1 1/4"	1.15	25L	.79	1 7/8"	1
1 1/4" x 1 1/4" x 1"	1.15	25L	.71	1 7/8"	3/4"
1 1/4" x 1 1/4" x 3/4"	1.15	25L	.63	1 7/8"	1 1/8"
1 1/4" x 1 1/4" x 1/2"	1.15	25L	.53	1 1/4"	3/8"
1 1/4" x 1 1/4" x 3/8"	1.15	25L	.42	1 3/8"	1/2"
1 1/2"	1.65	25L	1.14	1 3/8"	1 1/8"
1 1/2" x 1 1/2" x 1 1/4"	1.65	25L	.96	1 1/2"	1
1 1/2" x 1 1/2" x 1"	1.65	25L	.80	1 1/2"	1 1/8"
1 1/2" x 1 1/2" x 3/4"	1.65	25L	.72	1 1/8"	1 1/8"
1 1/2" x 1 1/2" x 1/2"	1.65	25L	.61	1 3/8"	3/8"
2"	2.30		1.97	1 7/8"	1 3/8"
2" x 2" x 1 1/2"	2.30		1.53	1 7/8"	1 1/8"
2" x 2" x 1 1/4"	2.30		1.35	1	1 1/8"
2" x 2" x 1"	2.30		1.21	1 3/4"	1 1/8"
2" x 2" x 3/4"	2.30		1.13	1 1/8"	1 1/8"
2" x 2" x 1/2"	2.30		1.05	1 3/8"	3/8"
2 1/2"	3.80		4.69	2 1/8"	1 3/8"
3"	4.85		6.37	3 3/8"	1 3/8"
3 1/2"	7.60		8.76	4 3/8"	2 3/8"
4"	9.40		11.75	4 3/8"	2 3/8"
5"	22.05		26	5 3/4"	3 3/4"
6"	37.10		41	6	3 3/4"
8"	54.10		70	7 7/8"	4 3/4"
10"	108.60		153.0	8 3/4"	6
12"	148.00		249.7	10 3/4"	6 1/8"



713 — TEES

Copper to Copper to N. P. T. E.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. P	Dim. U
1/8"	.23	250M	.09	3/8"	1/8"
1/4"	.23	250M	.17	1	1/2"
3/8"	.30	150M	.11	1	3/8"
1/2"	.40	100M	.15	1 1/8"	3/8"
3/4"	.60	40M	.32	1 7/8"	3/8"
1"	1.00	50L	.52	1 1/8"	3/8"
1 1/4"	1.15	25L	.76	2	3/4"
1 1/2"	1.65	25L	1.08	2 1/8"	1
2"	2.30		2.16	2 1/8"	1 3/8"
2 1/2"	3.80		3.60	3 3/8"	1 3/8"
3"	4.85		5.44	3 3/8"	1 3/8"
3 1/2"	7.60		7.27	4 1/8"	2 3/8"
4"	9.40		10.15	4 3/8"	2 3/8"
5"	22.05		24	5 3/8"	3 3/4"
6"	37.10		39	7	3 3/4"
8"	54.10		65	8 1/4"	4 3/8"
10"	108.60		144.5	9 3/8"	6
12"	148.00		230.0	11 1/4"	6 1/8"



711-6 — UNION TEE

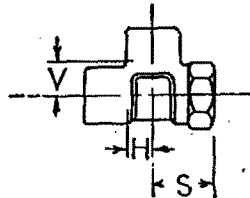
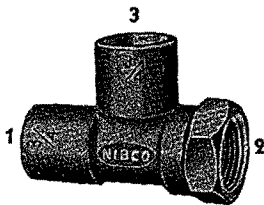
Copper to Copper to Copper Union

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. H
1/2"	\$1.60	50M	.58	1 3/8"	1/2"
3/4"	2.30	50L	.92	1 3/4"	3/4"
1"	2.95	25L	1.34	1 7/8"	1 1/8"

CAST SOLDER FITTINGS

By NIBCO

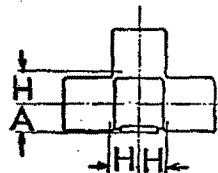
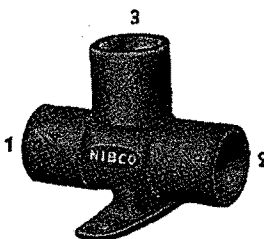
Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.



714 — TEE

Copper to N. P. T. I. to Copper

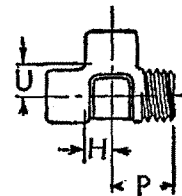
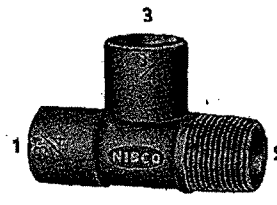
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H	Dim. S	Dim. V
$\frac{1}{8}$ "	.23	250M	.07	$\frac{1}{8}$	$\frac{7}{8}$	$\frac{1}{8}$
$\frac{1}{4}$ "	.23	250M	.19	$\frac{1}{2}$	1	$\frac{1}{2}$
$\frac{3}{8}$ "	.30	150M	.12	$\frac{1}{8}$	$\frac{11}{8}$	$\frac{1}{8}$
$\frac{1}{2}$ "	.40	100M	.18	$\frac{1}{8}$	$\frac{7}{8}$	$\frac{1}{8}$
$\frac{1}{2}$ " x $\frac{3}{8}$ " x $\frac{1}{2}$ "	.40	100M	.22	$\frac{1}{8}$	$\frac{33}{8}$	$\frac{3}{8}$
$\frac{3}{4}$ "	.60	40M	.30	$\frac{1}{8}$	1	$\frac{11}{8}$
$\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{1}{2}$ "	.60	40M	.25	$\frac{1}{8}$	$\frac{33}{8}$	$\frac{33}{8}$
$\frac{3}{4}$ " x $\frac{1}{2}$ " x $\frac{3}{4}$ "	.60	40M	.26	$\frac{1}{8}$	$\frac{11}{8}$	$\frac{9}{8}$
$\frac{3}{4}$ " x $\frac{1}{2}$ " x $\frac{1}{2}$ "	.60	40M	.23	$\frac{1}{8}$	$\frac{7}{8}$	$\frac{1}{8}$
1"	1.00	50L	.54	$\frac{33}{8}$	$1\frac{1}{4}$	$\frac{11}{8}$
1" x $\frac{3}{4}$ " x 1"	1.00	50L	.47	$\frac{11}{8}$	$\frac{11}{8}$	$\frac{11}{8}$
1" x $\frac{1}{2}$ " x 1"	1.00	50L	.42	$\frac{33}{8}$	$\frac{11}{8}$	$\frac{3}{4}$
$1\frac{1}{4}$ "	1.15	25L	.74	$\frac{7}{8}$	$1\frac{1}{2}$	1
$1\frac{1}{2}$ "	1.65	25L	1.03	1	$1\frac{1}{8}$	$1\frac{1}{8}$
2"	2.30		1.88	$1\frac{1}{4}$	$1\frac{7}{8}$	$1\frac{1}{8}$
$2\frac{1}{2}$ "	3.80		4.37	$7\frac{7}{8}$	$2\frac{11}{8}$	$1\frac{1}{8}$
3"	4.85		6.25	$1\frac{1}{8}$	$3\frac{5}{8}$	$1\frac{1}{8}$
$3\frac{1}{2}$ "	7.60		8.70	$2\frac{1}{8}$	$4\frac{3}{8}$	$2\frac{1}{8}$
4"	9.40		11.46	$2\frac{3}{8}$	$4\frac{1}{8}$	$2\frac{3}{8}$
5"	22.05		22.69	$\frac{3}{4}$	$5\frac{1}{4}$	$3\frac{1}{4}$
6"	37.10		40.00	$3\frac{3}{4}$	6	$3\frac{3}{4}$
8"	54.10		68.00	$4\frac{7}{8}$	$7\frac{1}{8}$	$4\frac{7}{8}$
10"	108.60		153.0	6	$8\frac{3}{4}$	6
12"	148.00		249.7	$6\frac{1}{8}$	$10\frac{1}{4}$	$6\frac{1}{8}$



711-5 — DROP EAR TEES

Copper to Copper to Copper

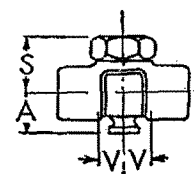
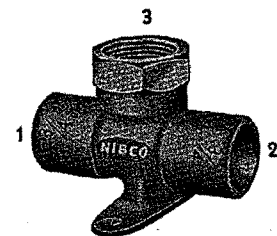
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. H
$\frac{3}{8}$ "	.45	150M	.18	$\frac{9}{8}$	$\frac{3}{8}$
$\frac{1}{2}$ "	.60	100M	.18	$\frac{3}{4}$	$\frac{1}{8}$
$\frac{3}{4}$ "	1.00	40M	.56	$\frac{11}{8}$	$\frac{5}{8}$



715 — TEES

Copper to N. P. T. E. to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H	Dim. P	Dim. U
$\frac{1}{8}$ "	.23	250M	.09	$\frac{1}{8}$	$\frac{7}{8}$	$\frac{1}{8}$
$\frac{1}{4}$ "	.23	250M	.18	$\frac{1}{2}$	1	$\frac{1}{2}$
$\frac{3}{8}$ "	.30	150M	.15	$\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$
$\frac{1}{2}$ "	.40	100M	.155	$\frac{1}{8}$	$\frac{11}{8}$	$\frac{1}{8}$
$\frac{3}{4}$ "	.60	40M	.32	$\frac{1}{8}$	$1\frac{1}{2}$	$\frac{1}{8}$
1"	1.00	50L	.52	$\frac{33}{8}$	$1\frac{3}{8}$	$\frac{33}{8}$
$1\frac{1}{4}$ "	1.15	25L	1.02	$\frac{11}{8}$	2	$\frac{11}{8}$
$1\frac{1}{2}$ "	1.65	25L	1.38	$1\frac{1}{8}$	$2\frac{1}{8}$	$1\frac{1}{8}$
2"	2.30		2.05	$1\frac{3}{8}$	$2\frac{3}{8}$	$1\frac{3}{8}$
$2\frac{1}{2}$ "	3.80		3.59	$1\frac{1}{8}$	$3\frac{1}{8}$	$1\frac{1}{8}$
3"	4.85		5.41	$1\frac{7}{8}$	$3\frac{3}{8}$	$1\frac{7}{8}$
$3\frac{1}{2}$ "	7.60		7.35	$2\frac{1}{8}$	$4\frac{1}{8}$	$2\frac{1}{8}$
4"	9.40		9.84	$2\frac{3}{8}$	$4\frac{1}{2}$	$2\frac{3}{8}$
5"	22.05		24.00	$3\frac{1}{4}$	$5\frac{1}{8}$	$3\frac{1}{4}$
6"	37.10		39.00	$3\frac{3}{4}$	7	$3\frac{3}{4}$
8"	54.10		65.00	$4\frac{7}{8}$	$8\frac{3}{4}$	$4\frac{7}{8}$
10"	108.60		144.5	6	$9\frac{3}{4}$	6
12"	148.00		230.0	$6\frac{1}{8}$	$11\frac{1}{4}$	$6\frac{1}{8}$



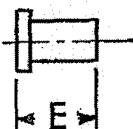
712-5 — DROP EAR TEES

Copper to Copper to N. P. T. I.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. S	Dim. V
$\frac{3}{8}$ "	.45	150M	.13	$\frac{11}{8}$	$\frac{11}{8}$	$\frac{1}{8}$
$\frac{3}{8}$ " x $\frac{3}{8}$ " x $\frac{1}{2}$ "	.60	100M	.19	$\frac{11}{8}$	$\frac{11}{8}$	$\frac{1}{8}$
$\frac{1}{2}$ "	.60	100M	.22	$\frac{3}{4}$	$\frac{7}{8}$	$\frac{1}{8}$
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{3}{8}$ "	.60	100M	.17	$\frac{3}{4}$	$\frac{11}{8}$	$\frac{1}{2}$
$\frac{3}{4}$ "	1.00	40M	.39	$\frac{11}{8}$	1	$\frac{11}{8}$

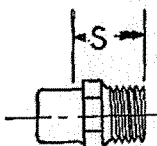
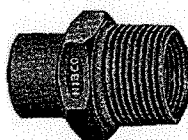
CAST SOLDER FITTINGS

By NIBCO

 Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.


716—FITTING END PLUGS

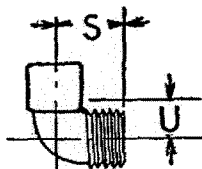
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. E
$\frac{1}{4}$ "	.15	500M	.017	$\frac{1}{16}$
$\frac{3}{8}$ "	.15	500M	.005	$\frac{1}{8}$
$\frac{1}{2}$ "	.18	250M	.01	$\frac{3}{16}$
$\frac{3}{4}$ "	.27	100M	.05	$\frac{1}{2}$
1"	.46	50M	.09	$\frac{1}{2}$
$1\frac{1}{4}$ "	.76	50L	.36	$1\frac{1}{8}$
$1\frac{1}{2}$ "	1.05	50L	.50	$1\frac{1}{2}$
2"	1.50	25L	.80	$1\frac{3}{4}$
$2\frac{1}{2}$ "	2.60		1.50	$2\frac{1}{4}$
3"	3.40		2.13	$2\frac{1}{4}$
$3\frac{1}{2}$ "	5.30		3.30	$2\frac{3}{4}$
4"	5.80		3.63	$2\frac{1}{2}$
5"	14.45		8.2	$3\frac{1}{4}$
6"	19.00		14.0	$3\frac{1}{2}$



720—RANGE BOILER COUPLINGS

Copper to N. P. T. E. to N. P. T. I.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. S
$\frac{1}{2}$ " x 1" x $\frac{1}{2}$ "	.53	50M	.41	$1\frac{3}{16}$
$\frac{1}{2}$ " x 1" x $\frac{3}{4}$ "	.53	50M	.37	1
$\frac{3}{4}$ " x 1" x $\frac{1}{2}$ "	.53	50M	.35	1
$\frac{3}{4}$ " x 1" x $\frac{3}{4}$ "	.53	50M	.38	1
1" x 1" x $\frac{1}{2}$ "	.53	50M	.44	1
1" x 1" x $\frac{3}{4}$ "	.53	50M	.39	1
1" x $1\frac{1}{4}$ " x 1"	.76	50L	.50	$1\frac{1}{8}$



721—RANGE BOILER 90 DEG. ELBOWS

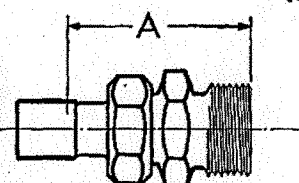
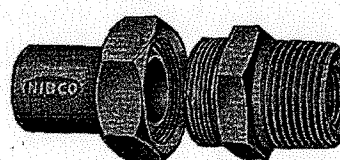
Copper to N. P. T. E. to N. P. T. I.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. S	Dim. U
$\frac{1}{2}$ " x 1" x $\frac{1}{2}$ "	.61	50L	.35	1%	1
$\frac{1}{2}$ " x 1" x $\frac{3}{4}$ "	.61	50L	.30	1%	1
$\frac{3}{4}$ " x 1" x $\frac{1}{2}$ "	.61	50L	.50	$1\frac{1}{2}$	%
$\frac{3}{4}$ " x 1" x $\frac{3}{4}$ "	.61	50L	.35	$1\frac{1}{2}$	%
1" x 1" x $\frac{1}{2}$ "	.61	50L	.60	$1\frac{3}{4}$	%
1" x 1" x $\frac{3}{4}$ "	.61	50L	.62	1%	%



717—TUBE END CAPS

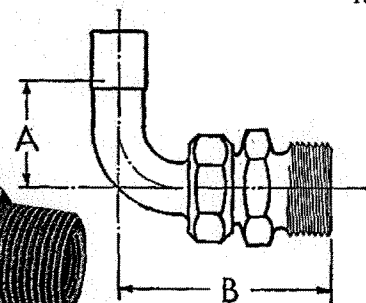
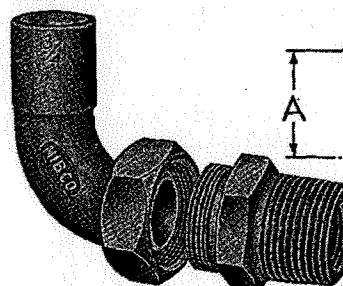
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. E
$\frac{1}{8}$ "	.15	500M	.002	$\frac{3}{16}$
$\frac{1}{4}$ "	.15	500M	.002	$\frac{1}{4}$
$\frac{3}{8}$ "	.15	500M	.005	$\frac{3}{8}$
$\frac{1}{2}$ "	.18	250M	.015	$\frac{3}{8}$
$\frac{3}{4}$ "	.27	100M	.04	$\frac{1}{2}$
1"	.46	50M	.07	1
$1\frac{1}{4}$ "	.76	50L	.39	$1\frac{1}{8}$
$1\frac{1}{2}$ "	1.05	50L	.49	$1\frac{1}{2}$
2"	1.50	25L	.76	$1\frac{3}{4}$
$2\frac{1}{2}$ "	2.60		1.42	$2\frac{1}{8}$
3"	3.40		1.97	$2\frac{1}{4}$
$3\frac{1}{2}$ "	5.30		3.18	$2\frac{3}{4}$
4"	5.80		3.67	$2\frac{1}{2}$
5"	14.45		5.8	$3\frac{1}{8}$
6"	19.00		13.4	$3\frac{3}{8}$
8"	27.35		19.00	$3\frac{1}{2}$
10"	35.70		25.1	$4\frac{1}{8}$



720-6—UNION RANGE BOILER COUPLINGS

Copper to N. P. T. E. to N. P. T. I.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A
$\frac{1}{2}$ " x 1" x $\frac{1}{2}$ "	\$1.30	25M	.69	$2\frac{5}{8}$
$\frac{1}{2}$ " x 1" x $\frac{3}{4}$ "	1.30	25M	.66	$2\frac{5}{8}$
$\frac{3}{4}$ " x 1" x $\frac{1}{2}$ "	1.30	25M	.95	$2\frac{1}{8}$
$\frac{3}{4}$ " x 1" x $\frac{3}{4}$ "	1.30	25M	.81	$2\frac{1}{8}$



721-6—UNION RANGE BOILER 90 DEG. ELBOWS

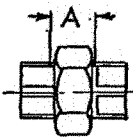
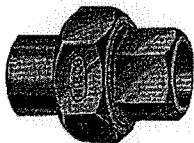
Copper to N. P. T. E. to N. P. T. I.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. B
$\frac{1}{2}$ " x 1" x $\frac{1}{2}$ "	\$1.65	25M	.75	$1\frac{1}{2}$	3
$\frac{1}{2}$ " x 1" x $\frac{3}{4}$ "	1.65	25M	.60	$1\frac{1}{2}$	3
$\frac{3}{4}$ " x 1" x $\frac{1}{2}$ "	1.65	25M	1.20	$1\frac{3}{8}$	$3\frac{3}{8}$
$\frac{3}{4}$ " x 1" x $\frac{3}{4}$ "	1.65	25M	1	$1\frac{3}{8}$	$3\frac{3}{8}$

CAST SOLDER FITTINGS

By NIBCO

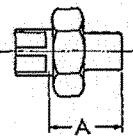
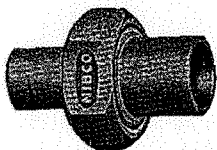
Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.



733 — UNIONS

Copper to Copper

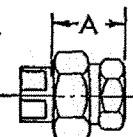
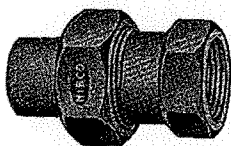
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A
$\frac{1}{4}$ "	\$.76	100S	.23	$\frac{3}{8}$ "
$\frac{3}{8}$ "	.76	150M	.125	$\frac{1}{2}$ "
$\frac{1}{2}$ "	.91	75M	.215	$\frac{3}{4}$ "
$\frac{5}{8}$ "	1.15	35M	.71	$\frac{3}{4}$ "
$\frac{3}{4}$ "	1.30	35M	.30	$\frac{3}{4}$ "
1"	1.65	50L	.85	$\frac{3}{4}$ "
1 $\frac{1}{4}$ "	2.30	25L	1.29	$\frac{3}{4}$ "
1 $\frac{1}{2}$ "	3.35	25L	1.66	$\frac{3}{4}$ "
2"	4.20		2.81	1 $\frac{1}{2}$ "
2 $\frac{1}{2}$ "	8.35		4.90	1 $\frac{3}{4}$ "
3"	14.45		7.38	1 $\frac{3}{4}$ "



733-2 — UNIONS

Copper to Fitting

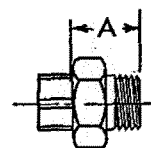
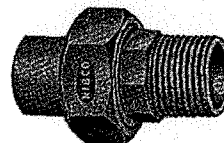
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A
$\frac{3}{4}$ "	\$1.50	35M	.49	$\frac{3}{4}$ "
1"	2.20	50L	1.04	$\frac{3}{4}$ "



733-3 — UNIONS

Copper to N. P. T. I.

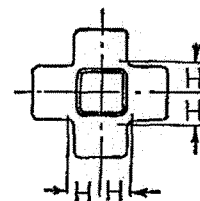
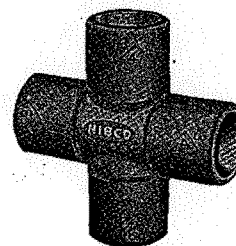
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A
$\frac{1}{4}$ "	\$.91	100S	.22	$\frac{3}{8}$ "
$\frac{3}{8}$ "	1.05	150M	.26	$\frac{1}{2}$ "
$\frac{1}{2}$ "	1.30	75M	.47	$\frac{3}{4}$ "
$\frac{3}{4}$ "	1.50	35M	.70	1"
1"	2.20	50L	1.05	1 $\frac{1}{4}$ "
1 $\frac{1}{4}$ "	3.50	25L	1.45	1 $\frac{3}{8}$ "
1 $\frac{1}{2}$ "	4.05	25L	1.91	2"
2"	5.70		3.09	2 $\frac{1}{2}$ "
2 $\frac{1}{2}$ "	11.00		5.15	2 $\frac{3}{4}$ "
3"	19.45		7.77	3"



733-4 — UNIONS

Copper to N. P. T. E.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A
$\frac{1}{4}$ "	\$.91	100S	.24	1 $\frac{1}{8}$ "
$\frac{3}{8}$ "	1.05	150M	.25	1 $\frac{1}{8}$ "
$\frac{1}{2}$ "	1.30	75M	.43	1 $\frac{1}{8}$ "
$\frac{3}{4}$ "	1.50	35M	.63	1 $\frac{1}{8}$ "
1"	2.20	50L	1.02	1 $\frac{3}{8}$ "
1 $\frac{1}{4}$ "	3.50	25L	1.39	2 $\frac{1}{4}$ "
1 $\frac{1}{2}$ "	4.05	25L	1.79	2 $\frac{3}{8}$ "
2"	5.70		3.01	2 $\frac{3}{8}$ "
2 $\frac{1}{2}$ "	11.00		5.00	3 $\frac{3}{4}$ "
3"	19.45		7.65	3 $\frac{3}{4}$ "



735 — CROSSES

Copper to Copper to Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H
$\frac{1}{4}$ "	\$.38	100M	.10	$\frac{1}{4}$ "
$\frac{3}{8}$ "	.38	100M	.085	$\frac{1}{8}$ "
$\frac{1}{2}$ "	.46	100M	.165	$\frac{7}{8}$ "
$\frac{3}{4}$ "	.76	50L	.32	$\frac{7}{8}$ "
1"	1.15		.65	$\frac{3}{4}$ "
1 $\frac{1}{4}$ "	1.80		.74	$\frac{7}{8}$ "
1 $\frac{1}{2}$ "	2.50		2.00	1"
2"	3.35		2.11	1 $\frac{1}{4}$ "
2 $\frac{1}{2}$ "	6.45		4.50	1 $\frac{3}{4}$ "
3"	8.35		6.94	1 $\frac{3}{4}$ "
3 $\frac{1}{2}$ "	11.40		8.50	2 $\frac{1}{4}$ "
4"	14.15		12.00	2 $\frac{3}{4}$ "
5"	34.60		30.00	3 $\frac{1}{4}$ "
6"	55.65		55.5	3 $\frac{3}{4}$ "

Note: Variety of reducing sizes available on special order at factory option. — Prices same as 735 plus 25%.

CAST SOLDER FITTINGS

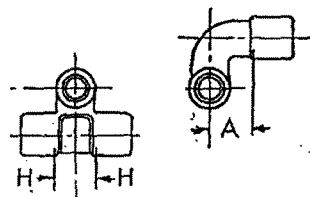
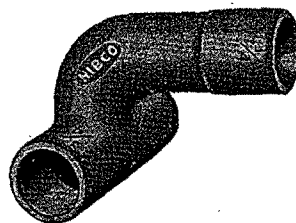
By NIBCO

 Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.


736 — CROSS-OVER COUPLINGS

Copper to Copper

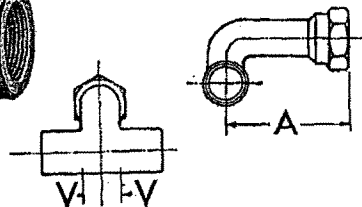
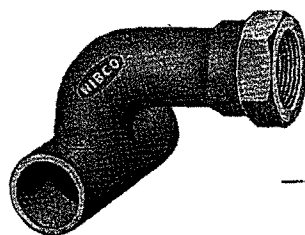
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A
$\frac{1}{2}$ "	\$.61	100L	.255	$1\frac{7}{8}$
$\frac{3}{4}$ "	1.00	50L	.82	$2\frac{3}{8}$
1"	2.00		1.65	$2\frac{5}{8}$



737 — CROSS-OVER TEES

Copper to Copper to Copper

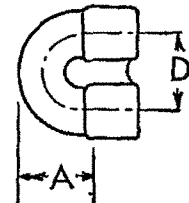
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. H
$\frac{1}{2}$ "	\$.91	50L	.42	$1\frac{1}{8}$	$\frac{7}{8}$
$\frac{3}{4}$ "	1.15	25L	.83	$1\frac{1}{8}$	$\frac{5}{8}$
$1\frac{1}{4}$ "	2.45		1.78	$1\frac{1}{8}$	$\frac{1}{8}$



737-3 — CROSS-OVER TEES

Copper to Copper to N. P. T. L.

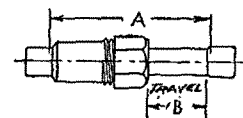
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. V
$\frac{1}{2}$ "	\$.91	50L	.45	$2\frac{5}{8}$	$\frac{7}{8}$
$\frac{3}{4}$ "	1.15	25L	.88	$2\frac{1}{8}$	$\frac{5}{8}$
$1\frac{1}{4}$ "	2.45		1.98	3	$\frac{1}{8}$



739 — RETURN BEND CLOSED

Copper to Copper

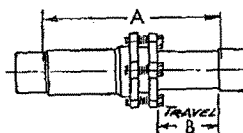
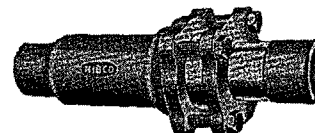
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. D
$\frac{3}{8}$ "	\$.46	100M	.20	$\frac{1}{8}$	1
$\frac{1}{2}$ "	.53	100M	.30	$1\frac{1}{8}$	$1\frac{1}{4}$
$\frac{3}{4}$ "	.91	50L	.64	$1\frac{1}{8}$	$1\frac{1}{2}$
1"	1.35		1.04	$1\frac{1}{8}$	$1\frac{3}{4}$
$1\frac{1}{4}$ "	2.30		1.38	$2\frac{1}{8}$	2
$1\frac{1}{2}$ "	2.65		2.00	$2\frac{1}{8}$	$2\frac{1}{2}$
2"	3.80		2.86	$2\frac{3}{8}$	3
$2\frac{1}{2}$ "	5.30		5.18	$3\frac{1}{8}$	$3\frac{1}{2}$
3"	7.60		6.94	$4\frac{1}{4}$	4



744 — EXPANSION JOINTS (Nut Take-up)

Copper to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B
$\frac{3}{8}$ "	\$2.00	.56	$4\frac{3}{4}$	2
$\frac{1}{2}$ "	2.15	.77	$6\frac{3}{8}$	$2\frac{1}{2}$
$\frac{3}{4}$ "	2.30	1.99	$8\frac{1}{8}$	$3\frac{3}{8}$
1"	4.25	3.06	$7\frac{5}{8}$	$2\frac{1}{8}$
$1\frac{1}{4}$ "	6.60	4.62	$7\frac{1}{8}$	$2\frac{3}{4}$



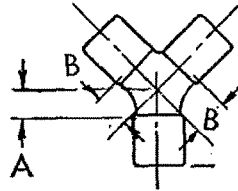
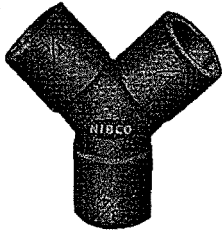
745 — EXPANSION JOINTS (Bolt Take-up)

Copper to Copper

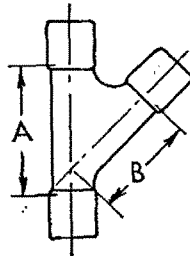
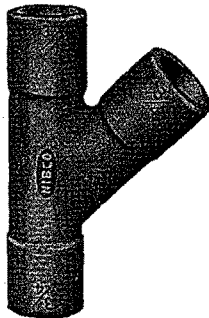
Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B
$1\frac{1}{4}$ "	\$ 7.45	4.50	$7\frac{5}{8}$	$2\frac{3}{4}$
$1\frac{1}{2}$ "	9.40	6.00	$8\frac{1}{8}$	$2\frac{1}{8}$
2"	12.85	8.56	$9\frac{1}{8}$	$2\frac{7}{8}$
$2\frac{1}{2}$ "	18.10	11.50	$9\frac{3}{8}$	$3\frac{1}{8}$
3"	25.25	15.23	$10\frac{1}{2}$	$3\frac{1}{2}$
$3\frac{1}{2}$ "	33.90	23.05	$11\frac{1}{2}$	4
4"	45.15	31.00	$12\frac{3}{4}$	$4\frac{1}{4}$
5"	67.70	41.80	$15\frac{1}{2}$	5
6"	85.80	75.00	$16\frac{1}{8}$	$5\frac{3}{4}$
8"	164.15	114.00	$21\frac{1}{8}$	$7\frac{3}{4}$

CAST SOLDER FITTINGS

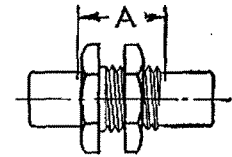
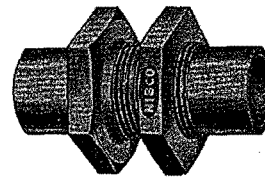
By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.748 — 90° Y-BRANCH
Copper to Copper to Copper

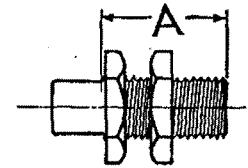
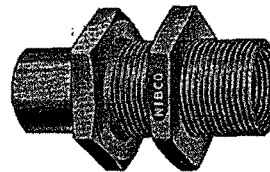
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. B
$\frac{3}{8}$ "	\$.31	100M	.13	$\frac{1}{2}$	$1\frac{1}{2}$
$\frac{1}{2}$ "	.36	100M	.23	$\frac{3}{8}$	$1\frac{3}{8}$
$\frac{3}{4}$ "	.65	50L	.48	$\frac{3}{8}$	$\frac{3}{4}$
1"	1.00		.78	$1\frac{1}{8}$	$3\frac{1}{2}$
$1\frac{1}{4}$ "	1.55		.97	$1\frac{1}{8}$	$1\frac{1}{2}$
$1\frac{1}{2}$ "	2.20		1.49	$1\frac{1}{8}$	$1\frac{5}{8}$
2"	3.05		2.23	1	$1\frac{1}{2}$
$2\frac{1}{2}$ "	5.05		3.76	$1\frac{1}{4}$	2
3"	6.45		5.30	$1\frac{1}{8}$	$2\frac{1}{8}$

749 — 45° Y-BRANCH
Copper to Copper to Copper

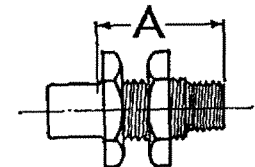
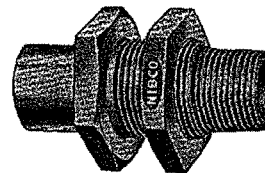
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. B
$\frac{3}{8}$ "	\$.31	100M	.28	$2\frac{1}{8}$	$1\frac{1}{4}$
$\frac{1}{2}$ "	.36	100L	.40	$2\frac{3}{8}$	$1\frac{3}{8}$
$\frac{3}{4}$ "	.65	50L	.76	$2\frac{3}{8}$	$1\frac{1}{8}$
1"	1.00		1.15	$2\frac{1}{2}$	2
$1\frac{1}{4}$ "	1.55		1.43	$3\frac{1}{8}$	$2\frac{1}{8}$
$1\frac{1}{2}$ "	2.20		2.14	$3\frac{1}{8}$	$3\frac{1}{8}$
2"	3.05		3.20	$3\frac{1}{8}$	$2\frac{3}{8}$
$2\frac{1}{2}$ "	5.05		4.18	$5\frac{1}{8}$	$4\frac{1}{8}$
3"	6.45		6.50	$5\frac{1}{4}$	$4\frac{1}{8}$

750 — BULKHEAD FITTINGS
Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A
$\frac{3}{8}$ "	\$.76	100M	.17	$1\frac{1}{8}$
$\frac{1}{2}$ "	.91	75M	.35	$1\frac{1}{8}$
$\frac{3}{4}$ "	1.15	50M	.54	$1\frac{1}{8}$
1"	1.90	25M	.85	$1\frac{3}{8}$
$1\frac{1}{4}$ "	2.80	25L	1.29	$1\frac{1}{2}$
$1\frac{1}{2}$ "	4.35		1.66	$1\frac{3}{8}$
2"	6.60		2.81	$2\frac{1}{8}$

750-3 — BULKHEAD FITTINGS
Copper to N. P. T. I.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A
$\frac{3}{8}$ "	\$.84	100M	.35	$1\frac{1}{8}$
$\frac{1}{2}$ "	1.00	75M	.53	2
$\frac{3}{4}$ "	1.25	50M	.80	$2\frac{1}{8}$
1"	2.10	25M	1.45	$2\frac{1}{8}$
$1\frac{1}{4}$ "	3.10	25L	2.06	$2\frac{1}{8}$
$1\frac{1}{2}$ "	4.80		3.35	$2\frac{1}{8}$
2"	7.25		3.85	$3\frac{1}{8}$

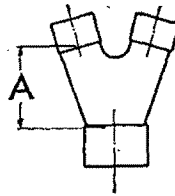
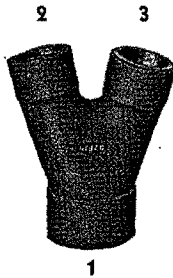
750-4 — BULKHEAD FITTINGS
Copper to N. P. T. E.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A
$\frac{3}{8}$ "	\$.84	100M	.36	$1\frac{1}{8}$
$\frac{1}{2}$ "	1.00	75M	.52	$2\frac{1}{8}$
$\frac{3}{4}$ "	1.25	50M	.75	$2\frac{3}{8}$
1"	2.10	25M	1.36	$2\frac{1}{8}$
$1\frac{1}{4}$ "	3.10	25L	1.95	$2\frac{1}{8}$
$1\frac{1}{2}$ "	4.80		3.26	$2\frac{1}{8}$
2"	7.25		4.07	$3\frac{1}{8}$

CAST SOLDER FITTINGS

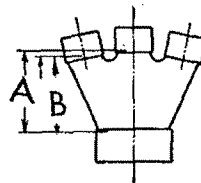
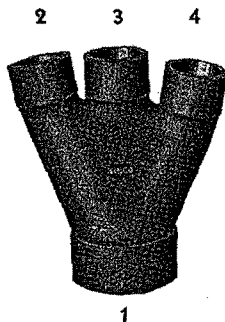
By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.



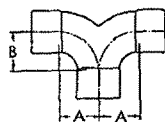
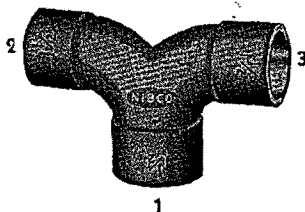
758 — BRANCH CONNECTORS
Copper to Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. B
$1\frac{1}{2}$ " x 1" x 1"	\$1.65	25L	.95	$2\frac{3}{8}$	$2\frac{3}{8}$



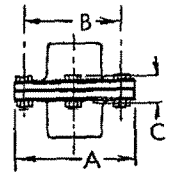
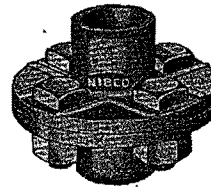
759 — BRANCH CONNECTORS
Copper to Copper to Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. B
2" x 1" x 1" x 1"	\$3.35	25L	2.31	3	$3\frac{3}{8}$



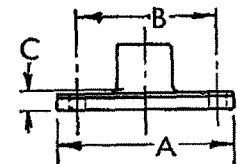
764 — DOUBLE ELBOW TEES
Copper to Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. B
1" x 1" x 1"	\$1.00	50L	1.22	$1\frac{3}{8}$	$1\frac{3}{8}$
$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x $1\frac{1}{4}$ "	1.50	25L	1.36	$1\frac{3}{8}$	$1\frac{3}{8}$
$1\frac{1}{2}$ " x $1\frac{1}{2}$ " x $1\frac{1}{2}$ "	2.30		2.01	$1\frac{3}{8}$	$1\frac{3}{8}$
$1\frac{1}{2}$ " x $1\frac{1}{4}$ " x $1\frac{1}{4}$ "	2.30		1.58	$1\frac{3}{8}$	$1\frac{3}{8}$
2" x 2" x 2"	3.00		3.05	$2\frac{3}{8}$	2 1/4
2" x $1\frac{1}{4}$ " x $1\frac{1}{4}$ "	3.00		1.61	$2\frac{3}{8}$	$2\frac{1}{4}$
4" x 4" x 4"	15.05		15.13	$4\frac{1}{4}$	$4\frac{1}{4}$



740 — FLANGED UNIONS
Copper to Copper (2 parts, bolts not included)

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C
$\frac{1}{2}$ "	\$1.30	.63	2 3/8	1 3/8	$\frac{1}{2}$
$\frac{3}{4}$ "	1.70	.85	$2\frac{1}{2}$	$1\frac{1}{8}$	$\frac{3}{8}$
1"	3.00	1.80	$3\frac{3}{8}$	$2\frac{3}{8}$	$\frac{1}{2}$
$1\frac{1}{4}$ "	3.50	2.12	$4\frac{1}{8}$	$2\frac{3}{8}$	$\frac{1}{2}$
$1\frac{1}{2}$ "	5.30	3.24	$4\frac{1}{8}$	$3\frac{1}{8}$	$\frac{1}{2}$
2"	7.00	4.80	5	$3\frac{1}{8}$	$\frac{1}{2}$
$2\frac{1}{2}$ "	10.95	5.84	$5\frac{1}{8}$	$4\frac{1}{2}$	$\frac{1}{2}$
3"	14.60	6.65	6	$4\frac{7}{8}$	$\frac{1}{2}$
$3\frac{1}{2}$ "	17.35	10.75	$7\frac{1}{8}$	$5\frac{3}{8}$	$\frac{1}{2}$
4"	20.65	11.93	$7\frac{1}{8}$	$6\frac{3}{8}$	$\frac{1}{2}$
5"	26.45	12.55	$9\frac{1}{8}$	$7\frac{3}{8}$	$\frac{3}{4}$
6"	31.90	32.91	$10\frac{1}{8}$	8 3/4	1
8"	58.70	49.0	$12\frac{1}{8}$	$10\frac{1}{8}$	$1\frac{1}{2}$
10"	78.30	83.0	16	$14\frac{1}{4}$	$\frac{3}{4}$
12"	108.20	93.50	19	17	$\frac{3}{4}$



741 — COMPANION FLANGE
A.S.M.E. Standard Drilling
(Bolts not included)

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C
$\frac{1}{2}$ "	\$1.65	.58	$3\frac{1}{2}$	2 3/8	$\frac{1}{2}$
$\frac{3}{4}$ "	1.80	.78	$3\frac{1}{2}$	2 3/8	$\frac{3}{8}$
1"	2.15	1.16	$4\frac{1}{4}$	$3\frac{1}{8}$	$\frac{1}{2}$
$1\frac{1}{4}$ "	2.45	1.26	$4\frac{1}{4}$	$3\frac{1}{8}$	$\frac{1}{2}$
$1\frac{1}{2}$ "	2.65	2.00	5	$3\frac{3}{8}$	$\frac{1}{2}$
2"	3.50	3.14	6	$4\frac{1}{4}$	$\frac{3}{8}$
$2\frac{1}{2}$ "	5.45	4.55	7	$5\frac{1}{2}$	$\frac{1}{2}$
3"	7.30	5.79	$7\frac{1}{2}$	6	$\frac{3}{8}$
$3\frac{1}{2}$ "	8.65	7.68	$8\frac{1}{2}$	7	$\frac{1}{2}$
4"	10.35	8.19	9	$7\frac{1}{2}$	$\frac{3}{8}$
5"	13.20	11.40	10	$8\frac{1}{2}$	$\frac{3}{8}$
6"	15.95	15.00	11	$9\frac{1}{2}$	$\frac{3}{8}$
8"	29.35	24.50	$13\frac{1}{2}$	$11\frac{3}{4}$	$\frac{3}{8}$
10"	39.15	41.50	16	$14\frac{1}{4}$	$\frac{3}{8}$
12"	54.10	46.75	19	17	$\frac{3}{8}$

CAST SOLDER FITTINGS

By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

747 — COMPANION FLANGES

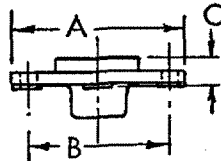
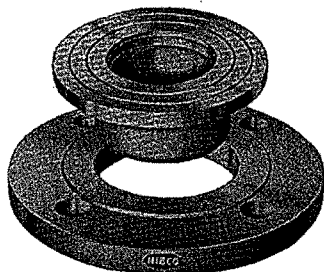
Same as No. 741 except without tube shoulder
A.S.M.E. Standard Drilling. Not illustrated.
Same sizes and prices as No. 741

753 — BLIND COMPANION FLANGES

No Copper Connection
A.S.M.E. Standard Drilling. Not illustrated.
Same prices and sizes as No. 741

754 — BLANK COMPANION FLANGES

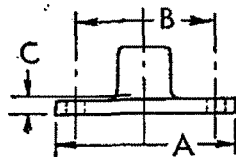
No Bolt Holes
A.S.M.E. Standard Drilling. Not illustrated.
Same sizes and prices as No. 741



742 — COMPANION FLANGE

A.S.M.E. Drilling (Bronze insert, Cast Iron Ring, Bolts not included)

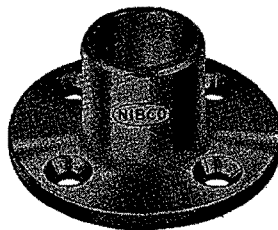
Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C
2½"	\$ 7.00	7.45	7	5½	⅝
3"	7.40	10.01	7½	6	¾
4"	10.20	15.79	9	7½	¾
5"	16.20	20.33	10	8½	¾
6"	18.60	25.62	11	9½	¾
8"	26.00	32.52	13½	11¾	¾
10"	41.00	54.00	16	14¼	¾
12"	64.25	60.00	19	17	½
14"	93.90	78.00	21	18¾	½



743 — FITTING FLANGES

R.P.M. Standard (Bolts not included)

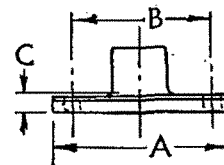
Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C
3"	\$ 6.10	3.70	6	4¾	¾
3½"	6.85	4.65	6½	5¾	⅞
4"	7.60	5.25	7	5¾	¾
5"	10.25	8.10	8	6¾	¾
6"	15.20	12.5	9	7¾	¾
8"	18.25	16.80	11	10	¾
10"	26.60	25.66	14	12¼	¾
12"	40.30	40.75	16	14¼	¾
14"	45.15	60.00	18	16¼	½



746 — RAILING FLANGES

Polished — Not Plated

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B
½"	\$.95	.39	2¼	⅝
¾"	1.25	.52	2½	¾
1"	1.95	.74	2¾	¾
1¼"	2.30	.83	3¼	¾
1½"	3.30	1.16	3¾	¾
2"	4.20	2.02	4½	¾



771 — COMPANION FLANGES

150# M.S.S. Standard (Bolts not included)

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C
½"	\$ 2.30	1.01	3½	2¾	⅝
¾"	2.45	1.38	3¾	2¾	¾
1"	2.65	1.79	4¼	3¾	¾
1¼"	3.15	2.25	4¾	3¾	⅞
1½"	3.25	2.80	5	3½	¾
2"	3.90	4.44	6	4¾	¾
2½"	5.75	6.56	7	5½	⅞
3"	7.70	7.63	7½	6	¾
3½"	9.50	11.76	8½	7	⅞
4"	11.00	13.02	9	7½	¾
5"	16.10	17.63	10	8½	¾
6"	19.65	26.08	11	9½	¾

772 — COMPANION FLANGES

(Not illustrated.)

Same as 771 except without tube shoulder. 150# M.S.S. Standard.
Same prices and sizes as No. 771.

773 — BLIND COMPANION FLANGES

(Not illustrated.)

No Copper Connection. 150# M.S.S. Standard.
Same prices and sizes as No. 771.

774 — BLANK COMPANION FLANGES

(Not illustrated.)

No Bolt Holes. 150# M.S.S. Standard.
Same prices and sizes as No. 771.

NIBCO

FIRST *with Space-Saving Cast Copper Drainage Fittings*

TO NEW SPECIFICATIONS

★ *Take Less Space.* You don't have to cut out so many joists and you get a better, faster job. NIBCO's new design provides close roughing-in radii.

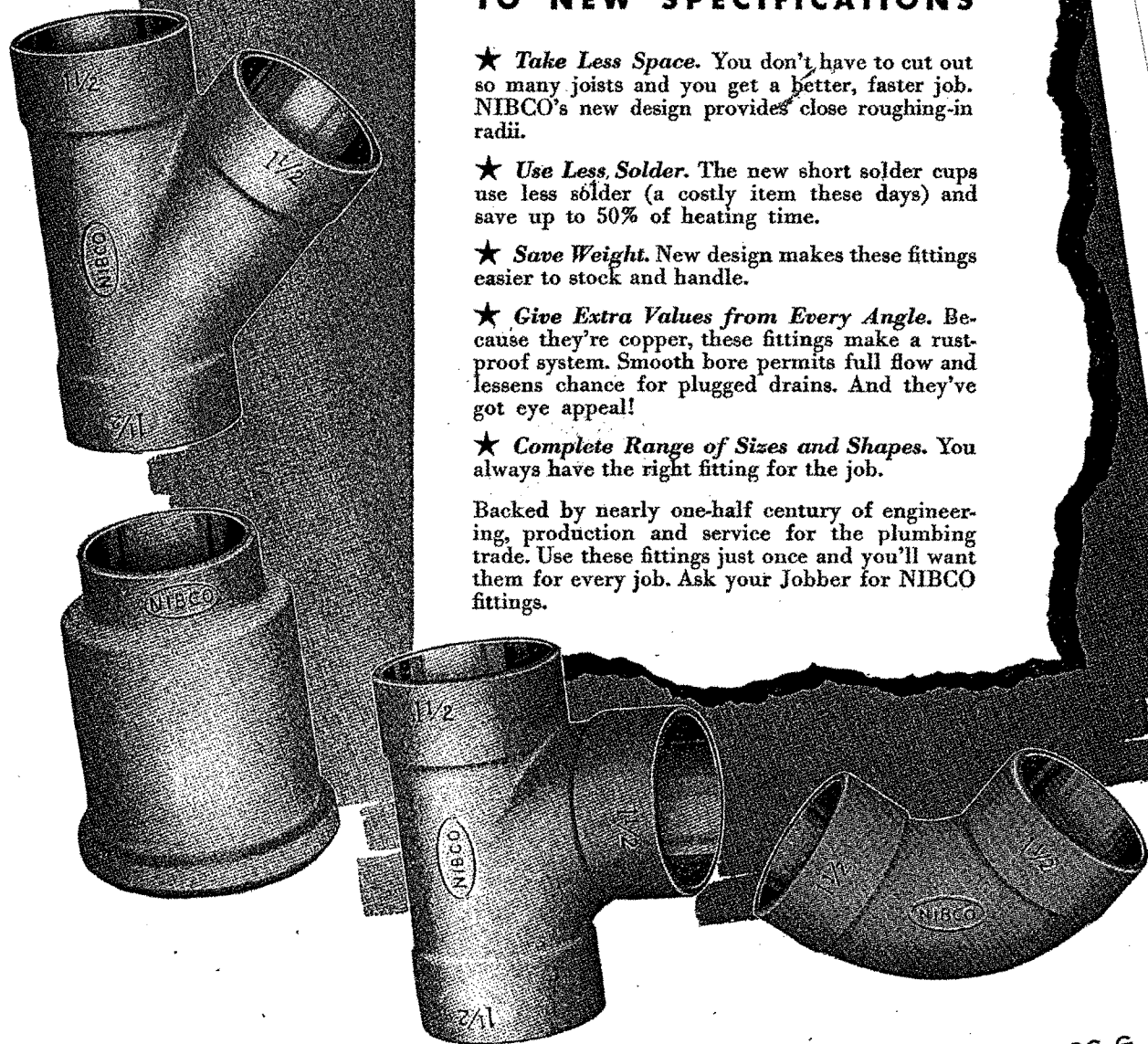
★ *Use Less Solder.* The new short solder cups use less solder (a costly item these days) and save up to 50% of heating time.

★ *Save Weight.* New design makes these fittings easier to stock and handle.

★ *Give Extra Values from Every Angle.* Because they're copper, these fittings make a rust-proof system. Smooth bore permits full flow and lessens chance for plugged drains. And they've got eye appeal!

★ *Complete Range of Sizes and Shapes.* You always have the right fitting for the job.

Backed by nearly one-half century of engineering, production and service for the plumbing trade. Use these fittings just once and you'll want them for every job. Ask your Jobber for NIBCO fittings.



CATALOG G, SECTION 2
NIBCO000042



Section 3

CAST DRAINAGE FITTINGS

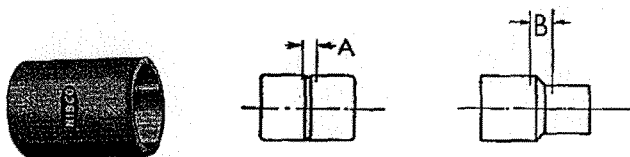
Hospitals, industrials and homes — wherever the highest degree of sanitation and cleanliness is desired — are being equipped with copper drainage systems. Copper assures a life-long installation. Installed in the same manner as other types of solder-joint fittings, space, weight and height can be saved, and the permanently smooth interior of tube and fitting provides a more trouble-free system.

Many new items have been added into the NIBCO Drainage Fitting line presented in the following pages. The great variety of fitting styles in this Section closely parallels those available in soil pipe, making it possible to make a complete copper installation economically. Plumbing codes in most major cities approve copper tube and drainage fittings for soil, waste and vent lines.

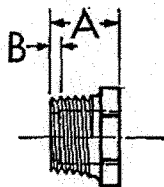


CAST DRAINAGE FITTINGS

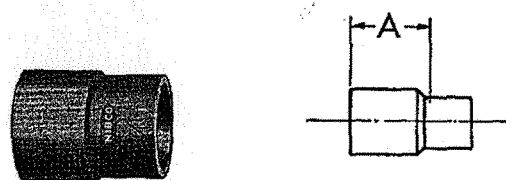
By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.801 — COUPLINGS
Copper to Copper

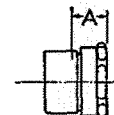
Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B
$1\frac{1}{4}" \times 1\frac{1}{4}"$	\$.76	.25	$\frac{3}{8}$	
$1\frac{1}{2}" \times 1\frac{1}{2}"$	1.05	.35	$\frac{1}{4}$	
$2" \times 2"$	1.50	.68	$\frac{5}{16}$	
$2" \times 1\frac{1}{2}"$	1.50	.63		$\frac{5}{8}$
$2" \times 1\frac{1}{4}"$	1.50	.55		$\frac{1}{2}$
$3" \times 3"$	3.40	2.15	$\frac{3}{4}$	
$3" \times 2"$	3.40	2.00		$\frac{5}{8}$
$3" \times 1\frac{1}{2}"$	3.40	1.98		$\frac{3}{4}$
$3" \times 1\frac{1}{4}"$	3.40	1.95		$1\frac{1}{8}$
$4" \times 4"$	5.80	4.00	$\frac{5}{8}$	
$4" \times 3"$	5.80	3.74		$\frac{3}{4}$
$4" \times 2"$	5.80	3.49		1
$5" \times 5"$	14.45	8.80	$\frac{1}{2}$	
$6" \times 6"$	19.00	14.00	$\frac{5}{8}$	
$6" \times 5"$	19.00	9.80		$\frac{7}{8}$
$8" \times 8"$	27.35	20.00	$\frac{7}{8}$	
$8" \times 6"$	27.35	26.20		$1\frac{1}{8}$

802 — FLUSH ADAPTERS
Copper to N. P. T. E.

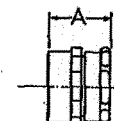
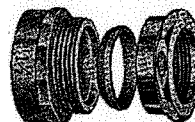
Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B
$1\frac{1}{4}"$	\$.50	.25	$\frac{1}{8}$	$\frac{1}{4}$
$1\frac{1}{2}"$	.65	.32	1	$\frac{1}{4}$
$2"$	.90	.48	$1\frac{1}{8}$	$\frac{1}{4}$

801-2 — FITTING REDUCERS
Fitting to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A
$1\frac{1}{2}" \times 1\frac{1}{4}"$	\$ 1.05	.42	$1\frac{1}{8}$
$2" \times 1\frac{1}{2}"$	1.50	.74	$1\frac{1}{4}$
$2" \times 1\frac{1}{4}"$	1.50	.65	$1\frac{1}{4}$
$3" \times 2"$	3.40	1.70	$2\frac{1}{4}$
$3" \times 1\frac{1}{2}"$	3.40	1.65	$2\frac{3}{8}$
$3" \times 1\frac{1}{4}"$	3.40	1.67	$2\frac{1}{8}$
$4" \times 3"$	5.80	2.84	$2\frac{3}{8}$
$4" \times 2"$	5.80	2.65	$3\frac{1}{8}$
$6" \times 5"$	19.00	13.30	$3\frac{3}{4}$

801-7 — COUPLINGS WITH SLIP JOINT CONNECTIONS
Copper to Slip Joint Connection

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A
$1\frac{1}{4}" \times 1\frac{1}{4}"$ O.D.	\$1.11	.67	$1\frac{5}{8}$
$1\frac{1}{2}" \times 1\frac{1}{2}"$ O.D.	1.51	.87	$1\frac{1}{2}$
$1\frac{1}{2}" \times 1\frac{1}{4}"$ O.D.	1.51	.83	$1\frac{1}{2}$
$2" \times 2"$ O.D.	2.55	1.41	$1\frac{1}{8}$

803-7 — FEMALE ADAPTERS WITH
SLIP JOINT CONNECTIONS
N. P. T. I. to Slip Joint

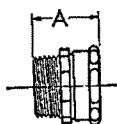
Nominal Size	List Price Each	Approx. Net Wt.	Dim. A
$1\frac{1}{4}" \times 1\frac{1}{4}"$ O.D.	\$1.11	.60	1
$1\frac{1}{2}" \times 1\frac{1}{2}"$ O.D.	1.51	.65	$1\frac{1}{4}$
$2" \times 2"$ O.D.	2.55	1.15	$1\frac{1}{8}$

Drainage Fittings are accurately machined with a pitch of $\frac{1}{4}"$ to the foot.

CAST DRAINAGE FITTINGS

By NIBCO

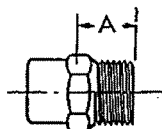
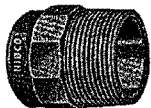
Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.



804-7 — MALE ADAPTERS WITH SLIP JOINT CONNECTIONS

N. P. T. E. to Slip Joint

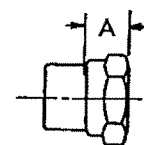
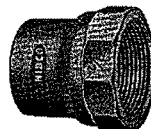
Nominal Size	List Price Each	Approx. Net Wt.	Dim. A
$1\frac{1}{4}" \times 1\frac{1}{4}"$ O.D.	\$1.11	.58	$1\frac{1}{4}$
$1\frac{1}{2}" \times 1\frac{1}{2}"$ O.D.	1.51	.63	$1\frac{3}{8}$
$2" \times 2"$ O.D.	2.55	1.08	$1\frac{1}{2}$



804 — MALE ADAPTERS

Copper to N. P. T. E.

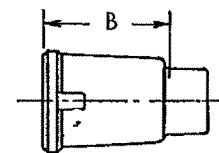
Nominal Size	List Price Each	Approx. Net Wt.	Dim. A
$1\frac{1}{4}" \times 2"$	\$ 1.50	.81	2
$1\frac{1}{4}" \times 1\frac{1}{2}"$	1.05	.56	$1\frac{1}{8}$
$1\frac{1}{4}" \times 1\frac{1}{4}"$	.76	.38	1
$1\frac{1}{2}" \times 2"$	1.50	.89	2
$1\frac{1}{2}" \times 1\frac{1}{2}"$	1.05	.52	1
$1\frac{1}{2}" \times 1\frac{1}{4}"$	1.05	.47	$1\frac{1}{2}$
$2" \times 2\frac{1}{2}"$	2.60	2.03	$2\frac{1}{8}$
$2" \times 2"$	1.50	.87	$1\frac{9}{16}$
$2" \times 1\frac{1}{2}"$	1.50	.74	$1\frac{7}{8}$
$2" \times 1\frac{1}{4}"$	1.50	.86	$1\frac{3}{4}$
$3" \times 3"$	3.40	2.55	$1\frac{7}{8}$
$3" \times 2"$	3.40	2.15	$2\frac{1}{8}$
$4" \times 5"$	14.45	7.30	$3\frac{1}{4}$
$4" \times 4"$	5.80	4.65	$2\frac{1}{8}$
$5" \times 6"$	19.00	13.80	$3\frac{3}{8}$
$5" \times 5"$	14.45	10.00	$3\frac{1}{4}$
$5" \times 4"$	14.45	8.40	$3\frac{1}{4}$
$6" \times 8"$	27.35	20.00	$3\frac{1}{2}$
$6" \times 6"$	19.00	16.80	$3\frac{3}{8}$
$6" \times 5"$	19.00	14.40	$3\frac{1}{4}$
$8" \times 8"$	27.35	23.00	$3\frac{1}{2}$
$8" \times 6"$	27.35	20.50	$3\frac{1}{2}$



803 — FEMALE ADAPTERS

Copper to N. P. T. I.

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A
$1\frac{1}{4}" \times 2"$	\$ 1.50	.97	$1\frac{1}{2}$
$1\frac{1}{4}" \times 1\frac{1}{2}"$	1.05	.50	$1\frac{1}{8}$
$1\frac{1}{4}" \times 1\frac{1}{4}"$	.76	.46	$1\frac{1}{8}$
$1\frac{1}{2}" \times 2"$	1.50	.85	$1\frac{1}{2}$
$1\frac{1}{2}" \times 1\frac{1}{2}"$	1.05	.57	$1\frac{1}{8}$
$1\frac{1}{2}" \times 1\frac{1}{4}"$	1.05	.48	$1\frac{1}{8}$
$2" \times 2\frac{1}{2}"$	2.60	2.03	$1\frac{3}{8}$
$2" \times 2"$	1.50	.92	$1\frac{1}{4}$
$2" \times 1\frac{1}{2}"$	1.50	.78	$1\frac{1}{4}$
$2" \times 1\frac{1}{4}"$	1.50	1.13	$1\frac{3}{8}$
$3" \times 3"$	3.40	3.00	$1\frac{1}{2}$
$3" \times 2"$	3.40	2.60	$1\frac{3}{4}$
$4" \times 5"$	14.45	6.20	$2\frac{1}{8}$
$4" \times 4"$	5.80	4.65	$1\frac{3}{4}$
$5" \times 6"$	19.00	12.00	$1\frac{1}{2}$
$5" \times 5"$	14.45	8.50	$2\frac{1}{8}$
$5" \times 4"$	14.45	6.20	$2\frac{1}{8}$
$6" \times 8"$	27.35	19.00	$2\frac{3}{8}$
$6" \times 6"$	19.00	15.00	$1\frac{1}{2}$
$6" \times 5"$	19.00	11.50	$1\frac{1}{2}$
$8" \times 8"$	27.35	22.00	$2\frac{3}{8}$
$8" \times 6"$	27.35	20.00	$2\frac{3}{8}$



805 — SOIL PIPE ADAPTER

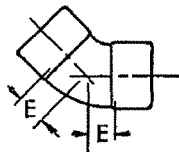
Copper to Soil Pipe

Nominal Size	List Price Each	Approx. Net Wt.	Dim. B
$1\frac{1}{4}" \times 2"$	\$ 1.50	.90	$3\frac{1}{4}$
$1\frac{1}{2}" \times 4"$	5.80	3.71	$4\frac{1}{8}$
$1\frac{1}{2}" \times 3"$	3.40	3.12	$3\frac{3}{4}$
$1\frac{1}{2}" \times 2"$	1.50	1.00	$3\frac{1}{4}$
$2" \times 4"$	5.80	3.70	4
$2" \times 3"$	3.40	2.44	$3\frac{1}{2}$
$2" \times 2"$	1.50	.95	$2\frac{3}{4}$
$3" \times 4"$	5.80	3.22	$4\frac{1}{8}$
$3" \times 3"$	3.40	1.89	$3\frac{1}{8}$
$4" \times 4"$	5.80	4.68	$3\frac{1}{2}$
$5" \times 5"$	18.85	7.98	$4\frac{1}{8}$
$6" \times 6"$	28.25	14.00	$4\frac{1}{2}$

Drainage Fittings are accurately machined with a pitch of $\frac{1}{4}"$ to the foot.

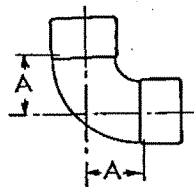
CAST DRAINAGE FITTINGS

By NIBCO

 Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

806 — EIGHTH BEND (45°)

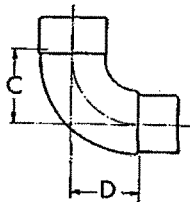
Copper to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. E
1 1/4"	\$.84	.30	3/4"
1 1/2"	1.15	.43	1"
2"	1.65	.98	1 1/8"
3"	3.80	1.99	1 3/8"
4"	6.40	4.30	1 7/8"
5"	15.50	12.20	2 1/8"
6"	25.85	20.40	2 3/8"
8"	43.15	37.00	2"


807 — QUARTER BEND (90°)

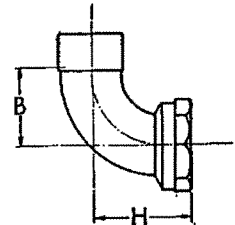
Copper to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A
1 1/4"	\$.84	.44	1 3/8"
1 1/2"	1.15	.56	1 7/8"
2"	1.65	1.04	1 1/2"
3"	3.80	2.38	2 1/8"
4"	6.40	5.97	4 3/8"
5"	15.50	12.00	5 3/8"
6"	25.85	18.5	5 7/8"
8"	43.15	43.5	6 3/4"


807-2 — QUARTER BEND (90°)

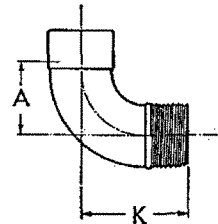
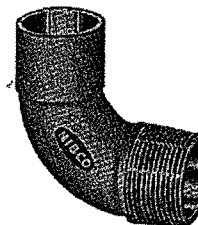
Copper to Fitting

Nominal Size	List Price Each	Approx. Net Wt.	Dim. C	Dim. D
1 1/4"	\$.84	.42	1 1/4"	1 1/4"
1 1/2"	1.15	.64	1 3/8"	1 3/8"
2"	1.65	1.10	1 3/4"	2 1/8"
3"	3.80	2.47	2 3/8"	2 3/8"
4"	6.40	7.84	4 1/8"	4 3/8"


807-3 — QUARTER BEND (90°)

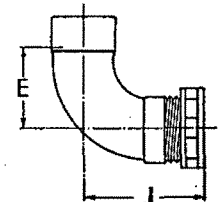
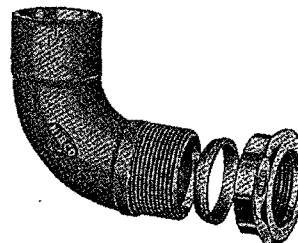
Copper to N. P. T. I.

Nominal Size	List Price Each	Approx. Net Wt.	Dim. B	Dim. H
1 1/4"	\$.84	.54	1 3/8"	1 3/8"
1 1/2"	1.15	1.43	1 1/2"	2 7/8"
2"	1.65	1.96	1 3/4"	2 3/8"
3"	3.80	5.25	3 1/8"	4 3/8"
4"	6.40	9.65	4 1/8"	5 1/8"


807-4 — QUARTER BEND (90°)

Copper to N.P.T.E.

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. K
1 1/4"	\$.84	.60	1 3/8"	2 3/8"
1 1/2"	1.15	1.21	1 1/2"	2 3/8"
2"	1.65	1.78	2 1/8"	3 3/8"
3"	3.80	4.20	3 3/8"	4 1/8"
4"	6.40	8.16	4 1/8"	6 3/8"


807-7 — QUARTER BEND (90°) WITH SLIP JOINT CONNECTION

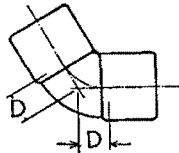
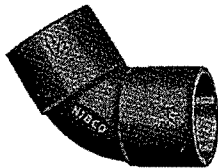
Copper to Slip Joint Connection

Nominal Size	List Price Each	Approx. Net Wt.	Dim. E	Dim. J
1 1/4" x 1 1/4" O.D.	\$1.34	.705	1 1/4"	1 3/8"
1 1/2" x 1 1/2" O.D.	1.90	.64	1 3/8"	2 1/8"
1 1/2" x 1 1/4" O.D.	1.90	.78	1 3/8"	2 3/8"
2" x 2" O.D.	2.70	2.47	1 3/4"	3 3/8"

 Drainage Fittings are accurately machined with a pitch of $\frac{1}{4}$ " to the foot.

CAST DRAINAGE FITTINGS

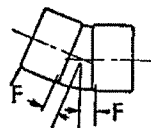
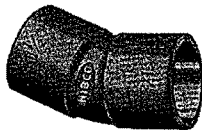
By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

860 — SIXTH BEND (60°)

Copper to Copper

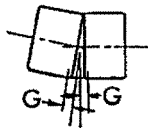
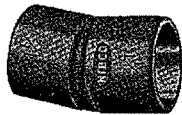
Nominal Size	List Price Each	Approx. Net Wt.	Dim. D
1 1/4"	\$.84	.68	5/8
1 1/2"	1.15	1.00	3/4
2"	1.65	1.46	7/8
3"	3.80	2.00	1 1/8
4"	6.40	4.50	1 1/2
6"	25.85	12.80	2 1/4



808 — SIXTEENTH BEND (22 1/2°)

Copper to Copper

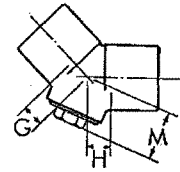
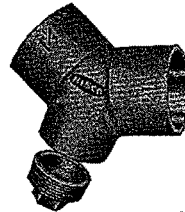
Nominal Size	List Price Each	Approx. Net Wt.	Dim. F
1 1/4"	\$.84	.64	1/4
1 1/2"	1.15	.31	3/8
2"	1.65	.51	1/2
3"	3.80	1.89	3/4
4"	6.40	3.28	1 1/8
5"	15.50	6.10	1 1/2
6"	25.85	12.10	1 3/4



809 — THIRTY-SECOND BEND (11 1/4°)

Copper to Copper

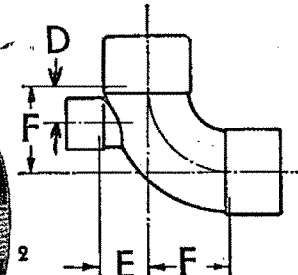
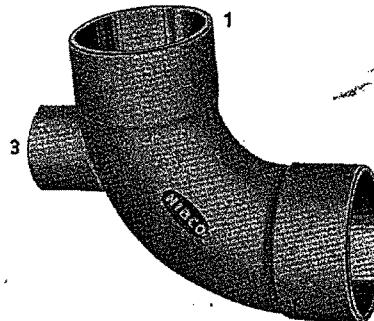
Nominal Size	List Price Each	Approx. Net Wt.	Dim. G
1 1/4"	\$.84	.57	1/8
1 1/2"	1.15	.69	1/4
2"	1.65	.45	3/8
3"	3.80	1.99	1/2
4"	6.40	3.31	3/4
5"	15.50	5.92	1 1/8
6"	25.85	11.85	1 1/2



806-16 — EIGHTH BEND (45°) — WITH CLEAN-OUT

Copper to Copper

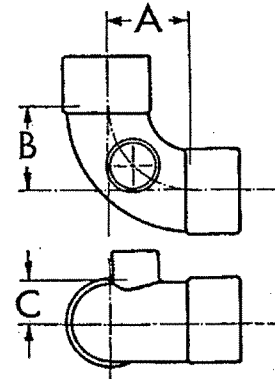
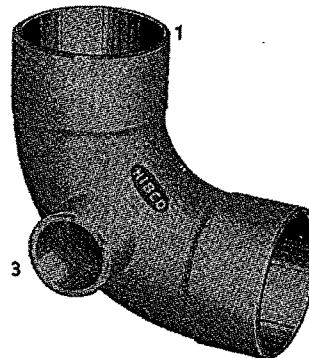
Nominal Size	List Price Each	Approx. Net Wt.	Dim. G	Dim. H	Dim. M
1 1/4"	\$1.19	.53	1/8	1/8	1
1 1/2"	1.65	.80	1/2	1/2	1 1/4
2"	2.50	1.19	3/4	3/4	1 1/2



861 — QUARTER BEND (90°) WITH HIGH HEEL OUTLET

Copper to Copper to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. D	Dim. E	Dim. F
3" x 3" x 2"	\$4.85	4.84	1 1/8	1 3/8	3 1/2
3" x 3" x 1 1/2"	4.85	4.59	1 1/8	1 3/8	3 1/2



807-9 — QUARTER BEND (90°) WITH SIDE OUTLET

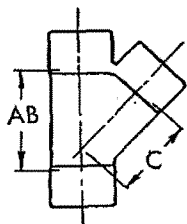
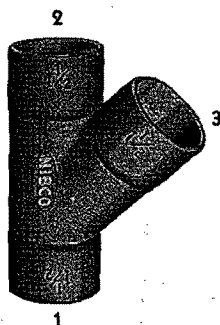
Copper to Copper to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C
3" x 3" x 2"	\$4.85	4.53	3 1/8	3 1/8	1 3/4
3" x 3" x 1 1/2"	4.85	4.30	3 1/8	3 1/8	1 3/4

Drainage Fittings are accurately machined with a pitch of 1/4" to the foot.

CAST DRAINAGE FITTINGS

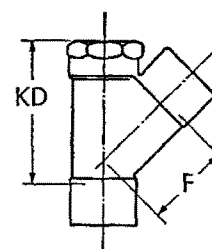
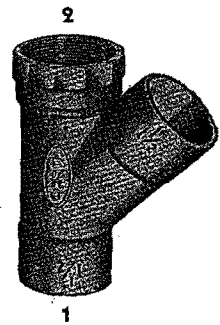
By NIBCO

 Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.


810 — 45° Y-BRANCHES

Copper to Copper

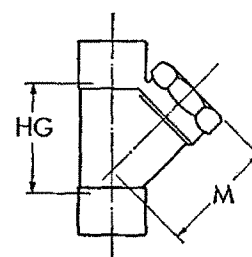
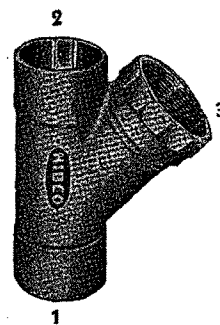
Nominal Size	List Price Each	Approx. Net Wt.	Dim. AB	Dim. C
1 1/4" x 1 1/4" x 1 1/4"	\$ 1.15	.66	2 3/8	2
1 1/2" x 1 1/2" x 1 1/2"	1.65	.89	2 1/8	2 5/8
1 1/2" x 1 1/2" x 1 1/4"	1.65	.88	2 1/8	2 3/8
1 1/2" x 1 1/4" x 1 1/2"	1.65	1.45	2 1/8	2 3/8
1 1/2" x 1 1/4" x 1 1/4"	1.65	.69	2 1/8	1 3/4
2" x 2" x 2"	2.30	1.50	3 1/8	2 7/8
2" x 2" x 1 1/2"	2.30	1.24	2 3/4	2 1/8
2" x 2" x 1 1/4"	2.30	1.12	2 1/8	2 1/8
2" x 1 1/2" x 2"	2.30	2.78	3 1/8	2 1/8
2" x 1 1/2" x 1 1/2"	2.30	2.59	3 1/8	2 1/8
2 1/2" x 2 1/2" x 2 1/2"	3.80	4.18	4 3/8	4 1/8
3" x 3" x 3"	4.85	3.69	3 1/8	4 1/8
3" x 3" x 2"	4.85	2.38	3 1/8	3 1/8
3" x 3" x 1 1/2"	4.85	1.77	2 3/4	3 1/4
3" x 3" x 1 1/4"	4.85	3.64	3 3/8	3 1/2
4" x 4" x 4"	9.40	6.39	6 1/2	5 1/2
4" x 4" x 3"	9.40	6.72	5 3/8	5 1/8
4" x 4" x 2"	9.40	5.69	4 3/8	4 3/8
4" x 4" x 1 1/2"	9.40	4.49	4 1/4	4 1/8
4" x 4" x 1 1/4"	9.40	5.02	4 1/4	4 1/2
5" x 5" x 5"	22.05	24.20	8 3/8	7 3/8
5" x 5" x 4"	22.05	19.00	8 3/8	7 1/8
6" x 6" x 6"	37.10	32.00	9 3/4	7 3/8
6" x 6" x 4"	37.10	29.20	6 3/8	7 1/8
6" x 6" x 3"	37.10	27.50	6 3/8	7 1/8
6" x 6" x 2"	37.10	25.40	6 3/8	7 7/8
6" x 4" x 4"	37.10	20.30	7 1/8	7 3/8
6" x 4" x 2"	37.10	18.30	7 1/8	7 7/8
8" x 8" x 8"	54.10	55.00	13 5/8	10 1/8
8" x 8" x 6"	54.10	52.00	13 5/8	11 1/8
8" x 6" x 6"	54.10	49.00	13 1/2	11 1/8



810-13 — 45° Y-BRANCHES

Copper to N. P. T. I. to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. KD	Dim. F
1 1/4"	\$ 1.15	1.19	3 1/8	2
1 1/2"	1.65	.97	3 3/8	2 5/8
2"	2.30	2.66	4 1/8	3 1/8



810-14 — 45° Y-BRANCHES

Copper to Copper to N. P. T. I.

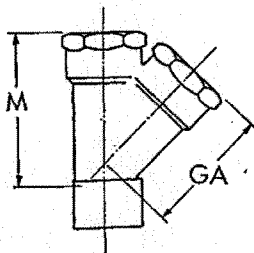
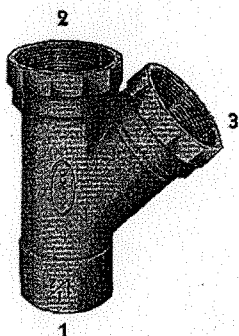
Nominal Size	List Price Each	Approx. Net Wt.	Dim. HG	Dim. M
1 1/4"	\$ 1.15	1.19	2 5/8	2 1/8
1 1/2"	1.65	1.77	3	3 3/8
2"	2.30	2.66	3 3/8	4 1/8

 Drainage Fittings are accurately machined with a pitch of $\frac{1}{4}$ " to the foot.

CAST DRAINAGE FITTINGS

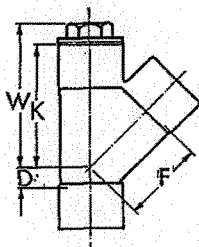
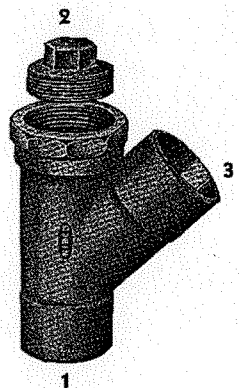
By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.



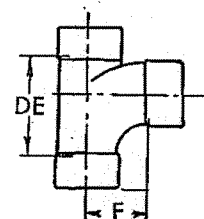
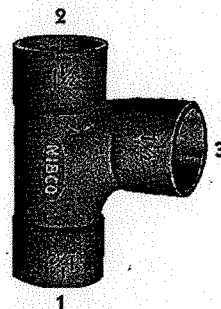
810-15 — 45° Y-BRANCHES
Copper to N. P. T. I. to N. P. T. I.

Nominal Size	List Price Each	Approx. Net Wt.	Dim. GA	Dim. M
1 1/4"	\$1.65	1.39	3 1/4	2 1/8
1 1/2"	2.35	2.07	3 3/8	3 3/8
2"	3.15	3.00	4 1/8	4 1/8



810-16 — 45° Y-BRANCH WITH CLEAN-OUT
Copper to Cleanout (N.P.T.I.) to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. D	Dim. W	Dim. K	Dim. F
1 1/4"	\$1.50	1.40	3/8	3 3/8	2 7/8	1 7/8
1 1/2"	2.15	2.03	1/2	3 3/4	3 3/8	2 1/2
2"	3.15	3.02	1 1/8	4 7/8	4 3/8	2 7/8
3"	6.60	6.98	3/4	6 1/2	5 1/8	4 1/8
4"	13.00	10.92	1	8 3/8	7 1/2	5 1/2
6"	44.45	38.00	1 1/8	10 3/8	10 1/8	7 1/8



811 — 90° SANITARY TEE
Copper to Copper to Copper

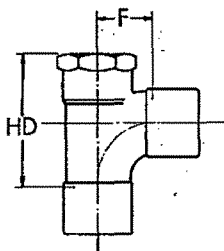
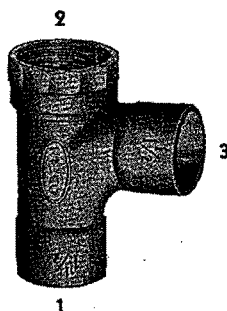
Nominal Size	List Price Each	Approx. Net Wt.	Dim. DE	Dim. F
1 1/4" x 1 1/4" x 1 1/4"	\$1.15	.56	1 3/8	1 3/8
1 1/2" x 1 1/2" x 1 1/2"	1.65	.79	2 1/4	1 3/8
1 1/2" x 1 1/2" x 1 1/4"	1.65	.57	2	1 3/8
1 1/2" x 1 1/4" x 1 1/2"	1.65	.72	2 3/8	1 3/8
1 1/2" x 1 1/4" x 1 1/4"	1.65	1.42	2 1/4	1 3/8
2" x 2" x 2"	2.30	1.42	3 3/8	1 3/8
2" x 2" x 1 1/2"	2.30	.96	2 5/8	1 3/8
2" x 2" x 1 1/4"	2.30	1.61	2 1/8	1 3/8
2" x 1 1/2" x 2"	2.30	1.75	3 1/8	2 1/8
2" x 1 1/2" x 1 1/2"	2.30	2.02	2 7/8	1 1/8
2 1/2" x 2 1/2" x 2 1/2"	3.80	3.18	4 3/8	2 1/4
3" x 3" x 3"	4.85	2.86	4 1/2	3
3" x 3" x 2"	4.85	1.90	3	2 3/8
3" x 3" x 1 1/2"	4.85	1.81	2 7/8	2 3/8
3" x 3" x 1 1/4"	4.85	1.50	2	2
4" x 4" x 4"	9.40	7.22	4 1/4	4 1/4
4" x 4" x 3"	9.40	5.90	5 3/8	4
4" x 4" x 2"	9.40	4.87	2 3/8	2 7/8
4" x 4" x 1 1/2"	9.40	4.30	2 7/8	2 3/8
4" x 4" x 1 1/4"	9.40	3.98	2 1/8	3 3/8
5" x 5" x 5"	22.05	17.40	7 1/8	5 1/8
5" x 5" x 4"	22.05	15.70	7 1/8	4 7/8
6" x 6" x 6"	37.10	26.90	9 1/8	6 1/8
6" x 6" x 4"	37.10	20.80	6 1/8	5 1/8
6" x 6" x 3"	37.10	18.50	6 1/8	5 1/2
6" x 6" x 2"	37.10	16.20	6 1/8	5 3/8
6" x 4" x 4"	37.10	16.00	7 7/8	5 3/8
6" x 4" x 2"	37.10	15.20	7 7/8	5 1/8
8" x 8" x 8"	54.10	45.00	10 1/8	6 1/2
8" x 8" x 6"	54.10	41.50	10 1/8	6 1/4
8" x 6" x 6"	54.10	36.00	10 1/2	6 1/4

Drainage Fittings are accurately machined with a pitch of $\frac{1}{4}$ " to the foot.

CAST DRAINAGE FITTINGS

By NIBCO

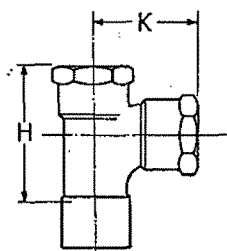
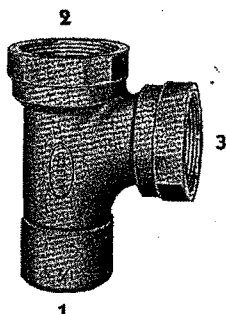
Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.



811-13 — SANITARY TEE

Copper to N. P. T. I. to Copper

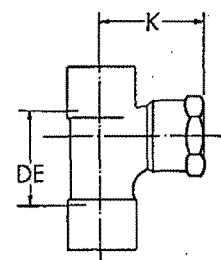
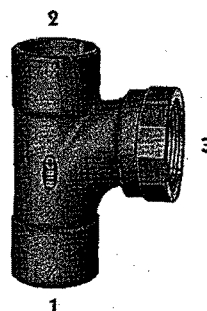
Nominal Size	List Price Each	Approx. Net Wt.	Dim. HD	Dim. F
$1\frac{1}{4}" \times 1\frac{1}{4}" \times 1\frac{1}{4}"$	\$1.15	1.16	$3\frac{5}{8}$	$1\frac{13}{16}$
$1\frac{1}{2}" \times 1\frac{1}{2}" \times 1\frac{1}{2}"$	1.65	1.77	$3\frac{9}{16}$	$1\frac{11}{16}$
$1\frac{1}{2}" \times 1\frac{1}{2}" \times 1\frac{1}{4}"$	1.65	1.47	$3\frac{1}{8}$	$1\frac{1}{2}$
$1\frac{1}{2}" \times 1\frac{1}{4}" \times 1\frac{1}{2}"$	1.65	1.97	$4\frac{1}{8}$	$1\frac{11}{16}$
$1\frac{1}{2}" \times 1\frac{1}{4}" \times 1\frac{1}{4}"$	1.65	1.67	$3\frac{3}{8}$	$1\frac{1}{8}$
$2" \times 2" \times 2"$	2.30	2.41	$4\frac{1}{8}$	$3\frac{1}{8}$
$2" \times 2" \times 1\frac{1}{2}"$	2.30	2.10	$3\frac{3}{8}$	$1\frac{13}{16}$
$2" \times 2" \times 1\frac{1}{4}"$	2.30	1.94	$3\frac{1}{4}$	$1\frac{1}{4}$
$2" \times 1\frac{1}{2}" \times 2"$	2.30	1.78	$4\frac{1}{8}$	$2\frac{1}{8}$
$2" \times 1\frac{1}{2}" \times 1\frac{1}{2}"$	2.30	2.24	$3\frac{1}{8}$	$1\frac{13}{16}$
$3" \times 3" \times 3"$	4.85	5.96	$6\frac{1}{8}$	$3\frac{1}{2}$
$3" \times 3" \times 2"$	4.85	4.40	$4\frac{1}{2}$	$2\frac{3}{8}$
$3" \times 3" \times 1\frac{1}{2}"$	4.85	4.32	$4\frac{3}{8}$	$2\frac{3}{8}$
$3" \times 3" \times 1\frac{1}{4}"$	4.85	4.37	$4\frac{1}{4}$	$2\frac{1}{8}$
$4" \times 4" \times 4"$	9.40	10.25	$4\frac{3}{8}$	$4\frac{1}{8}$



811-15 — SANITARY TEE

Copper to N. P. T. I. to N. P. T. I.

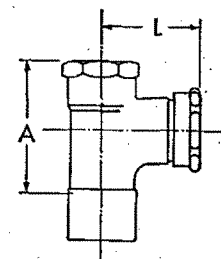
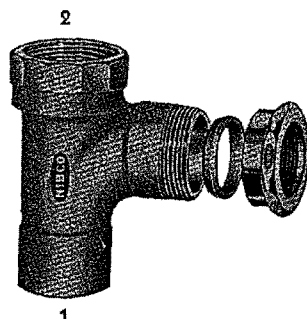
Nominal Size	List Price Each	Approx. Net Wt.	Dim. H	Dim. K
$1\frac{1}{4}"$	\$1.65	1.36	$3\frac{5}{8}$	$2\frac{1}{8}$
$1\frac{1}{2}"$	2.35	2.08	$3\frac{9}{16}$	$2\frac{3}{8}$
$2"$	3.15	2.73	$4\frac{1}{8}$	$2\frac{1}{2}$
$3"$	6.55	7.34	$6\frac{1}{8}$	$4\frac{1}{8}$
$4"$	12.70	13.28	$6\frac{3}{8}$	$6\frac{1}{8}$



811-14 — SANITARY TEE

Copper to Copper to N. P. T. I.

Nominal Size	List Price Each	Approx. Net Wt.	Dim. DE	Dim. K
$1\frac{1}{4}" \times 1\frac{1}{4}" \times 1\frac{1}{4}"$	\$1.15	1.16	$2\frac{1}{8}$	$2\frac{1}{8}$
$1\frac{1}{2}" \times 1\frac{1}{2}" \times 1\frac{1}{2}"$	1.65	.97	$2\frac{7}{8}$	$2\frac{1}{8}$
$1\frac{1}{2}" \times 1\frac{1}{2}" \times 1\frac{1}{4}"$	1.65	1.47	2	$2\frac{3}{8}$
$1\frac{1}{2}" \times 1\frac{1}{4}" \times 1\frac{1}{2}"$	1.65	1.81	$2\frac{1}{8}$	$2\frac{3}{8}$
$1\frac{1}{2}" \times 1\frac{1}{4}" \times 1\frac{1}{4}"$	1.65	1.59	$2\frac{1}{4}$	$2\frac{3}{8}$
$2" \times 2" \times 2"$	2.30	2.41	$3\frac{1}{4}$	$3\frac{1}{4}$
$2" \times 2" \times 1\frac{1}{2}"$	2.30	2.11	$2\frac{7}{8}$	3
$2" \times 2" \times 1\frac{1}{4}"$	2.30	2.40	$2\frac{1}{8}$	$2\frac{3}{8}$
$2" \times 1\frac{1}{2}" \times 2"$	2.30	2.21	$3\frac{1}{8}$	$3\frac{1}{4}$
$2" \times 1\frac{1}{2}" \times 1\frac{1}{2}"$	2.30	2.51	$2\frac{3}{8}$	3
$3" \times 3" \times 3"$	4.85	5.96	$5\frac{1}{8}$	$4\frac{1}{8}$
$3" \times 3" \times 2"$	4.85	4.48	$3\frac{1}{8}$	4
$3" \times 3" \times 1\frac{1}{2}"$	4.85	4.40	3	$3\frac{1}{8}$
$3" \times 3" \times 1\frac{1}{4}"$	4.85	3.36	$3\frac{1}{8}$	$3\frac{1}{8}$
$4" \times 4" \times 4"$	9.40	10.25	$4\frac{1}{4}$	$6\frac{1}{8}$
$4" \times 4" \times 3"$	9.40	8.95	$4\frac{1}{8}$	$5\frac{1}{2}$
$4" \times 4" \times 2"$	9.40	7.92	$3\frac{3}{8}$	$4\frac{1}{8}$
$4" \times 4" \times 1\frac{1}{2}"$	9.40	7.47	$2\frac{3}{4}$	$4\frac{3}{8}$
$4" \times 4" \times 1\frac{1}{4}"$	9.40	7.15	$2\frac{1}{8}$	$4\frac{3}{8}$



811-3-7 — DRAINAGE VENT SANITARY TEE

Copper to N. P. T. I. to Slip Joint

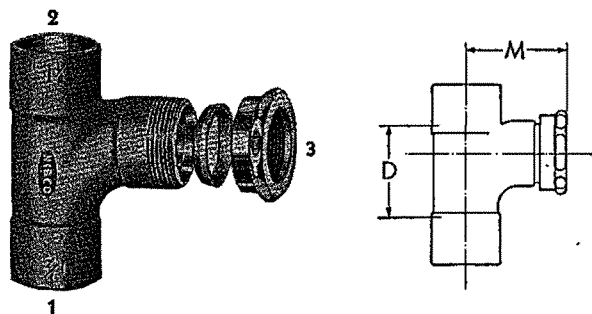
Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. L
$1\frac{1}{2}" \times 1\frac{1}{2}" \times 1\frac{1}{4}"$	\$2.40	1.85	$3\frac{1}{8}$	$2\frac{1}{8}$
$1\frac{1}{2}" \times 1\frac{1}{2}" \times 1\frac{1}{2}"$	2.40	1.99	$3\frac{3}{8}$	$2\frac{3}{4}$

Drainage Fittings are accurately machined with a pitch of $\frac{1}{4}$ " to the foot.

CAST DRAINAGE FITTINGS

By NIBCO

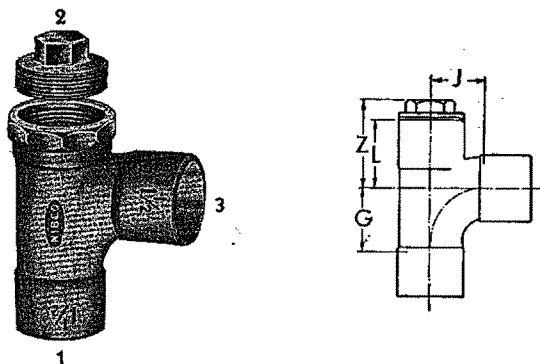
Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.



811-7— 90° SANITARY TEE WITH
SLIP JOINT CONNECTION

Copper to Copper to Slip Joint

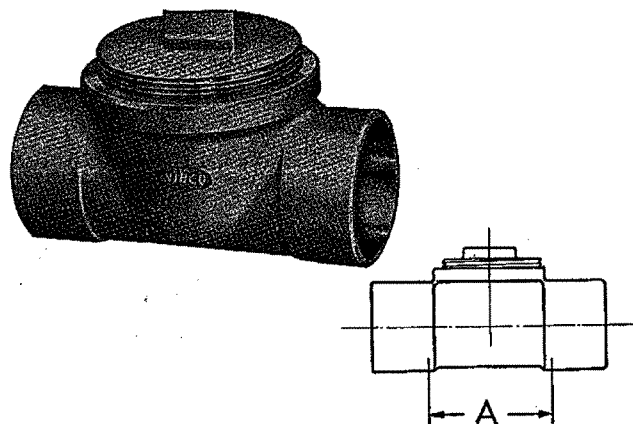
Nominal Size	List Price Each	Approx. Net Wt.	Dim. D	Dim. M
1 1/4" x 1 1/4" x 1 1/4" O.D.	\$1.65	1.20	2 3/8	2 1/8
1 1/2" x 1 1/2" x 1 1/2" O.D.	2.40	1.74	2 5/8	2 3/8
1 1/2" x 1 1/2" x 1 1/4" O.D.	2.40	1.41	1 3/8	2 3/8
2" x 2" x 2" O.D.	3.35	2.52	3 1/4	2 1/8



811-16— SANITARY TEE WITH CLEAN-OUT

Copper to Cleanout (N.P.T.I.) to Copper

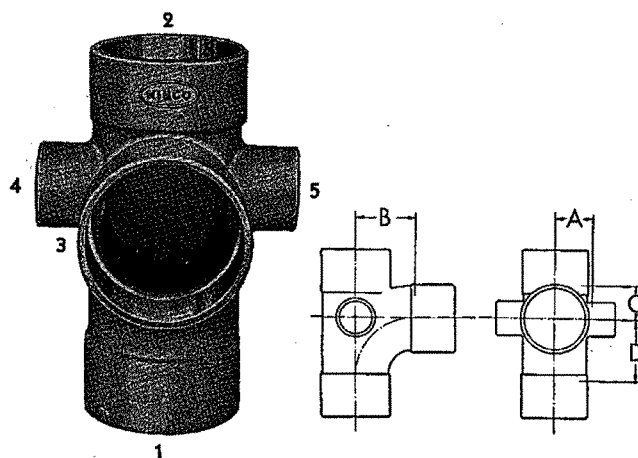
Nominal Size	List Price Each	Approx. Net Wt.	Dim. G	Dim. J	Dim. L	Dim. Z
1 1/4"	\$ 1.50	1.37	1 1/8	1 3/8	1 1/8	2 1/8
1 1/2"	2.15	2.04	1 1/8	1 5/8	1 1/8	2 1/8
2"	3.15	2.77	2 1/4	2 3/8	1 7/8	2 1/8
3"	6.60	6.84	3 7/8	3 5/8	3 1/8	3 3/8
4"	13.00	10.0	2 1/4	4 1/4	4 1/8	5
6"	44.45	32.0	6 1/8	6 1/8	6 1/4	7 5/8



814— TEST TEE WITH PLUG

Copper to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A
3"	\$ 8.35	6.25	9 3/8
4"	15.05	10.90	11



870— SANITARY TEE WITH SIDE OUTLETS
ON LEFT AND RIGHT

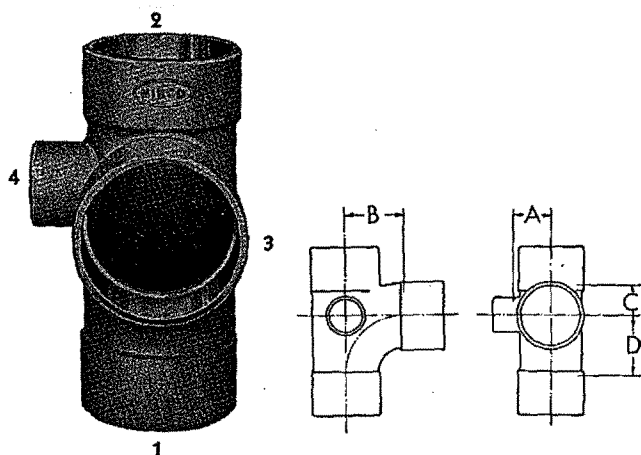
Copper to Copper to Copper to Copper to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C	Dim. D
3"x3"x3"x2" x2"	\$12.00	5.98	1 3/4	3 3/8	1 3/8	3 1/8
3"x3"x3"x1 1/2"x1 1/2"	12.00	5.91	2 3/8	3 3/8	1 3/8	3 1/8
3"x3"x3"x1 1/4"x1 1/4"	12.00	5.71	2 3/8	3 3/8	1 3/8	3 1/8
3"x3"x4"x2" x2"	20.80	6.50	2 1/4	2 1/8	1 3/4	3 1/2
3"x3"x4"x1 1/2"x1 1/2"	20.80	6.40	2 1/4	2 1/8	1 3/4	3 1/2

Drainage Fittings are accurately machined with a pitch of $\frac{1}{4}$ " to the foot.

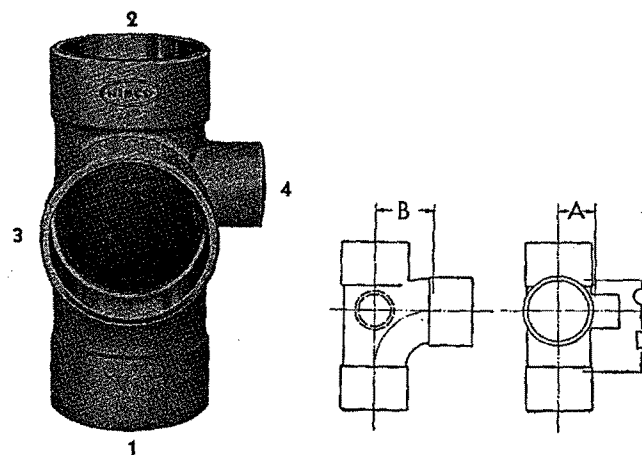
CAST DRAINAGE FITTINGS

By NIBCO

 Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

871 — SANITARY TEE WITH SIDE OUTLET ON LEFT

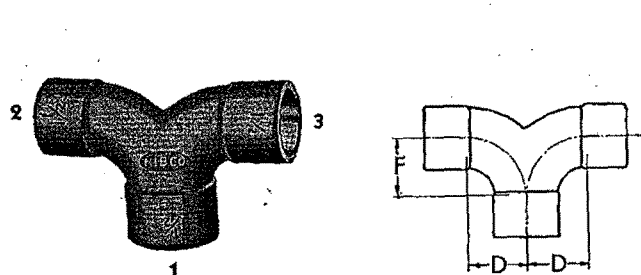
Copper to Copper to Copper to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C	Dim. D
3" x 3" x 3" x 2"	\$9.40	5.28	1 $\frac{3}{4}$ "	3 $\frac{3}{8}$ "	1 $\frac{1}{8}$ "	3 $\frac{7}{8}$ "
3" x 3" x 3" x 1 $\frac{1}{2}$ "	9.40	5.21	2 $\frac{5}{8}$ "	3 $\frac{3}{8}$ "	1 $\frac{1}{8}$ "	3 $\frac{7}{8}$ "
3" x 3" x 3" x 1 $\frac{1}{4}$ "	9.40	5.08	2 $\frac{5}{8}$ "	3 $\frac{3}{8}$ "	1 $\frac{1}{8}$ "	3 $\frac{7}{8}$ "
3" x 3" x 4" x 2"	15.05	5.80	2 $\frac{1}{4}$ "	2 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	3 $\frac{3}{8}$ "
3" x 3" x 4" x 1 $\frac{1}{2}$ "	15.05	5.70	2 $\frac{1}{4}$ "	2 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	3 $\frac{3}{8}$ "


872 — SANITARY TEE WITH SIDE OUTLET ON RIGHT

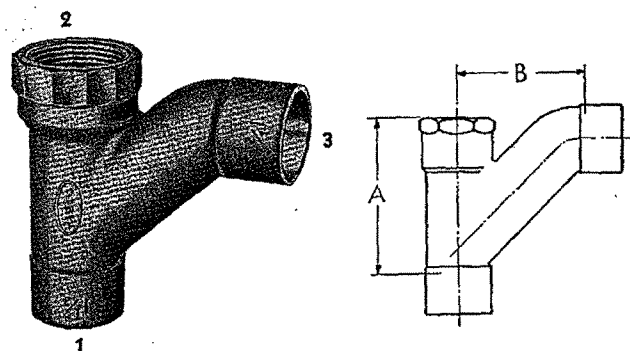
Copper to Copper to Copper to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C	Dim. D
3" x 3" x 3" x 2"	\$9.40	5.28	1 $\frac{3}{4}$ "	3 $\frac{3}{8}$ "	1 $\frac{1}{8}$ "	3 $\frac{7}{8}$ "
3" x 3" x 3" x 1 $\frac{1}{2}$ "	9.40	5.21	2 $\frac{5}{8}$ "	3 $\frac{3}{8}$ "	1 $\frac{1}{8}$ "	3 $\frac{7}{8}$ "
3" x 3" x 3" x 1 $\frac{1}{4}$ "	9.40	5.08	2 $\frac{5}{8}$ "	3 $\frac{3}{8}$ "	1 $\frac{1}{8}$ "	3 $\frac{7}{8}$ "
3" x 3" x 4" x 2"	15.05	5.80	2 $\frac{1}{4}$ "	2 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	3 $\frac{3}{8}$ "
3" x 3" x 4" x 1 $\frac{1}{2}$ "	15.05	5.70	2 $\frac{1}{4}$ "	2 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	3 $\frac{3}{8}$ "


837 — DOUBLE ELBOW TEES

Copper to Copper to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. D	Dim. F
1" x 1" x 1"	\$1.00	1.23	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "
1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ "	1.50	1.37	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "
1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ "	2.30	2.02	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "
1 $\frac{1}{2}$ " x 1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ "	2.30	1.62	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "
2" x 2" x 2"	3.00	2.88	2 $\frac{7}{8}$ "	2 $\frac{1}{4}$ "
2" x 1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ "	3.00	1.70	$\frac{3}{4}$ "	2 $\frac{1}{4}$ "
4" x 4" x 4"	15.05	9.63	4 $\frac{1}{4}$ "	4 $\frac{1}{4}$ "


812-13 — LONG TURN T-Y'S

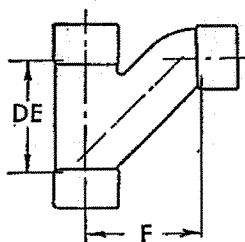
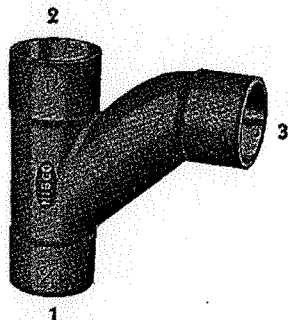
Copper to N. P. T. I. to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B
1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ "	\$1.90	1.54	3 $\frac{1}{8}$ "	2 $\frac{3}{8}$ "
1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ "	2.65	2.04	4 $\frac{3}{8}$ "	3
1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 1 $\frac{1}{4}$ "	2.65	1.79	4 $\frac{3}{8}$ "	3 $\frac{1}{8}$ "
2" x 2" x 2"	4.35	3.17	4 $\frac{5}{8}$ "	4 $\frac{1}{8}$ "
2" x 2" x 1 $\frac{1}{2}$ "	4.35	2.67	4 $\frac{7}{8}$ "	3 $\frac{1}{2}$ "

 Drainage Fittings are accurately machined with a pitch of $\frac{1}{4}$ " to the foot.

CAST DRAINAGE FITTINGS

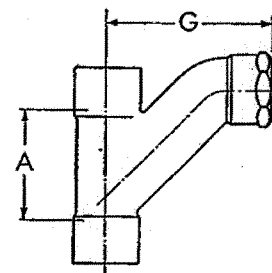
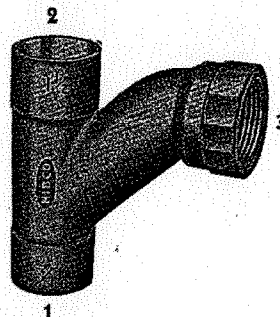
By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

812—LONG TURN T-Y

Copper to Copper to Copper

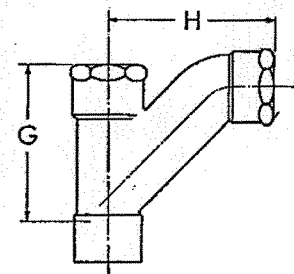
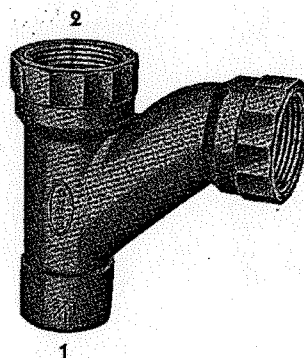
Nominal Size	List Price Each	Approx. Net Wt.	Dim. DE	Dim. F
$1\frac{1}{4}" \times 1\frac{1}{4}" \times 1\frac{1}{4}"$	\$ 1.90	1.38	$2\frac{1}{4}$	$2\frac{1}{8}$
$1\frac{1}{2}" \times 1\frac{1}{2}" \times 1\frac{1}{2}"$	2.65	1.22	$2\frac{5}{8}$	$3\frac{1}{8}$
$1\frac{1}{2}" \times 1\frac{1}{2}" \times 1\frac{1}{4}"$	2.65	1.00	$2\frac{1}{4}$	$3\frac{1}{4}$
$2" \times 2" \times 2"$	4.35	2.02	$3\frac{1}{8}$	$4\frac{1}{8}$
$2" \times 2" \times 1\frac{1}{2}"$	4.35	1.56	$2\frac{1}{8}$	$3\frac{5}{8}$
$2" \times 2" \times 1\frac{1}{4}"$	4.35	2.57	$3\frac{1}{4}$	$3\frac{5}{8}$
$3" \times 3" \times 3"$	8.50	5.42	$4\frac{3}{8}$	$6\frac{5}{8}$
$3" \times 3" \times 2"$	8.50	3.07	$3\frac{1}{8}$	$4\frac{7}{8}$
$3" \times 3" \times 1\frac{1}{2}"$	8.50	2.95	$3\frac{1}{8}$	$3\frac{7}{8}$
$4" \times 4" \times 4"$	12.75	10.99	$6\frac{1}{4}$	$6\frac{5}{8}$
$4" \times 4" \times 3"$	12.75	7.86	$5\frac{5}{8}$	$6\frac{3}{8}$
$4" \times 4" \times 2"$	12.75	6.88	$4\frac{3}{8}$	$5\frac{1}{8}$
$4" \times 4" \times 1\frac{1}{2}"$	12.75	6.25	$3\frac{1}{8}$	$4\frac{3}{8}$
$5" \times 5" \times 5"$	31.40	23.50	$8\frac{1}{8}$	$7\frac{1}{8}$
$5" \times 5" \times 4"$	31.40	20.60	$8\frac{3}{4}$	$8\frac{7}{8}$
$5" \times 4" \times 5"$	31.40	20.60	$10\frac{5}{8}$	$8\frac{1}{8}$
$5" \times 4" \times 4"$	31.40	18.50	$10\frac{5}{8}$	$8\frac{7}{8}$
$5" \times 3" \times 5"$	31.40	19.20	$10\frac{1}{8}$	$8\frac{1}{8}$
$5" \times 3" \times 4"$	31.40	17.80	$10\frac{1}{8}$	$8\frac{7}{8}$
$5" \times 2" \times 5"$	31.40	18.70	$9\frac{3}{8}$	9
$5" \times 2" \times 4"$	31.40	17.20	$9\frac{3}{8}$	$8\frac{7}{8}$
$6" \times 6" \times 6"$	45.15	36.80	$10\frac{5}{8}$	$9\frac{7}{8}$
$6" \times 6" \times 4"$	45.15	30.50	$7\frac{3}{8}$	$7\frac{1}{2}$



812-14—LONG TURN T-Y'S

Copper to Copper to N. P. T. I.

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. G
$1\frac{1}{4}" \times 1\frac{1}{4}" \times 1\frac{1}{4}"$	\$1.90	1.54	$2\frac{3}{8}$	$3\frac{3}{4}$
$1\frac{1}{2}" \times 1\frac{1}{2}" \times 1\frac{1}{2}"$	2.65	2.04	3	$4\frac{3}{8}$
$1\frac{1}{2}" \times 1\frac{1}{2}" \times 1\frac{1}{4}"$	2.65	1.79	$2\frac{5}{8}$	$4\frac{1}{4}$
$2" \times 2" \times 2"$	4.35	3.17	$3\frac{1}{8}$	$5\frac{1}{2}$
$2" \times 2" \times 1\frac{1}{2}"$	4.35	2.67	$3\frac{1}{4}$	$4\frac{3}{8}$



812-15—LONG TURN T-Y

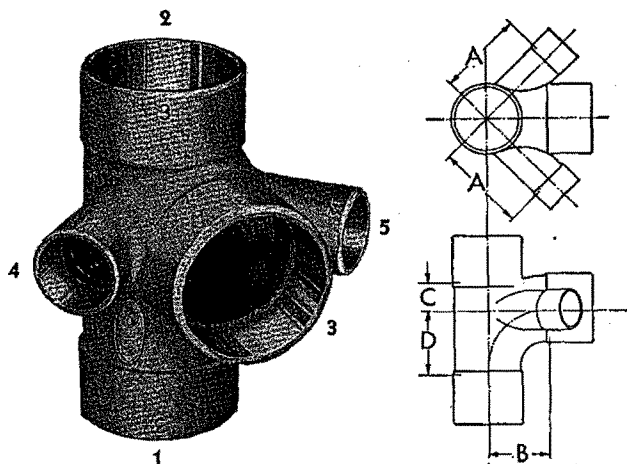
Copper to N. P. T. I. to N. P. T. I.

Nominal Size	List Price Each	Approx. Net Wt.	Dim. G	Dim. H
$1\frac{1}{4}" \times 1\frac{1}{4}" \times 1\frac{1}{4}"$	\$2.75	1.74	$3\frac{1}{8}$	$3\frac{3}{8}$
$1\frac{1}{2}" \times 1\frac{1}{2}" \times 1\frac{1}{2}"$	3.85	2.34	$3\frac{3}{8}$	$4\frac{1}{8}$
$1\frac{1}{2}" \times 1\frac{1}{2}" \times 1\frac{1}{4}"$	3.85	2.09	$2\frac{3}{4}$	4
$2" \times 2" \times 2"$	6.30	3.50	$5\frac{1}{8}$	$5\frac{1}{8}$
$2" \times 2" \times 1\frac{1}{2}"$	6.30	2.81	$4\frac{7}{8}$	$4\frac{1}{2}$

Drainage Fittings are accurately machined with a pitch of $\frac{1}{4}"$ to the foot.

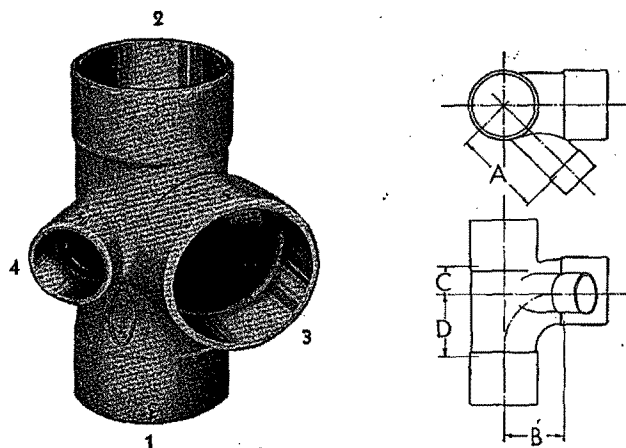
CAST DRAINAGE FITTINGS

By NIBCO

 Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

838 — STACK FITTING

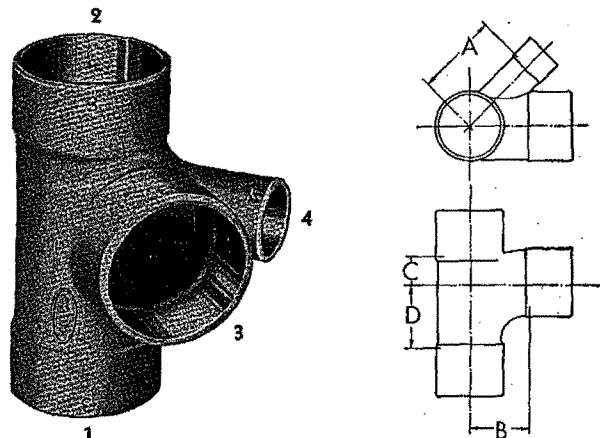
Copper to Copper to Copper to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C	Dim. D
3" x 3" x 3" x 2" x 2"	\$12.00	7.30	3 $\frac{7}{8}$ "	3 $\frac{3}{8}$ "	3 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "
3" x 3" x 3" x 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ "	12.00	6.98	3 $\frac{1}{8}$ "	3 $\frac{3}{8}$ "	3 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "


839 — STACK FITTING — LEFT OUTLET ONLY

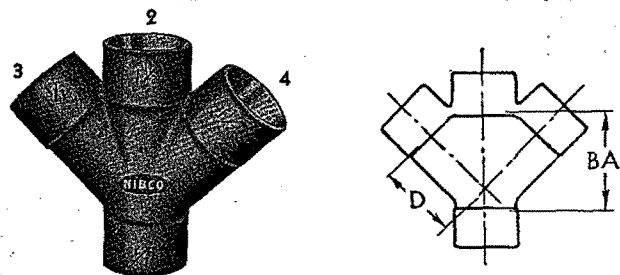
Copper to Copper to Copper to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C	Dim. D
3" x 3" x 3" x 2" x 2"	\$9.40	5.20	3 $\frac{7}{8}$ "	3 $\frac{3}{8}$ "	3 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "
3" x 3" x 3" x 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ "	9.40	5.12	3 $\frac{1}{8}$ "	3 $\frac{3}{8}$ "	3 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "


840 — STACK FITTING — RIGHT OUTLET ONLY

Copper to Copper to Copper to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C	Dim. D
3" x 3" x 3" x 2" x 2"	\$9.40	5.20	3 $\frac{7}{8}$ "	3 $\frac{3}{8}$ "	3 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "
3" x 3" x 3" x 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ "	9.40	5.12	3 $\frac{1}{8}$ "	3 $\frac{3}{8}$ "	3 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "


834 — 45° DOUBLE Y-BRANCHES

Copper to Copper to Copper to Copper

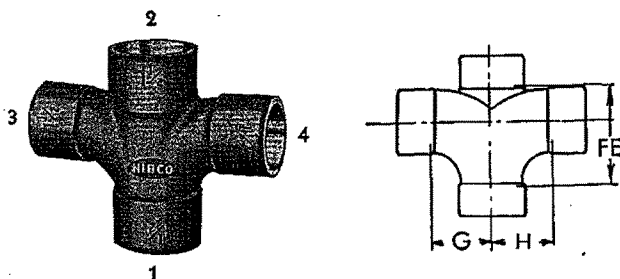
Nominal Size	List Price Each	Approx. Net Wt.	Dim. BA	Dim. D
1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ "	\$ 2.15	.90	2 $\frac{3}{8}$ "	2
1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ "	3.10	1.22	3	2 $\frac{1}{8}$ "
1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ "	3.10	1.79	2 $\frac{1}{8}$ "	2 $\frac{1}{4}$ "
1 $\frac{1}{2}$ " x 1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ "	3.10	1.63	2 $\frac{3}{8}$ "	2 $\frac{1}{4}$ "
2" x 2" x 2" x 2"	4.70	1.90	2 $\frac{7}{8}$ "	3 $\frac{3}{8}$ "
2" x 2" x 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ "	4.70	3.27	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "
2" x 2" x 1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ "	4.70	3.01	3 $\frac{1}{8}$ "	3 $\frac{5}{8}$ "
2" x 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ "	4.70	3.10	4	3 $\frac{1}{8}$ "
2" x 1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ "	4.70	2.90	4 $\frac{1}{8}$ "	3 $\frac{3}{8}$ "
3" x 3" x 3" x 3"	9.40	5.53	5 $\frac{1}{8}$ "	4 $\frac{3}{8}$ "
3" x 3" x 2 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ "	9.40	5.24	4 $\frac{1}{8}$ "	4
3" x 3" x 2" x 2"	9.40	4.88	3 $\frac{1}{8}$ "	3 $\frac{5}{8}$ "
3" x 3" x 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ "	9.40	3.68	3 $\frac{3}{8}$ "	3 $\frac{1}{8}$ "
4" x 4" x 4" x 4"	15.05	11.60	6 $\frac{1}{2}$ "	5 $\frac{1}{2}$ "
4" x 4" x 3" x 3"	15.05	7.92	5 $\frac{3}{8}$ "	5 $\frac{1}{8}$ "
4" x 4" x 2" x 2"	15.05	6.29	4 $\frac{3}{8}$ "	4 $\frac{3}{8}$ "
6" x 6" x 6" x 6"	62.10	43.00	9 $\frac{1}{4}$ "	7 $\frac{3}{8}$ "
6" x 6" x 4" x 4"	62.10	39.50	6 $\frac{1}{8}$ "	7 $\frac{1}{8}$ "
8" x 8" x 8" x 8"	79.05	74.20	10 $\frac{1}{8}$ "	13 $\frac{1}{8}$ "
8" x 8" x 6" x 6"	79.05	68.50	11 $\frac{1}{8}$ "	13 $\frac{1}{8}$ "

 Drainage Fittings are accurately machined with a pitch of $\frac{1}{4}$ " to the foot.

CAST DRAINAGE FITTINGS

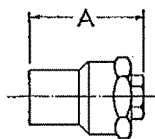
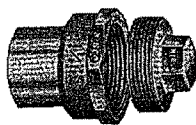
By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.



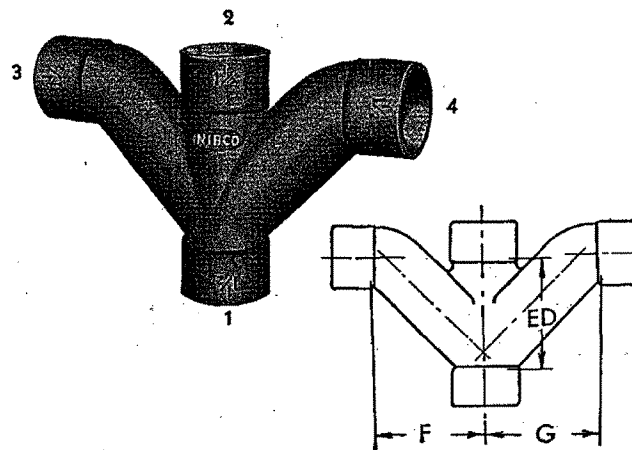
835 — DOUBLE SANITARY TEE
Copper to Copper to Copper to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. FE	Dim. G	Dim. H
$\frac{1}{4}$ " x $\frac{1}{4}$ " x $\frac{1}{4}$ " x $\frac{1}{4}$ "	\$ 2.15	1.26	$2\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{2}$ "	3.10	1.78	$2\frac{3}{4}$	$1\frac{3}{8}$	$1\frac{3}{8}$
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{4}$ " x $\frac{1}{4}$ "	3.10	1.59	$2\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$
2" x 2" x 2" x 2"	4.70	2.62	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{1}{2}$
2" x 2" x $\frac{1}{2}$ " x $\frac{1}{2}$ "	4.70	2.08	$2\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$
2" x 2" x $\frac{1}{4}$ " x $\frac{1}{4}$ "	4.70	1.76	$2\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$
3" x 3" x 3" x 3"	9.40	7.59	$5\frac{1}{8}$	$3\frac{3}{4}$	$3\frac{3}{4}$
3" x 3" x 2" x 2"	9.40	4.04	$3\frac{1}{8}$	$2\frac{1}{2}$	$2\frac{1}{2}$
3" x 3" x $\frac{1}{2}$ " x $\frac{1}{2}$ "	9.40	3.58	3	$2\frac{1}{2}$	$2\frac{1}{2}$
4" x 4" x 4" x 4"	15.05	10.25	$6\frac{3}{8}$	$4\frac{1}{4}$	$4\frac{1}{4}$
4" x 4" x 3" x 3"	15.05	7.88	$5\frac{1}{8}$	$3\frac{3}{4}$	$3\frac{3}{4}$
4" x 4" x 2" x 2"	15.05	6.25	$3\frac{3}{8}$	$3\frac{1}{4}$	$3\frac{1}{4}$
6" x 6" x 6" x 6"	62.10	34.80	$9\frac{1}{8}$	$6\frac{1}{2}$	$6\frac{1}{2}$
6" x 6" x 4" x 4"	62.10	27.85	$6\frac{3}{8}$	$5\frac{1}{8}$	$5\frac{1}{8}$
8" x 8" x 8" x 8"	79.05	60.00	$10\frac{1}{8}$	$6\frac{1}{2}$	$6\frac{1}{2}$
8" x 8" x 6" x 6"	79.05	55.50	$10\frac{1}{8}$	$6\frac{1}{4}$	$6\frac{1}{4}$



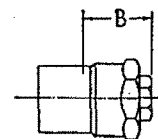
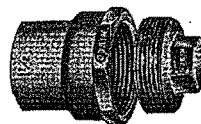
816 — FITTING CLEAN-OUTS

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A
1"	\$ 1.05	.44	$1\frac{1}{8}$
$\frac{1}{4}$ "	1.20	.67	$1\frac{1}{2}$
$\frac{1}{2}$ "	1.60	.86	$1\frac{5}{8}$
2"	2.00	1.23	$1\frac{7}{8}$
3"	3.90	4.00	$1\frac{1}{2}$
4"	7.00	6.66	$2\frac{3}{8}$
6"	20.00	28.40	$2\frac{7}{8}$



836 — DOUBLE LONG-TURN T-Y'S
Copper to Copper to Copper to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. ED	Dim. F	Dim. G
$\frac{1}{4}$ " x $\frac{1}{4}$ " x $\frac{1}{4}$ " x $\frac{1}{4}$ "	\$ 3.20	1.81	$2\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{2}$ "	3.95	2.60	$2\frac{3}{4}$	$1\frac{3}{8}$	$1\frac{3}{8}$
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{4}$ " x $\frac{1}{4}$ "	3.95	2.31	$2\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$
2" x 2" x 2" x 2"	6.30	4.28	$3\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{1}{2}$
2" x 2" x $\frac{1}{2}$ " x $\frac{1}{2}$ "	6.30	3.34	$2\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$
2" x 2" x $\frac{1}{4}$ " x $\frac{1}{4}$ "	6.30	3.25	$2\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$
3" x 3" x 3" x 3"	12.75	8.22	$5\frac{1}{8}$	$3\frac{3}{4}$	$3\frac{3}{4}$
3" x 3" x 2" x 2"	12.75	5.81	$3\frac{1}{8}$	$2\frac{1}{2}$	$2\frac{1}{2}$
3" x 3" x $\frac{1}{2}$ " x $\frac{1}{2}$ "	12.75	4.07	3	$2\frac{1}{2}$	$2\frac{1}{2}$
4" x 4" x 4" x 4"	19.75	17.75	$6\frac{3}{8}$	$4\frac{1}{4}$	$4\frac{1}{4}$
4" x 4" x 2" x 2"	19.75	7.10	$3\frac{3}{8}$	$3\frac{1}{4}$	$3\frac{1}{4}$
4" x 4" x $\frac{1}{2}$ " x $\frac{1}{2}$ "	19.75	6.95	$3\frac{1}{8}$	$4\frac{1}{8}$	$4\frac{1}{8}$
6" x 6" x 6" x 6"	79.05	52.50	$10\frac{1}{8}$	$9\frac{1}{8}$	$9\frac{1}{8}$



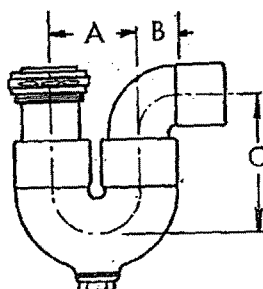
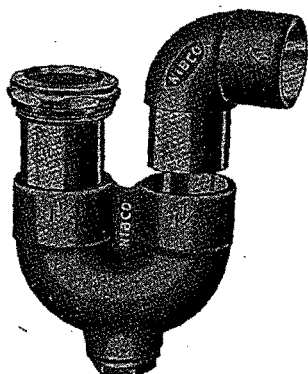
817 — TUBE END CLEAN-OUTS

Nominal Size	List Price Each	Approx. Net Wt.	Dim. B
1"	\$ 1.05	.44	$1\frac{1}{8}$
$\frac{1}{4}$ "	1.20	.67	$1\frac{1}{2}$
$\frac{1}{2}$ "	1.60	.83	$1\frac{7}{8}$
2"	2.00	1.22	$1\frac{9}{8}$
3"	3.90	3.88	$1\frac{1}{2}$
4"	7.00	6.69	$2\frac{3}{8}$
6"	20.00	29.00	$2\frac{7}{8}$

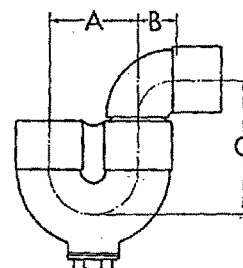
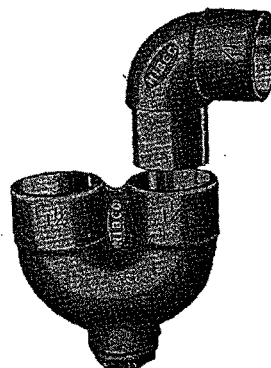
Drainage Fittings are accurately machined with a pitch of $\frac{1}{4}$ " to the foot.

CAST DRAINAGE FITTINGS

By NIBCO

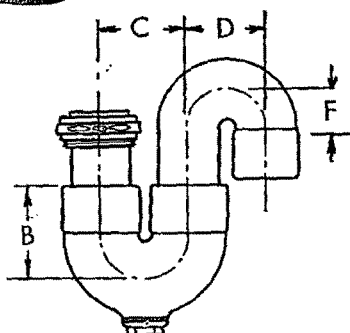
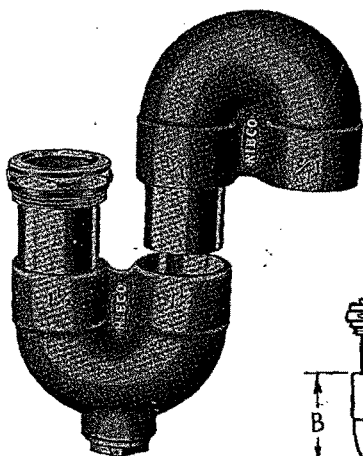
 Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

821 — P TRAPS, ROUGH

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C
1 $\frac{1}{4}$ "	\$4.85	2.02	2	$\frac{3}{4}$	3 $\frac{3}{8}$
1 $\frac{1}{2}$ "	5.70	3.03	2 $\frac{1}{2}$	1 $\frac{1}{8}$	4
2"	8.90	4.83	3	1 $\frac{1}{4}$	5 $\frac{3}{8}$

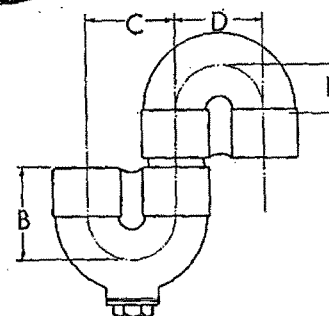
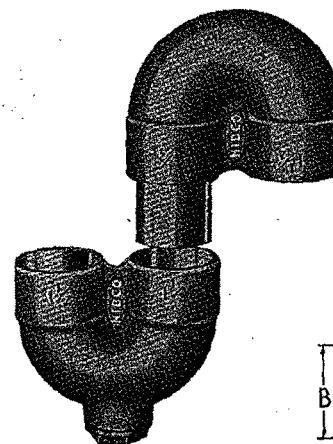

841 — LINE P-TRAPS, ROUGH

Copper to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C
1 $\frac{1}{4}$ "	\$ 4.20	1.71	2	$\frac{3}{4}$	3 $\frac{3}{8}$
1 $\frac{1}{2}$ "	5.00	2.59	2 $\frac{1}{2}$	1 $\frac{1}{8}$	4
2"	7.40	4.04	3	1 $\frac{1}{4}$	5 $\frac{3}{8}$
3"	18.65	10.56	4	1 $\frac{7}{8}$	7 $\frac{1}{8}$
4"	30.75	18.89	5	2 $\frac{3}{4}$	7 $\frac{1}{4}$


822 — S TRAPS, ROUGH

Nominal Size	List Price Each	Approx. Net Wt.	Dim. B	Dim. C	Dim. D	Dim. F
1 $\frac{1}{4}$ "	\$ 5.70	2.74	2 $\frac{5}{8}$	2	2	1 $\frac{1}{4}$
1 $\frac{1}{2}$ "	6.60	4.31	2 $\frac{3}{4}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$
2"	11.10	6.44	4 $\frac{3}{8}$	3	3	3 $\frac{3}{8}$


842 — LINE S-TRAPS, ROUGH

Copper to Copper

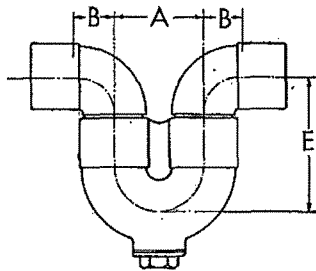
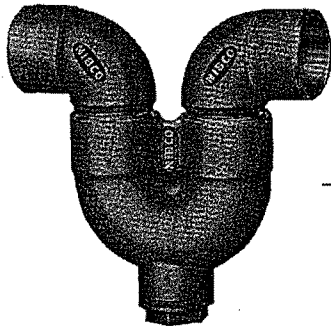
Nominal Size	List Price Each	Approx. Net Wt.	Dim. B	Dim. C	Dim. D	Dim. F
1 $\frac{1}{4}$ "	\$ 5.05	2.43	2 $\frac{5}{8}$	2	2	1 $\frac{1}{4}$
1 $\frac{1}{2}$ "	5.90	3.87	2 $\frac{3}{4}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$
2"	9.60	5.65	4 $\frac{3}{8}$	3	3	3 $\frac{3}{8}$
3"	22.45	14.00	5 $\frac{3}{4}$	4	4	4 $\frac{1}{4}$

 Drainage Fittings are accurately machined with a pitch of $\frac{1}{4}$ " to the foot.

CAST DRAINAGE FITTINGS

By NIBCO

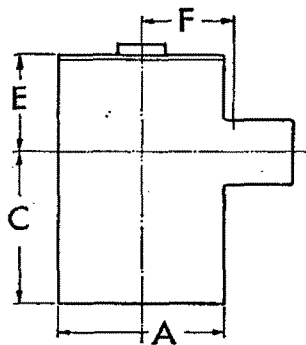
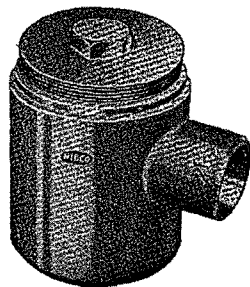
Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.



824 — STRAIGHT RUNNING TRAP, ROUGH

Copper to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. E
1 $\frac{1}{4}$ "	\$ 5.25	2.20	2	$\frac{7}{8}$	3 $\frac{3}{8}$
1 $\frac{1}{2}$ "	6.15	3.29	2 $\frac{1}{2}$	1 $\frac{1}{8}$	4
2"	9.95	5.49	3	1 $\frac{1}{4}$	5 $\frac{3}{8}$
3"	22.45	14.20	4	1 $\frac{1}{8}$	7 $\frac{3}{8}$
4"	37.15	26.03	5	2 $\frac{1}{8}$	7 $\frac{1}{4}$

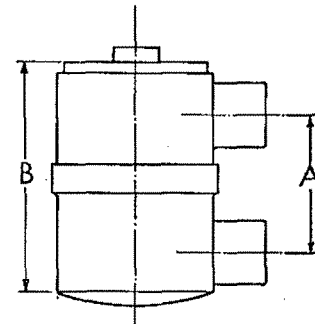
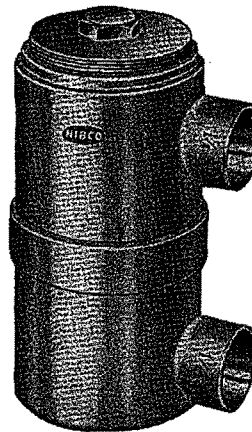


853 — 4" x 5" DRUM TRAPS

N. P. T. I. Inlet, Copper Outlet

Cap — Rough Brass Finish

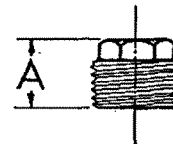
Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. C	Dim. E	Dim. F
1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ "	\$7.00	4.20	3 $\frac{3}{8}$	2 $\frac{1}{8}$	2 $\frac{7}{8}$	2
1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ "	7.00	4.59	4	2 $\frac{3}{8}$	2 $\frac{3}{8}$	2 $\frac{5}{8}$



854 — 4" x 8" DRUM TRAPS

Copper Inlet to Copper Outlet
Cap — Rough Brass Finish

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B
1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ "	\$12.80	6.44	4 $\frac{3}{8}$	7 $\frac{7}{8}$



818 — DRAINAGE PLUG

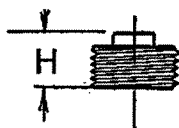
(N. P. T. Thread)

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A
1 $\frac{1}{4}$ "	\$.47	.21	1
1 $\frac{1}{2}$ "	.60	.26	1 $\frac{1}{8}$
2"	.95	.36	1 $\frac{1}{8}$
3"	2.15	.88	1 $\frac{3}{8}$
4"	4.00	1.29	1 $\frac{1}{2}$
6"	10.15	6.50	1 $\frac{3}{4}$

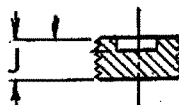
Drainage Fittings are accurately machined with a pitch of $\frac{1}{4}$ " to the foot.

CAST DRAINAGE FITTINGS

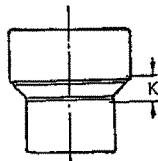
By NIBCO

 Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

819 — PLUGS WITH RAISED SQUARE

Nominal Size	List Price Each	Approx. Net Wt.	Dim. H
1 1/4"	\$.75	.38	1 1/8"
1 1/2"	.90	.56	1 1/2"
2"	1.15	.84	1 1/2"
3"	2.65	2.09	1 3/4"
4"	5.00	2.55	1 3/4"
6"	12.65	11.50	2 1/2"


820 — PLUGS WITH RECESSED SQUARE

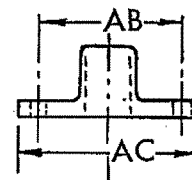
Nominal Size	List Price Each	Approx. Net Wt.	Dim. J
1 1/4"	\$.75	.32	1 1/8"
1 1/2"	.90	.53	1 1/2"
2"	1.15	.64	1 3/4"
3"	2.65	2.43	1 3/8"
4"	5.00	4.59	1 1/4"
6"	12.65	13.20	1 1/2"


823 — VENT INCREASERS

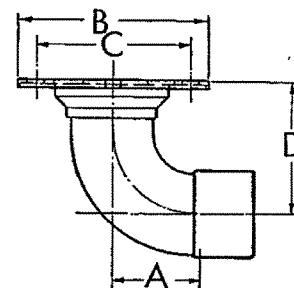
Copper to Copper

Nominal Size	List Price Each	Approx. Net Wt.	Dim. K
1 1/2" x 3"	\$ 3.40	1.98	3/4"
*1 1/2" x 2"	1.50	.63	1/2"
2" x 4"	5.80	3.49	1"
*2" x 3"	3.40	2.00	1/2"
3" x 5"	14.45	7.00	3/4"
*3" x 4"	5.80	3.74	3/4"
4" x 6"	19.00	10.00	1 1/4"
4" x 5"	14.45	7.20	1/2"

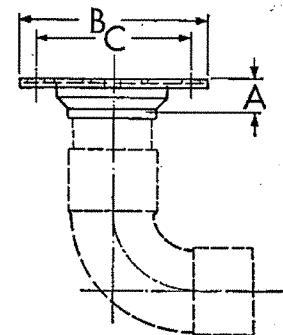
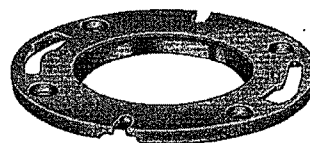
*Wrot copper increasers also available in these sizes. See figure No. 600, page 10 for prices. Cast fittings will be furnished unless wrot specifically ordered.


843 — FLOOR FLANGE VENT SUPPORT

Nominal Size	List Price Each	Approx. Net Wt.	Dim. AC	Dim. AB
1 1/2"	\$ 2.65	2.00	5	3 3/8
2"	3.50	3.14	6	4 1/4
3"	6.10	3.70	6	4 1/4
4"	7.60	5.25	5 1/8	5 1/8
6"	15.20	12.50	9	7 1/8
8"	26.60	16.80	11	10


850 — CLOSET BEND AND FLANGE

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C	Dim. D
3"	\$7.15	5.60	3 3/4"	7	6	4 1/8
4"	9.15	9.09	4 1/8"	7	6	6


851 — CLOSET FLANGES

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C
3"	\$3.35	2.15	1 1/8"	7	6
4"	3.35	2.27	1 1/8"	7	6

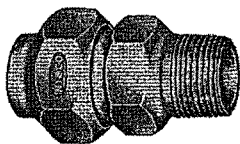
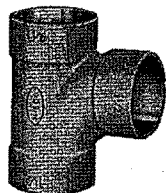
 Drainage Fittings are accurately machined with a pitch of $\frac{1}{4}$ " to the foot.



*"I know I'm money ahead
when I stick to the
NIBCO line!"*

"How do I know? That's easy. There's always a NIBCO fitting that's *right* for every spot on the job. That saves me a lot of bushings. Saves time. Saves solder. Saves space. They fit the tube right every time and make a better job. Well sir, since they don't cost me a penny more than ordinary fittings, I know I'm money ahead when I stick to NIBCO." You'll be money ahead, too, if you ask for NIBCO fittings at your jobber's.

CAST DRAINAGE FITTINGS



FLARED TUBE FITTINGS

CAST SOLDER FITTINGS



NIBCO



WROT FITTINGS

1933
4 OUNCES

1930
12 OUNCES

1928
18 OUNCES

1938
2 OUNCES

The Evolution of . . .

NIBCO WROT FITTINGS

Since NIBCO introduced copper plumbing 23 years ago our engineers have worked ceaselessly to give to you finer fittings—easier to handle—and lower in price. The progress made is quickly shown by the four Tees illustrated.

For example, the new WROT Tee for $\frac{1}{2}$ -inch copper tube weighs but 2 ounces. In 1928 the same size fitting weighed 1 lb. 2 ounces. Although it weighs but 11% of the first NIBCO Tee, the new one is stronger.

These new WROT fittings make quicker, cleaner, stronger joints and give unfailing service. Their use assures more profit in refrigeration, air conditioning and general piping jobs.

Figure NIBCO WROT Fittings on all jobs. Sizes range for $\frac{1}{4}$ -inch to 4 inches. See your jobber for specifications and prices. Write us for Free Sample.

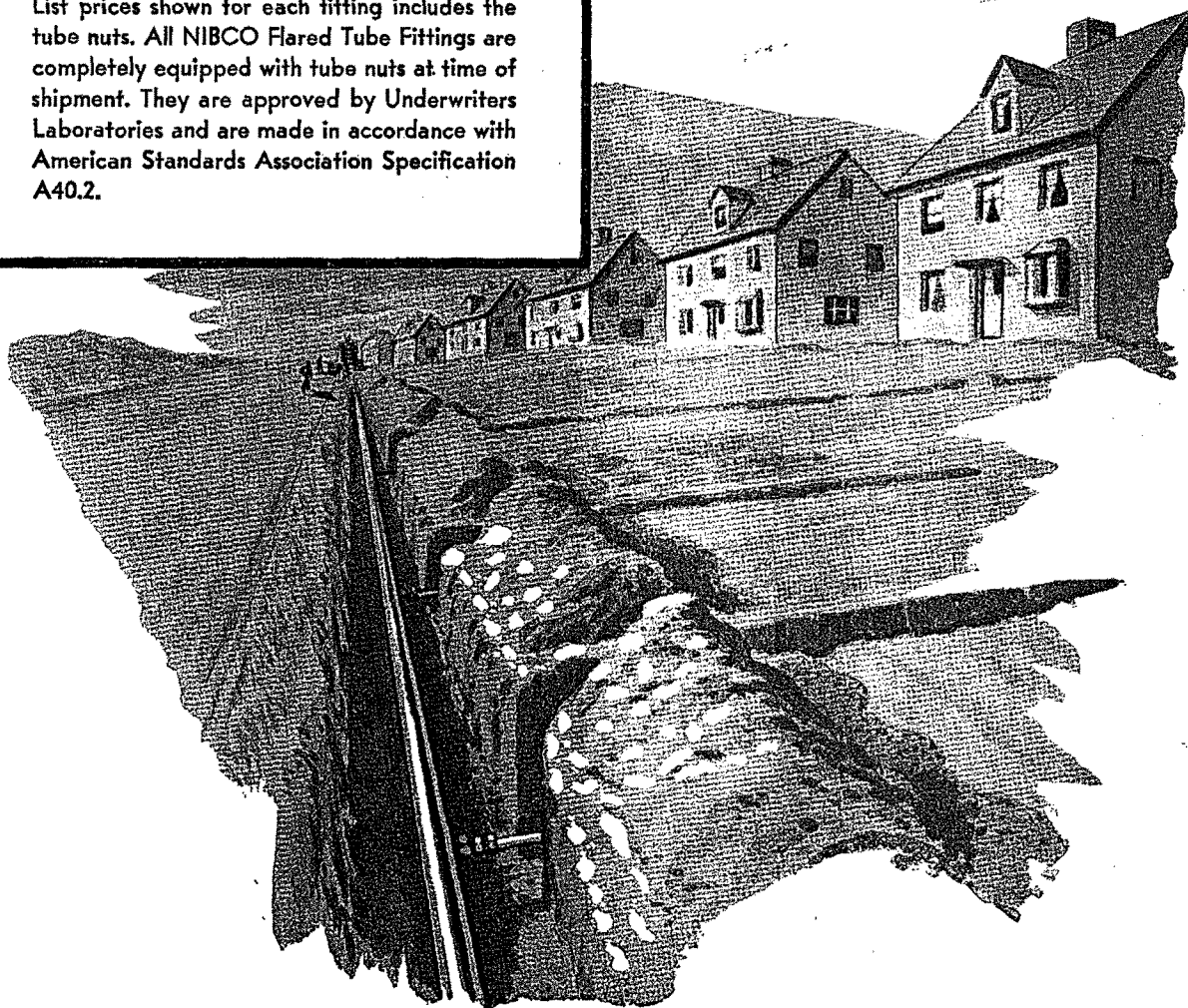
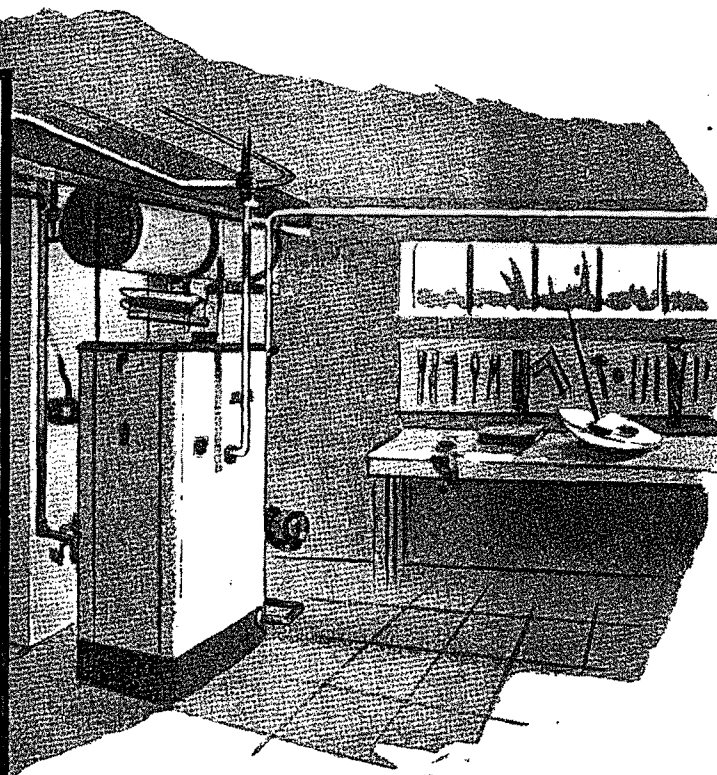
Section 4

FLARED TUBE FITTINGS

Typical examples of uses for NIBCO Flared Tube Fittings are shown in the sketches on this page. In street water services, these fittings are ideal because they are manufactured in sizes up to 3" nominal. The reducing fittings available from NIBCO production makes possible an economical job without difficulty or large numbers of reducers.

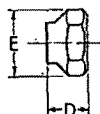
NIBCO Flared Tube Fittings are very popular for oil burner work and in any other location where inflammable liquids are carried in the line. Each joint is essentially a union connection, which can be broken without application of heat.

List prices shown for each fitting includes the tube nuts. All NIBCO Flared Tube Fittings are completely equipped with tube nuts at time of shipment. They are approved by Underwriters Laboratories and are made in accordance with American Standards Association Specification A40.2.



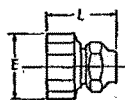
FLARED TUBE FITTINGS

By NIBCO

 Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.


500 — TUBE NUTS

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. E	Dim. D
$\frac{1}{8}$ "	\$.11	250S	.03	$\frac{3}{8}$ "	$\frac{1}{2}$ "
$\frac{3}{16}$ " O.D.	.11	250S	.035	$\frac{3}{8}$ "	$\frac{1}{2}$ "
$\frac{1}{4}$ "	.12	250M	.04	$\frac{3}{4}$ "	$\frac{1}{2}$ "
$\frac{3}{8}$ "	.12	150M	.103	$1\frac{1}{8}$ "	$\frac{3}{4}$ "
$\frac{1}{2}$ "	.15	150M	.114	$1\frac{1}{8}$ "	$\frac{1}{2}$ "
$\frac{5}{8}$ "	.18	100M	.17	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "
$\frac{3}{4}$ "	.20	100M	.216	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "
1"	.40	50M	.411	2	$1\frac{3}{8}$ "
$1\frac{1}{4}$ "	.60	35M	.51	$2\frac{1}{4}$ "	$1\frac{1}{2}$ "
$1\frac{1}{2}$ "	.90	25M	.77	$2\frac{3}{4}$ "	$1\frac{1}{2}$ "
2"	1.50		1.30	3 $\frac{3}{8}$ "	$2\frac{3}{4}$ "
$2\frac{1}{2}$ "	4.70		2.68	$4\frac{1}{8}$ "	$2\frac{1}{2}$ "
3"	6.60		3.26	4 $\frac{3}{4}$ "	2 $\frac{3}{4}$ "

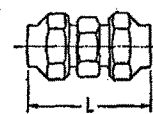


523 — FITTING REDUCERS

Nut Seat to Copper

Female thread is same thread as in tube nut. This fitting replaces tube nut and reduces size of flared connection.

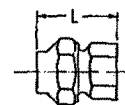
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. E	Dim. L
$\frac{1}{4}$ " x $\frac{1}{8}$ "	\$.40	100S	.12	$\frac{3}{4}$ "	$1\frac{3}{8}$ "
$\frac{3}{8}$ " x $\frac{1}{4}$ "	.50	100M	.20	$\frac{7}{8}$ "	$1\frac{1}{2}$ "
$\frac{3}{8}$ " x $\frac{1}{8}$ "	.50	100M	.16	$\frac{3}{4}$ "	$1\frac{3}{8}$ "
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.55	100M	.355	$1\frac{1}{4}$ "	2
$\frac{1}{2}$ " x $\frac{1}{4}$ "	.55	100M	.29	$1\frac{1}{4}$ "	$1\frac{3}{4}$ "
$\frac{5}{8}$ " x $\frac{1}{2}$ "	.65	75M	.40	$1\frac{3}{8}$ "	2
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.70	50M	.47	$1\frac{1}{2}$ "	2
$\frac{3}{4}$ " x $\frac{3}{8}$ "	.70	50M	.48	$1\frac{1}{2}$ "	$2\frac{3}{8}$ "
1" x $\frac{3}{4}$ "	1.20	35M	.83	$1\frac{1}{2}$ "	$2\frac{1}{2}$ "
1" x $\frac{1}{2}$ "	1.20	35M	.67	$1\frac{1}{2}$ "	$2\frac{1}{2}$ "
$1\frac{1}{4}$ " x 1"	2.15	25M	1.56	$2\frac{1}{8}$ "	3
$1\frac{1}{4}$ " x $\frac{3}{4}$ "	2.15	25M	1.49	$2\frac{1}{8}$ "	$2\frac{3}{4}$ "
$1\frac{1}{2}$ " x $1\frac{1}{4}$ "	3.05	20M	2.00	$2\frac{3}{4}$ "	$3\frac{1}{8}$ "
$1\frac{1}{2}$ " x 1"	3.05	20M	1.87	$2\frac{3}{4}$ "	3
2" x $1\frac{1}{2}$ "	4.10	15M	3.41	$3\frac{5}{8}$ "	$4\frac{1}{8}$ "
2" x $1\frac{1}{4}$ "	4.10	15M	3.23	$3\frac{5}{8}$ "	$3\frac{3}{4}$ "



501 — COUPLINGS

Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. L
$\frac{1}{8}$ "	\$.40	150S	.10	$1\frac{3}{8}$ "
$\frac{3}{16}$ " O. D.	.40	150S	.13	$1\frac{3}{8}$ "
$\frac{1}{4}$ "	.45	100S	.164	$1\frac{3}{8}$ "
$\frac{3}{8}$ "	.50	100M	.35	$2\frac{1}{8}$ "
$\frac{3}{8}$ " x $\frac{1}{4}$ "	.50	100M	.29	$2\frac{1}{2}$ "
$\frac{1}{2}$ "	.60	75M	.43	$2\frac{1}{2}$ "
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.60	75M	.43	$2\frac{1}{2}$ "
$\frac{5}{8}$ "	.80	50M	.70	3
$\frac{3}{4}$ "	1.00	35M	.713	3
$\frac{3}{4}$ " x $\frac{1}{2}$ "	1.00	35M	.74	$3\frac{1}{8}$ "
$\frac{3}{4}$ " x $\frac{3}{8}$ "	1.00	35M	.63	$3\frac{1}{8}$ "
1"	1.50	25M	1.426	$4\frac{1}{8}$ "
1" x $\frac{3}{4}$ "	1.50	25M	1.20	4
1" x $\frac{1}{2}$ "	1.50	25M	1.10	$3\frac{1}{2}$ "
$1\frac{1}{4}$ "	2.45	25L	1.91	$4\frac{1}{2}$ "
$1\frac{1}{4}$ " x 1"	2.45	25L	1.92	$4\frac{3}{8}$ "
$1\frac{1}{4}$ " x $\frac{3}{4}$ "	2.45	25L	1.60	$3\frac{1}{2}$ "
$1\frac{1}{2}$ "	3.80		2.88	$5\frac{1}{8}$ "
$1\frac{1}{2}$ " x $1\frac{1}{4}$ "	3.80		2.68	$4\frac{7}{8}$ "
$1\frac{1}{2}$ " x 1"	3.80		2.44	$4\frac{3}{8}$ "
2"	6.10		4.60	$6\frac{1}{8}$ "
2" x $1\frac{1}{2}$ "	6.10		4.02	$5\frac{1}{2}$ "
2" x $1\frac{1}{4}$ "	6.10		3.79	5 $\frac{3}{8}$ "
$2\frac{1}{2}$ "	12.75		9.96	$7\frac{1}{8}$ "
3"	24.55		12.25	7 $\frac{3}{4}$ "



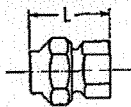
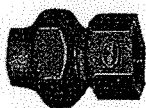
502 — 2 PART COUPLINGS WITH RING

Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. L
$\frac{1}{8}$ "	\$.28	150S	.085	$1\frac{1}{8}$ "
$\frac{1}{4}$ "	.32	100S	.12	$1\frac{1}{2}$ "
$\frac{3}{8}$ "	.35	100M	.225	$1\frac{3}{4}$ "
$\frac{1}{2}$ "	.45	75M	.385	2
$\frac{3}{4}$ "	.60	35M	.52	$2\frac{3}{8}$ "
1"	1.15	25M	1.04	$2\frac{1}{2}$ "
$1\frac{1}{4}$ "	1.80		1.61	3
$1\frac{1}{2}$ "	2.65		2.3	$3\frac{3}{4}$ "
2"	4.10		3.72	$3\frac{3}{4}$ "

FLARED TUBE FITTINGS

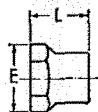
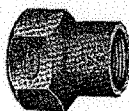
By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

503 — FEMALE ADAPTERS

Copper to N.P.T.I.

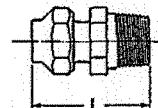
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. L
$\frac{1}{8}$ "	\$.28	150S	.085	$1\frac{1}{4}$ "
$\frac{1}{8}$ " x $\frac{1}{4}$ "	.32	150S	.10	$1\frac{3}{8}$ "
$\frac{5}{16}$ " O.D. x $\frac{1}{4}$ "	.32	150S	.11	$1\frac{7}{8}$ "
$\frac{3}{8}$ " O.D. x $\frac{1}{8}$ "	.28	150S	.09	$1\frac{3}{8}$ "
$\frac{1}{4}$ "	.32	100S	.125	$1\frac{7}{8}$ "
$\frac{1}{4}$ " x $\frac{3}{4}$ "	.60	100M	.29	$1\frac{5}{8}$ "
$\frac{1}{4}$ " x $\frac{1}{2}$ "	.45	100M	.21	$1\frac{1}{8}$ "
$\frac{1}{4}$ " x $\frac{3}{8}$ "	.35	100S	.14	$1\frac{1}{2}$ "
$\frac{1}{4}$ " x $\frac{1}{8}$ "	.32	100S	.13	$1\frac{3}{8}$ "
$\frac{3}{8}$ "	.35	150S	.208	$1\frac{1}{2}$ "
$\frac{3}{8}$ " x $\frac{3}{4}$ "	.60	100M	.37	$1\frac{7}{8}$ "
$\frac{3}{8}$ " x $\frac{1}{2}$ "	.45	100M	.30	$1\frac{3}{4}$ "
$\frac{3}{8}$ " x $\frac{1}{4}$ "	.35	150M	.24	$1\frac{1}{8}$ "
$\frac{1}{2}$ "	.45	100M	.359	$1\frac{7}{8}$ "
$\frac{1}{2}$ " x 1 "	1.15	75M	.66	$2\frac{1}{8}$ "
$\frac{1}{2}$ " x $\frac{3}{4}$ "	.60	50M	.39	$1\frac{1}{8}$ "
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.45	100M	.42	$1\frac{3}{8}$ "
$\frac{1}{2}$ " x $\frac{1}{4}$ "	.45	100M	.41	$1\frac{1}{8}$ "
$\frac{3}{4}$ " x $\frac{3}{4}$ "	.60	50M	.49	2"
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.55	50M	.41	2"
$\frac{3}{4}$ "	.60	35M	.502	2"
$\frac{3}{4}$ " x 1 "	1.15	25M	.76	$2\frac{1}{8}$ "
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.60	35M	.45	$1\frac{3}{4}$ "
$\frac{3}{4}$ " x $\frac{3}{8}$ "	.60	35M	.46	$1\frac{3}{4}$ "
1"	1.15	25M	1.026	2 $\frac{3}{4}$ "
1" x $1\frac{1}{4}$ "	1.80	25M	1.38	3"
1" x $\frac{3}{4}$ "	1.15	25M	1.11	2 $\frac{3}{4}$ "
$1\frac{1}{4}$ "	1.80		1.60	3"
$1\frac{1}{4}$ " x 1 "	1.80		1.82	$3\frac{1}{4}$ "
$1\frac{1}{2}$ "	2.65		1.99	$3\frac{3}{4}$ "
2"	4.10		3.31	$3\frac{3}{4}$ "
$2\frac{1}{2}$ "	7.85		6.56	4 $\frac{3}{4}$ "
3"	16.40		8.10	4 $\frac{3}{4}$ "



500-3 — TUBE NUTS

Nut Seat to N.P.T.I.

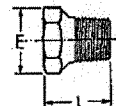
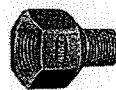
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. E	Dim. L
$\frac{1}{8}$ "	\$.15	250S	.07	$\frac{3}{4}$ "	$1\frac{1}{8}$ "
$\frac{1}{4}$ "	.17	250S	.10	$\frac{1}{2}$ "	$1\frac{1}{8}$ "
$\frac{3}{8}$ "	.23	250M	.13	1"	$1\frac{1}{4}$ "
$\frac{1}{2}$ "	.30	100M	.21	$1\frac{1}{4}$ "	$1\frac{5}{8}$ "
$\frac{3}{4}$ "	.40	75M	.35	$1\frac{3}{4}$ "	$1\frac{7}{8}$ "
1"	.60	50M	.79	2"	$2\frac{1}{8}$ "
$1\frac{1}{4}$ "	1.05	35M	1.26	2 $\frac{3}{4}$ "	$2\frac{1}{2}$ "
$1\frac{1}{2}$ "	1.50	25M	1.52	3"	3"
2"	2.80		2.11	$3\frac{1}{2}$ "	$3\frac{3}{4}$ "



504 — MALE ADAPTERS

Copper to N.P.T.E.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. L
$\frac{1}{8}$ "	\$.28	150S	.07	$1\frac{1}{2}$ "
$\frac{1}{8}$ " x $\frac{1}{4}$ "	.32	150S	.09	$1\frac{3}{8}$ "
$\frac{5}{16}$ " O.D. x $\frac{1}{4}$ "	.32	150S	.10	$1\frac{7}{8}$ "
$\frac{3}{8}$ " O.D. x $\frac{1}{8}$ "	.28	150S	.08	$1\frac{3}{8}$ "
$\frac{1}{4}$ "	.32	100S	.12	$1\frac{7}{8}$ "
$\frac{1}{4}$ " x $\frac{3}{4}$ "	.60	50M	.26	$1\frac{1}{8}$ "
$\frac{1}{4}$ " x $\frac{1}{2}$ "	.45	100M	.16	$1\frac{3}{8}$ "
$\frac{1}{4}$ " x $\frac{3}{8}$ "	.35	100M	.12	$1\frac{3}{4}$ "
$\frac{1}{4}$ " x $\frac{1}{8}$ "	.32	150M	.10	$1\frac{3}{4}$ "
$\frac{3}{8}$ "	.35	100M	.2565	$2\frac{1}{8}$ "
$\frac{3}{8}$ " x $\frac{3}{4}$ "	.60	50M	.35	$2\frac{1}{8}$ "
$\frac{3}{8}$ " x $\frac{1}{2}$ "	.45	75M	.30	$2\frac{1}{8}$ "
$\frac{3}{8}$ " x $\frac{1}{4}$ "	.35	100M	.24	$2\frac{1}{8}$ "
$\frac{1}{2}$ "	.45	75M	.2925	$2\frac{1}{4}$ "
$\frac{1}{2}$ " x 1 "	1.15	50M	.59	2 $\frac{3}{4}$ "
$\frac{1}{2}$ " x $\frac{3}{4}$ "	.60	50M	.40	$2\frac{3}{8}$ "
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.45	75M	.33	$2\frac{1}{4}$ "
$\frac{1}{2}$ " x $\frac{1}{4}$ "	.45	75M	.34	2 $\frac{3}{4}$ "
$\frac{3}{4}$ " x $\frac{3}{4}$ "	.60	50M	.53	2 $\frac{3}{4}$ "
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.55	50M	.46	2 $\frac{3}{4}$ "
$\frac{3}{4}$ "	.60	35M	.592	2 $\frac{3}{4}$ "
$\frac{3}{4}$ " x 1 "	1.15	35M	.61	$2\frac{1}{8}$ "
$\frac{3}{4}$ " x $\frac{1}{2}$ "	.60	35M	.51	$2\frac{1}{8}$ "
$\frac{3}{4}$ " x $\frac{3}{8}$ "	.60	35M	.46	$2\frac{1}{2}$ "
1"	1.15	25M	.9635	$3\frac{1}{8}$ "
1" x $1\frac{1}{4}$ "	1.80	20M	1.37	3 $\frac{3}{8}$ "
1" x $\frac{3}{4}$ "	1.15	25M	.94	3 $\frac{3}{8}$ "
$1\frac{1}{4}$ "	1.80		1.61	4"
$1\frac{1}{4}$ " x 1 "	1.80		1.34	$3\frac{1}{8}$ "
$1\frac{1}{2}$ "	2.65		2.09	4 $\frac{1}{8}$ "
2"	4.10		3.09	4 $\frac{3}{8}$ "
$2\frac{1}{2}$ "	7.85		6.34	$5\frac{1}{8}$ "
3"	16.40		7.83	6 $\frac{1}{8}$ "



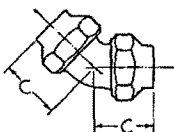
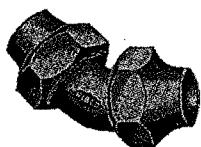
500-4 — TUBE NUTS

Nut Seat to N.P.T.E.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. E	Dim. L
$\frac{1}{8}$ "	\$.15	250S	.04	$\frac{1}{2}$ "	$1\frac{1}{8}$ "
$\frac{1}{4}$ "	.17	250S	.06	$\frac{3}{4}$ "	$1\frac{1}{8}$ "
$\frac{3}{8}$ "	.23	200M	.13	1"	$1\frac{1}{4}$ "
$\frac{1}{2}$ "	.30	100M	.25	$1\frac{1}{4}$ "	$1\frac{7}{8}$ "
$\frac{3}{4}$ "	.40	75M	.31	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "
1"	.60	50M	.50	$1\frac{3}{4}$ "	$2\frac{1}{8}$ "
$1\frac{1}{4}$ "	1.05	35M	1.13	2 $\frac{3}{4}$ "	$2\frac{1}{2}$ "
$1\frac{1}{2}$ "	1.50	25M	1.40	3"	3 $\frac{1}{4}$ "
2"	2.80		2.36	$3\frac{1}{2}$ "	3 $\frac{3}{4}$ "

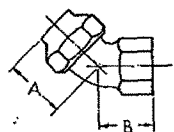
FLARED TUBE FITTINGS

By NIBCO

 Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

506 — 45° ELBOWS

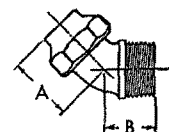
Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. C
$\frac{1}{8}$ "	\$.40	100S	.13	1
$\frac{1}{8}$ " O.D.	.40	100S	.135	$\frac{1}{8}$
$\frac{1}{4}$ "	.45	100M	.14	$\frac{1}{8}$
$\frac{3}{8}$ "	.50	100M	.34	$1\frac{1}{4}$
$\frac{1}{2}$ "	.60	75M	.49	$1\frac{3}{8}$
$\frac{5}{8}$ "	.80	50M	.62	$1\frac{5}{8}$
$\frac{3}{4}$ "	1.00	35M	.765	$1\frac{7}{8}$
1"	1.50	25M	1.40	$1\frac{7}{8}$
$1\frac{1}{4}$ "	2.45		1.97	$2\frac{1}{4}$
$1\frac{1}{2}$ "	3.80		3.32	$2\frac{3}{8}$
2"	6.10		4.92	$2\frac{7}{8}$
$2\frac{1}{2}$ "	14.40		9.52	$4\frac{1}{8}$
3"	24.55		11.20	$4\frac{3}{8}$


506-3 — 45° ELBOWS

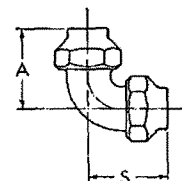
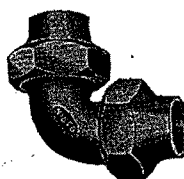
Copper to N.P.T.I.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. B
$\frac{1}{8}$ "	\$.40	100S	.08	1	$\frac{1}{8}$
$\frac{1}{4}$ "	.45	100S	.12	$\frac{1}{8}$	$\frac{7}{8}$
$\frac{3}{8}$ "	.50	100M	.30	$1\frac{1}{4}$	$1\frac{1}{8}$
$\frac{1}{2}$ "	.60	75M	.46	$1\frac{3}{8}$	$1\frac{1}{8}$
$\frac{3}{4}$ "	1.00	35M	.62	$1\frac{1}{2}$	$1\frac{1}{4}$
1"	1.50	25M	1.16	$1\frac{7}{8}$	$1\frac{1}{2}$
$1\frac{1}{4}$ "	2.45		1.82	$2\frac{1}{8}$	$1\frac{1}{8}$
$1\frac{1}{2}$ "	3.80		2.47	$2\frac{3}{8}$	$1\frac{3}{4}$
2"	6.10		3.93	3	2


506-4 45° ELBOWS

Copper to N.P.T.E.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. B
$\frac{1}{8}$ "	\$.40	100S	.06	$\frac{3}{4}$	$\frac{1}{8}$
$\frac{1}{4}$ "	.45	100S	.10	$\frac{1}{8}$	$\frac{7}{8}$
$\frac{3}{8}$ "	.50	100M	.22	$1\frac{1}{8}$	$\frac{7}{8}$
$\frac{1}{2}$ "	.60	75M	.36	$1\frac{3}{8}$	$1\frac{3}{8}$
$\frac{3}{4}$ "	1.00	35M	.525	$1\frac{5}{8}$	$1\frac{1}{4}$
1"	1.50	25M	.93	2	$1\frac{1}{2}$
$1\frac{1}{4}$ "	2.45		1.38	$2\frac{1}{8}$	$1\frac{3}{8}$
$1\frac{1}{2}$ "	3.80		1.89	$2\frac{3}{8}$	$1\frac{3}{8}$
2"	6.10		3.21	$2\frac{7}{8}$	2


507 — 90° ELBOWS

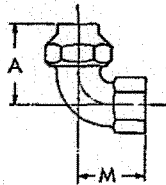
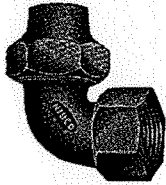
Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. S
$\frac{1}{8}$ "	\$.40	100S	.10	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{1}{8}$ " O.D.	.40	100S	.13	$1\frac{1}{4}$	$1\frac{1}{4}$
$\frac{1}{4}$ "	.45	100M	1.63	$1\frac{1}{4}$	$1\frac{1}{4}$
$\frac{3}{8}$ "	.50	100M	.40	$1\frac{3}{8}$	$1\frac{3}{8}$
$\frac{1}{2}$ "	.60	75M	.521	$1\frac{3}{4}$	$1\frac{3}{4}$
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.60	75M	.47	$1\frac{1}{2}$	$1\frac{3}{8}$
$\frac{5}{8}$ "	.80	50M	.72	$1\frac{7}{8}$	$1\frac{7}{8}$
$\frac{3}{4}$ "	1.00	35M	.85	$1\frac{7}{8}$	$1\frac{7}{8}$
$\frac{3}{4}$ " x $\frac{1}{2}$ "	1.00	35M	.73	2	$\frac{3}{4}$
1"	1.50	25M	1.71	$2\frac{1}{8}$	$2\frac{1}{8}$
1" x $\frac{3}{4}$ "	1.50	25M	1.20	$2\frac{1}{8}$	$2\frac{1}{8}$
$1\frac{1}{4}$ "	2.45		2.25	$2\frac{3}{4}$	$2\frac{3}{4}$
$1\frac{1}{2}$ "	3.80		3.77	$3\frac{1}{4}$	$3\frac{1}{4}$
2"	6.10		5.44	4	4
$2\frac{1}{2}$ "	14.40		10.95	5	5
3"	24.55		12.55	$5\frac{1}{2}$	$5\frac{1}{2}$

FLARED TUBE FITTINGS

By NIBCO

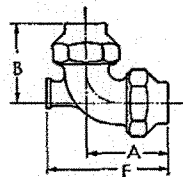
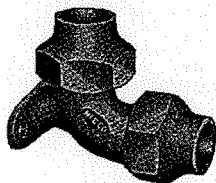
Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.



507-3 — 90° ELBOWS

Copper to N.P.T.I.

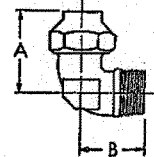
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. M
$\frac{1}{8}$ "	\$.40	100S	.09	1	$\frac{3}{8}$
$\frac{1}{8}$ " x $\frac{1}{4}$ "	.45	100S	.11	$1\frac{1}{8}$	1
$\frac{1}{8}$ " O.D. x $\frac{1}{8}$ "	.40	100S	.10	$1\frac{1}{8}$	$1\frac{1}{8}$
$\frac{1}{4}$ "	.45	100S	.13	$1\frac{1}{8}$	1
$\frac{1}{4}$ " x $\frac{3}{4}$ "	1.00	50M	.36	$1\frac{1}{2}$	$1\frac{1}{8}$
$\frac{1}{4}$ " x $\frac{1}{2}$ "	.60	75M	.32	$1\frac{1}{2}$	$1\frac{1}{8}$
$\frac{1}{4}$ " x $\frac{3}{8}$ "	.50	100M	.26	1 $\frac{3}{4}$	$1\frac{1}{8}$
$\frac{1}{4}$ " x $\frac{1}{8}$ "	.45	100M	.12	$1\frac{3}{8}$	$1\frac{1}{8}$
$\frac{3}{8}$ "	.50	75M	.36	1 $\frac{3}{4}$	$1\frac{1}{4}$
$\frac{3}{8}$ " x $\frac{3}{4}$ "	1.00	50M	.47	1 $\frac{3}{4}$	$1\frac{1}{8}$
$\frac{3}{8}$ " x $\frac{1}{2}$ "	.60	50M	.42	1 $\frac{3}{4}$	$1\frac{1}{2}$
$\frac{3}{8}$ " x $\frac{1}{4}$ "	.50	100M	.29	$1\frac{5}{8}$	$1\frac{1}{8}$
$\frac{1}{2}$ "	.60	50M	.49	1 $\frac{3}{4}$	$1\frac{1}{2}$
$\frac{1}{2}$ " x $\frac{3}{4}$ "	1.00	50M	.61	1 $\frac{3}{4}$	$1\frac{1}{8}$
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.60	75M	.41	$1\frac{1}{2}$	$1\frac{1}{8}$
$\frac{1}{2}$ " x $\frac{1}{4}$ "	.60	75M	.45	$1\frac{1}{2}$	$1\frac{1}{8}$
$\frac{5}{8}$ " x $\frac{3}{4}$ "	1.00	35M	.72	$1\frac{1}{2}$	$1\frac{1}{8}$
$\frac{5}{8}$ " x $\frac{1}{2}$ "	.80	50M	.65	$1\frac{1}{2}$	$1\frac{1}{2}$
$\frac{3}{4}$ "	1.00	35M	.70	1 $\frac{3}{4}$	1 $\frac{3}{4}$
$\frac{3}{4}$ " x 1"	1.50	25M	1.31	2 $\frac{3}{4}$	2 $\frac{1}{4}$
$\frac{3}{4}$ " x $\frac{1}{2}$ "	1.00	35M	.61	$1\frac{1}{2}$	$1\frac{1}{2}$
1"	1.50	25M	1.45	2 $\frac{1}{2}$	2 $\frac{1}{2}$
1" x $\frac{3}{4}$ "	1.50	25M	1.09	2 $\frac{3}{4}$	1 $\frac{3}{4}$
1" x $\frac{1}{2}$ "	1.50	25M	.93	2 $\frac{3}{4}$	$1\frac{1}{2}$
$1\frac{1}{4}$ "	2.45		2.05	2 $\frac{3}{4}$	2 $\frac{3}{4}$
$1\frac{1}{4}$ " x 1"	2.45		1.96	3	2 $\frac{5}{8}$
$1\frac{1}{2}$ "	3.80		2.88	3 $\frac{1}{4}$	2 $\frac{1}{2}$
2"	6.10		4.30	4	2 $\frac{7}{8}$
$2\frac{1}{2}$ "	14.40		7.58	5	2 $\frac{3}{4}$
3"	24.55		10.43	5 $\frac{1}{2}$	3 $\frac{3}{8}$



507-5 — 90° DROP EAR ELBOWS

Copper to Copper

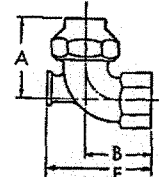
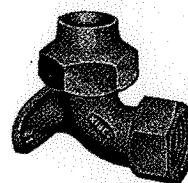
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. B	Dim. F
$\frac{3}{8}$ " x $\frac{3}{8}$ "	\$.75	75M	.46	$1\frac{1}{8}$	$1\frac{1}{8}$	2
$\frac{1}{2}$ " x $\frac{1}{2}$ "	1.00	50M	.64	$1\frac{1}{2}$	$1\frac{1}{2}$	2 $\frac{1}{8}$
$\frac{1}{2}$ " x $\frac{3}{8}$ "	1.00	50M	.58	1 $\frac{1}{2}$	1 $\frac{1}{2}$	2
$\frac{3}{4}$ " x $\frac{3}{4}$ "	1.50	35M	1.00	2 $\frac{1}{8}$	$1\frac{1}{2}$	2 $\frac{7}{8}$
1" x 1"	2.65	25M	1.80	2 $\frac{1}{2}$	2 $\frac{1}{8}$	3 $\frac{1}{4}$



507-4 — 90° ELBOWS

Copper to N.P.T.E.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. B
$\frac{1}{8}$ "	\$.40	100S	.06	$1\frac{1}{8}$	$1\frac{1}{8}$
$\frac{1}{8}$ " x $\frac{1}{4}$ "	.45	100S	.085	1	$1\frac{1}{8}$
$\frac{1}{8}$ " O.D. x $\frac{1}{8}$ "	.40	100S	.08	$1\frac{1}{8}$	1
$\frac{1}{4}$ "	.45	100S	.12	$1\frac{1}{8}$	1
$\frac{1}{4}$ " x $\frac{3}{4}$ "	1.00	50M	.35	$1\frac{1}{2}$	1 $\frac{3}{8}$
$\frac{1}{4}$ " x $\frac{1}{2}$ "	.60	75M	.23	$1\frac{1}{2}$	1 $\frac{1}{4}$
$\frac{1}{4}$ " x $\frac{3}{8}$ "	.50	100M	.12	$1\frac{1}{4}$	$1\frac{1}{8}$
$\frac{1}{4}$ " x $\frac{1}{8}$ "	.45	100M	.13	$1\frac{1}{4}$	1
$\frac{3}{8}$ "	.50	75M	.33	1 $\frac{3}{4}$	1 $\frac{1}{4}$
$\frac{3}{8}$ " x $\frac{3}{4}$ "	1.00	50M	.36	1 $\frac{3}{4}$	$1\frac{1}{8}$
$\frac{3}{8}$ " x $\frac{1}{2}$ "	.60	50M	.32	1 $\frac{3}{4}$	1 $\frac{3}{8}$
$\frac{3}{8}$ " x $\frac{1}{4}$ "	.50	100M	.31	$1\frac{3}{8}$	1 $\frac{1}{8}$
$\frac{1}{2}$ "	.60	50M	.45	2 $\frac{1}{4}$	1 $\frac{1}{2}$
$\frac{1}{2}$ " x $\frac{3}{4}$ "	1.00	50M	.44	2 $\frac{1}{4}$	$1\frac{1}{8}$
$\frac{1}{2}$ " x $\frac{3}{8}$ "	.60	75M	.37	1 $\frac{3}{4}$	1 $\frac{1}{4}$
$\frac{1}{2}$ " x $\frac{1}{4}$ "	.60	75M	.34	1 $\frac{3}{4}$	1 $\frac{1}{8}$
$\frac{5}{8}$ " x $\frac{3}{4}$ "	1.00	35M	.59	1 $\frac{3}{4}$	1 $\frac{3}{4}$
$\frac{5}{8}$ " x $\frac{1}{2}$ "	.80	50M	.47	$1\frac{1}{2}$	1 $\frac{3}{8}$
$\frac{3}{4}$ "	1.00	35M	.62	2 $\frac{3}{4}$	1 $\frac{3}{4}$
$\frac{3}{4}$ " x 1"	1.50	25M	.68	2	1 $\frac{3}{4}$
$\frac{3}{4}$ " x $\frac{1}{2}$ "	1.00	35M	.59	2 $\frac{3}{4}$	1 $\frac{1}{2}$
1"	1.50	25M	1.36	3 $\frac{1}{4}$	2 $\frac{1}{4}$
1" x $\frac{3}{4}$ "	1.50	25M	1.40	2 $\frac{1}{2}$	1 $\frac{3}{4}$
1" x $\frac{1}{2}$ "	1.50	25M	1.05	2 $\frac{1}{2}$	1 $\frac{3}{4}$
$1\frac{1}{4}$ "	2.45		1.73	4	2 $\frac{3}{4}$
$1\frac{1}{4}$ " x 1"	2.45		1.52	2 $\frac{1}{2}$	2 $\frac{1}{4}$
$1\frac{1}{2}$ "	3.80		2.80	4 $\frac{1}{4}$	2 $\frac{1}{2}$
2"	6.10		3.66	4 $\frac{3}{4}$	2 $\frac{7}{8}$
$2\frac{1}{2}$ "	14.40		6.95	5	3 $\frac{1}{4}$
3"	24.55		9.60	5 $\frac{1}{2}$	3 $\frac{1}{2}$



507-3-5 — 90° DROP EAR ELBOWS

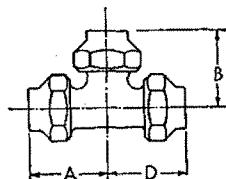
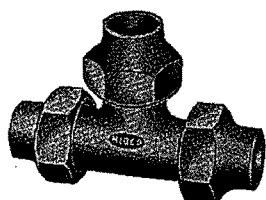
Copper to N.P.T.I.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. B	Dim. F
$\frac{3}{8}$ " x $\frac{3}{8}$ "	\$.75	75M	.42	1 $\frac{1}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{8}$
$\frac{1}{2}$ " x $\frac{1}{2}$ "	1.00	50M	.59	1 $\frac{1}{4}$	1 $\frac{1}{8}$	2 $\frac{1}{4}$
$\frac{1}{2}$ " x $\frac{3}{8}$ "	1.00	50M	.65	1 $\frac{1}{4}$	1 $\frac{1}{8}$	2 $\frac{1}{4}$
$\frac{3}{4}$ " x $\frac{3}{4}$ "	1.50	35M	.82	2	1 $\frac{1}{2}$	2 $\frac{1}{8}$
1" x 1"	2.65	25M	1.5	2 $\frac{3}{4}$	3 $\frac{1}{4}$	3 $\frac{1}{8}$

FLARED TUBE FITTINGS

By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.



511 — TEES

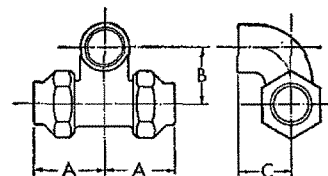
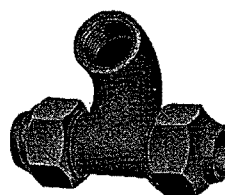
Copper to Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. B	Dim. D
$\frac{1}{8}$ "	.60	100M	.15	1	$1\frac{1}{8}$	1
$\frac{1}{8}$ " x $\frac{1}{8}$ " x $\frac{1}{4}$ "	.70	100M	.18	$1\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$
$\frac{1}{8}$ " O.D.	.60	100M	.19	$1\frac{1}{4}$	$1\frac{1}{8}$	$1\frac{1}{4}$
$\frac{1}{4}$ "	.70	100M	.24	$1\frac{1}{4}$	$1\frac{1}{8}$	$1\frac{1}{4}$
$\frac{1}{4}$ " x $\frac{1}{4}$ " x $\frac{3}{8}$ "	.70	100M	.36	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{3}{8}$
$\frac{1}{4}$ " x $\frac{1}{8}$ " x $\frac{1}{8}$ "	.70	100M	.19	$1\frac{3}{8}$	$1\frac{1}{8}$	$1\frac{3}{8}$
$\frac{3}{8}$ "	.70	75M	.587	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{3}{8}$
$\frac{3}{8}$ " x $\frac{3}{8}$ " x $\frac{3}{4}$ "	1.35	35M	.94	$1\frac{3}{8}$	$1\frac{3}{8}$	$1\frac{3}{8}$
$\frac{3}{8}$ " x $\frac{3}{8}$ " x $\frac{1}{2}$ "	1.00	50M	.74	$1\frac{3}{8}$	$1\frac{3}{8}$	$1\frac{3}{8}$
$\frac{3}{8}$ " x $\frac{3}{8}$ " x $\frac{1}{4}$ "	.70	75M	.45	$1\frac{3}{8}$	$1\frac{3}{8}$	$1\frac{3}{8}$
$\frac{3}{8}$ " x $\frac{1}{4}$ " x $\frac{3}{8}$ "	.70	75M	.45	$1\frac{1}{2}$	$1\frac{3}{8}$	$1\frac{1}{4}$
$\frac{3}{8}$ " x $\frac{1}{4}$ " x $\frac{1}{4}$ "	.70	75M	.37	$1\frac{3}{8}$	$1\frac{3}{8}$	$1\frac{3}{8}$
$\frac{1}{2}$ "	1.00	50M	.692	$1\frac{3}{4}$	$1\frac{3}{8}$	$1\frac{3}{4}$
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{3}{4}$ "	1.35	25M	1.04	$1\frac{3}{4}$	2	$1\frac{3}{4}$
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{3}{8}$ "	1.00	50M	.80	$1\frac{3}{8}$	$1\frac{1}{8}$	$1\frac{3}{8}$
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{4}$ "	1.00	50M	.52	$1\frac{3}{8}$	$1\frac{3}{8}$	$1\frac{3}{8}$
$\frac{1}{2}$ " x $\frac{3}{8}$ " x $\frac{3}{4}$ "	1.35	25M	.89	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{3}{8}$
$\frac{1}{2}$ " x $\frac{3}{8}$ " x $\frac{1}{2}$ "	1.00	50M	.80	$1\frac{3}{8}$	$1\frac{3}{4}$	$1\frac{1}{2}$
$\frac{1}{2}$ " x $\frac{3}{8}$ " x $\frac{3}{8}$ "	1.00	50M	.75	$1\frac{1}{2}$	$1\frac{1}{8}$	$1\frac{3}{8}$
$\frac{3}{4}$ "	1.20	35M	.96	$1\frac{1}{8}$	2	$1\frac{1}{8}$
$\frac{3}{4}$ "	1.35	25M	1.095	$1\frac{7}{8}$	2	$1\frac{7}{8}$
$\frac{3}{4}$ " x $\frac{3}{4}$ " x 1 "	2.45	20M	1.69	$2\frac{1}{4}$	$3\frac{3}{4}$	$2\frac{1}{4}$
$\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{1}{2}$ "	1.35	25M	1.17	$1\frac{3}{4}$	$1\frac{1}{8}$	$1\frac{3}{4}$
$\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{3}{8}$ "	1.35	25M	1.09	$1\frac{3}{8}$	$1\frac{7}{8}$	$1\frac{3}{8}$
$\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{1}{4}$ "	1.35	25M	.75	$1\frac{1}{8}$	$1\frac{3}{8}$	$1\frac{1}{8}$
$\frac{3}{4}$ " x $\frac{1}{2}$ " x 1 "	2.45	20M	1.50	$2\frac{1}{4}$	$3\frac{3}{4}$	$2\frac{1}{8}$
$\frac{3}{4}$ " x $\frac{1}{2}$ " x $\frac{3}{4}$ "	1.35	25M	1.19	$1\frac{7}{8}$	$2\frac{1}{8}$	$1\frac{1}{8}$
$\frac{3}{4}$ " x $\frac{1}{2}$ " x $\frac{1}{2}$ "	1.35	25M	1.06	$1\frac{7}{8}$	$1\frac{1}{8}$	$1\frac{3}{4}$
$\frac{3}{4}$ " x $\frac{1}{2}$ " x $\frac{3}{8}$ "	1.35	25M	.98	$1\frac{3}{8}$	2	$1\frac{1}{2}$
$\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{3}{4}$ "	1.35	25M	1.23	$1\frac{7}{8}$	$2\frac{1}{8}$	$1\frac{1}{8}$
$\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{1}{2}$ "	1.35	25M	1.02	$1\frac{1}{8}$	2	$1\frac{3}{8}$
$\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{3}{8}$ "	1.35	25M	.95	$1\frac{1}{8}$	2	$1\frac{3}{8}$
1 "	2.45	15M	2.119	$2\frac{1}{2}$	$2\frac{3}{4}$	$2\frac{1}{2}$
1 " x 1 " x $1\frac{1}{2}$ "	6.40		3.54	$2\frac{3}{8}$	$2\frac{3}{4}$	$2\frac{3}{8}$
1 " x 1 " x $1\frac{1}{4}$ "	4.20		2.66	$2\frac{3}{8}$	$2\frac{1}{8}$	$2\frac{3}{8}$
1 " x 1 " x $\frac{3}{4}$ "	2.45	15M	2.04	$2\frac{3}{8}$	$2\frac{1}{8}$	$2\frac{3}{8}$
1 " x 1 " x $\frac{1}{2}$ "	2.45	15M	1.86	$2\frac{3}{8}$	$2\frac{1}{8}$	$2\frac{3}{8}$
1 " x 1 " x $\frac{3}{8}$ "	2.45	15M	1.67	$2\frac{3}{8}$	$2\frac{1}{8}$	$2\frac{3}{8}$
1 " x $\frac{3}{4}$ " x 1 "	2.45	15M	2.02	$2\frac{3}{4}$	$2\frac{1}{8}$	$2\frac{1}{4}$
1 " x $\frac{3}{4}$ " x $\frac{3}{4}$ "	2.45	15M	1.75	$2\frac{1}{2}$	$2\frac{1}{8}$	2
1 " x $\frac{3}{4}$ " x $\frac{1}{2}$ "	2.45	15M	1.50	$2\frac{1}{2}$	$2\frac{1}{8}$	$1\frac{7}{8}$
1 " x $\frac{1}{2}$ " x 1 "	2.45	15M	1.98	$2\frac{3}{8}$	$2\frac{3}{8}$	$1\frac{7}{8}$
1 " x $\frac{1}{2}$ " x $\frac{3}{4}$ "	2.45	15M	1.57	$2\frac{1}{4}$	$2\frac{1}{8}$	$1\frac{3}{4}$
1 " x $\frac{1}{2}$ " x $\frac{1}{2}$ "	2.45	15M	1.36	2	$2\frac{1}{8}$	$1\frac{3}{4}$

511 — TEES

(Continued)

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. B	Dim. D
$1\frac{1}{4}$ "	\$4.20		3.09	$2\frac{3}{4}$	3	$2\frac{3}{4}$
$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x $1\frac{1}{2}$ "	6.40		4.14	$3\frac{1}{8}$	$3\frac{3}{4}$	$3\frac{1}{8}$
$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x 1 "	4.20		2.88	$2\frac{1}{2}$	$2\frac{3}{4}$	$2\frac{1}{2}$
$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x $\frac{3}{4}$ "	4.20		2.67	$2\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$
$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x $\frac{1}{2}$ "	4.20		2.37	$2\frac{1}{2}$	$2\frac{1}{8}$	$2\frac{1}{2}$
$1\frac{1}{4}$ " x 1 " x $1\frac{1}{4}$ "	4.20		3.09	$2\frac{1}{8}$	3	$2\frac{3}{8}$
$1\frac{1}{4}$ " x 1 " x 1 "	4.20		2.70	$2\frac{1}{8}$	$2\frac{3}{8}$	$2\frac{3}{8}$
$1\frac{1}{4}$ " x 1 " x $\frac{3}{4}$ "	4.20		2.31	$2\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{3}{8}$
$1\frac{1}{4}$ " x $\frac{3}{4}$ " x $1\frac{1}{4}$ "	4.20		2.83	$2\frac{3}{8}$	$2\frac{1}{8}$	$2\frac{1}{8}$
$1\frac{1}{4}$ " x $\frac{3}{4}$ " x 1 "	4.20		2.44	$2\frac{3}{8}$	$2\frac{3}{4}$	$2\frac{1}{8}$
$1\frac{1}{4}$ " x $\frac{1}{2}$ " x $1\frac{1}{4}$ "	4.20		2.70	$2\frac{3}{8}$	$2\frac{1}{8}$	$2\frac{1}{4}$
$1\frac{1}{2}$ "	6.40		5.57	$3\frac{1}{4}$	$3\frac{3}{4}$	$3\frac{1}{4}$
$1\frac{1}{2}$ " x $1\frac{1}{2}$ " x 2 "	9.90		6.53	$3\frac{3}{8}$	$3\frac{3}{8}$	$3\frac{3}{8}$
$1\frac{1}{2}$ " x $1\frac{1}{2}$ " x $1\frac{1}{4}$ "	6.40		4.74	$3\frac{1}{8}$	$3\frac{1}{8}$	$3\frac{1}{8}$
$1\frac{1}{2}$ " x $1\frac{1}{2}$ " x 1 "	6.40		4.35	$2\frac{1}{8}$	$2\frac{1}{8}$	$2\frac{1}{8}$
$1\frac{1}{2}$ " x $1\frac{1}{2}$ " x $\frac{3}{4}$ "	6.40		3.93	$2\frac{3}{8}$	$2\frac{3}{8}$	$2\frac{3}{8}$
$1\frac{1}{2}$ " x $1\frac{1}{2}$ " x $\frac{1}{2}$ "	6.40		3.65	$2\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$
$1\frac{1}{2}$ " x $1\frac{1}{4}$ " x $1\frac{1}{2}$ "	6.40		4.92	$3\frac{1}{8}$	$3\frac{1}{2}$	3
$1\frac{1}{2}$ " x $1\frac{1}{4}$ " x $1\frac{1}{4}$ "	6.40		4.09	$3\frac{1}{8}$	$3\frac{1}{8}$	3
$1\frac{1}{2}$ " x $1\frac{1}{4}$ " x 1 "	6.40		3.69	$3\frac{1}{8}$	$2\frac{1}{8}$	3
$1\frac{1}{2}$ " x $1\frac{1}{4}$ " x $\frac{3}{4}$ "	6.40		3.45	$2\frac{3}{4}$	$2\frac{3}{8}$	$2\frac{1}{2}$
$1\frac{1}{2}$ " x $1\frac{1}{4}$ " x $\frac{1}{2}$ "	6.40		3.29	$2\frac{3}{4}$	$2\frac{1}{8}$	$2\frac{1}{2}$
$1\frac{1}{2}$ " x 1 " x $1\frac{1}{2}$ "	6.40		4.35	3	$3\frac{3}{4}$	$2\frac{3}{8}$
$1\frac{1}{2}$ " x 1 " x $1\frac{1}{4}$ "	6.40		3.69	3	$3\frac{1}{8}$	$2\frac{3}{8}$
$1\frac{1}{2}$ " x 1 " x 1 "	6.40		3.27	3	$2\frac{1}{8}$	$2\frac{3}{8}$
2"	9.90		8.30	4	$3\frac{3}{4}$	4
2" x 2" x $1\frac{1}{2}$ "	9.90		7.81	$3\frac{1}{2}$	$3\frac{1}{8}$	$3\frac{1}{2}$
2" x 2" x $1\frac{1}{4}$ "	9.90		6.57	$3\frac{1}{4}$	$3\frac{1}{4}$	$3\frac{1}{4}$
2" x 2" x 1 "	9.90		6.21	3	$3\frac{1}{4}$	3
2" x 2" x $\frac{3}{4}$ "	9.90		5.85	$2\frac{3}{4}$	$2\frac{3}{8}$	$2\frac{3}{8}$
2" x 2" x $\frac{1}{2}$ "	9.90		5.50	$2\frac{3}{4}$	$2\frac{3}{8}$	$2\frac{3}{4}$
2" x $1\frac{1}{2}$ " x 2"	9.90		7.82	$3\frac{3}{4}$	4	$3\frac{1}{2}$
2" x $1\frac{1}{2}$ " x $1\frac{1}{2}$ "	9.90		6.64	$3\frac{1}{2}$	$3\frac{3}{4}$	$3\frac{3}{8}$
2" x $1\frac{1}{2}$ " x $1\frac{1}{4}$ "	9.90		6.13	$3\frac{1}{2}$	$3\frac{1}{2}$	$3\frac{3}{8}$
2" x $1\frac{1}{4}$ " x 2"	9.90		6.59	4	$3\frac{3}{4}$	$3\frac{1}{8}$
2" x $1\frac{1}{4}$ " x $1\frac{1}{2}$ "	9.90		6.13	$3\frac{1}{4}$	$3\frac{3}{8}$	3
$2\frac{1}{2}$ "	20.20		15.40	5	5	5
3"	39.15		18.85	$5\frac{1}{2}$	$5\frac{1}{2}$	$5\frac{1}{2}$



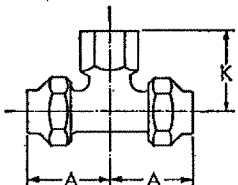
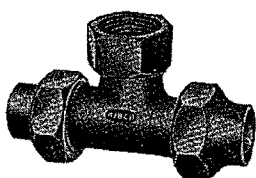
537 — WASH TRAY TEES

Copper to Copper to N.P.T.I.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. B	Dim. C
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{2}$ "	\$1.90	25M	.65	$1\frac{3}{4}$	2	$2\frac{3}{8}$

FLARED TUBE FITTINGS

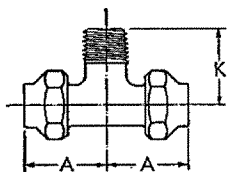
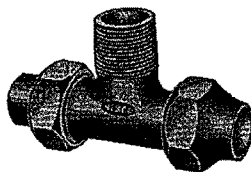
By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

512 — TEES

Copper to Copper to N.P.T.I.

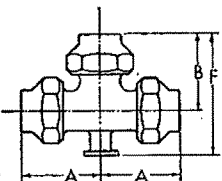
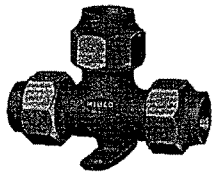
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. K
$\frac{1}{8}$ "	\$.60	100M	.13	$1\frac{1}{4}$	1
$\frac{1}{4}$ "	.70	100M	.20	$1\frac{1}{4}$	1
$\frac{3}{8}$ "	.70	75M	.48	$1\frac{1}{4}$	$1\frac{1}{4}$
$\frac{1}{2}$ "	1.00	50M	.68	$1\frac{1}{4}$	$1\frac{1}{4}$
$\frac{3}{4}$ "	1.35	25M	1.01	2	$1\frac{1}{4}$
1"	2.45	15M	1.92	$2\frac{1}{2}$	$2\frac{1}{4}$
$1\frac{1}{4}$ "	4.20	15M	3.04	3	$2\frac{3}{4}$
$1\frac{1}{2}$ "	6.40	15M	4.78	$3\frac{1}{4}$	$2\frac{1}{2}$
2"	9.90	15M	7.34	$3\frac{1}{2}$	3
$2\frac{1}{2}$ "	20.20	15M	12.72	5	$2\frac{1}{2}$
3"	39.15	15M	15.59	$5\frac{1}{2}$	$3\frac{1}{2}$



513 — TEES

Copper to Copper to N.P.T.E.

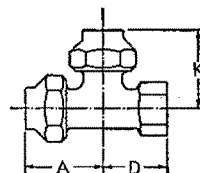
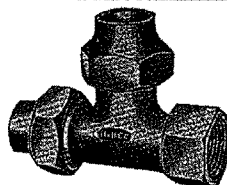
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. K
$\frac{1}{8}$ "	\$.60	100M	.12	$\frac{3}{8}$	$\frac{7}{8}$
$\frac{1}{4}$ "	.70	100M	.20	$1\frac{1}{8}$	1
$\frac{3}{8}$ "	.70	75M	.51	$1\frac{1}{2}$	$1\frac{1}{4}$
$\frac{1}{2}$ "	1.00	50M	.72	$1\frac{1}{2}$	$1\frac{1}{4}$
$\frac{3}{4}$ "	1.35	25M	1.09	2	$1\frac{1}{4}$
1"	2.45	15M	1.95	$2\frac{1}{2}$	$2\frac{3}{8}$
$1\frac{1}{4}$ "	4.20		2.99	3	$2\frac{1}{2}$
$1\frac{1}{2}$ "	6.40		4.08	$3\frac{1}{2}$	$2\frac{3}{8}$
2"	9.90		6.55	$3\frac{1}{2}$	$2\frac{1}{2}$
$2\frac{1}{2}$ "	20.20		11.75	5	$3\frac{1}{4}$
3"	39.15		14.82	$5\frac{1}{2}$	$3\frac{3}{8}$



511-5 — DROP EAR TEES

Copper to Copper to Copper

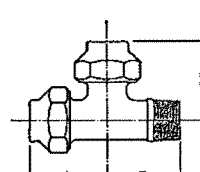
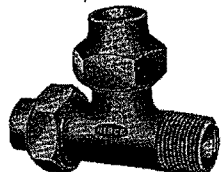
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. B	Dim. F
$\frac{3}{8}$ "	\$1.20	75M	.63	$1\frac{1}{4}$	$1\frac{1}{8}$	$2\frac{1}{8}$
$\frac{1}{2}$ "	1.50	50M	.84	$1\frac{1}{8}$	$1\frac{1}{8}$	$2\frac{3}{8}$
$\frac{3}{4}$ "	2.35	25M	1.28	$2\frac{1}{4}$	$2\frac{1}{4}$	$3\frac{1}{8}$
1"	3.95	15M	2.72	$2\frac{1}{2}$	$2\frac{3}{4}$	4



514 — TEES

Copper to N.P.T.I. to Copper

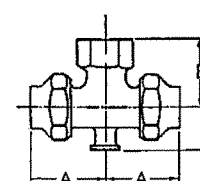
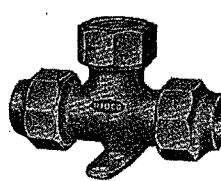
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. D	Dim. K
$\frac{1}{8}$ "	\$.60	100M	.12	1	$\frac{3}{4}$	1
$\frac{1}{4}$ "	.70	100M	.20	$1\frac{1}{4}$	1	$1\frac{1}{4}$
$\frac{3}{8}$ "	.70	75M	.51	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$
$\frac{1}{2}$ "	1.00	50M	.69	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{4}$
$\frac{3}{4}$ "	1.35	25M	1.05	$1\frac{1}{4}$	$1\frac{1}{4}$	$2\frac{1}{8}$
1"	2.45	15M	1.91	$2\frac{1}{2}$	$2\frac{1}{8}$	$2\frac{3}{4}$
$1\frac{1}{4}$ "	4.20		3.02	$2\frac{3}{4}$	$2\frac{3}{4}$	$3\frac{1}{8}$
$1\frac{1}{2}$ "	6.40		4.73	$3\frac{1}{4}$	$2\frac{3}{8}$	$3\frac{3}{4}$
2"	9.90		7.40	4	$2\frac{1}{8}$	$3\frac{3}{8}$
$2\frac{1}{2}$ "	20.20		12.75	5	5	$2\frac{1}{2}$
3"	39.15		15.70	$5\frac{1}{2}$	$5\frac{1}{2}$	$3\frac{3}{8}$



515 — TEES

Copper to N.P.T.E. to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. D	Dim. K
$\frac{1}{8}$ "	\$.60	100M	.15	1	$\frac{7}{8}$	1
$\frac{1}{4}$ "	.70	100M	.18	$1\frac{1}{4}$	$\frac{7}{8}$	$1\frac{1}{8}$
$\frac{3}{8}$ "	.70	75M	.49	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$
$\frac{1}{2}$ "	1.00	50M	.70	$1\frac{1}{4}$	$1\frac{1}{8}$	$1\frac{1}{4}$
$\frac{3}{4}$ "	1.35	25M	1.10	$1\frac{1}{4}$	$1\frac{1}{8}$	$2\frac{1}{4}$
1"	2.45	15M	2.00	$2\frac{1}{2}$	$2\frac{1}{4}$	$2\frac{3}{4}$
$1\frac{1}{4}$ "	4.20		3.01	$2\frac{3}{4}$	$2\frac{3}{8}$	$3\frac{1}{4}$
$1\frac{1}{2}$ "	6.40		4.23	$3\frac{1}{4}$	$3\frac{1}{8}$	$3\frac{3}{8}$
2"	9.90		6.60	4	$3\frac{1}{2}$	$3\frac{3}{8}$
$2\frac{1}{2}$ "	20.20		11.90	5	5	$3\frac{1}{4}$
3"	39.15		14.96	$5\frac{1}{2}$	$5\frac{1}{2}$	$3\frac{3}{8}$



512-5 — DROP EAR TEES

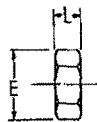
Copper to Copper to N.P.T.I.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. B	Dim. F
$\frac{3}{8}$ "	\$1.20	50M	.54	$1\frac{1}{8}$	$1\frac{1}{2}$	$1\frac{1}{4}$
$\frac{1}{2}$ "	1.50	50M	.81	$1\frac{1}{8}$	$1\frac{1}{4}$	$2\frac{1}{8}$
$\frac{3}{4}$ "	2.35	25M	1.09	$2\frac{1}{4}$	$2\frac{1}{4}$	$1\frac{1}{4}$
1"	3.95	15M	2.40	$2\frac{1}{2}$	$2\frac{1}{4}$	$3\frac{1}{2}$



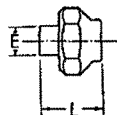
FLARED TUBE FITTINGS

By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

516 — FITTING CAPS

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. E	Dim. L
$\frac{1}{8}$ "	\$.21	150S	.045	$\frac{5}{8}$ "	$\frac{5}{8}$ "
$\frac{1}{4}$ "	.24	100S	.05	$\frac{3}{4}$ "	$\frac{5}{8}$ "
$\frac{3}{8}$ "	.27	150M	.09	$1\frac{3}{8}$ "	$\frac{5}{8}$ "
$\frac{1}{2}$ "	.30	100M	.12	$1\frac{5}{8}$ "	$\frac{5}{8}$ "
$\frac{3}{4}$ "	.50	75M	.19	$1\frac{1}{2}$ "	$\frac{5}{8}$ "
1"	.75	50M	.27	$1\frac{3}{4}$ "	$1\frac{3}{8}$ "
$1\frac{1}{4}$ "	1.50	25M	.38	$2\frac{1}{4}$ "	$\frac{7}{8}$ "
$1\frac{1}{2}$ "	2.05	25M	1.13	2 $\frac{7}{8}$ "	$1\frac{1}{8}$ "
2"	3.80	15M	1.38	$3\frac{1}{8}$ "	$1\frac{3}{8}$ "



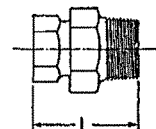
517 — TUBE END PLUGS

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. E	Dim. L
$\frac{1}{8}$ "	\$.21	150S	.037	$\frac{1}{2}$ "	$1\frac{1}{8}$ "
$\frac{1}{4}$ "	.24	100S	.10	$\frac{5}{8}$ "	$1\frac{1}{8}$ "
$\frac{3}{8}$ "	.27	100M	.22	$\frac{1}{2}$ "	$1\frac{3}{8}$ "
$\frac{1}{2}$ "	.30	75M	.27	$\frac{1}{2}$ "	$1\frac{5}{8}$ "
$\frac{3}{4}$ "	.50	50M	.41	$\frac{3}{4}$ "	$1\frac{3}{8}$ "
1"	.75	35M	.70	$\frac{3}{4}$ "	$1\frac{1}{8}$ "
$1\frac{1}{4}$ "	1.50	25M	1.09	1"	2"
$1\frac{1}{2}$ "	2.05	20M	1.79	1"	2 $\frac{3}{8}$ "
2"	3.80	15M	2.69	$1\frac{1}{4}$ "	2 $\frac{3}{4}$ "



518 — FLANGING TOOLS

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.
$\frac{1}{8}$ "	\$.45	150S	.04
$\frac{1}{4}$ "	.45	100S	.13
$\frac{3}{8}$ "	.55	100M	.19
$\frac{1}{2}$ "	.65	100M	.29
$\frac{3}{4}$ "	.80	75M	.535
1"	1.30	50M	.97
$1\frac{1}{4}$ "	3.60	25M	1.73
$1\frac{1}{2}$ "	5.00	20M	2.60
2"	6.40	10M	4.68
$2\frac{1}{2}$ "	13.10		7.00
3"	18.40		8.88



519 — TERMINAL FITTINGS

N.P.T.I. to Copper to N.P.T.E.

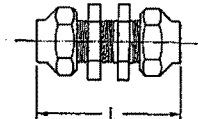
Tube slips thru male end, and flares against nose on female portion of the fitting. (1) denotes both size of female thread and nominal copper tube size. (2) denotes male thread size.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. L
(1) (2)				
$\frac{3}{8}$ " x $\frac{1}{2}$ "	\$.60	75M	.38	2
$\frac{1}{2}$ " x $\frac{3}{4}$ "	.70	50M	.58	2 $\frac{3}{8}$ "
$\frac{3}{4}$ " x 1"	1.00	35M	.93	2 $\frac{5}{8}$ "
1" x $1\frac{1}{4}$ "	1.75	25M	1.86	2 $\frac{7}{8}$ "
$1\frac{1}{4}$ " x $1\frac{1}{2}$ "	2.75	15M	2.31	3 $\frac{3}{8}$ "
$1\frac{1}{2}$ " x 2"	3.80		3.45	3 $\frac{1}{2}$ "



524 — TUBE STRAPS

Nominal Size	List Price Per M	Bag Qty.	Approx. Net Wt. Per 100 Pcs.
$\frac{1}{8}$ "	\$ 30.10	500S	.85
$\frac{1}{4}$ "	33.40	250S	1.00
$\frac{3}{8}$ "	42.60	500M	1.50
$\frac{1}{2}$ "	47.10	500M	1.55
$\frac{5}{8}$ "	56.20	250M	1.90
$\frac{3}{4}$ "	65.40	250M	2.05
1"	77.50	200M	3.30
$1\frac{1}{4}$ "	120.10	100M	5.20
$1\frac{1}{2}$ "	139.80	100M	5.70
2"	176.30	100L	7.50
3"	410.40	50L	10.40



530 — BULKHEAD FITTINGS

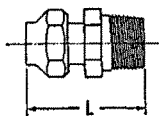
Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Net Wt. Approx.	L Dim.
$\frac{1}{8}$ "	\$.55	100M	.15	2
$\frac{1}{4}$ "	.55	100M	.22	2 $\frac{1}{4}$ "
$\frac{3}{8}$ "	.70	75M	.60	3
$\frac{1}{2}$ "	1.05	50M	.85	3 $\frac{1}{4}$ "
$\frac{3}{4}$ "	1.80	25M	1.35	4
1"	3.05	20M	2.35	4 $\frac{3}{4}$ "
$1\frac{1}{4}$ "	4.55		3.35	5 $\frac{1}{2}$ "
$1\frac{1}{2}$ "	7.90		5.35	5 $\frac{3}{8}$ "
2"	10.25		8.50	7

FLARED TUBE FITTINGS

By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

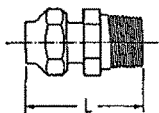


529 — OIL TANK FITTINGS

Copper to N.P.T.E.

Tube slips entirely thru fitting and is secured by gland ring pressure.
Please specify sizes of both connections.

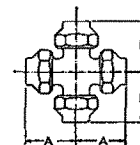
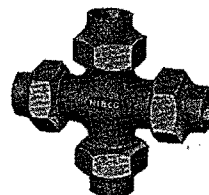
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. L
$\frac{1}{8}$ " x $\frac{3}{8}$ "	.55	100M	.125	1 $\frac{1}{8}$ "
$\frac{1}{8}$ " x $\frac{1}{4}$ "	.55	100S	.10	1 $\frac{1}{8}$ "
$\frac{1}{4}$ " x $\frac{3}{4}$ "	1.05	50M	.26	1 $\frac{1}{8}$ "
$\frac{1}{4}$ " x $\frac{1}{2}$ "	.70	100M	.18	1 $\frac{1}{8}$ "
$\frac{1}{4}$ " x $\frac{3}{8}$ "	.55	100M	.12	1 $\frac{1}{8}$ "
$\frac{3}{8}$ " x 1"	1.80	35M	.48	2 $\frac{5}{8}$ "
$\frac{3}{8}$ " x $\frac{3}{4}$ "	1.05	35M	.37	2 $\frac{1}{8}$ "
$\frac{3}{8}$ " x $\frac{1}{2}$ "	.70	75M	.28	2 $\frac{1}{8}$ "
$\frac{1}{2}$ " x 1"	1.80	35M	.53	2 $\frac{1}{2}$ "
$\frac{1}{2}$ " x $\frac{3}{4}$ "	1.05	35M	.40	2 $\frac{3}{4}$ "
$\frac{3}{4}$ " x 1"	1.80	25M	.60	2 $\frac{3}{4}$ "
1" x 1 $\frac{1}{4}$ "	3.05	20M	1.16	3 $\frac{3}{4}$ "



520 — RANGE BOILER COUPLINGS

Copper to N.P.T.E. to N.P.T.I.

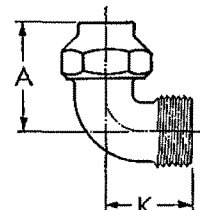
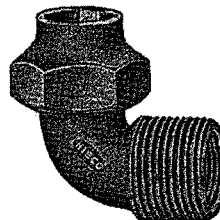
Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. L
$\frac{1}{2}$ " x 1" x $\frac{1}{2}$ "	.70	25M	.62	2 $\frac{1}{8}$ "
$\frac{1}{2}$ " x 1" x $\frac{3}{4}$ "	.70	25M	.49	2 $\frac{1}{8}$ "
$\frac{3}{4}$ " x 1" x $\frac{1}{2}$ "	.70	25M	.69	2 $\frac{1}{8}$ "
$\frac{3}{4}$ " x 1" x $\frac{3}{4}$ "	.70	25M	.64	2 $\frac{3}{4}$ "



535 — CROSSES

Copper to Copper to Copper to Copper

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. B
$\frac{3}{8}$ " x $\frac{3}{8}$ " x $\frac{3}{8}$ " x $\frac{3}{8}$ "	1.20	50M	.75	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{2}$ "	1.50	35M	1.10	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{4}$ " x $\frac{1}{4}$ "	1.50	35M	.80	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "
$\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{3}{4}$ "	2.35	25M	1.71	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "
$\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{1}{4}$ " x $\frac{1}{4}$ "	2.35	25M	1.40	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "
1" x 1" x 1" x 1"	4.05	15M	2.74	2 $\frac{1}{8}$ "	2 $\frac{1}{8}$ "
1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ "	6.60		4.50	3	3
1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ "	10.25		6.92	3 $\frac{3}{4}$ "	3 $\frac{3}{4}$ "
2" x 2" x 2" x 2"	15.75		11.09	4	4



521 — RANGE BOILER ELBOWS

Copper to N.P.T.E. to N.P.T.I.

Nominal Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. A	Dim. K
$\frac{1}{2}$ " x 1" x $\frac{1}{2}$ "	1.05	20M	.57	1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "
$\frac{3}{4}$ " x 1" x $\frac{1}{2}$ "	1.05	20M	.69	2 $\frac{1}{8}$ "	1 $\frac{1}{2}$ "
$\frac{3}{4}$ " x 1" x $\frac{3}{4}$ "	1.05	20M	.65	2 $\frac{1}{8}$ "	1 $\frac{1}{8}$ "

SERIES 100 — EXTRA HEAVY FITTINGS

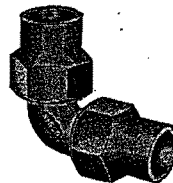
Cuts illustrate type of fitting. Any fitting in sizes from $\frac{3}{8}$ " to 2" inclusive can be supplied in extra-heavy pattern. For specifying, change the 5 to 1, viz. 501-101, 503-103. List prices for both standard and extra-heavy are same. See discount sheets for difference in discount applying. NIBCO Flared Fittings are approved by The Underwriters Laboratories.



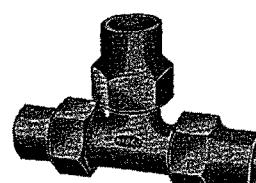
101 — COUPLING



104 — MALE ADAPTERS



107 — 90° ELBOWS



111 — TEE

The Right VALVE for the Job
is Important, Too!



NIBCO SOLDER END

GATE VALVE

Right for Copper Plumbing

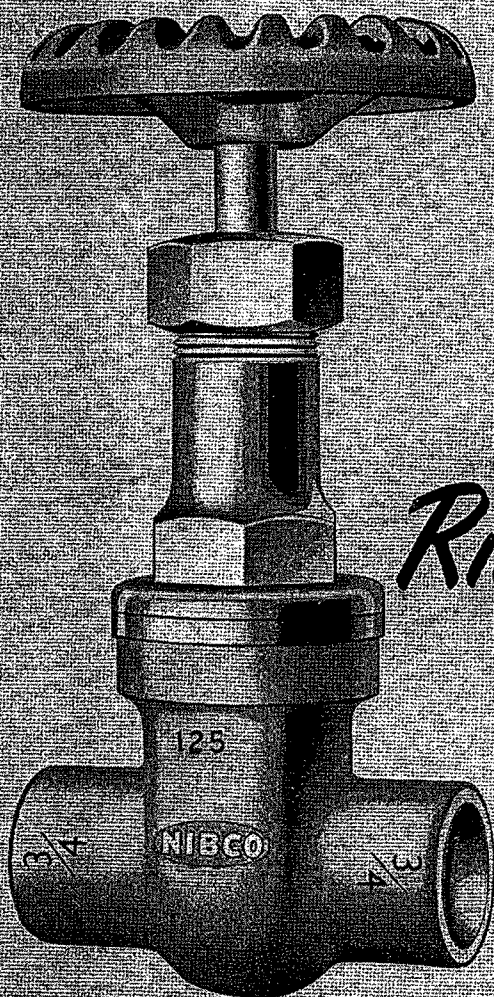


FIG. 729

NIBCO

You wouldn't install an old-fashioned pitcher pump in a modern home. No need to use makeshifts for gate valve installations either. At no extra cost the NIBCO Solder End Gate valve, fig. 729, makes you a better job on copper tube plumbing. Saves fittings. Saves labor. Gives you a better profit.

This quality of being *right* for the job in performance, appearance, and price is typical of the whole NIBCO line of valves and fittings for copper tube plumbing.

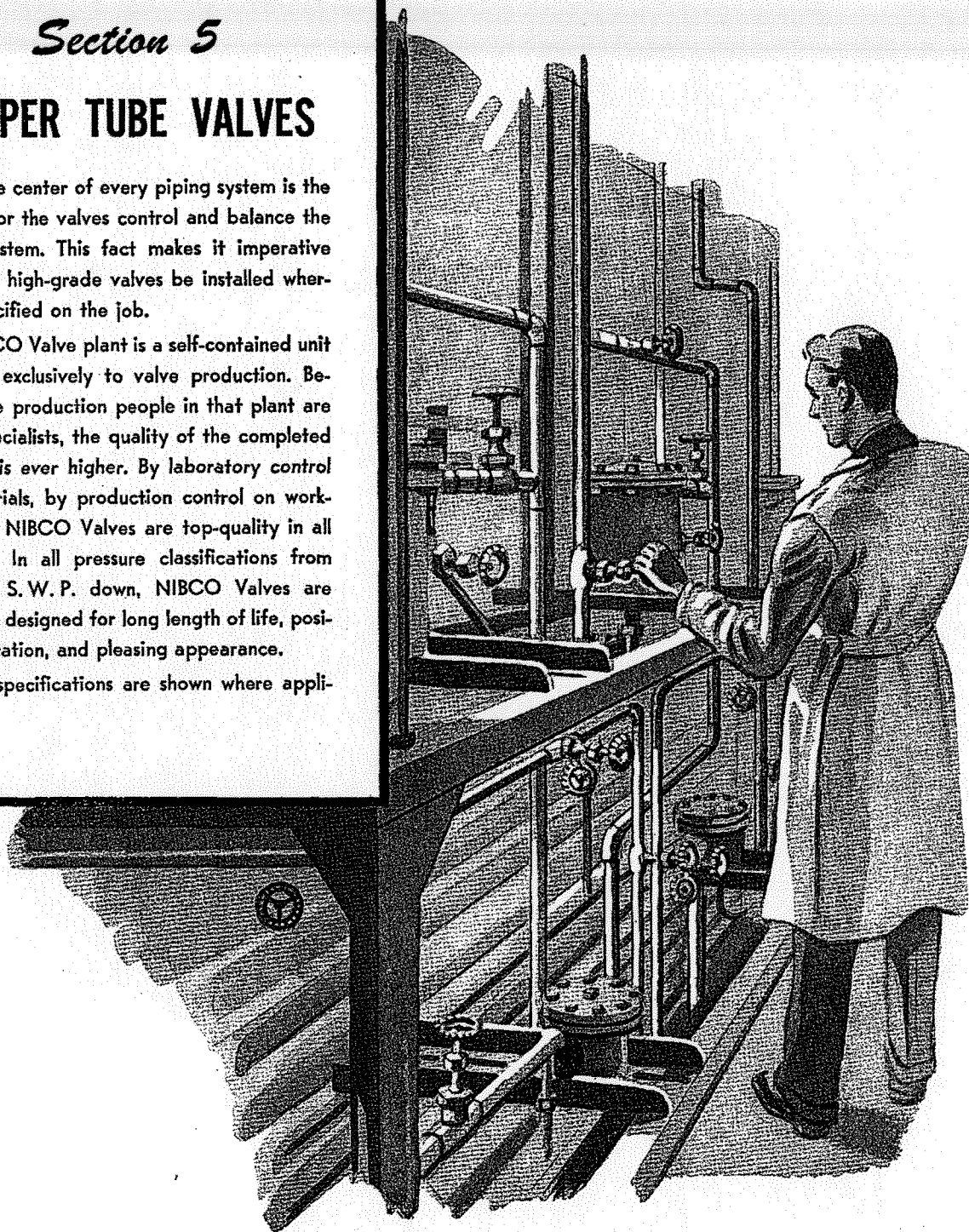
Section 5

COPPER TUBE VALVES

The nerve center of every piping system is the valves. For the valves control and balance the entire system. This fact makes it imperative that only high-grade valves be installed wherever specified on the job.

The NIBCO Valve plant is a self-contained unit devoted exclusively to valve production. Because the production people in that plant are valve specialists, the quality of the completed product is ever higher. By laboratory control on materials, by production control on workmanship, NIBCO Valves are top-quality in all respects. In all pressure classifications from 150 Lb. S.W.P. down, NIBCO Valves are ruggedly designed for long length of life, positive operation, and pleasing appearance.

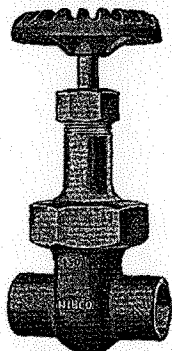
Federal specifications are shown where applicable.



COPPER TUBE VALVES

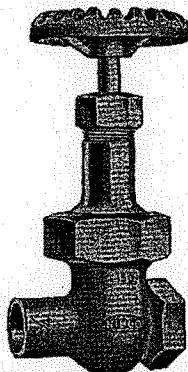
By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.



730 — GATE VALVES

Copper to Copper
150 POUNDS S.W.P.
300 POUNDS W.O.G.



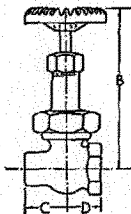
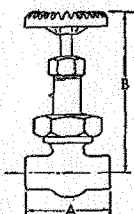
730-3 — GATE VALVES

Copper to N. P. T. I.
150 POUNDS S.W.P.
300 POUNDS W.O.G.

The finest and heaviest Gate Valve produced by NIBCO for use with copper water tube. Built to the exacting standards of the 150# Steam Working Pressure Valve and to meet Federal Specifications. Will operate efficiently under the most severe service conditions to which copper water tube can be subjected. Range of sizes thru 3" with union bonnet construction, rising stem and double parallel discs — sizes $3\frac{1}{2}$ " and 4" are non-rising stem with bolted bonnet construction.

FEATURES:

- Double Disc.
- Positive Seating.
- Rising Stem.
- No-Friction Stem Threads.
- Tested 90 pounds air pressure under water.
- Packing Friction Gland.
- Union Bonnet Nut.
- Repack Under Pressure.
- No-Hete Handwheel.

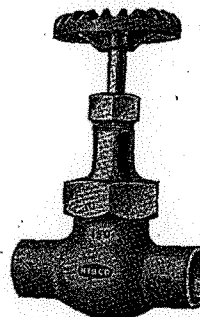


MATERIALS AND SPECIFICATIONS:

All parts are brass or bronze except handwheel which is cast aluminum, stem packing is graphite impregnated asbestos.

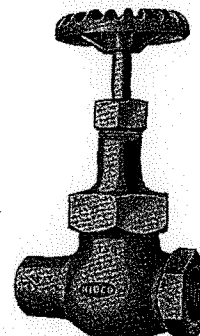
Nominal Size	List Price Each	Packaging Sales Carton	Master Carton	Approx. Net Wt.	Dim. A	Dim. Open B	Dim. C	Dim. D
$\frac{3}{8}$ "	\$ 4.70	5	60	.8	2 $\frac{1}{4}$	4 $\frac{1}{8}$	1 $\frac{1}{2}$	$\frac{7}{8}$
$\frac{1}{2}$ "	5.50	3	36	1.28	2 $\frac{7}{8}$	5 $\frac{1}{8}$	1 $\frac{3}{4}$	$\frac{3}{4}$
$\frac{3}{4}$ "	6.50	3	36	1.68	2 $\frac{3}{4}$	5 $\frac{7}{8}$	1 $\frac{3}{4}$	1 $\frac{1}{8}$
1"	7.70	3	30	2.75	3 $\frac{1}{4}$	7 $\frac{1}{8}$	1 $\frac{3}{4}$	1 $\frac{1}{4}$
1 $\frac{1}{4}$ "	10.30	2	16	3.95	3 $\frac{3}{8}$	8 $\frac{3}{8}$	1 $\frac{3}{4}$	1 $\frac{3}{8}$
1 $\frac{1}{2}$ "	13.20	2	12	5.64	4	9 $\frac{1}{8}$	2	1 $\frac{1}{2}$
2"	18.70	1	8	9.13	4 $\frac{9}{16}$	12 $\frac{1}{4}$	2 $\frac{3}{8}$	1 $\frac{3}{8}$
2 $\frac{1}{2}$ "	33.00	1	4	13.75	5 $\frac{1}{8}$	14 $\frac{1}{2}$	2 $\frac{3}{4}$	2 $\frac{3}{8}$
3"	49.00	1	2	21.7	6 $\frac{3}{8}$	17 $\frac{3}{8}$	3 $\frac{1}{8}$	2 $\frac{1}{8}$
*3 $\frac{1}{2}$ "	75.00	1	1	28.75	7 $\frac{1}{4}$	11 $\frac{1}{8}$	3 $\frac{3}{8}$	2 $\frac{5}{8}$
*4"	92.00	1	1	35.25	7 $\frac{1}{2}$	13 $\frac{1}{4}$	2 $\frac{3}{4}$	3 $\frac{1}{8}$

* — Bolted Bonnet Type and Non-Rising stem these sizes.



734 — GLOBE VALVES

Copper to Copper
150 POUNDS S.W.P.
300 POUNDS W.O.G.



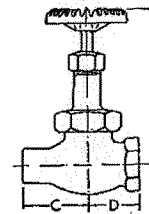
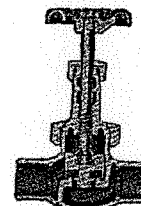
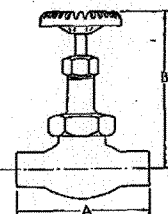
734-3 — GLOBE VALVES

Copper to N. P. T. I.
150 POUNDS S.W.P.
300 POUNDS W.O.G.

Carefully engineered and produced to the highest quality standards required of a 150# Steam Working Pressure Globe Valve. Will give years of trouble-free service under the most severe conditions to which copper water tube can be subjected. Union bonnet construction and slip-on disc holder facilitate maintenance. NIBCO composition steam discs are designed for maximum resiliency and long life.

FEATURES:

- Composition Steam Disc.
- Raised Seat.
- Incased Disc.
- Lock Disc Holder.
- Positive Seating.
- Tested 90 pounds air pressure under water.
- No-Friction Stem Threads.
- No-Hete Handwheel.
- Packing Friction Gland.
- Union Bonnet Nut.
- Repack Under Pressure.



MATERIALS AND SPECIFICATIONS:

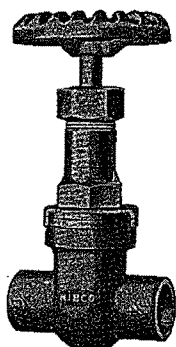
All parts are brass or bronze except handwheel which is cast aluminum, stem packing is graphite impregnated asbestos, seat disc is composition steam resistant.

Nominal Size	List Price Each	Packaging Sales Carton	Master Carton	Approx. Net Wt.	Dim. A	Dim. Open B	Dim. C	Dim. D
$\frac{1}{4}$ "	\$ 3.30	5	60	1.00	3	4	1 $\frac{1}{2}$	1 $\frac{1}{4}$
$\frac{3}{8}$ "	4.10	5	60	1.03	3 $\frac{1}{4}$	4 $\frac{1}{8}$	1 $\frac{3}{8}$	1 $\frac{3}{8}$
$\frac{1}{2}$ "	5.20	5	50	1.48	3 $\frac{3}{4}$	4 $\frac{3}{8}$	1 $\frac{3}{4}$	1 $\frac{1}{2}$
$\frac{3}{4}$ "	7.20	6	30	2.05	4 $\frac{3}{8}$	5 $\frac{1}{8}$	2 $\frac{1}{8}$	1 $\frac{1}{2}$
1"	9.80	5	25	3.30	5 $\frac{3}{8}$	6	2 $\frac{1}{8}$	1 $\frac{1}{2}$
1 $\frac{1}{4}$ "	13.40	1	10	4.70	5 $\frac{1}{2}$	6 $\frac{1}{8}$	2 $\frac{3}{4}$	2 $\frac{1}{2}$
1 $\frac{1}{2}$ "	16.70	1	5	6.58	6 $\frac{3}{8}$	7 $\frac{1}{4}$	3 $\frac{3}{8}$	2 $\frac{3}{8}$
2"	27.00	1	5	10.92	7 $\frac{1}{8}$	8 $\frac{1}{8}$	3 $\frac{3}{4}$	2 $\frac{1}{2}$

COPPER TUBE VALVES

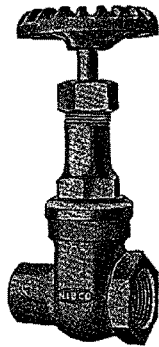
By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.



729 — GATE VALVES

Copper to Copper
125 POUNDS S.W.P.
200 POUNDS W.O.G.



729-3 — GATE VALVES

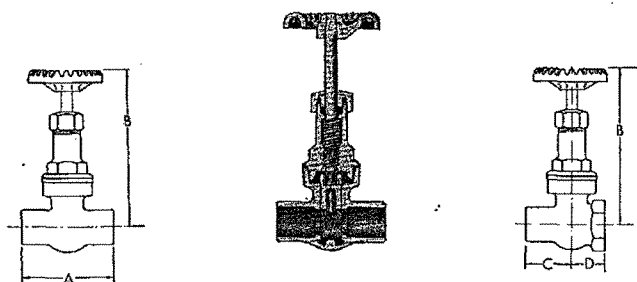
Copper to N. P. T. I.
125 POUNDS S.W.P.
200 POUNDS W.O.G.

Produced to rigid standards to meet Federal specifications and service requirements of the 125# Steam Working Pressure Gate Valves. The double parallel discs minimize seat wear, and insure even distribution of pressure over entire seat surface. Rising stem suits most general service needs as a glance will tell whether valve is open or closed.

FEATURES:

Rising Stem.
Repack Under Pressure.
Packing Friction Gland.
No-Friction Stem Threads.

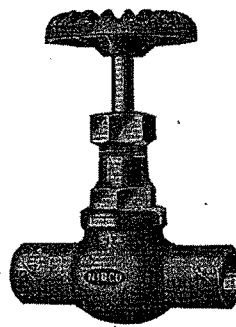
No-Hete Handwheel.
Tested 90 pounds air pressure
under water.



MATERIALS AND SPECIFICATIONS:

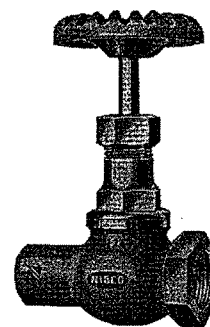
All parts are brass or bronze except handwheel which is cast aluminum, stem packing is graphite impregnated asbestos.

Nominal Size	List Price Each	Packaging Sales Carton	Master Carton	Approx. Net Wt.	Dim. A	Dim. Open B	Dim. C	Dim. D
$\frac{3}{8}$ "	2.80	6	72	.71	$2\frac{3}{32}$	$4\frac{1}{4}$	$1\frac{1}{8}$	$\frac{3}{32}$
$\frac{1}{2}$ "	3.05	4	48	1.12	$2\frac{1}{8}$	$5\frac{1}{8}$	$1\frac{3}{8}$	$1\frac{3}{32}$
$\frac{3}{4}$ "	4.00	3	36	1.55	$2\frac{1}{16}$	$5\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{8}$
1"	5.75	3	30	2.55	$3\frac{1}{4}$	$7\frac{5}{8}$	$1\frac{1}{2}$	$1\frac{3}{32}$
$1\frac{1}{4}$ "	8.15	2	16	3.61	$3\frac{3}{8}$	$8\frac{3}{8}$	$1\frac{3}{4}$	$1\frac{1}{2}$
$1\frac{1}{2}$ "	10.40	2	12	5.1	$3\frac{1}{2}$	$9\frac{1}{2}$	$1\frac{7}{8}$	$1\frac{1}{2}$
2"	14.70	1	8	8.05	$4\frac{1}{2}$	$12\frac{1}{4}$	$2\frac{1}{4}$	$1\frac{1}{4}$
$2\frac{1}{2}$ "	27.60	1	4	12.25	$5\frac{1}{8}$	$14\frac{1}{8}$	$2\frac{3}{4}$	$2\frac{1}{8}$
3"	41.00	1	2	17.87	$6\frac{1}{2}$	$17\frac{1}{4}$	$3\frac{1}{2}$	$2\frac{5}{8}$



738 — GLOBE VALVES

Copper to Copper
125 POUNDS S.W.P.
200 POUNDS W.O.G.



738-3 — GLOBE VALVES

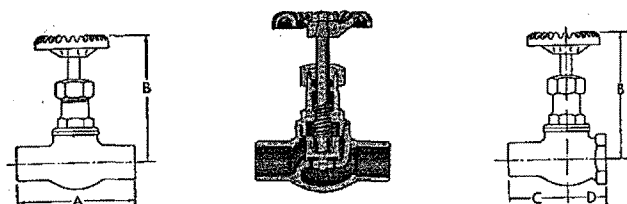
Copper to N. P. T. I.
125 POUNDS S.W.P.
200 POUNDS W.O.G.

This full bodied Globe Valve is a carefully designed precision valve to insure full flow when open and positive shut-off when closed. Heavily constructed as a 125# Steam Working Pressure general service valve. The long engagement of the no-friction stem threads insure long satisfactory service of both bonnet and stem.

FEATURES:

Composition Disc.
Positive Seating.
Packing Friction Gland.
No-Hete Handwheel.

No-Friction Stem Threads.
Tested 90 pounds air pressure
under water.



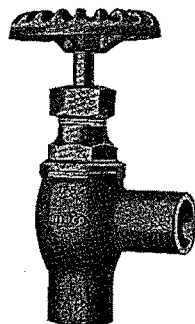
MATERIALS:

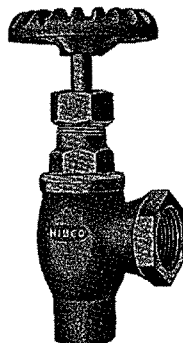
All parts are brass or bronze except handwheel which is cast aluminum, stem packing is graphite impregnated asbestos, seat disc is of quality composition material for long life.

Nominal Size	List Price Each	Packaging Sales Carton	Master Carton	Approx. Net Wt.	Dim. A	Dim. Open B	Dim. C	Dim. D
$\frac{1}{4}$ "	2.50	5	60	.90	3	$3\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$
$\frac{3}{8}$ "	3.20	5	60	.92	$3\frac{1}{4}$	$3\frac{3}{4}$	$1\frac{5}{8}$	$1\frac{5}{32}$
$\frac{1}{2}$ "	3.90	5	50	1.27	$3\frac{1}{2}$	$4\frac{1}{4}$	$1\frac{3}{4}$	$1\frac{1}{8}$
$\frac{3}{4}$ "	5.40	6	30	1.82	$4\frac{3}{8}$	$5\frac{1}{2}$	$2\frac{3}{8}$	$1\frac{1}{8}$
1"	7.40	5	25	2.97	$5\frac{3}{8}$	$5\frac{1}{2}$	$2\frac{1}{8}$	$1\frac{1}{8}$
$1\frac{1}{4}$ "	10.00	1	10	4.06	$5\frac{1}{2}$	$6\frac{1}{2}$	$2\frac{3}{4}$	$2\frac{1}{8}$
$1\frac{1}{2}$ "	13.00	1	5	5.90	$6\frac{1}{8}$	$7\frac{1}{2}$	$3\frac{3}{8}$	$2\frac{3}{8}$
2"	20.00	1	5	9.56	$7\frac{1}{8}$	$8\frac{3}{4}$	$3\frac{3}{4}$	$2\frac{1}{2}$

COPPER TUBE VALVES

By NIBCO

 Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

732 — ANGLE VALVES

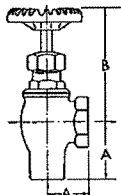
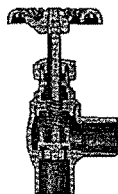
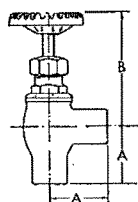
 Copper to Copper
 125 POUNDS S.W.P.
 200 POUNDS W.O.G.

732-3 — ANGLE VALVES

 Copper to N. P. T. I.
 125 POUNDS S.W.P.
 200 POUNDS W.O.G.

An Angle Valve that is designed with the full Globe pattern to insure capacity flow. Built for durable operation in the 125# Steam Working Pressure class of general service. The long engagement of the no-friction stem threads insure long, satisfactory service of both bonnet and stem.

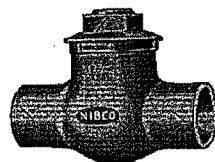
FEATURES:

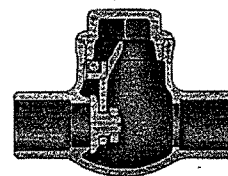
 Composition Disc.
 Positive Seating.
 Packing Friction Gland.
 No-Hete Hand Wheel.

 No-Friction Stem Threads.
 Tested 90 pounds air pressure
 under water.

MATERIALS:

All parts are brass or bronze except handwheel which is cast aluminum, stem packing is graphite impregnated asbestos, seat disc is of quality composition material for long life.

Nominal Size	List Price Each	Sales Carton	Master Carton	Approx. Net Wt.	Dim. A	Dim. Open B
$\frac{3}{8}$ "	\$ 3.20	5	60	.85	1 $\frac{1}{8}$ "	3 $\frac{3}{4}$ "
$\frac{1}{2}$ "	3.90	5	50	1.20	1 $\frac{3}{8}$ "	4 $\frac{1}{4}$ "
$\frac{3}{4}$ "	5.40	6	30	1.72	2 $\frac{1}{8}$ "	5 $\frac{1}{2}$ "
1"	7.40	5	25	2.75	2 $\frac{3}{8}$ "	5 $\frac{1}{2}$ "
1 $\frac{1}{4}$ "	10.00	1	10	3.90	2 $\frac{3}{4}$ "	6 $\frac{1}{2}$ "
1 $\frac{1}{2}$ "	13.00	1	5	5.82	3 $\frac{3}{8}$ "	7 $\frac{1}{4}$ "
2"	20.00	1	5	8.25	3 $\frac{3}{4}$ "	8 $\frac{1}{2}$ "

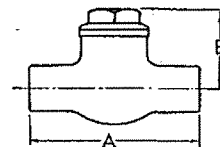

785 — SWING CHECK VALVES

 Copper to Copper
 125 POUNDS S.W.P.
 200 POUNDS W.O.G.


Brass seat and brass disc provided in NIBCO Swing Check Valves are suitable for the widest variety of service requirements. Swing check can be installed in both horizontal and vertical lines. Constructed and designed to withstand shock of full capacity flow and instantaneous checking action.

FEATURES:

 Brass Seat.
 Brass Disc.
 Screwed-in Bonnet.
 Vertical Disc.

 Full Waterway.
 Tested 90 pounds air pressure
 under water.

MATERIALS:

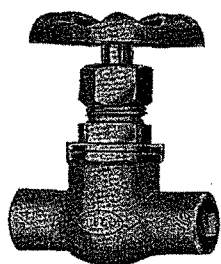
All brass or bronze construction.

Nominal Size	List Price Each	Sales Carton	Master Carton	Approx. Net Wt.	Dim. A	Dim. Open B
$\frac{3}{8}$ "	\$ 3.80	8	96	.68	2 $\frac{3}{4}$ "	1 $\frac{1}{2}$ "
$\frac{1}{2}$ "	4.30	6	72	.68	3 $\frac{1}{8}$ "	1 $\frac{1}{2}$ "
$\frac{3}{4}$ "	4.90	4	48	1.1	4 $\frac{1}{8}$ "	2
1"	6.50	4	40	1.63	4 $\frac{1}{4}$ "	2 $\frac{1}{8}$ "
1 $\frac{1}{4}$ "	8.00	3	30	2.25	4 $\frac{3}{4}$ "	2 $\frac{1}{2}$ "
1 $\frac{1}{2}$ "	9.70	3	21	2.8	5 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "
2"	14.70	2	10	4.75	6	3 $\frac{3}{4}$ "

COPPER TUBE VALVES

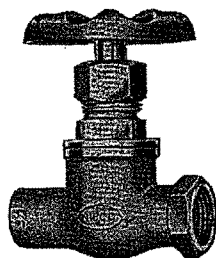
By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.



725 — STOP VALVES

Copper to Copper



725-3 — STOP VALVES

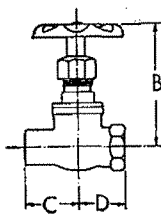
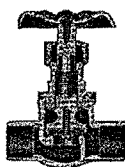
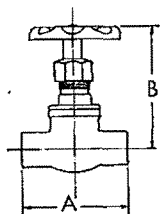
Copper to N. P. T. I.

It's Feature-Packed! This "Compact" Stop Valve incorporates all the desirable features required to insure dependable service. The compact design enables piping to be installed closer to the ceiling and in hard to get at places. Engineered to ASA Standards eliminating excess bulk and permitting quicker installations with less heat — minimizing possible damage to seat disc or packing. Stainless steel disc screw makes it possible to rewasher valve without breakage of screw.

FEATURES:

Full Waterway.
Drainable Seat.
No-Friction Stem Thread.
Quality Fibre Disc.

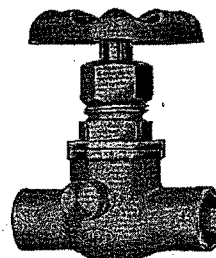
Stainless Steel Disc Screw.
Swivel Disc.
Tested 90 pounds air-pressure
under water.



MATERIALS:

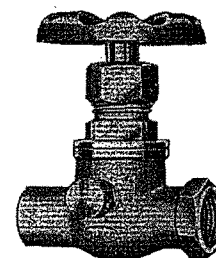
All parts are brass or bronze except handwheel which is stamped steel, seat washer is quality fibre, stem packing is graphite impregnated asbestos, seat disc screw is stainless steel.

Nominal Size	List Price Each	Sales Carton	Packaging Master Carton	Approx. Net Wt.	Dim. A	Dim. Open B	Dim. C	Dim. D
$\frac{3}{8}$ "	\$1.55	6	96	.45	2	$2\frac{3}{4}$	$1\frac{5}{8}$	$1\frac{5}{8}$
$\frac{1}{2}$ "	1.55	6	144	.50	$2\frac{5}{8}$	$2\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$
$\frac{3}{4}$ "	1.70	6	144	.60	$2\frac{11}{8}$	$2\frac{3}{4}$	$1\frac{9}{8}$	$1\frac{1}{2}$
1"	3.75	4	40	1.30	$3\frac{3}{8}$	$4\frac{1}{2}$	$2\frac{3}{8}$	$1\frac{1}{2}$



726 — STOP & WASTE VALVES

Copper to Copper



726-3 — STOP & WASTE VALVES

Copper to N. P. T. I.

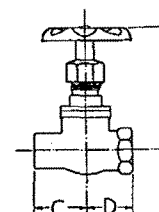
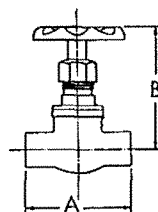
(Waste also furnished on N. P. T. I. end — specify Fig. No. 726-17)

It's Value-Packed! The very last word in a Stop & Waste Valve is this "Compact" design by NIBCO. It enables piping to be installed closer to the ceiling and in hard to get at places. Engineered to ASA Standards eliminating excess bulk and permitting quicker installations with less heat — minimizing possible damage to seat disc or packing. Stainless steel disc screw makes it possible to rewasher valve without breakage of screw.

FEATURES:

Full Waterway.
Drainable Seat.
No-Friction Stem Thread.
Quality Fibre Disc.

Stainless Steel Disc Screw.
Swivel Disc.
Tested 90 pounds air pressure
under water.



MATERIALS:

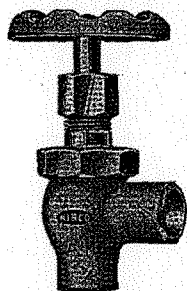
All parts are brass or bronze except handwheel which is stamped steel, seat washers are quality fibre, stem packing is graphite impregnated asbestos, seat disc screw is stainless steel.

Nominal Size	List Price Each	Sales Carton	Packaging Master Carton	Approx. Net Wt.	Dim. A	Dim. Open B	Dim. C	Dim. D
$\frac{3}{8}$ "	\$1.60	6	96	.47	2	$2\frac{3}{4}$	$1\frac{5}{8}$	$1\frac{5}{8}$
$\frac{1}{2}$ "	1.60	6	144	.52	$2\frac{5}{8}$	$2\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$
$\frac{3}{4}$ "	1.75	6	144	.62	$2\frac{11}{8}$	$2\frac{3}{4}$	$1\frac{9}{8}$	$1\frac{1}{2}$
1"	3.80	4	40	1.50	$3\frac{3}{8}$	$4\frac{1}{2}$	$2\frac{3}{8}$	$1\frac{1}{2}$



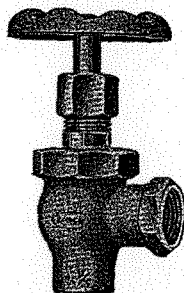
COPPER TUBE VALVES

By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

777 — ANGLE STOP VALVES

Copper to Copper



777-3 — ANGLE STOP VALVES

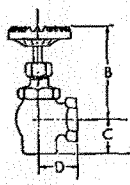
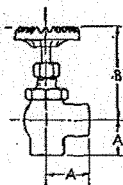
Copper to N. P. T. I.

NIBCO full capacity flow Angle Stops have become a popular, design feature to copper plumbing installations—particularly on supply lines to cabinet kitchen sinks. Produced of the finest materials with carefully controlled manufacturing procedures to insure years of excellent service.

FEATURES:

Quality Fibre Disc.
Positive Seating.
Drainable Seat.
Swivel Disc.
Full Waterway.

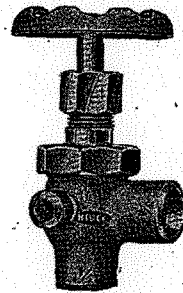
No-Friction Stem Threads.
No-Hete Handwheel.
Tested 90 pounds air pressure
under water.



MATERIALS:

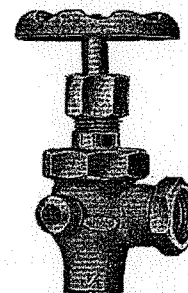
All parts are brass or bronze except handwheel which is stamped steel, stem packing is graphite impregnated asbestos, seat disc of specially constructed quality fibre.

Nominal Size	List Price Each	Sales Carton	Packaging Master Carton	Approx. Net Wt.	Dim. A	Dim. Open	Dim. B	Dim. C	Dim. D
Figure 777									
$\frac{1}{2}$ "	\$1.85	5	60	.58	1	$3\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{3}{8}$	
$\frac{3}{4}$ "	2.00	6	72	.65	$1\frac{1}{2}$	$3\frac{1}{8}$	$1\frac{3}{8}$	$1\frac{1}{4}$	
Figure 777-3									
$\frac{1}{2}$ "	2.00	5	60	.58	1	$3\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{3}{8}$	
$\frac{3}{4}$ "	2.20	6	72	.65	$1\frac{1}{2}$	$3\frac{1}{8}$	$1\frac{3}{8}$	$1\frac{1}{4}$	



778 — ANGLE STOP & WASTE VALVES

Copper to Copper



778-3 — ANGLE STOP & WASTE VALVES

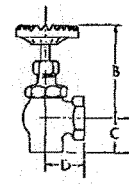
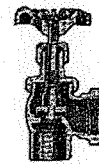
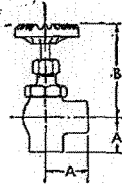
Copper to N. P. T. I.

Provided with a full waterway, NIBCO Angle Stop & Waste Valves insure full flow operation. Waste cap and outlet makes it simple to drain line completely with ease. Body huskily constructed for general service. Quality fibre seat and floating disc holder make for positive shut-off.

FEATURES:

Quality Fibre Disc.
Positive Seating.
Drainable Seat.
Swivel Disc.

Full Waterway.
No-Friction Stem Threads.
No-Hete Handwheel.
Tested 90 pounds air pressure
under water.



MATERIALS:

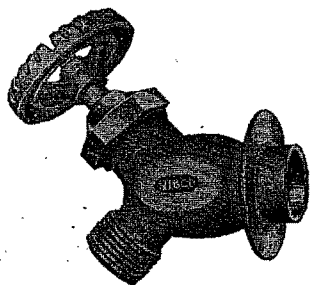
All parts are brass or bronze except handwheel which is stamped steel, stem packing is graphite impregnated asbestos, seat disc and waste cap washer of specially constructed quality fibre.

Nominal Size	List Price Each	Sales Carton	Packaging Master Carton	Approx. Net Wt.	Dim. A	Dim. Open	Dim. B	Dim. C	Dim. D
Figure 778									
$\frac{1}{2}$ "	\$1.90	5	60	.58	1	$3\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{3}{8}$	
$\frac{3}{4}$ "	2.05	6	72	.65	$1\frac{1}{2}$	$3\frac{1}{8}$	$1\frac{3}{8}$	$1\frac{1}{4}$	
Figure 778-3									
$\frac{1}{2}$ "	2.10	5	60	.58	1	$3\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{3}{8}$	
$\frac{3}{4}$ "	2.30	6	72	.65	$1\frac{1}{2}$	$3\frac{1}{8}$	$1\frac{3}{8}$	$1\frac{1}{4}$	

COPPER TUBE VALVES

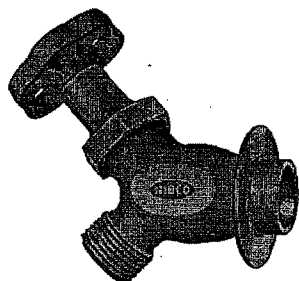
By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.



762 — SILLCOCKS
ANGLE TYPE

Copper to Hose Thread



763 — SILLCOCKS
ANGLE TYPE WITH
LOCK SHIELD

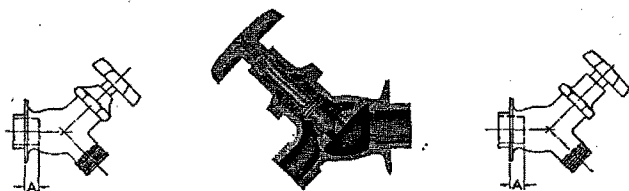
Copper to Hose Thread

A valve of great utility for home and industrial use. Sillcocks designed exclusively for use with copper tube eliminating necessity of extra fittings. Has a full face flange for neat installed appearance. Provided in the fixed handwheel style and the lock shield detachable handwheel for guarded usage. Handwheel of sturdy cast brass.

FEATURES:

Composition Disc.
Positive Seating.
Full Waterway.

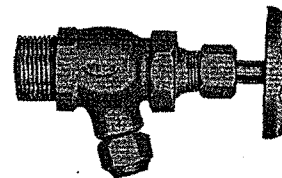
No-Friction Stem Thread.
No-Hole Handwheel.
Swivel Disc.



MATERIALS:

All parts are brass or bronze except stem packing is graphite impregnated asbestos, seat disc of special composition material for long life.

Nominal Size	List Price Each	Packaging Sales Carton	Master Carton	Net Wt.	Dim. A
Figure 762					
$\frac{1}{2}$ "	\$2.80	4	48	1.18	$\frac{3}{8}$ "
$\frac{3}{4}$ "	2.80	4	48	1.12	$\frac{7}{16}$ "
Figure 763					
$\frac{1}{2}$ "	3.25	4	48	1.34	$\frac{3}{8}$ "
$\frac{3}{4}$ "	3.25	4	48	1.32	$\frac{7}{16}$ "



580 — OIL TANK VALVES

N. P. T. E. Inlet —

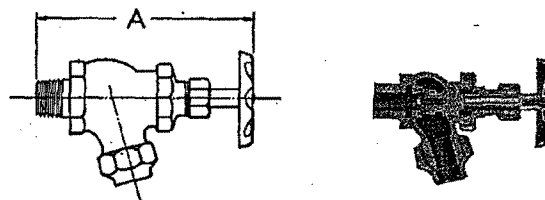
Copper Outlet

This shut-off Valve provides ready adaptability without additional fittings from Tank to Copper Tube take-off line. Seating of valve against lead disc insures positive shut-off of gasoline, fuel oil, oil or oil products and is suitable for many other similar uses. A wide range of sizes is available to allow for variety of service needs.

FEATURES:

Lead Disc.
Positive Seating.
No-Friction Stem Threads.

No-Hole Handwheel.
Tested 90 pounds air pressure under water.



MATERIALS:

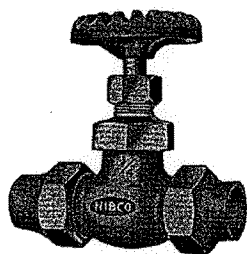
All parts are brass or bronze except handwheel which is stamped steel, seat washer is lead, stem packing is graphite impregnated asbestos.

Nominal Size	List Price Each	Packaging Sales Carton	Master Carton	Net Wt.	Dim. Open A
$\frac{3}{8}$ " N.P.T.E. x $\frac{3}{8}$ " COP	\$2.20	5	60	1.015	$4\frac{3}{4}$ "
$\frac{3}{8}$ " N.P.T.E. x $\frac{1}{4}$ " COP	2.20	5	60	.875	$4\frac{1}{16}$ "
$\frac{1}{2}$ " N.P.T.E. x $\frac{1}{2}$ " COP	2.20	5	60	1.00	$4\frac{3}{4}$ "
$\frac{1}{2}$ " N.P.T.E. x $\frac{3}{8}$ " COP	2.20	5	60	1.005	$4\frac{3}{4}$ "
$\frac{1}{2}$ " N.P.T.E. x $\frac{1}{4}$ " COP	2.20	5	60	.915	$4\frac{3}{4}$ "
$\frac{3}{4}$ " N.P.T.E. x $\frac{3}{4}$ " COP	2.90	5	60	1.20	$4\frac{3}{4}$ "
$\frac{3}{4}$ " N.P.T.E. x $\frac{1}{2}$ " COP	2.90	5	60	1.09	$4\frac{3}{4}$ "
$\frac{3}{4}$ " N.P.T.E. x $\frac{3}{8}$ " COP	2.90	5	60	.99	$4\frac{3}{4}$ "
$\frac{3}{4}$ " N.P.T.E. x $\frac{1}{4}$ " COP	2.90	5	60	.90	$4\frac{3}{4}$ "

COPPER TUBE VALVES

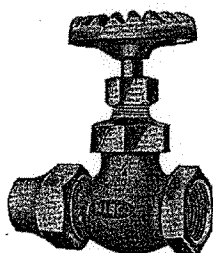
By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.



525 — FLARED STOP VALVES

Copper to Copper



525-3 — FLARED STOP VALVES

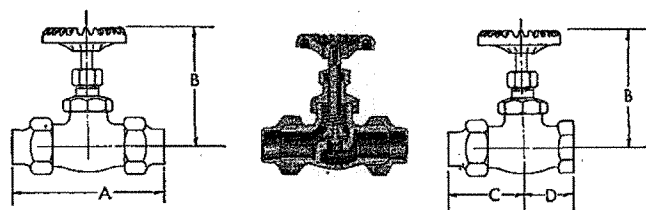
Copper to N. P. T. I.

Flared Stop Valves are ruggedly constructed in a globe pattern for general service installations of soft copper tubes. Body construction and flared ends are designed within the scope of ASA Standard A40.2 for Flared Copper Tube Fittings.

FEATURES:

Composition Disc.
Positive Seating.
No-Hete Handwheel.

No-Friction Stem Threads.
Tested 90 pounds air pressure under water.

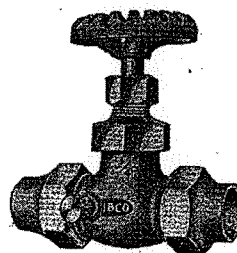


MATERIALS:

All parts are brass or bronze except handwheel which is cast aluminum. Stem packing is graphite impregnated asbestos, composition seat disc suitable for steam.

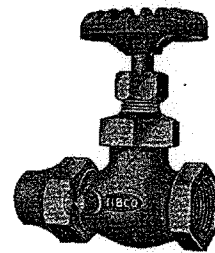
Approved by the Underwriter's Laboratories

Nominal Size	List Price Each	Packaging Sales Carton	Master Carton	Approx. Net Wt.	Dim. A	Dim. Open B	Dim. C	Dim. D
$\frac{3}{8}$ "	\$2.30	6	72	1.00	3	$3\frac{3}{4}$	$1\frac{5}{8}$	$1\frac{1}{2}$
$\frac{1}{2}$ "	2.30	10	50	1.14	$3\frac{1}{2}$	$3\frac{3}{4}$	2	$1\frac{5}{8}$
$\frac{3}{4}$ "	2.55	6	60	1.56	$4\frac{1}{4}$	4	$2\frac{3}{8}$	$1\frac{1}{2}$
1"	5.60	6	30	2.35	5	$5\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{8}$



526 — FLARED STOP & WASTE VALVES

Copper to Copper



526-3 — FLARED STOP & WASTE VALVES

Copper to N. P. T. I.

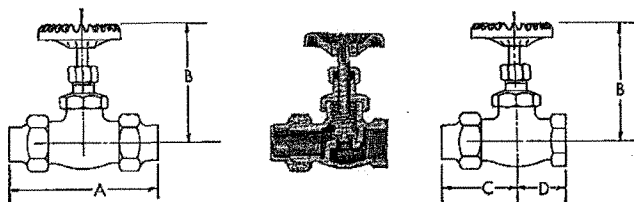
(Waste also furnished on N. P. T. I. end — specify Fig. No. 526-17)

Flared Stop & Waste Valves are ruggedly constructed in a globe pattern for general service installations of soft copper tubes. Waste cap is provided on outlet of valve for ease of draining line, facilitating possible future repairs, additions to installation or seasonal necessity. Body construction and flared ends are designed within the scope of ASA standard A40.2 for Flared Copper Tube Fittings.

FEATURES:

Composition Disc.
Positive Seating
No-Hete Handwheel.

No-Friction Stem Threads.
Tested 90 pounds air pressure under water.



MATERIALS:

All parts are brass or bronze except handwheel which is cast aluminum. Stem packing is graphite impregnated asbestos, composition seat disc suitable for steam, fibre washer in waste cap.

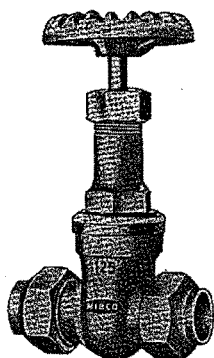
Approved by Underwriter's Laboratories

Nominal Size	List Price Each	Packaging Sales Carton	Master Carton	Approx. Net Wt.	Dim. A	Dim. Open B	Dim. C	Dim. D
$\frac{3}{8}$ "	\$2.40	6	72	1.00	3	$3\frac{3}{4}$	$1\frac{5}{8}$	$1\frac{1}{2}$
$\frac{1}{2}$ "	2.40	8	80	1.14	$3\frac{1}{2}$	$3\frac{3}{4}$	2	$1\frac{5}{8}$
$\frac{3}{4}$ "	2.60	6	60	1.56	$4\frac{1}{4}$	4	$2\frac{3}{8}$	$1\frac{1}{2}$
1"	5.65	6	30	2.35	5	$5\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{8}$

COPPER TUBE VALVES

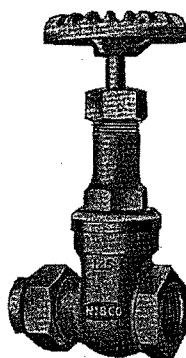
By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.



579 — FLARED GATE VALVES

Copper to Copper
125 POUNDS S.W.P.
200 POUNDS W.O.G.



579-3 — FLARED GATE VALVES

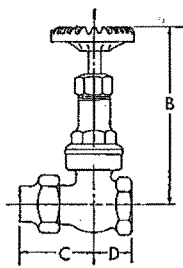
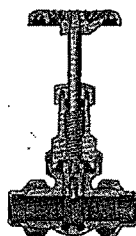
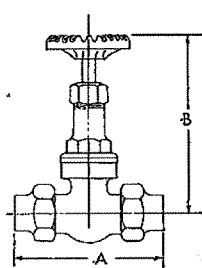
Copper to N. P. T. I.
125 POUNDS S.W.P.
200 POUNDS W.O.G.

NIBCO Flared Gate Valves are sturdily constructed for general service installations of soft copper tubes. Provided with double parallel discs to minimize seat wear, and to insure even distribution of pressure over entire seat surface in closing valve. Body and flared ends are designed within the scope of ASA Standard A40.2 for Flared Copper Tube Fittings.

FEATURES:

Rising Stem.
Packing Friction Gland.
Repack Under Pressure.
No-Friction Stem Threads.

No-Hete Handwheel.
Tested 90 pounds air pressure under water.

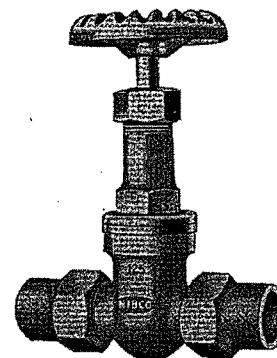


MATERIALS:

All parts are brass or bronze except handwheel which is cast aluminum. Stem packing is graphite impregnated asbestos.

Approved by the Underwriter's Laboratories

Nominal Size	List Price Each	Packaging Sales Carton	Master Carton	Approx. Net Wt.	Dim. A	Dim. Open B	Dim. C	Dim. D
$\frac{3}{8}$ "	\$ 5.40	6	72	.97	$3\frac{1}{4}$	$4\frac{1}{8}$	$1\frac{1}{8}$	$\frac{7}{8}$
$\frac{1}{2}$ "	6.25	6	60	1.42	$3\frac{1}{8}$	$5\frac{1}{8}$	$1\frac{3}{8}$	1
$\frac{3}{4}$ "	7.40	6	30	2.25	$4\frac{3}{8}$	$5\frac{1}{2}$	$2\frac{1}{8}$	$1\frac{1}{8}$
1"	8.75	5	25	3.48	$4\frac{1}{2}$	$7\frac{1}{8}$	$2\frac{1}{2}$	$1\frac{1}{4}$
$1\frac{1}{4}$ "	14.10	1	8	5.11	6	$8\frac{3}{8}$	3	$1\frac{1}{2}$
$1\frac{1}{2}$ "	18.00	1	6	7.17	$6\frac{3}{8}$	$9\frac{1}{8}$	$3\frac{3}{8}$	$1\frac{5}{8}$
2"	25.50	1	3	11.60	$7\frac{3}{8}$	$12\frac{3}{8}$	$3\frac{3}{4}$	2



179 — FLARED GATE VALVES

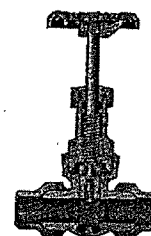
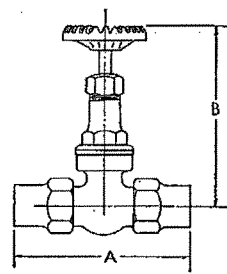
Copper to Copper
125 POUNDS S.W.P.
200 POUNDS W.O.G.

Heavy duty service over many years is assured. Particularly suitable for underground installations of Type "K" Copper tube where trouble-free service is required. The double parallel disc minimizes seat wear. Spreader pin seats disc on last turn to closed position. First opening turn releases discs from seat.

FEATURES:

Rising Stem.
Packing Friction Gland.
Repack Under Pressure.
No-Friction Stem Threads.

No-Hete Handwheel.
Tested 90 pounds air pressure under water.
Extra-Heavy Flare Ends.



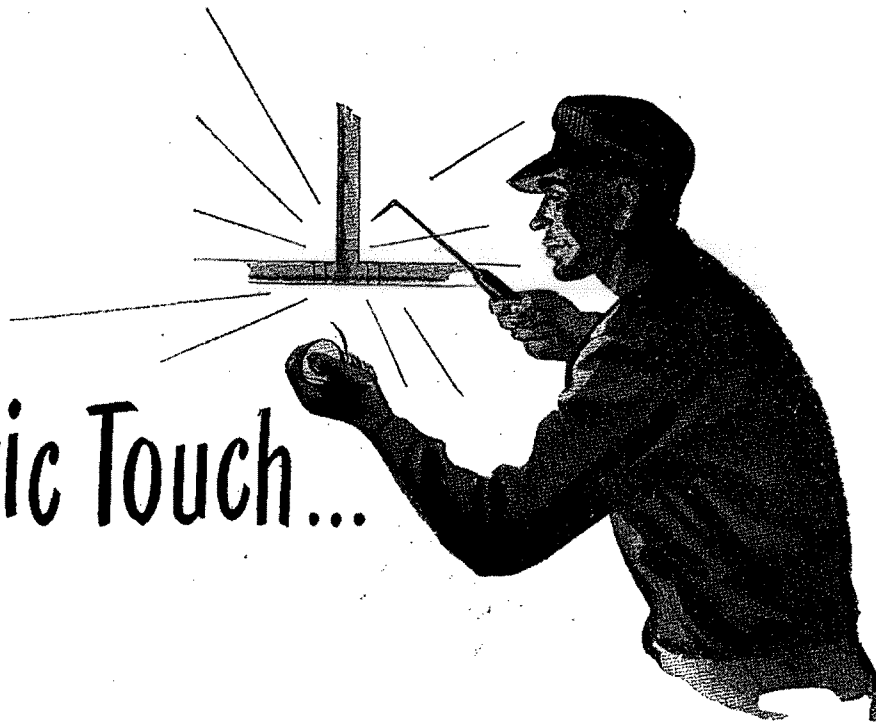
MATERIALS:

All parts are brass or bronze except handwheel which is cast aluminum. Stem packing is graphite impregnated asbestos.

Approved by the Underwriter's Laboratories

Nominal Size	List Price Each	Packaging Sales Carton	Master Carton	Approx. Net Wt.	Dim. A	Dim. Open B
$\frac{3}{8}$ "	\$ 5.40	6	72	1.05	$3\frac{3}{8}$	$4\frac{1}{8}$
$\frac{1}{2}$ "	6.25	6	60	1.65	$4\frac{1}{4}$	$5\frac{3}{8}$
$\frac{3}{4}$ "	7.40	6	30	2.43	5	$5\frac{1}{2}$
1"	8.75	5	25	3.96	$6\frac{1}{4}$	$7\frac{1}{8}$
$1\frac{1}{4}$ "	14.10	1	8	6.22	$7\frac{1}{2}$	$8\frac{3}{8}$
$1\frac{1}{2}$ "	18.00	1	6	8.52	$8\frac{1}{8}$	$9\frac{1}{8}$
2"	25.50	1	3	13.56	10	$12\frac{3}{8}$

It's a Magic Touch...



WHEN YOU USE

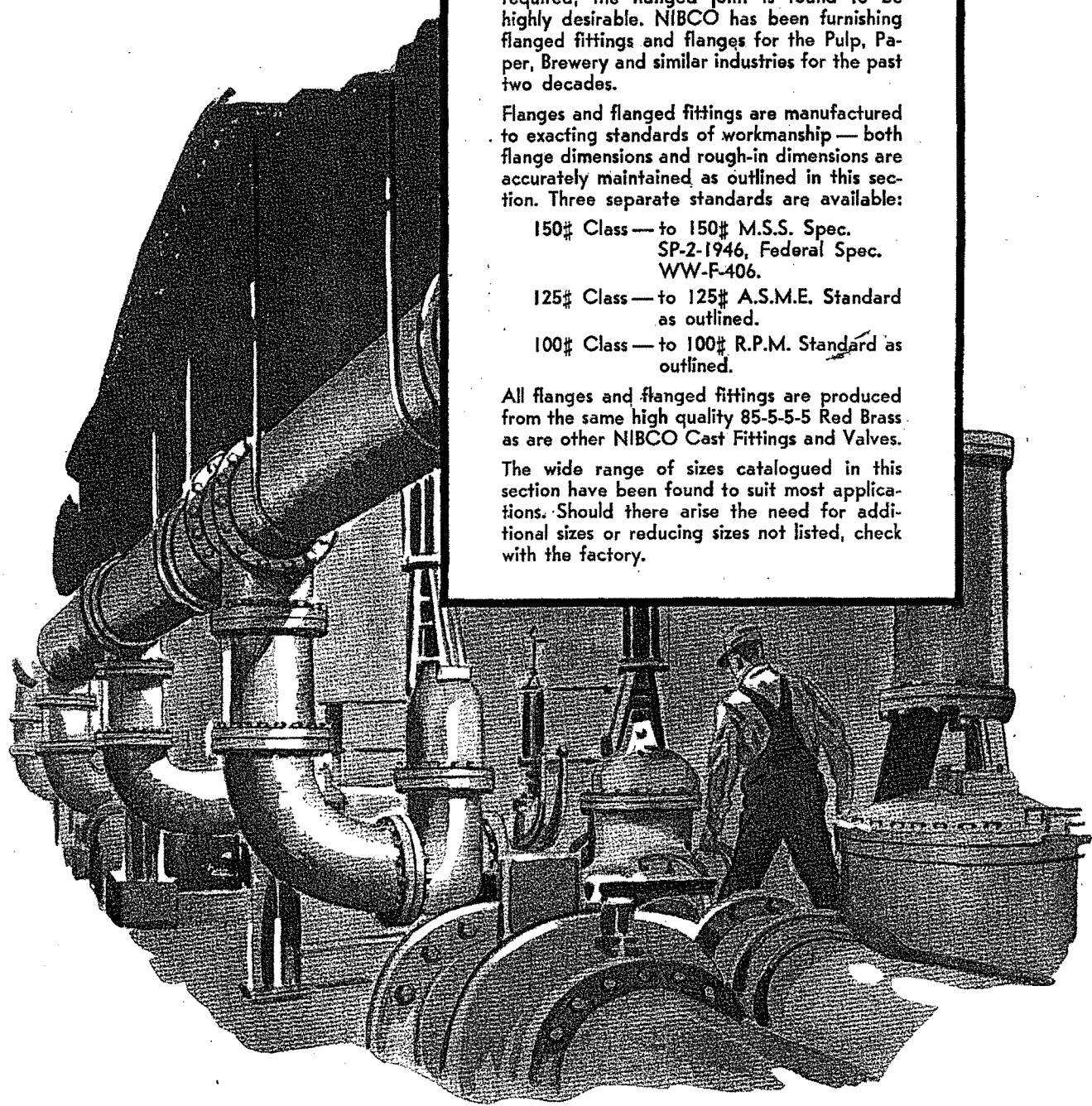
NIBCO

WROT COPPER FITTINGS

Yes, just a touch of the torch and you have a neat installation that reflects top craftsmanship. Nibco fittings and valves give you the pride of a job well done. Nibco offers everything you need for high grade jobs in plumbing, heating, air conditioning and refrigeration. Build more business, protect your profit and assure customer satisfaction by standardizing on Nibco Wrot Fittings, with these specific advantages:

- Full Strength Design**
- Quality Control**
- Complete Installation**
- Pressure Tested**
- ASA & MSS Standards**
- Tagged & Packaged**
- Patent Protected**
- Valves & Fittings**
- Fittings from Tubes**
- Properly Cataloged**



A detailed black and white illustration of industrial machinery and piping. Large pipes with flanges and elbows are prominent, connected to various mechanical components. In the background, a worker in a hard hat and work clothes is visible, standing near a large piece of equipment. The scene is set in a factory or industrial environment.

Section 6

FLANGED FITTINGS

For many applications in industrial piping where large diameters of tube and pipe are required, the flanged joint is found to be highly desirable. NIBCO has been furnishing flanged fittings and flanges for the Pulp, Paper, Brewery and similar industries for the past two decades.

Flanges and flanged fittings are manufactured to exacting standards of workmanship — both flange dimensions and rough-in dimensions are accurately maintained as outlined in this section. Three separate standards are available:

- 150# Class — to 150# M.S.S. Spec.
SP-2-1946, Federal Spec.
WW-F-406.
- 125# Class — to 125# A.S.M.E. Standard
as outlined.
- 100# Class — to 100# R.P.M. Standard as
outlined.

All flanges and flanged fittings are produced from the same high quality 85-5-5-5 Red Brass as are other NIBCO Cast Fittings and Valves.

The wide range of sizes catalogued in this section have been found to suit most applications. Should there arise the need for additional sizes or reducing sizes not listed, check with the factory.

FLANGED FITTINGS

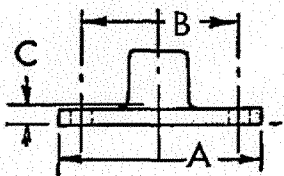
By NIBCO

150-LB. M. S. S. STANDARD

DIMENSIONS

150# M.S.S. Flanges or Flanged Ends

Nominal Size	Flange O.D.	Bolt Circle	Thickness of Flange	Dia. Bolt Hole	Dia. Bolt	No. Bolt Holes
1/2"	3 1/2"	2 3/8"	5/8"	5/8"	1/2"	4
3/4"	3 7/8"	2 3/4"	5/8"	5/8"	1/2"	4
1"	4 1/4"	3 1/8"	5/8"	5/8"	1/2"	4
1 1/4"	4 5/8"	3 1/2"	5/8"	5/8"	1/2"	4
1 1/2"	5"	3 3/8"	5/8"	5/8"	1/2"	4
2"	6"	4 3/4"	1 1/2"	3/4"	5/8"	4
2 1/2"	7"	5 1/2"	1 1/2"	3/4"	5/8"	4
3"	7 1/2"	6"	1 1/2"	3/4"	5/8"	4
3 1/2"	8 1/2"	7"	1 1/2"	3/4"	5/8"	8
4"	9"	7 1/2"	1 1/2"	3/4"	5/8"	8
5"	10"	8 1/2"	3/4"	7/8"	3/4"	8
6"	11"	9 1/2"	1 1/8"	7/8"	3/4"	8
8"	13 1/2"	11 3/4"	1 1/8"	7/8"	3/4"	8



771 — COMPANION FLANGES

 150# M.S.S. Standard
(Bolts not included)

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C
1/2"	\$ 2.30	1.01	3 1/2	2 3/8	5/8
3/4"	2.45	1.38	3 3/8	2 3/4	5/8
1"	2.65	1.79	4 1/4	3 1/8	1 1/8
1 1/4"	3.15	2.25	4 3/4	3 1/2	1 1/8
1 1/2"	3.25	2.80	5	3 3/8	1 1/8
2"	3.90	4.44	6	4 3/4	3/8
2 1/2"	5.75	6.56	7	5 1/2	1 1/8
3"	7.70	7.63	7 1/2	6	3/8
3 1/2"	9.50	11.76	8 1/2	7	1 1/8
4"	11.00	13.02	9	7 1/2	3/8
5"	16.10	17.63	10	8 1/2	3/8
6"	19.65	22.00	11	9 1/2	3/8
8"	53.20	37.00	13 1/2	11 3/4	3/8

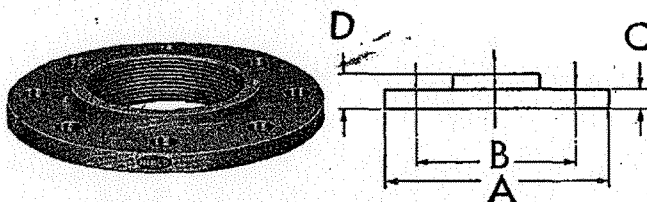
772 — COMPANION FLANGES

 Same as No. 771 except without tube shoulder
 150# M.S.S. Standard. Not illustrated.
 Same sizes and prices as No. 771

773 — BLIND COMPANION FLANGES

 No Copper Connection
 150# M.S.S. Standard. Not illustrated.
 Same sizes and prices as No. 771

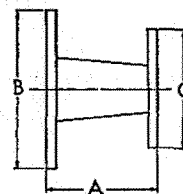
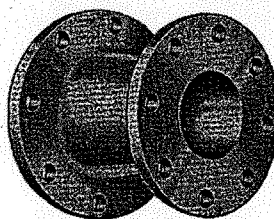
774 — BLANK COMPANION FLANGES

 No Bolt Holes
 150# M.S.S. Standard. Not illustrated.
 Same sizes and prices as No. 771


775 — THREADED COMPANION FLANGES

 150# M.S.S. Standard
(Bolts not included)

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C	Dim. D
1 1/2"	\$ 4.40	3.75	5	3 3/8	1 1/8	1
2"	6.00	4.50	6	4 3/4	1/2	1
2 1/2"	7.60	6.65	7	5 1/2	1 1/8	1 1/8
3"	9.40	8.25	7 1/2	6	5/8	1 3/8
4"	13.40	12.38	9	7 1/2	1 1/8	1 3/8
6"	23.10	18.90	11	9 1/2	1 1/8	1 3/8



701-12 — FLANGED REDUCER

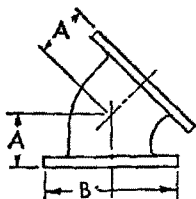
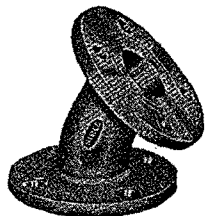
150# M. S. S. Standard

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C
2 1/2" x 1 1/2"	\$14.10	11.50	5 1/2	7	5
4" x 2 1/2"	27.80	23.20	7	9	7
5" x 3"	46.65	32.30	8	10	7 1/2
6" x 4"	58.30	50.10	9	11	9

FLANGED FITTINGS

By NIBCO

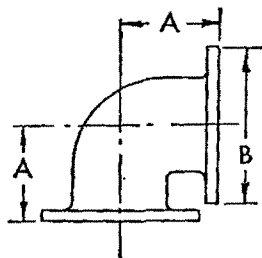
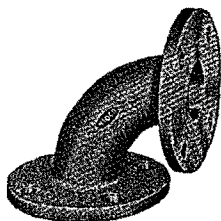
150-LB. M. S. S. STANDARD



706-12 — 45 DEG. FLANGED ELBOWS

150# M.S.S. Standard

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B
2"	\$25.05	10.31	2½	6
2½"	33.85	15.00	3	7
3"	43.10	18.54	3	7½
3½"	57.20	26.00	3½	8½
4"	66.00	32.60	4	9
5"	88.00	43.50	4½	10
6"	118.85	52.00	5	11



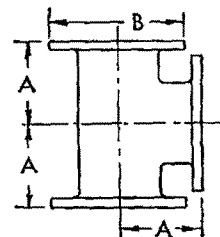
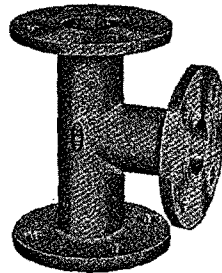
707-12 — 90 DEG. FLANGED ELBOWS

150# M.S.S. Standard

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. B ₂
1½"	\$ 18.45	8.14	4	5	
*2"	22.85	11.02	4½	6	
2" x 1½"	22.85	11.07	4½	6	5
2½"	31.25	16.25	5	7	
3"	39.60	20.81	5½	7½	
3½" x 2"	52.80	29.07	6	8½	6
4"	61.60	33.17	6½	9	
*5"	83.60	46.09	7½	10	
*5" x 3"	83.60	41.00	7½	10	7½
6"	110.05	59.74	8	11	
6" x 4"	110.05	57.27	8	11	9
8"	188.40	103.00	9	13½	

Note: Dim. B₂ is the O.D. of the flange on the small end of the reducing size.

*Pattern equipment available to produce these sizes with LONG SWEEP. Prices and dimensional information upon application at Factory. Specify figure #707-12-LT.

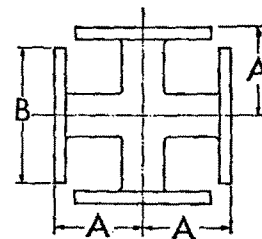
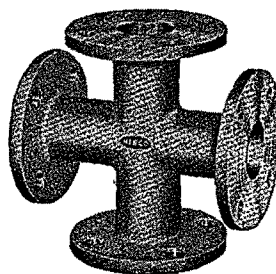


711-12 — FLANGED TEES

150# M.S.S. Standard

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. B ₁	Dim. B ₂
1¼"	\$ 21.10	8.24	3¾	4¾		
1½" x 1½" x 1"	27.70	10.80	4	5	5	4¼
1" x 1" x 1½"	27.70	7.83	4	4¼	4¼	5
2"	34.30	18.44	4½	6		
2½"	46.20	30.60	5	7		
2½" x 2½" x 2"	46.20	22.62	5	7	7	6
3"	59.40	37.80	5½	7½		
3" x 2½" x 3"	59.40	29.72	5½	7½	7	7½
3" x 2½" x 2½"	59.40	32.90	5½	7½	7	7
3" x 2" x 4"	92.45	36.77	6½	7½	6	9
4"	92.45	57.89	6½	9		
5" x 4" x 5"	123.25	75.20	7½	10	9	10
6"	167.25	104.29	8	11		
6" x 6" x 4"	167.25	90.10	8	11	11	9
6" x 4" x 6"	167.25	90.10	8	11	9	11
6" x 4" x 5"	167.25	86.52	8	11	9	10
6" x 4" x 4"	167.25	74.00	8	11	9	9

Note: Dim. B₁ is the O.D. of the flange on one end of the run of the reducing tee. Dim. B₂ is the O.D. of the flange on the branch of the reducing tee.



735-12 — FLANGED CROSSES

150# M.S.S. Standard

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B
1¼"	\$ 28.15	11.10	3¾	4¾
2"	45.75	22.66	4½	6
2½"	61.60	31.78	5	7
3"	79.20	42.50	5½	7½
4"	123.25	64.20	6½	9
6"	220.10	121.30	8	11



FLANGED FITTINGS

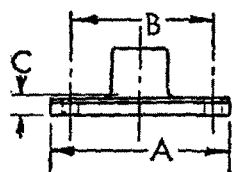
By NIBCO

125-LB. A. S. M. E. STANDARD

DIMENSIONS

125# A.S.M.E. Flanges or Flanged Ends

Nominal Size	Flange O.D.	Bolt Circle	Thickness of Flange	Dia. Bolt Hole	Dia. Bolt	No. Bolt Holes
1/2"	3 1/2"	2 3/8"	1 1/8"	3/8"	5/16"	4
3/4"	3 7/8"	2 3/4"	1 1/8"	1/2"	3/8"	4
1"	4 1/4"	3 1/8"	1 1/4"	5/8"	1/2"	4
1 1/4"	4 5/8"	3 1/2"	1 1/4"	5/8"	1/2"	4
1 1/2"	5"	3 7/8"	1 1/8"	5/8"	1/2"	4
2"	6"	4 3/4"	3/8"	3/4"	5/8"	4
2 1/2"	7"	5 1/2"	3/8"	3/4"	5/8"	4
3"	7 1/2"	6"	1 1/8"	3/4"	5/8"	4
3 1/2"	8 1/2"	7"	1 1/8"	3/4"	5/8"	8
4"	9"	7 1/2"	1 1/8"	3/4"	5/8"	8
5"	10"	8 1/2"	1 1/8"	7/8"	3/4"	8
6"	11"	9 1/2"	1 1/2"	7/8"	3/4"	8
8"	13 1/2"	11 1/4"	5/8"	7/8"	3/4"	8
10"	16"	14 1/4"	5/8"	1"	7/8"	12
12"	19"	17"	1 1/8"	1"	7/8"	12
14"	21"	18 3/4"	1 1/8"	1"	1"	12



741 — COMPANION FLANGE

A.S.M.E. Drilling (Bolts not included)

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C
1/2"	\$ 1.65	.578	3 1/2	2 3/8	3/8
3/4"	1.80	.78	3 3/8	2 3/8	3/8
1"	2.15	1.16	4 1/4	3 1/8	1 1/8
1 1/4"	2.45	1.26	4 3/8	3 1/2	1 1/8
1 1/2"	2.65	2.00	5	3 7/8	3/8
2"	3.50	3.14	6	4 3/4	3/8
2 1/2"	5.45	4.55	7	5 1/2	1 1/8
3"	7.30	5.79	7 1/2	6	3/8
3 1/2"	8.65	7.68	8 1/2	7	1 1/8
4"	10.35	8.19	9	7 1/2	3/8
5"	13.20	11.40	10	8 1/2	3/8
6"	15.95	15	11	9 1/2	3/8
8"	29.35	24.5	13 1/2	11 3/4	3/8
10"	39.15	41.5	16	14 1/4	3/8
12"	54.10	46.75	19	17	3/8

747 — COMPANION FLANGES

(Not illustrated.)

Same as 741 except without tube shoulder. A.S.M.E. Drill.
Same sizes and prices as No. 741.

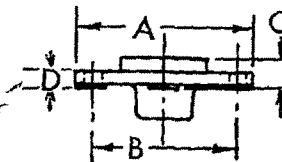
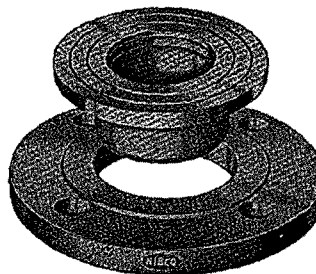
753 — BLIND COMPANION FLANGES

(Not illustrated.)

No Copper Connection. A.S.M.E. Standard Drilling.
Same sizes and prices as No. 741.

754 — BLANK COMPANION FLANGES

(Not illustrated.)

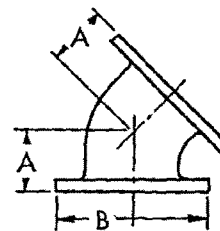
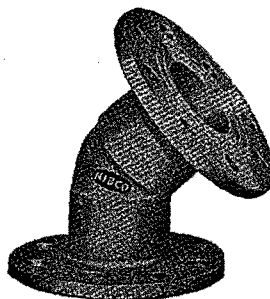
No Bolt Holes. A.S.M.E. Standard Drilling.
Same sizes and prices as No. 741.

742 — COMPANION FLANGE

A.S.M.E. Standard Drilling

(Bronze insert, Cast Iron ring, Bolts not included)

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C	Dim. D
2 1/2"	\$ 7.00	7.45	7	5 1/2	3/8	1 1/8
3"	7.40	10.01	7 1/2	6	3/8	1 1/8
4"	10.20	15.79	9	7 1/2	3/8	1
5"	16.20	20.33	10	8 1/2	3/8	1
6"	18.60	25.62	11	9 1/2	3/8	1 1/8
8"	26.00	32.52	13 1/2	11 3/4	3/8	1
10"	41.00	54.00	16	14 1/4	3/8	1 1/8
12"	64.25	60.00	19	17	1/2	1 1/4
14"	93.90	78.00	21	18 3/4	1/2	1 3/8



706-11 — 45 DEG. FLANGED ELBOWS

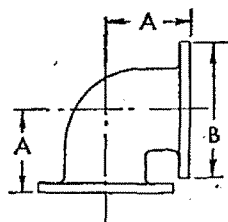
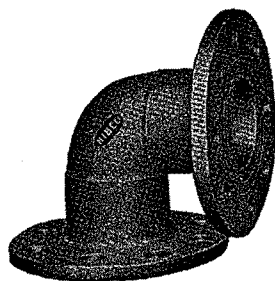
A.S.M.E. Standard Drilling

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B
3"	\$18.40	13.01	2 3/8	7 1/2
3 1/2"	23.05	17.77	2 1/8	8 1/2
4"	27.05	19.59	3	9
5"	41.95	25.62	3 1/8	10
6"	57.75	33.93	3 3/8	11
8"	65.35	45.00	4 1/8	13 1/2
10"	91.95	75.00	4 3/8	16
12"	126.45	97.00	5 1/2	19

FLANGED FITTINGS

By NIBCO

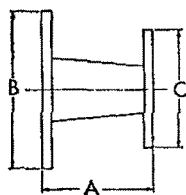
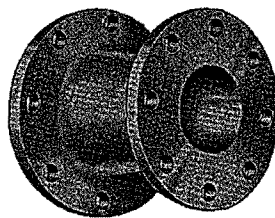
125-LB. A. S. M. E. STANDARD



707-11 — 90 DEG. FLANGED ELBOWS

A.S.M.E. Standard Drilling

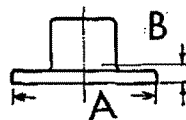
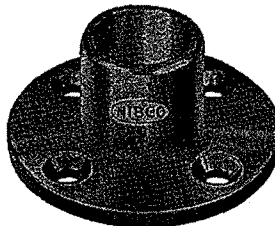
Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B
3"	\$18.40	14.85	4 $\frac{1}{8}$ "	7 $\frac{1}{2}$ "
3 $\frac{1}{2}$ "	23.05	20.39	5"	8 $\frac{1}{2}$ "
4"	27.05	22.83	5 $\frac{1}{4}$ "	9"
5"	41.95	31.46	5 $\frac{7}{8}$ "	10"
6"	57.75	47.20	7"	11"
8"	65.35	61.00	8 $\frac{1}{8}$ "	13 $\frac{1}{2}$ "
10"	91.95	83.00	9 $\frac{7}{8}$ "	16"
12"	126.45	108.00	11"	19"



751 — FLANGED REDUCERS

A.S.M.E. Standard Drilling

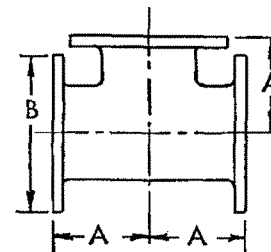
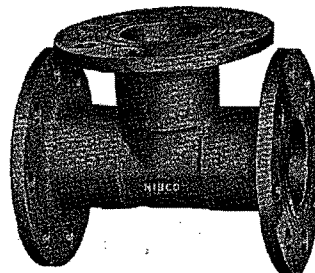
Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C
4" x 3"	\$ 23.45	25.12	7 $\frac{1}{4}$ "	9"	7 $\frac{1}{2}$ "
8" x 4"	67.05	59.00	5 $\frac{1}{8}$ "	13 $\frac{1}{2}$ "	9"
12" x 6"	143.00	84.00	6 $\frac{3}{8}$ "	19"	11"
12" x 10"	166.20	97.00	14 $\frac{1}{2}$ "	19"	16"



746 — RAILING FLANGES

Polished — Not Plated

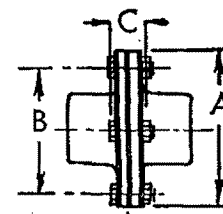
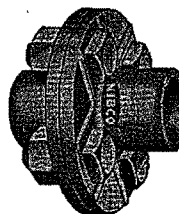
Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B
1/2"	\$.95	.39	2 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "
3/4"	1.25	.52	2 $\frac{1}{2}$ "	1 $\frac{1}{4}$ "
1"	1.95	.74	2 $\frac{7}{8}$ "	1 $\frac{3}{8}$ "
1 $\frac{1}{4}$ "	2.30	.83	3 $\frac{1}{4}$ "	1 $\frac{7}{8}$ "
1 $\frac{1}{2}$ "	3.30	1.16	3 $\frac{3}{4}$ "	1 $\frac{7}{8}$ "
2"	4.20	2.02	4 $\frac{1}{2}$ "	2 $\frac{1}{8}$ "



711-11 — FLANGED TEES

A.S.M.E. Standard Drilling

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B
3"	\$ 26.75	22.60	4 $\frac{1}{8}$ "	7 $\frac{1}{2}$ "
3 $\frac{1}{2}$ "	33.60	30.34	5"	8 $\frac{1}{2}$ "
4"	40.45	33.77	5 $\frac{1}{4}$ "	9"
5"	61.70	51.51	5 $\frac{7}{8}$ "	10"
6"	84.95	70.20	7"	11"
8"	87.40	84.00	8 $\frac{1}{8}$ "	13 $\frac{1}{2}$ "
10"	136.40	125.00	9 $\frac{7}{8}$ "	16"
12"	176.00	155.00	11"	19"



740 — FLANGED UNIONS

Copper to Copper

(2 parts, bolts not included)

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C
1/2"	\$ 1.30	.63	2 $\frac{3}{8}$ "	1 $\frac{3}{8}$ "	1 $\frac{1}{2}$ "
3/4"	1.70	.85	2 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	3/8"
1"	3.00	1.80	3 $\frac{3}{8}$ "	2 $\frac{3}{8}$ "	1/2"
1 $\frac{1}{4}$ "	3.50	2.12	4 $\frac{1}{2}$ "	2 $\frac{3}{8}$ "	1/2"
1 $\frac{1}{2}$ "	5.30	3.24	4 $\frac{3}{8}$ "	3 $\frac{3}{8}$ "	5/8"
2"	7.00	4.80	5"	3 $\frac{1}{2}$ "	1/2"
2 $\frac{1}{2}$ "	10.95	5.84	5 $\frac{1}{8}$ "	4 $\frac{1}{2}$ "	5/8"
3"	14.60	6.65	6"	4 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "
3 $\frac{1}{2}$ "	17.35	10.75	7 $\frac{1}{8}$ "	5 $\frac{1}{8}$ "	1/2"
4"	20.65	11.93	7 $\frac{1}{8}$ "	6 $\frac{3}{8}$ "	1 $\frac{1}{8}$ "
5"	26.45	12.55	9 $\frac{1}{8}$ "	7 $\frac{1}{8}$ "	3/4"
6"	31.90	32.91	10 $\frac{1}{8}$ "	8 $\frac{1}{4}$ "	1"
8"	58.70	49.00	12 $\frac{1}{8}$ "	10 $\frac{1}{8}$ "	1 $\frac{1}{2}$ "
10"	78.30	83.00	16"	14 $\frac{1}{4}$ "	3/4"
12"	108.20	93.50	19"	17"	3/4"

FLANGED FITTINGS

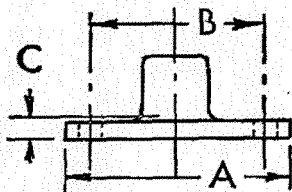
By NIBCO

R. P. M. STANDARD

DIMENSIONS

R.P.M. Flanges or Flanged Ends

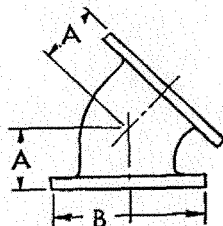
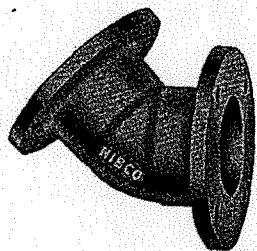
Nominal Size	Flange O.D.	Bolt Circle	Thickness of Flange	Dia. Bolt Hole	Dia. Bolt	No. Bolt Holes
3"	6"	4 3/4"	1 1/8"	1/2"	3/8"	4
3 1/2"	6 1/2"	5 3/8"	1 1/8"	1/2"	3/8"	4
4"	7"	5 1 1/8"	1 1/8"	1/2"	3/8"	8
5"	8"	6 1 3/8"	1 1/8"	1/2"	3/8"	8
6"	9"	7 7/8"	1 1/8"	1/2"	3/8"	8
8"	11"	10"	5/8"	1 1/8"	1 1/8"	8
10"	14"	12 1/4"	5/8"	1 1/8"	1 1/8"	8
12"	16"	14 1/4"	1 1/8"	1 1/8"	1 1/8"	12
14"	18"	16 1/2"	1 1/8"	1 1/8"	1 1/8"	12



743 — FITTING FLANGES

R.P.M. Standard Drilling (Bolts not included)

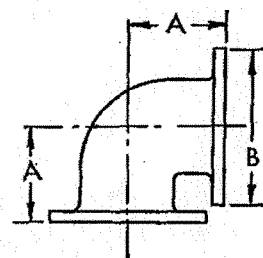
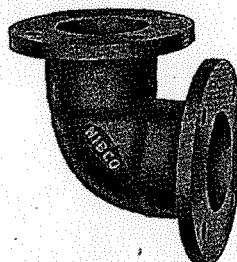
Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B	Dim. C
3"	\$ 6.10	3.70	6	4 3/4	3/8
3 1/2"	6.85	4.65	6 1/2	5 3/8	1/2
4"	7.60	5.25	7	5 1 1/8	3/8
5"	10.25	8.10	8	6 1 3/8	3/8
6"	15.20	12.50	9	7 7/8	3/8
8"	18.25	16.80	11	10	3/8
10"	26.60	25.66	14	12 1/4	3/8
12"	40.30	40.75	16	14 1/4	3/8
14"	45.15	60.00	18	16 1/2	1/2



706-10 — 45 DEG. FLANGED ELBOWS

R.P.M. Standard Drilling

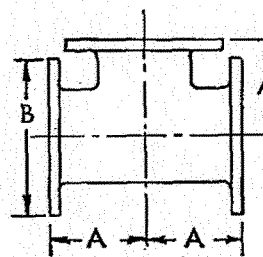
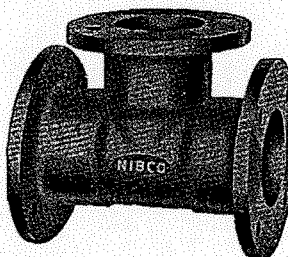
Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B
3"	\$15.95	8.81	2 3/8	6
3 1/2"	19.40	10.62	2 1 1/8	6 1/2
4"	21.60	13.68	3	7
5"	36.00	17.31	3 3/8	8
6"	43.15	24.08	3 3/4	9
8"	49.55	40.00	3 3/8	11
10"	66.90	68.00	4	14
12"	98.80	87.00	4 3/4	16



707-10 — 90 DEG. FLANGED ELBOWS

R.P.M. Standard Drilling

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B
3"	\$15.95	9.51	3 3/8	6
3 1/2"	19.40	12.09	4 1 1/8	6 1/2
4"	21.60	15.39	4 1/2	7
5"	36.00	21.41	5	8
6"	43.15	30.32	5 1/2	9
8"	49.55	44.00	7 1/4	11
10"	66.90	75.00	8 3/8	14
12"	98.80	97.00	9 7/8	16



711-10 — FLANGED TEES

R.P.M. Standard Drilling

Nominal Size	List Price Each	Approx. Net Wt.	Dim. A	Dim. B
3"	\$23.10	14.02	3 3/8	6
3 1/2"	28.10	16.99	4 1 1/8	6 1/2
4"	32.20	21.28	4 1/2	7
5"	52.80	31.15	5	8
6"	54.10	44.25	5 1/2	9
8"	61.40	66.50	7 1/4	11
10"	98.80	101.00	8 3/8	14
12"	134.50	149.00	9 7/8	16

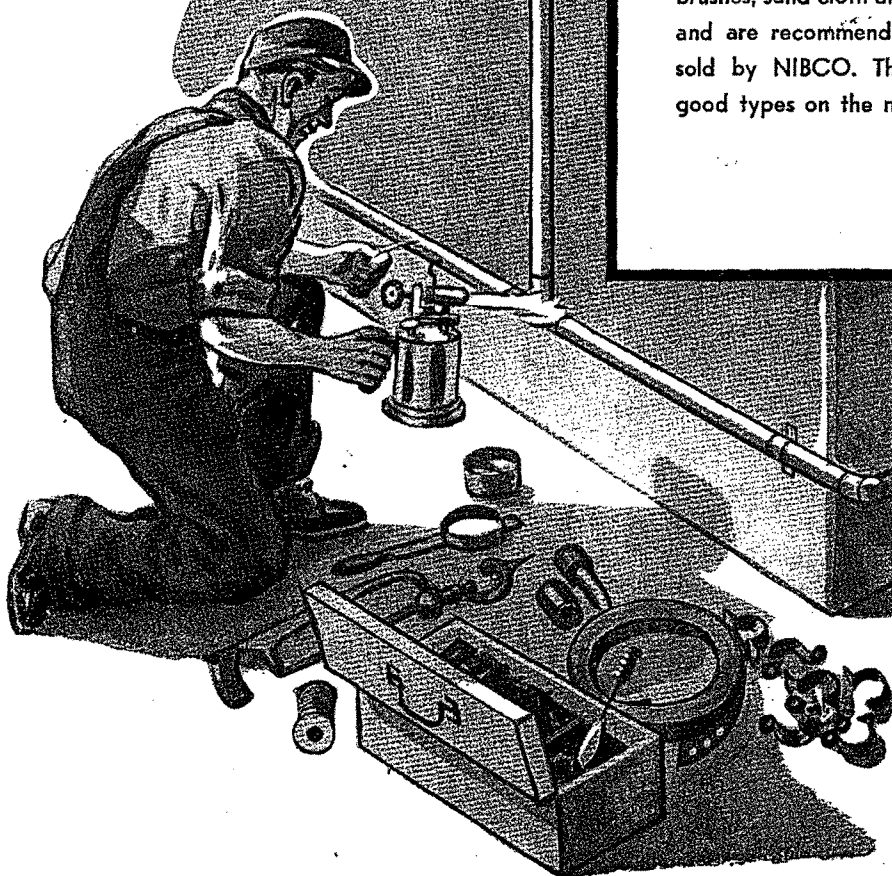
Section 7

ACCESSORIES

Every industry requires its own tools and accessories for the best workmanship. In the following pages, NIBCO lists and illustrates those items required for piping systems with copper tubes.

The hangers and hanger parts are made specifically for use with copper water tubes. All parts are brass or bronze unless specified otherwise.

All items not manufactured by NIBCO are the best available. Such items as tube and fitting brushes, sand cloth and fluxes have been tested and are recommended. No heating units are sold by NIBCO. There are, however, many good types on the market today.

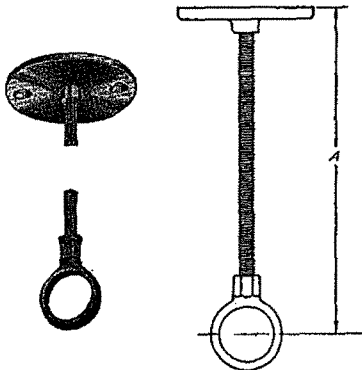


ACCESSORIES

By NIBCO

 Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

All Hangers and Hanger Parts are Brass or Bronze except Fig. 794.


790 — SOLID RING HANGERS

Fixed Shank

Complete with Round Ceiling Plate No. 782, 6" Rod No. 788, and Hanger Ring No. 796.

Nominal Size	Tapping	A-Dimension Min.	A-Dimension Max.	List Price Each
$\frac{3}{8}$ "	$\frac{1}{4}$ "-20	$1\frac{1}{8}$ "	$6\frac{1}{2}$ "	.71
$\frac{1}{2}$ "	$\frac{1}{4}$ "-20	$1\frac{1}{8}$ "	$6\frac{1}{2}$ "	.71
$\frac{3}{4}$ "	$\frac{1}{4}$ "-20	$1\frac{1}{8}$ "	$6\frac{1}{2}$ "	.76
1"	$\frac{1}{4}$ "-20	$1\frac{1}{8}$ "	$7\frac{1}{8}$ "	.78
$1\frac{1}{4}$ "	$\frac{1}{4}$ "-20	$2\frac{1}{8}$ "	$7\frac{1}{8}$ "	.93
$1\frac{1}{2}$ "	$\frac{1}{4}$ "-20	$2\frac{1}{8}$ "	$7\frac{3}{4}$ "	1.01
2"	$\frac{1}{4}$ "-20	$2\frac{3}{8}$ "	8"	1.08

790-A — SOLID RING HANGERS

Fixed Shank

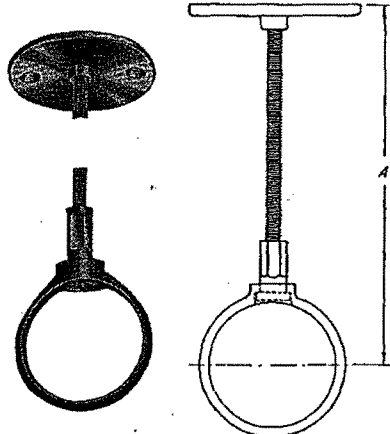
Complete with Round Ceiling Plate No. 782, 12" Rod No. 789, and Hanger Ring No. 796.

Nominal Size	Tapping	A-Dimension Min.	A-Dimension Max.	List Price Each
$\frac{3}{8}$ "	$\frac{1}{4}$ "-20	$6\frac{3}{8}$ "	$12\frac{1}{2}$ "	.85
$\frac{1}{2}$ "	$\frac{1}{4}$ "-20	$6\frac{3}{8}$ "	$12\frac{5}{8}$ "	.85
$\frac{3}{4}$ "	$\frac{1}{4}$ "-20	7"	$12\frac{7}{8}$ "	.90
1"	$\frac{1}{4}$ "-20	$7\frac{1}{4}$ "	$13\frac{1}{8}$ "	.92
$1\frac{1}{4}$ "	$\frac{1}{4}$ "-20	$7\frac{5}{8}$ "	$13\frac{1}{2}$ "	1.07
$1\frac{1}{2}$ "	$\frac{1}{4}$ "-20	$7\frac{7}{8}$ "	$13\frac{3}{4}$ "	1.15
2"	$\frac{1}{4}$ "-20	$8\frac{1}{8}$ "	14"	1.22


796 — SOLID SHANK HANGER RINGS

For Use with Hangers 790, 790-A.

Nominal Size	Tapping	List Price Each
$\frac{3}{8}$ "	$\frac{1}{4}$ "-20	.23
$\frac{1}{2}$ "	$\frac{1}{4}$ "-20	.23
$\frac{3}{4}$ "	$\frac{1}{4}$ "-20	.28
1"	$\frac{1}{4}$ "-20	.30
$1\frac{1}{4}$ "	$\frac{1}{4}$ "-20	.45
$1\frac{1}{2}$ "	$\frac{1}{4}$ "-20	.53
2"	$\frac{1}{4}$ "-20	.60


791 — SOLID RING HANGERS

Swivel Shank

Complete with Round Ceiling Plate No. 782, 6" Rod No. 788, and Hanger Ring No. 797.

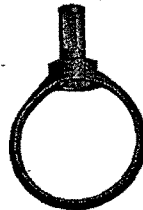
Nominal Size	Tapping	A-Dimension Min.	A-Dimension Max.	List Price Each
$2\frac{1}{2}$ "	$\frac{3}{8}$ "-16	$4\frac{1}{8}$ "	$9\frac{1}{8}$ "	\$1.87
3"	$\frac{3}{8}$ "-16	$4\frac{1}{8}$ "	$9\frac{3}{8}$ "	2.33
$3\frac{1}{2}$ "	$\frac{3}{8}$ "-16	$4\frac{1}{8}$ "	$9\frac{5}{8}$ "	2.53
$4\frac{1}{2}$ "	$\frac{3}{8}$ "-16	$4\frac{1}{8}$ "	$9\frac{7}{8}$ "	2.88
5"	$\frac{3}{8}$ "-16	$5\frac{1}{8}$ "	$10\frac{7}{8}$ "	3.63
6"	$\frac{1}{2}$ "-13	$6\frac{1}{8}$ "	$11\frac{7}{8}$ "	5.88
8"	$\frac{1}{2}$ "-13	$8\frac{1}{8}$ "	$13\frac{1}{8}$ "	8.08

791-A — SOLID RING HANGERS

Swivel Shank

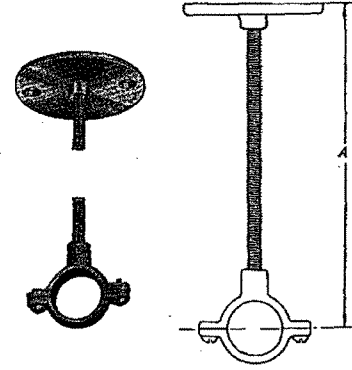
Complete with Round Ceiling Plate No. 782, 12" Rod No. 789, and Hanger Ring No. 797.

Nominal Size	Tapping	A-Dimension Min.	A-Dimension Max.	List Price Each
$2\frac{1}{2}$ "	$\frac{3}{8}$ "-16	$9\frac{1}{4}$ "	$15\frac{1}{8}$ "	\$2.35
3"	$\frac{3}{8}$ "-16	$9\frac{1}{4}$ "	$15\frac{3}{8}$ "	2.81
$3\frac{1}{2}$ "	$\frac{3}{8}$ "-16	$9\frac{3}{4}$ "	$15\frac{5}{8}$ "	3.01
4"	$\frac{3}{8}$ "-16	10"	$15\frac{7}{8}$ "	3.36
5"	$\frac{3}{8}$ "-16	11"	$16\frac{7}{8}$ "	4.11
6"	$\frac{1}{2}$ "-13	12"	$17\frac{7}{8}$ "	6.60
8"	$\frac{1}{2}$ "-13	$13\frac{1}{4}$ "	$19\frac{1}{8}$ "	8.80


797 — SWIVEL SHANK HANGER RINGS

For Use with Hangers 791, 791-A.

Nominal Size	Tapping	List Price Each
$2\frac{1}{2}$ "	$\frac{3}{8}$ "-16	.85
3"	$\frac{3}{8}$ "-16	1.00
$3\frac{1}{2}$ "	$\frac{3}{8}$ "-16	1.20
4"	$\frac{3}{8}$ "-16	1.55
5"	$\frac{3}{8}$ "-16	2.30
6"	$\frac{1}{2}$ "-13	3.80
8"	$\frac{1}{2}$ "-13	6.00


792 — SPLIT RING HANGERS

Complete with Round Ceiling Plate No. 782, 6" Rod No. 788, and Hanger Ring No. 798.

Nominal Size	Tapping	A-Dimension Min.	A-Dimension Max.	List Price Each
$\frac{3}{8}$ "	$\frac{1}{4}$ "-20	$1\frac{1}{8}$ "	$6\frac{1}{8}$ "	.83
$\frac{1}{2}$ "	$\frac{1}{4}$ "-20	$1\frac{1}{8}$ "	$6\frac{1}{2}$ "	.83
$\frac{3}{4}$ "	$\frac{1}{4}$ "-20	$1\frac{1}{8}$ "	$6\frac{3}{8}$ "	.85
$\frac{3}{4}$ "	$\frac{1}{4}$ "-20	$1\frac{3}{8}$ "	$6\frac{3}{8}$ "	.87
1"	$\frac{1}{4}$ "-20	$1\frac{1}{8}$ "	$6\frac{3}{4}$ "	.88
$1\frac{1}{4}$ "	$\frac{1}{4}$ "-20	$1\frac{3}{8}$ "	$6\frac{7}{8}$ "	1.04
$1\frac{1}{2}$ "	$\frac{1}{4}$ "-20	$1\frac{3}{8}$ "	$7\frac{1}{8}$ "	1.13
2"	$\frac{1}{4}$ "-20	$2\frac{1}{8}$ "	$7\frac{3}{8}$ "	1.23
$2\frac{1}{2}$ "	$\frac{3}{8}$ "-16	$2\frac{1}{4}$ "	$7\frac{3}{8}$ "	1.87
3"	$\frac{3}{8}$ "-16	$2\frac{3}{8}$ "	$7\frac{1}{8}$ "	2.33
$3\frac{1}{2}$ "	$\frac{3}{8}$ "-16	$3\frac{1}{8}$ "	$8\frac{1}{8}$ "	2.53
4"	$\frac{3}{8}$ "-16	$3\frac{1}{8}$ "	$8\frac{3}{8}$ "	2.88
5"	$\frac{3}{8}$ "-16	$3\frac{3}{8}$ "	$8\frac{3}{4}$ "	3.63
6"	$\frac{1}{2}$ "-13	$4\frac{1}{8}$ "	$9\frac{1}{8}$ "	5.88
8"	$\frac{1}{2}$ "-13	$5\frac{1}{8}$ "	$10\frac{1}{8}$ "	8.08

792-A — SPLIT RING HANGERS

Complete with Round Ceiling Plate No. 782, 12" Rod No. 789, and Hanger Ring No. 798.

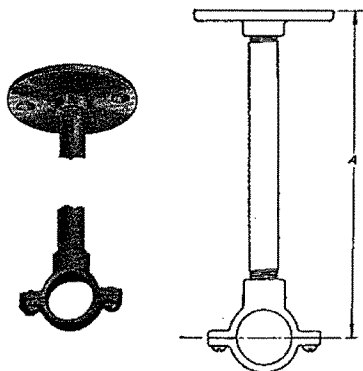
Nominal Size	Tapping	A-Dimension Min.	A-Dimension Max.	List Price Each
$\frac{3}{8}$ "	$\frac{1}{4}$ "-20	$6\frac{3}{8}$ "	$12\frac{1}{8}$ "	.97
$\frac{1}{2}$ "	$\frac{1}{4}$ "-20	$6\frac{3}{8}$ "	$12\frac{1}{2}$ "	.97
$\frac{3}{4}$ "	$\frac{1}{4}$ "-20	$6\frac{1}{8}$ "	$12\frac{3}{8}$ "	.99
$\frac{3}{4}$ "	$\frac{1}{4}$ "-20	$6\frac{3}{4}$ "	$12\frac{3}{8}$ "	1.01
1"	$\frac{1}{4}$ "-20	$6\frac{3}{8}$ "	$12\frac{3}{4}$ "	1.02
$1\frac{1}{4}$ "	$\frac{1}{4}$ "-20	7"	$12\frac{7}{8}$ "	1.18
$1\frac{1}{2}$ "	$\frac{1}{4}$ "-20	$7\frac{1}{8}$ "	$13\frac{1}{8}$ "	1.27
2"	$\frac{1}{4}$ "-20	$7\frac{1}{8}$ "	$13\frac{1}{4}$ "	1.37
$2\frac{1}{2}$ "	$\frac{3}{8}$ "-16	$7\frac{1}{8}$ "	$13\frac{1}{8}$ "	2.35
3"	$\frac{3}{8}$ "-16	$7\frac{1}{8}$ "	$13\frac{1}{4}$ "	2.81
$3\frac{1}{2}$ "	$\frac{3}{8}$ "-16	$8\frac{3}{8}$ "	$14\frac{1}{8}$ "	3.01
4"	$\frac{3}{8}$ "-16	$8\frac{7}{8}$ "	$14\frac{3}{8}$ "	3.36
5"	$\frac{3}{8}$ "-16	$8\frac{3}{4}$ "	$14\frac{3}{4}$ "	4.11
6"	$\frac{1}{2}$ "-13	$9\frac{1}{8}$ "	$15\frac{1}{8}$ "	6.60
8"	$\frac{1}{2}$ "-13	$10\frac{1}{8}$ "	$16\frac{1}{8}$ "	8.80

ACCESSORIES

By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

All Hangers and Hanger Parts are Brass or Bronze except Fig. 794.



793 — SPLIT RING HANGERS

Complete with Round Ceiling Plate No. 783,
Iron Pipe Nipple No. 794, and
Hanger Ring No. 799

Nominal Size	Tapping	A-Dimension	List Price Each
$\frac{1}{2}$ "	$\frac{1}{4}$ " N.P.T.I.	$4\frac{1}{2}$ "	.83
$\frac{3}{8}$ "	$\frac{1}{4}$ " N.P.T.I.	$4\frac{1}{2}$ "	.83
$\frac{3}{4}$ "	$\frac{1}{4}$ " N.P.T.I.	$4\frac{1}{2}$ "	.86
1"	$\frac{1}{4}$ " N.P.T.I.	$4\frac{1}{2}$ "	.89
$1\frac{1}{4}$ "	$\frac{1}{4}$ " N.P.T.I.	$4\frac{7}{8}$ "	1.07
$1\frac{1}{2}$ "	$\frac{1}{4}$ " N.P.T.I.	5"	1.15
2"	$\frac{1}{4}$ " N.P.T.I.	$5\frac{1}{4}$ "	1.27
$2\frac{1}{2}$ "	$\frac{3}{8}$ " N.P.T.I.	$6\frac{1}{2}$ "	1.63
3"	$\frac{1}{2}$ " N.P.T.I.	$6\frac{3}{4}$ "	2.14
$3\frac{1}{2}$ "	$\frac{1}{2}$ " N.P.T.I.	7"	2.39
4"	$\frac{1}{2}$ " N.P.T.I.	$7\frac{1}{4}$ "	2.74
5"	$\frac{1}{2}$ " N.P.T.I.	$7\frac{3}{4}$ "	3.54
6"	$\frac{3}{4}$ " N.P.T.I.	$8\frac{1}{2}$ "	5.75
8"	$\frac{3}{4}$ " N.P.T.I.	$9\frac{3}{4}$ "	8.20

793-A — SPLIT RING HANGERS

Complete with Round Ceiling Plate No. 783,
Red Brass Pipe Nipple No. 795, and
Hanger Ring No. 799.

Nominal Size	Tapping	A-Dimension	List Price Each
$\frac{1}{2}$ "	$\frac{1}{4}$ " N.P.T.I.	$4\frac{1}{2}$ "	.97
$\frac{3}{8}$ "	$\frac{1}{4}$ " N.P.T.I.	$4\frac{1}{2}$ "	.97
$\frac{3}{4}$ "	$\frac{1}{4}$ " N.P.T.I.	$4\frac{1}{2}$ "	1.00
1"	$\frac{1}{4}$ " N.P.T.I.	$4\frac{1}{2}$ "	1.03
$1\frac{1}{4}$ "	$\frac{1}{4}$ " N.P.T.I.	$4\frac{7}{8}$ "	1.21
$1\frac{1}{2}$ "	$\frac{1}{4}$ " N.P.T.I.	5"	1.29
2"	$\frac{1}{4}$ " N.P.T.I.	$5\frac{1}{4}$ "	1.41
$2\frac{1}{2}$ "	$\frac{3}{8}$ " N.P.T.I.	$6\frac{1}{2}$ "	1.86
3"	$\frac{1}{2}$ " N.P.T.I.	$6\frac{3}{4}$ "	2.45
$3\frac{1}{2}$ "	$\frac{1}{2}$ " N.P.T.I.	7"	2.70
4"	$\frac{1}{2}$ " N.P.T.I.	$7\frac{1}{4}$ "	3.05
5"	$\frac{1}{2}$ " N.P.T.I.	$7\frac{3}{4}$ "	3.85
6"	$\frac{3}{4}$ " N.P.T.I.	$8\frac{1}{2}$ "	6.17
8"	$\frac{3}{4}$ " N.P.T.I.	$9\frac{3}{4}$ "	8.62



782 — ROUND CEILING PLATES

Tapped for Solid Brass Rod.

For Use with Hangers 790, 790-A, 791,
791-A, 792, 792-A.

Nominal Size	Tapping	List Price Each
$\frac{3}{8}$ " to 2" Incl.	$\frac{1}{4}$ "-20	.34
$2\frac{1}{2}$ "	$\frac{3}{8}$ "-16	.54
3" to 5" Incl.	$\frac{3}{8}$ "-16	.85
6" to 8" Incl.	$\frac{1}{2}$ "-13	1.36



783 — ROUND CEILING PLATES

Tapped for Standard Pipe Size Nipple.

For Use with Hangers 793, 793-A.

Nominal Size	Tapping	List Price Each
$\frac{1}{2}$ " to 2" Inc.	$\frac{1}{4}$ " N.P.T.I.	.38
$2\frac{1}{2}$ "	$\frac{3}{8}$ " N.P.T.I.	.60
3" to 5" Inc.	$\frac{1}{2}$ " N.P.T.I.	.95
6" to 8" Inc.	$\frac{3}{4}$ " N.P.T.I.	1.50



786 — OBLONG CEILING PLATES

Tapped for Solid Brass Rod.

For Use with Hangers 790, 790-A, 791,
791-A, 792, 792-A.

Nominal Size	Tapping	List Price Each
$\frac{3}{8}$ " to 2" Incl.	$\frac{1}{4}$ "-20	.19
$2\frac{1}{2}$ "	$\frac{3}{8}$ "-16	.29
3" to 5" Incl.	$\frac{3}{8}$ "-16	.47
6" to 8" Incl.	$\frac{1}{2}$ "-13	.72



787 — OBLONG CEILING PLATES

Tapped for Standard Pipe Size Nipple.

For Use with Hangers 793, 793-A.

Nominal Size	Tapping	List Price Each
$\frac{1}{2}$ " to 2" Inc.	$\frac{1}{4}$ " N.P.T.I.	.21
$2\frac{1}{2}$ "	$\frac{3}{8}$ " N.P.T.I.	.32
3" to 5" Inc.	$\frac{1}{2}$ " N.P.T.I.	.52
6" to 8" Inc.	$\frac{3}{4}$ " N.P.T.I.	.80



798 — SPLIT RING HANGERS

For Use with Hangers 792, 792-A.

Nominal Size	Tapping	List Price Each
$\frac{3}{8}$ "	$\frac{1}{4}$ "-20	.35
$\frac{1}{2}$ "	$\frac{1}{4}$ "-20	.35
$\frac{3}{8}$ "	$\frac{1}{4}$ "-20	.37
$\frac{3}{4}$ "	$\frac{1}{4}$ "-20	.39
1"	$\frac{1}{4}$ "-20	.40
$1\frac{1}{4}$ "	$\frac{1}{4}$ "-20	.56
$1\frac{1}{2}$ "	$\frac{1}{4}$ "-20	.65
2"	$\frac{1}{4}$ "-20	.75
$2\frac{1}{2}$ "	$\frac{3}{8}$ "-16	.85
3"	$\frac{3}{8}$ "-16	1.00
$3\frac{1}{2}$ "	$\frac{3}{8}$ "-16	1.20
$4\frac{1}{2}$ "	$\frac{3}{8}$ "-16	1.55
5"	$\frac{3}{8}$ "-16	2.30
6"	$\frac{1}{2}$ "-13	3.80
8"	$\frac{1}{2}$ "-13	6.00



799 — SPLIT RING HANGERS

For Use with Hangers 793, 793-A

Nominal Size	Tapping	List Price Each
$\frac{1}{2}$ "	$\frac{1}{4}$ " N.P.T.I.	.38
$\frac{3}{8}$ "	$\frac{1}{4}$ " N.P.T.I.	.38
$\frac{3}{4}$ "	$\frac{1}{4}$ " N.P.T.I.	.41
1"	$\frac{1}{4}$ " N.P.T.I.	.44
$1\frac{1}{4}$ "	$\frac{1}{4}$ " N.P.T.I.	.62
$1\frac{1}{2}$ "	$\frac{1}{4}$ " N.P.T.I.	.70
2"	$\frac{1}{4}$ " N.P.T.I.	.82
$2\frac{1}{2}$ "	$\frac{3}{8}$ " N.P.T.I.	.95
3"	$\frac{1}{2}$ " N.P.T.I.	1.10
$3\frac{1}{2}$ "	$\frac{1}{2}$ " N.P.T.I.	1.35
4"	$\frac{1}{2}$ " N.P.T.I.	1.70
5"	$\frac{1}{2}$ " N.P.T.I.	2.50
6"	$\frac{3}{4}$ " N.P.T.I.	4.15
8"	$\frac{3}{4}$ " N.P.T.I.	6.60

788 — 6" SOLID BRASS RODS

For Use with Hangers 790, 791, 792

Nominal Size	Thread Size	List Price Each
$\frac{3}{8}$ " to 2" Incl.	$\frac{1}{4}$ "-20	.14
$2\frac{1}{2}$ " to 5" Incl.	$\frac{3}{8}$ "-16	.48
6" to 8" Incl.	$\frac{1}{2}$ "-13	.72

789 — 12" SOLID BRASS RODS

For Use with Hangers 790-A, 791-A, 792-A

Nominal Size	Thread Size	List Price Each
$\frac{3}{8}$ " to 2" Incl.	$\frac{1}{4}$ "-20	.28
$2\frac{1}{2}$ " to 5" Incl.	$\frac{3}{8}$ "-16	.96
6" to 8" Incl.	$\frac{1}{2}$ "-13	1.44



ACCESSORIES

By NIBCO

Sizes shown are nominal sizes (actual O.D. $\frac{1}{8}$ " larger) except thread sizes which are standard pipe sizes.

All Hangers and Hanger Parts are Brass or Bronze except Fig. 794.

794 — IRON PIPE NIPPLE

For Use with Hanger 793.

Nipples for $\frac{1}{2}$ " to 2" Hangers inclusive, 4" Long. Nipples for 2 $\frac{1}{2}$ " to 8" Hangers inclusive, 5" Long.

Nominal Size	Thread Size	List Price Each
$\frac{1}{2}$ " to 2" Incl.	$\frac{1}{4}$ " N.P.T.E.	\$.07
2 $\frac{1}{2}$ "	$\frac{3}{8}$ " N.P.T.E.	.08
3" to 5" Incl.	$\frac{1}{2}$ " N.P.T.E.	.09
6" to 8" Incl.	$\frac{3}{4}$ " N.P.T.E.	.10

795 — RED BRASS PIPE NIPPLE

For Use with Hanger 793-A.

Nipples for $\frac{1}{2}$ " to 2" Hangers inclusive, 4" Long. Nipples for 2 $\frac{1}{2}$ " to 8" Hangers inclusive, 5" Long.

Nominal Size	Thread Size	List Price Each
$\frac{1}{2}$ " to 2" Incl.	$\frac{1}{4}$ " N.P.T.E.	\$.21
2 $\frac{1}{2}$ "	$\frac{3}{8}$ " N.P.T.E.	.31
3" to 5" Incl.	$\frac{1}{2}$ " N.P.T.E.	.40
6" to 8" Incl.	$\frac{3}{4}$ " N.P.T.E.	.52

518 — FLANGING TOOLS

For All Types of Tube

Nominal Size	List Price Each
$\frac{1}{8}$ "	\$.45
$\frac{1}{4}$ "	.45
$\frac{3}{8}$ "	.55
$\frac{1}{2}$ "	.65
$\frac{5}{8}$ "	.75
$\frac{3}{4}$ "	.80
1"	1.30
1 $\frac{1}{4}$ "	3.60
1 $\frac{1}{2}$ "	5.00
2"	6.40
2 $\frac{1}{2}$ "	13.10
3"	18.40

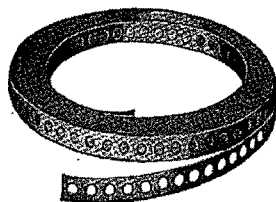
SIZING TOOLS

719-K — For Type K Tube

719-L — For Type L Tube

Orders should specify type of tube on which tool will be used.

Nominal Size	List Price Each
$\frac{1}{8}$ "	\$ 1.00
$\frac{1}{4}$ "	1.00
$\frac{3}{8}$ "	1.00
$\frac{1}{2}$ "	1.20
$\frac{5}{8}$ "	1.35
$\frac{3}{4}$ "	1.75
1"	3.00
1 $\frac{1}{4}$ "	6.50
1 $\frac{1}{2}$ "	10.40
2"	15.15



623 — COPPER HANGER STRAP

 $\frac{3}{4}$ " Wide

Size	List Price Each
25-Ft. Roll	\$2.25
50-Ft. Roll	4.50



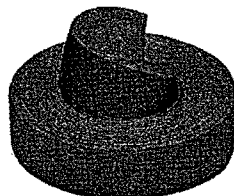
624 — TUBE STRAPS

Nominal Size	List Price Per M
$\frac{1}{8}$ "	\$ 30.10
$\frac{1}{4}$ "	33.40
$\frac{3}{8}$ "	42.60
$\frac{1}{2}$ "	47.10
$\frac{5}{8}$ "	56.20
$\frac{3}{4}$ "	65.40
1"	77.50
1 $\frac{1}{4}$ "	120.10
1 $\frac{1}{2}$ "	139.80
2"	176.30
3"	410.40



757 — TUBE END CLEANING BRUSHES

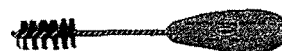
Nominal Size	List Price Each
$\frac{3}{8}$ "	\$.80
$\frac{1}{2}$ "	1.00
$\frac{3}{4}$ "	1.15
1"	1.30



765 — SAND CLOTH

Individually Packaged
 $1\frac{1}{2}$ " Wide

Size	List Price Each
10-Yard Roll	\$1.90
25-Yard Roll	3.80
50-Yard Roll	6.85



755 — FITTING CLEANING BRUSHES

Nominal Size	List Price Each
$\frac{1}{8}$ "	\$.60
$\frac{1}{4}$ "	.60
$\frac{3}{8}$ "	.60
$\frac{1}{2}$ "	.60
$\frac{5}{8}$ "	.65
$\frac{3}{4}$ "	.65
1"	.75
1 $\frac{1}{4}$ "	.80
1 $\frac{1}{2}$ "	.90
2"	1.00



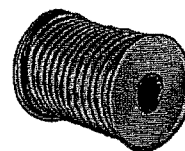
766 — NIBCO SOLDERING PASTE

Size	List Price Each
2 Oz. Can	\$.23
1 Lb. Can	1.50



767 — JOHNSON'S LIQUID SOLDERING FLUID

Size	List Price Each
3 Oz. Can	\$.30
1 Qt. Can	2.35

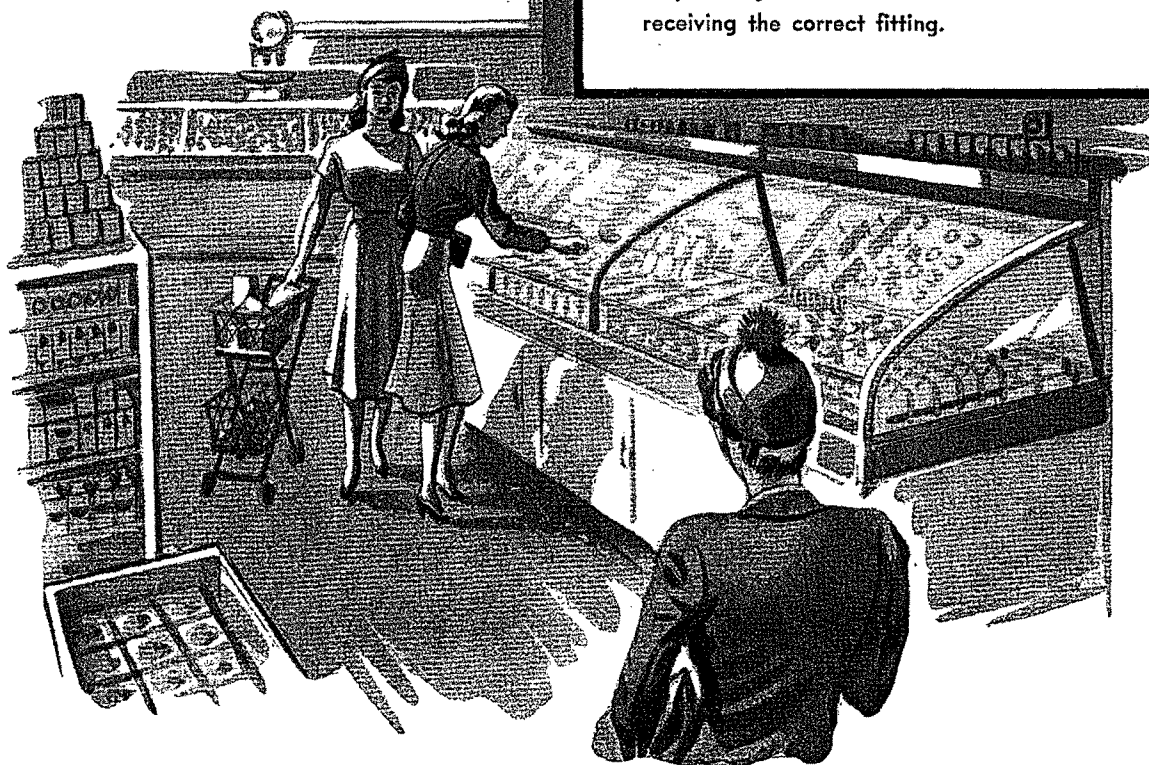
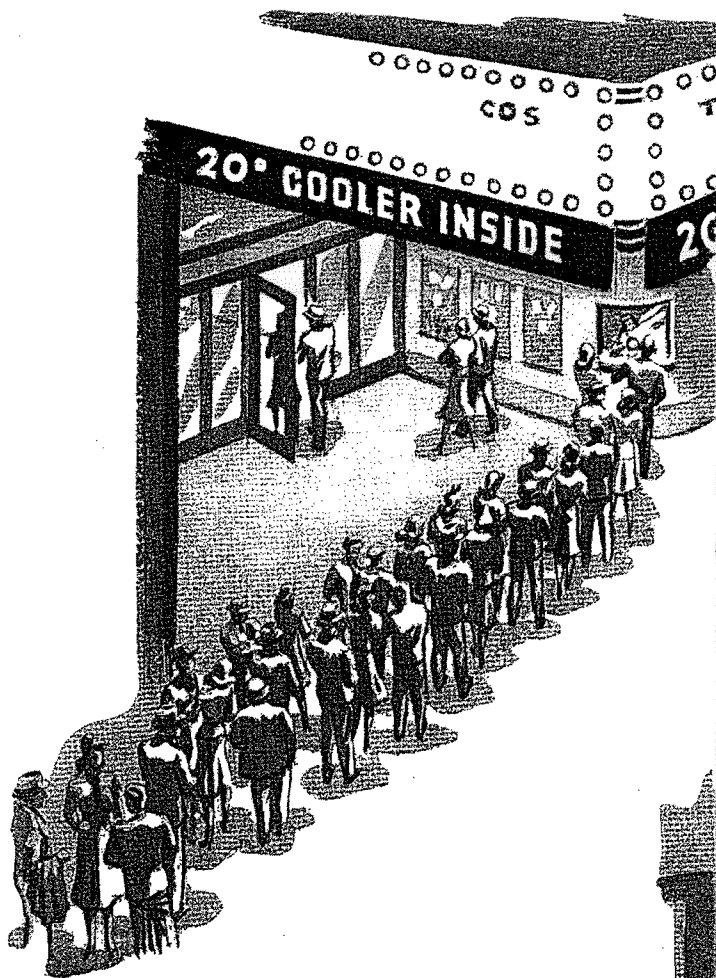


NIBCO 50-50 SOLDER

1 Lb. Spool } Subject to
5 Lb. Spool } Market Only

NIBCO 95-5 SOLDER

1 Lb. Spool } Subject to
5 Lb. Spool } Market Only



Section 8

WROT FITTINGS FOR REFRIGERATION

The Refrigeration Industry, because of their responsibility in food protection, air conditioning, and many other applications, requires that all materials be only the best quality. NIBCO Wrot Fittings have been proven by long use in Refrigeration installations.

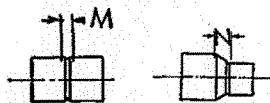
That is why NIBCO manufacturing processes are so important to the Industry. Uniform quality throughout a job is assured, because of the large number of styles and sizes of fittings available. This makes a complete installation possible, with the use of a minimum number of reducers, eliminating extra joints.

All copper tube connections are listed in actual outside diameter of the tube size with which they are used. It is necessary to specify only the figure number and the size to assure receiving the correct fitting.

WROT FITTINGS FOR REFRIGERATION

By NIBCO

Sizes shown are outside diameter tube sizes except thread sizes which are standard pipe threads.

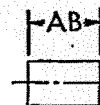


9600 — COUPLINGS WITH STOP
Copper to Copper

Actual O. D. Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. M	Dim. N
1/8"	.08	1000S	.005	1/8"	
1/4"	.08	1000S	.01	3/8"	
3/8"	.09	1000M	.008	1/2"	
1/2" x 1/4"	.09	1000M	.01	3/4"	5/8"
3/8" x 1/8"	.09	1000M	.015	5/8"	3/4"
3/8" x 1/2"	.09	1000M	.01	3/4"	1/2"
3/8" x 1/4"	.09	1000M	.01	1/2"	3/8"
1/2"	.09	250M	.03	3/4"	
1/2" x 3/8"	.09	250M	.015	3/4"	1/2"
1/2" x 1/8"	.09	250M	.015	3/4"	3/8"
1/2" x 1/4"	.09	250M	.012	3/4"	3/8"
5/8"	.12	250M	.04	1/2"	3/4"
5/8" x 1/2"	.12	250M	.03	1/2"	3/4"
5/8" x 3/8"	.12	250M	.02	3/4"	3/8"
3/4"	.15	100M	.05	3/4"	3/8"
3/4" x 5/8"	.15	100M	.055	3/4"	3/8"
3/4" x 1/2"	.15	100M	.05	3/4"	3/8"
3/4" x 3/8"	.15	100M	.025	3/4"	3/8"
7/8"	.18	100M	.10	1/2"	
7/8" x 3/4"	.18	100M	.075	3/4"	3/8"
7/8" x 5/8"	.18	100M	.065	3/4"	3/8"
7/8" x 1/2"	.18	100M	.06	3/4"	3/8"
7/8" x 3/8"	.18	100M	.05	3/4"	3/8"
1"	.22	150L	.13	1/2"	
1 1/8"	.24	150L	.15	1/2"	
1 1/8" x 1"	.24	150L	.15	3/4"	5/8"
1 1/8" x 7/8"	.24	150L	.15	3/4"	5/8"
1 1/8" x 3/4"	.24	150L	.10	3/4"	5/8"
1 1/8" x 5/8"	.24	150L	.09	3/4"	5/8"
1 1/8" x 1/2"	.24	150L	.08	3/4"	5/8"
1 3/8"	.30	100L	.19	3/4"	5/8"
1 3/8" x 1 1/8"	.30	100L	.20	3/4"	5/8"
1 3/8" x 7/8"	.30	100L	.12	3/4"	5/8"
1 3/8" x 3/4"	.30	100L	.13	3/4"	5/8"
1 3/8" x 5/8"	.30	100L	.10	3/4"	5/8"
1 5/8"	.38	50L	.28	3/4"	5/8"
1 5/8" x 1 3/8"	.38	50L	.24	3/4"	5/8"
1 5/8" x 1 1/8"	.38	50L	.18	3/4"	5/8"
1 5/8" x 7/8"	.38	50L	.16	3/4"	5/8"
1 5/8" x 5/8"	.38	50L	.12	3/4"	5/8"
2 1/8"	.68	25L	.44	3/4"	5/8"
2 1/8" x 1 5/8"	.68	25L	.39	3/4"	5/8"
2 1/8" x 1 3/8"	.68	25L	.33	3/4"	5/8"
2 1/8" x 1 1/8"	.68	25L	.27	3/4"	5/8"
2 1/8" x 7/8"	.68	25L	.27	3/4"	5/8"
2 1/8" x 5/8"	.68	25L	.24	3/4"	5/8"

9600 — COUPLINGS WITH STOP
(Continued)

Actual O. D. Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. M	Dim. N
2 3/8"	\$ 1.00		.74	3/4"	
2 3/8" x 2 1/8"	1.00		.69		5/8"
2 3/8" x 1 5/8"	1.00		.71		5/8"
2 3/8" x 1 3/8"	1.00		.64		5/8"
2 3/8" x 1 1/8"	1.00		.62		5/8"
3 1/8"	1.65		1.15	3/4"	
3 1/8" x 2 5/8"	1.65		1.09		5/8"
3 1/8" x 2 1/8"	1.65		.81		5/8"
3 1/8" x 1 5/8"	1.65		.90		5/8"
3 5/8"	2.35		1.84	3/4"	
3 5/8" x 3 1/8"	2.35		1.90		5/8"
4 1/8"	2.95		2.21	3/4"	
4 1/8" x 3 5/8"	2.95		2.14		5/8"
4 1/8" x 3 1/8"	2.95		2.03		5/8"
5 1/8"	5.95		4.80	3/4"	
6 1/8"	8.35		8.03	3/4"	
8 1/8"	14.45		18.7	3/4"	



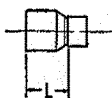
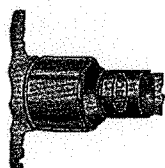
9601 — COUPLINGS WITHOUT STOP
Copper to Copper

Actual O. D. Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. AB
1/8"	.08	1000S	.005	3/4"
1/4"	.08	1000S	.01	3/4"
3/8"	.09	1000M	.008	3/4"
1/2"	.09	1000M	.015	3/4"
5/8"	.12	250M	.03	1 1/4"
3/4"	.12	250M	.04	1 1/4"
7/8"	.15	100M	.05	1 1/4"
1"	.18	100M	.10	1 1/4"
1 1/8"	.22	150L	.13	1 1/4"
1 1/4"	.24	150L	.15	1 1/4"
1 1/2"	.30	100L	.19	2 3/4"
1 3/4"	.38	50L	.28	2 3/4"
2 1/8"	.68	25L	.44	2 7/8"
2 3/8"	1.00		.74	3 3/4"
3 1/8"	1.65		1.15	3 3/4"
3 5/8"	2.35		1.84	4 1/8"
4 1/8"	2.95		2.21	4 1/8"
5 1/8"	5.95		4.80	5 1/8"
6 1/8"	8.35		8.03	6 1/8"
8 1/8"	14.45		18.7	7

WROT FITTINGS FOR REFRIGERATION

By NIBCO

Sizes shown are outside diameter tube sizes except thread sizes which are standard pipe threads.



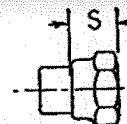
9600-2 — FITTING REDUCERS

Fitting to Copper

Actual O. D. Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. L
3/8" x 1/4"	.09	1000M	.008	5/16
1/2" x 3/8"	.09	250M	.015	3/4
1/2" x 1/4"	.09	250M	.01	3/4
5/8" x 1/2"	.12	250M	.035	3/4
5/8" x 3/8"	.12	250M	.02	3/4
3/4" x 5/8"	.15	100M	.05	1
3/4" x 1/2"	.15	100M	.045	1 1/16
7/8" x 3/4"	.18	100M	.075	1 1/8
7/8" x 5/8"	.18	100M	.06	1 1/8
7/8" x 1/2"	.18	100M	.05	1 1/4
7/8" x 3/8"	.18	100M	.04	1 1/8
1 1/8" x 7/8"	.24	150L	.135	1 3/8
1 1/8" x 5/8"	.24	150L	.085	1 3/8
1 1/8" x 1/2"	.24	150L	.07	1 3/8
1 3/8" x 1 1/8"	.30	100L	.18	1 3/8
1 3/8" x 7/8"	.30	100L	.18	1 3/8
1 3/8" x 5/8"	.30	100L	.17	1 7/8
1 5/8" x 1 3/8"	.38	50L	.24	1 1/2
1 5/8" x 1 1/8"	.38	50L	.23	1 3/4
1 5/8" x 7/8"	.38	50L	.21	1 3/4
1 5/8" x 5/8"	.38	50L	.125	1 1/2
2 1/8" x 1 5/8"	.68	25L	.395	1 1/2
2 1/8" x 1 3/8"	.68	25L	.34	2 1/8
2 1/8" x 1 1/8"	.68	25L	.26	1 7/8
2 1/8" x 7/8"	.68	25L	.25	1 3/4
2 1/8" x 5/8"	.68	25L	.24	1 3/4
2 5/8" x 2 1/8"	1.00		.65	2 1/8
2 5/8" x 1 5/8"	1.00		.64	2 1/8
2 5/8" x 1 3/8"	1.00		.63	2 3/8
2 5/8" x 1 1/8"	1.00		.62	3
3 1/8" x 2 5/8"	1.65		.91	2 3/8
3 1/8" x 2 1/8"	1.65		.82	2 3/8
3 1/8" x 1 5/8"	1.65		.89	2 3/8
3 1/8" x 1 3/8"	1.65		.94	2 3/4
3 1/8" x 1 1/8"	1.65		.92	2 3/8
3 5/8" x 3 1/8"	2.35		2.07	2 3/4
4 1/8" x 3 5/8"	2.95		2.15	2 1/2
4 1/8" x 3 1/8"	2.95		1.96	3 3/8
4 1/8" x 2 5/8"	2.95		1.85	3 1/8
4 1/8" x 2 1/8"	2.95		1.80	3 1/2
4 1/8" x 1 5/8"	2.95		1.80	3 1/2
4 1/8" x 1 3/8"	2.95		1.80	2 5/8
4 1/8" x 1 1/8"	2.95		1.73	3 3/8



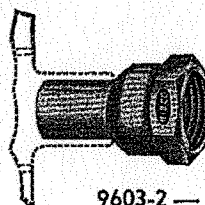
Patent Applied For



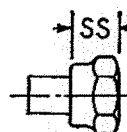
9603 — FEMALE ADAPTERS

Copper to N. P. T. I.

Actual O. D. Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. S
1/4" x 1/8"	.18	500S	.02	1/8
3/8" x 1/4"	.18	500M	.04	3/4
3/8" x 3/8"	.18	250M	.07	3/4
1/2" x 3/8"	.18	250M	.06	3/4
1/2" x 1/2"	.30	100M	.16	1 1/8
1/2" x 3/4"	.20	150M	.09	3/4
5/8" x 1/2"	.20	150M	.09	3/4
5/8" x 3/4"	.30	100M	.16	1 1/8
5/8" x 5/8"	.20	150M	.06	1 1/8
5/8" x 1/4"	.20	150M	.07	1 1/8
3/4" x 3/4"	.30	100M	.14	1 1/8
3/4" x 1/2"	.25	100M	.09	1 1/8
7/8" x 3/4"	.30	100M	.165	1 1/8
7/8" x 1"	.55	100L	.26	1 1/4
7/8" x 1/2"	.30	100M	.12	1 1/8
1 1/8" x 1"	.55	100L	.28	1 1/8
1 1/8" x 1 1/4"	.76	75L	.44	1 3/8
1 1/8" x 3/4"	.55	100L	.19	1 1/8
1 3/8" x 1 1/4"	.76	75L	.36	1 1/8
1 3/8" x 1 1/2"	1.05	40L	.46	1 1/2
1 3/8" x 1"	.76	75L	.37	1 1/8
1 5/8" x 1 1/2"	1.05	40L	.47	1 1/2
1 5/8" x 2"	1.50	25L	.68	1 5/8
1 5/8" x 1 1/4"	1.05	40L	.46	1 1/8
2 1/8" x 2"	1.50	25L	.69	1 3/4
2 1/8" x 1 1/2"	1.50	25L	.32	1 5/8



Patent Applied For



9603-2 — FEMALE FITTING ADAPTERS

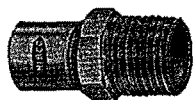
Fitting to N. P. T. I.

Actual O. D. Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. SS
1/4" x 1/8"	.18	500S	.02	1/8
3/8" x 1/4"	.18	500M	.04	3/4
1/2" x 3/8"	.18	250M	.06	3/4
1/2" x 1/2"	.20	150M	.08	3/4
3/8" x 1/2"	.20	150M	.09	1 1/8
3/8" x 3/4"	.30	100M	.18	3/4
5/8" x 3/8"	.20	150M	.06	3/4
5/8" x 3/4"	.30	100M	.17	3/4
7/8" x 1/2"	.30	100M	.15	3/4
1 1/8" x 1"	.55	100L	.28	1 1/8
1 3/8" x 1 1/4"	.76	75L	.36	1 3/8
1 5/8" x 1 1/2"	1.05	40L	.45	1 1/2
2 1/8" x 2"	1.50	25L	.72	1 5/8

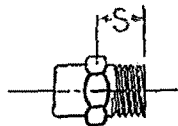
WROT FITTINGS FOR REFRIGERATION

By NIBCO

Sizes shown are outside diameter tube sizes except thread sizes which are standard pipe threads.

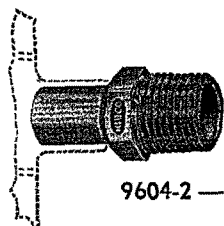


Patent Applied For

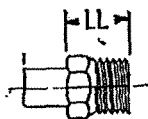


9604 — MALE ADAPTERS
Copper to N. P. T. E.

Actual O. D. Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. S
1/4" x 1/8"	.18	500S	.025	1/2
3/8" x 1/4"	.18	500M	.03	3/4
3/8" x 3/8"	.18	250M	.08	1
1/2" x 3/8"	.18	250M	.05	1 1/4
1/2" x 1/2"	.30	100M	.15	1 1/2
1/2" x 1/2"	.20	150M	.08	1 3/4
3/8" x 1/2"	.20	150M	.085	1 3/4
3/8" x 1"	.55	100L	.23	1 3/4
3/8" x 3/4"	.30	100M	.15	1 3/4
3/8" x 3/8"	.20	150M	.06	1 3/4
3/4" x 3/4"	.30	100M	.19	1 3/4
3/4" x 1/2"	.25	100M	.09	1
7/8" x 3/4"	.30	100M	.16	1 3/4
7/8" x 1"	.55	100L	.26	1 3/4
7/8" x 1/2"	.30	100M	.13	1 1/2
1 1/8" x 1"	.55	100L	.25	1 3/4
1 1/8" x 1 1/4"	.76	75L	.38	1 3/4
1 1/8" x 3/4"	.55	100L	.19	1 3/4
1 3/8" x 1 1/4"	.76	75L	.36	1 3/4
1 3/8" x 1 1/2"	1.05	40L	.52	1 1/2
1 3/8" x 1"	.76	75L	.29	1 1/2
1 3/8" x 1 1/2"	1.05	40L	.55	1 1/2
1 5/8" x 2"	1.50	25L	1.14	1 1/2
1 5/8" x 1 1/4"	1.05	40L	.42	1 3/4
2 1/8" x 2"	1.50	25L	.79	1 1/2
2 1/8" x 1 1/2"	1.50	25L	.70	1 1/2

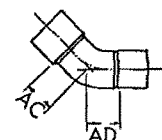
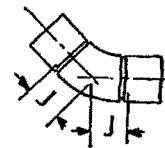


Patent Applied For



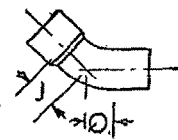
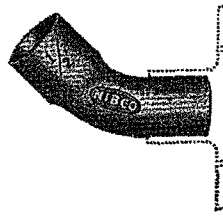
9604-2 — MALE FITTING ADAPTERS
Fitting to N. P. T. E.

Actual O. D. Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. LL
1/4" x 1/8"	.18	500S	.035	3/4
3/8" x 1/4"	.18	500M	.03	1 1/4
1/2" x 3/8"	.18	250M	.055	3/4
1/2" x 1/2"	.20	150M	.10	1 1/4
3/8" x 1/2"	.20	150M	.085	1 1/4
3/8" x 3/4"	.30	100M	.16	1 1/4
3/8" x 3/8"	.20	150M	.09	1 1/4
7/8" x 3/4"	.30	100M	.195	1 1/4
7/8" x 1/2"	.30	100M	.15	1
1 1/8" x 1"	.55	100L	.265	1 3/4
1 3/8" x 1 1/4"	.76	75L	.36	1 1/4
1 3/8" x 1"	.76	75L	.29	1 1/4
1 3/8" x 1 1/2"	1.05	40L	.75	1 3/4
2 1/8" x 2"	1.50	25L	.80	1 1/2



9606 — 45 DEG. ELBOWS
Copper to Copper

Actual O. D. Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. J	Dim. AC	Dim. AD
1/8"	.15	500S	.005	3/8		
1/4"	.15	500S	.01	1/2		
1/8"	.15	500M	.012	1 1/4		
3/8"	.15	500M	.02	1 1/4		
1/2"	.15	250M	.04	1 1/4		
1/2" x 3/8"	.15	250M	.04	1 1/4	1 1/4	1/2
3/8"	.18	150M	.06	1 1/4		
3/8" x 1/2"	.18	150M	.07		3/4	3/4
3/4"	.23	150L	.08	1/2		
7/8"	.30	150L	.14	1 1/4		
7/8" x 3/8"	.30	150L	.16		3/4	1 1/4
1"	.43	75L	.21	1 1/4		
1 1/8"	.55	75L	.23	1 1/4		
1 1/8" x 7/8"	.55	75L	.24		3/4	3/4
1 3/8"	.84	50L	.32	1 1/4		
1 3/8" x 1 1/8"	.84	50L	.30		3/4	1 1/4
1 5/8"	1.15	25L	.46	1 1/4		
2 1/8"	1.65		.77	1 1/4		
2 3/8"	3.05		1.46	1 1/4		
3 1/8"	4.60		2.48	2		
3 3/8"	6.65		3.58	2 3/4		
4 1/8"	8.70		5.20	2 1/4		



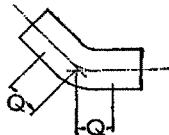
9606-2 — 45 DEG. STREET ELBOWS
Copper to Fitting

Actual O. D. Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. J	Dim. Q
1/4"	.20	500S	.008	3/2	3/2
3/8"	.20	500M	.012	3/2	3/2
1/2"	.20	250M	.04	3/2	3/2
3/8"	.28	150M	.06	1/2	1 1/4
3/4"	.34	150L	.085	1/2	1/2
7/8"	.40	150L	.15	1 1/4	1 1/4
1"	.55	75L	.18	1 1/4	1 1/4
1 1/8"	.70	75L	.22	1 1/4	3/4
1 3/8"	.84	50L	.34	1 1/4	1 1/4
1 5/8"	1.15	25L	.47	1 1/4	1 1/4
2 1/8"	1.65		.78	1 1/4	1 1/4
2 3/8"	3.05		1.44	1 1/4	1 1/4
3 1/8"	4.60		2.43	2	1 1/4

WROT FITTINGS FOR REFRIGERATION

By NIBCO

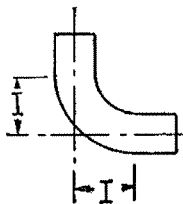
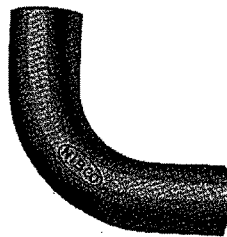
Sizes shown are outside diameter tube sizes except thread sizes which are standard pipe threads.



9606-2-2 — 45 DEG. STREET ELBOWS

Fitting to Fitting

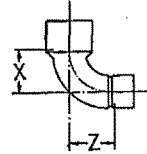
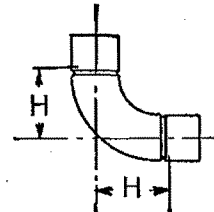
Actual O. D. Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. Q
3/8"	\$.20	500M	.01	1 1/8"
1/2"	.20	250M	.03	1 1/8"
5/8"	.28	150M	.055	2 1/8"
3/4"	.34	150L	.08	1/2"
7/8"	.40	150L	.135	3/4"
1 1/8"	.70	75L	.22	5/8"



9607-2-2 — 90 DEG. STREET ELBOWS

Fitting to Fitting

Actual O. D. Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. I
1/4"	\$.20	500M	.01	3/8"
3/8"	.20	500M	.015	1 1/8"
1/2"	.20	250M	.04	3/4"
5/8"	.28	100M	.075	1
3/4"	.34	100L	.10	1 1/8"
7/8"	.40	100L	.18	1 1/4"
1"	.55	50L	.20	1 1/4"
1 1/8"	.70	50L	.29	1 1/2"
1 3/8"	.84	25L	.43	2 3/8"
1 5/8"	1.15	25L	.65	2 1/2"
2 1/8"	1.65		1.12	2 3/8"
2 5/8"	3.05		2.10	3 1/8"
3 1/8"	4.60		3.45	4 3/8"



9607 — 90 DEG. ELBOWS

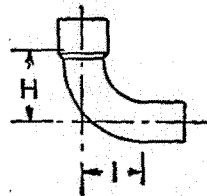
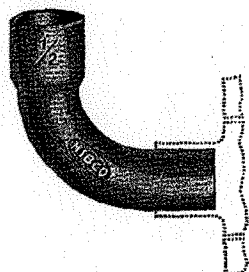
Copper to Copper

Actual O. D. Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H	Dim. X	Dim. Z
1/8"	\$.15	500M	.008	3/8"		
1/4"	.15	500M	.01	1 1/8"		
5/8"	.15	500M	.016	5/8"		
3/8"	.15	500M	.02	1 1/8"		
3/8" x 1/4"	.15	500M	.015		1/2"	1 1/8"
1/2"	.15	250M	.035	1 1/8"		
1/2" x 3/8"	.15	250M	.03		3/8"	1 1/8"
5/8"	.15	100M	.048	1 1/8"		
5/8" x 1/2"	.18	100M	.06		3/4"	1 1/8"
5/8" x 3/8"	.18	100M	.03		1 1/8"	3/4"
3/4"	.23	100L	.11	1 1/8"		
3/4" x 5/8"	.23	100L	.10		3/4"	1
3/4" x 1/2"	.23	100L	.07		1	3/4"
7/8"	.30	100L	.117	1 1/8"		
7/8" x 3/4"	.30	100L	.13		1 1/4"	1
7/8" x 5/8"	.30	100L	.10		1 1/8"	1 1/8"
7/8" x 1/2"	.30	100L	.08		3/4"	3/4"
1"	.43	50L	.28	1 1/8"		
1 1/8"	.55	50L	.205	2 1/8"		
1 1/8" x 7/8"	.55	50L	.235		1 1/8"	1 1/8"
1 1/8" x 3/4"	.55	50L	.145		1 1/8"	1 1/4"
1 1/8" x 5/8"	.55	50L	.12		1 3/8"	1 3/4"
1 3/8"	.84	25L	.47	2 3/8"		
1 3/8" x 1 1/8"	.84	25L	.35		1 3/4"	1 5/8"
1 3/8" x 7/8"	.84	25L	.25		1 1/8"	1 5/8"
1 5/8"	1.15	25L	.67	2 1/2"		
1 5/8" x 1 3/8"	1.15	25L	.49		2 3/8"	2 3/8"
1 5/8" x 1 1/8"	1.15	25L	.424		1 3/8"	1 5/8"
2 1/8"	1.65		1.10	2 3/8"		
2 1/8" x 1 5/8"	1.65		.793		2 5/8"	2 1/2"
2 1/8" x 1 3/8"	1.65		.53		2 1/8"	2 3/8"
2 5/8"	3.05		1.99	3 1/8"		
3 1/8"	4.60		3.62	4 3/8"		
3 5/8"	6.65		5.19	5 1/8"		
4 1/8"	8.70		7.54	6 1/8"		

WROT FITTINGS FOR REFRIGERATION

By NIBCO

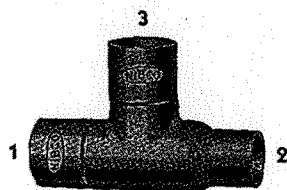
Sizes shown are outside diameter tube sizes except thread sizes which are standard pipe threads.



9607-2 — REDUCING 90 DEG. STREET ELBOWS

Copper to Fitting

Actual O. D. Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. H	Dim. I
1/4" —————	.20	500M	.012	5/8	3/4
3/8" —————	.20	500M	.02	1 1/8	1 1/4
3/8" x 1/2" —————	.28	100M	.03	1 1/8	1
1/2" —————	.20	250M	.05	1 1/8	3/4
1/2" x 3/8" —————	.28	100M	.06	1 1/8	1
3/8" —————	.28	100M	.08	1 1/8	1
3/8" x 1/2" —————	.28	100M	.055	1 1/8	3/4
3/4" —————	.34	100L	.10	1 1/8	1 1/4
7/8" —————	.40	100L	.19	1 1/8	1 1/4
7/8" x 1 1/8" —————	.70	50L	.25	1 1/8	1 3/4
1" —————	.55	50L	.30	1 1/8	1 1/4
1 1/8" —————	.70	50L	.30	1 1/8	1 1/2
1 1/8" x 1 1/4" —————	.70	50L	.21	1 1/8	1 1/4
1 3/8" —————	.84	25L	.45	2 3/8	2 3/8
1 5/8" —————	1.15	25L	.70	2 3/8	2 3/8
2 1/8" —————	1.65		1.10	2 7/8	2 3/4
2 5/8" —————	3.05		2.11	3 1/8	3 3/8
3 1/8" —————	4.60		3.49	4 1/8	4 1/8
4 1/8" —————	8.70		6.37	6 1/8	6 1/8

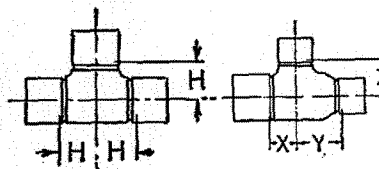
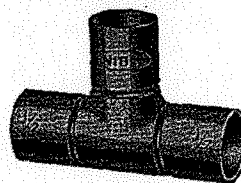


U.S. Patents 2,027,285—2,111,695—2,557,403

9611-HE — HEAT EXCHANGER TEES

Copper to Copper. Tube slips entirely thru fitting on small end of run.

Sizes and Prices same as listed under 9611 where tee has one or more reductions on one end of the run.



U.S. Patents 2,027,285—2,111,695—2,557,403

9611 — TEES

Copper to Copper to Copper

Actual O. D. Size	List Price Each	Bag Qty.	App. Net Wt.	Dim. H	Dim. X	Dim. Y	Dim. Z
1/8" —————	.23	500M	.01	1 1/8			
1/4" —————	.23	500M	.01	1 1/8			
1/4" x 1/4" x 3/8" —————	.23	500M	.02		1/2	1/2	3/8
1/8" —————	.23	500M	.02	1 1/8			
1/8" x 1/8" x 3/8" —————	.23	500M	.02		1 1/8	1 1/8	1 1/8
1/8" x 1/8" x 1/4" —————	.23	500M	.02		1 1/8	1 1/8	1 1/8
1/8" x 1/4" x 1/8" —————	.23	500M	.02		1 1/8	3/4	1 1/8
1/8" x 1/4" x 1/4" —————	.23	500M	.02		1 1/8	3/4	3/4
3/8" —————	.23	500M	.02	1 1/8			
3/8" x 3/8" x 5/8" —————	.27	100M	.09		1 1/8	1 1/8	1 1/8
3/8" x 3/8" x 1/2" —————	.23	200M	.065		1 1/8	1 1/8	1 1/8
3/8" x 3/8" x 3/8" —————	.23	500M	.02		3/4	3/4	1 1/8
3/8" x 3/8" x 1/4" —————	.23	500M	.02		3/4	3/4	1 1/8
3/8" x 1/2" x 3/8" —————	.23	500M	.02		3/4	1 1/8	3/4
3/8" x 1/2" x 1/2" —————	.23	500M	.02		3/4	1 1/8	1 1/8
3/8" x 1/4" x 3/8" —————	.23	500M	.02		3/4	1 1/8	1 1/8
3/8" x 1/4" x 1/4" —————	.23	500M	.025		3/4	1/2	1 1/8
1/2" —————	.23	200M	.065	2 1/8			
1/2" x 1/2" x 5/8" —————	.27	100M	.09		1 1/8	1 1/8	1 1/8
1/2" x 1/2" x 3/8" —————	.23	200M	.06		1 1/8	1 1/8	1 1/8
1/2" x 1/2" x 1/8" —————	.23	200M	.06		1 1/8	1 1/8	1/2
1/2" x 1/2" x 1/4" —————	.23	200M	.06		1 1/8	1 1/8	3/4
1/2" x 3/8" x 1/2" —————	.23	200M	.06		1 1/8	1 1/8	1 1/8
1/2" x 3/8" x 3/8" —————	.23	200M	.06		1 1/8	1 1/8	1 1/8
1/2" x 3/8" x 1/4" —————	.23	200M	.07		1 1/8	1 1/8	1 1/8
1/2" x 1/8" x 1/2" —————	.23	200M	.06		1 1/8	1/2	1 1/8
1/2" x 1/8" x 3/8" —————	.23	200M	.06		1 1/8	1/2	1 1/8
1/2" x 1/8" x 1/8" —————	.23	200M	.06		1 1/8	1/2	1/2
1/2" x 1/8" x 1/4" —————	.23	200M	.06		1 1/8	1/2	1 1/8
1/2" x 1/4" x 1/2" —————	.23	200M	.07		1 1/8	1 1/8	1 1/8
1/2" x 1/4" x 3/8" —————	.23	200M	.065		1 1/8	1 1/8	1 1/8
1/2" x 1/4" x 1/4" —————	.23	200M	.06		1 1/8	1 1/8	1 1/8
3/4" —————	.27	100M	.09	2 1/8			
3/4" x 3/4" x 1 1/8" —————	.76	50L	.35		1 3/8	1 3/8	1 3/8
3/4" x 3/4" x 7/8" —————	.49	100L	.25		1 3/8	1 3/8	1 1/8
3/4" x 3/4" x 3/4" —————	.38	100L	.14		3/4	3/4	1 3/8
3/4" x 3/4" x 1/2" —————	.27	100M	.09		1 3/8	1 3/8	1 3/8
3/4" x 3/4" x 3/8" —————	.27	100M	.085		1 3/8	1 3/8	3/4
3/4" x 1/2" x 3/8" —————	.27	100M	.09		1 3/8	3/4	1 3/8
3/4" x 1/2" x 1/2" —————	.27	100M	.09		1 3/8	1 3/8	1 3/8
3/4" x 1/2" x 3/4" —————	.27	100M	.095		1 3/8	1 1/8	3/4
3/4" x 3/8" x 3/8" —————	.27	100M	.10		1 3/8	1 1/8	1/2
3/4" x 3/8" x 1/2" —————	.27	100M	.10		1 3/8	1 1/8	1 1/8
3/4" x 3/8" x 3/8" —————	.27	100M	.09		1 3/8	1 1/8	3/4

WROT FITTINGS FOR REFRIGERATION

By NIBCO

Sizes shown are outside diameter tube sizes except thread sizes which are standard pipe threads.

9611 — TEES

(Continued)

Actual O. D. Size	List Price Each	Bag Qty.	App. Net Wt.	Dim. H	Dim. X	Dim. Y	Dim. Z
3/4" —————	.38	100L	.13	%			
3/4" x 3/4" x 3/8" —	.49	100L	.26		1 1/8	1 1/8	%
3/4" x 3/4" x 5/8" —	.38	100L	.14		1 1/8	1 1/8	3/8
3/4" x 3/4" x 1/2" —	.38	100L	.135		1 1/8	1 1/8	%
3/4" x 3/4" x 3/8" —	.38	100L	.135		1 1/8	1 1/8	1
3/4" x 3/8" x 3/4" —	.38	100L	.135		%	%	1 1/8
3/4" x 5/8" x 5/8" —	.38	100L	.135		1 1/8	%	1 1/8
3/4" x 5/8" x 1/2" —	.38	100L	.14		%	%	1 1/8
3/4" x 1/2" x 3/4" —	.38	100L	.135		%	%	1 1/8
3/4" x 1/2" x 5/8" —	.38	100L	.13		1 1/8	1 1/8	1 1/8
3/4" x 1/2" x 1/2" —	.38	100L	.135		1 1/8	1	%
7/8" —————	.49	100L	.25	3/8			
7/8" x 7/8" x 1 1/8" —	.76	50L	.375		1	1	3/8
7/8" x 7/8" x 3/4" —	.49	100L	.24		%	%	%
7/8" x 7/8" x 5/8" —	.49	100L	.215		1 1/8	1 1/8	3/8
7/8" x 7/8" x 1/2" —	.49	100L	.24		1 1/8	1 1/8	3/8
7/8" x 7/8" x 3/8" —	.49	100L	.23		1 1/8	1 1/8	%
7/8" x 3/4" x 7/8" —	.49	100L	.24		%	1 1/8	3/8
7/8" x 3/4" x 3/4" —	.49	100L	.26		%	1 1/8	%
7/8" x 5/8" x 7/8" —	.49	100L	.24		3/8	1	3/8
7/8" x 5/8" x 3/4" —	.49	100L	.25		%	1	1 1/8
7/8" x 5/8" x 5/8" —	.49	100L	.22		3/8	3/8	3/8
7/8" x 5/8" x 1/2" —	.49	100L	.22		1 1/8	1 1/8	3/8
7/8" x 1/2" x 7/8" —	.49	100L	.25		1 1/8	1 1/8	%
7/8" x 1/2" x 5/8" —	.49	100L	.24		1/2	1 1/8	1 1/8
7/8" x 1/2" x 1/2" —	.49	100L	.235		1 1/8	1 1/8	%
1" —————	.63	50L	.31	3/8			
1 1/8" —————	.76	50L	.38	3/8			
1 1/8" x 1 1/8" x 1 1/8" —	1.65	20L	.80		1 1/8	1 1/8	1 1/8
1 1/8" x 1 1/8" x 1 3/8" —	1.15	25L	.53		1 1/8	1 3/8	1 3/8
1 1/8" x 1 1/8" x 7/8" —	.76	50L	.365		%	%	3/8
1 1/8" x 1 1/8" x 3/4" —	.76	50L	.36		%	%	1
1 1/8" x 1 1/8" x 5/8" —	.76	50L	.335		3/8	3/8	3/8
1 1/8" x 1 1/8" x 1/2" —	.76	50L	.325		3/8	3/8	1 1/8
1 1/8" x 7/8" x 1 1/8" —	.76	50L	.38		3/8	1 1/8	3/8
1 1/8" x 7/8" x 7/8" —	.76	50L	.37		%	1 1/8	3/8
1 1/8" x 7/8" x 3/4" —	.76	50L	.38		%	1 1/8	1
1 1/8" x 7/8" x 5/8" —	.76	50L	.32		3/8	1 1/8	3/8
1 1/8" x 7/8" x 1/2" —	.76	50L	.335		%	1	1 1/8
1 1/8" x 3/4" x 1 1/8" —	.76	50L	.41		1 1/8	1 1/8	1 1/8
1 1/8" x 3/4" x 7/8" —	.76	50L	.34		%	1 1/8	1 1/8
1 1/8" x 3/4" x 3/4" —	.76	50L	.365		%	1 1/8	3/8
1 1/8" x 3/4" x 5/8" —	.76	50L	.34		%	1 1/8	3/8
1 1/8" x 5/8" x 1 1/8" —	.76	50L	.37		3/8	1 1/8	3/8
1 1/8" x 5/8" x 7/8" —	.76	50L	.32		%	1 1/8	3/8
1 1/8" x 5/8" x 5/8" —	.76	50L	.32		3/8	1 1/8	3/8

9611 — TEES

(Continued)

Actual O. D. Size	List Price Each	Bag Qty.	App. Net Wt.	Dim. H	Dim. X	Dim. Y	Dim. Z
1 3/8" —————	\$1.15	25L	.54	1 3/8			
1 3/8" x 1 3/8" x 2 1/8" —	2.30		1.48		1 1/8	1 1/8	1 1/2
1 3/8" x 1 3/8" x 1 3/8" —	1.65	20L	.81		1 1/8	1 1/8	1 1/4
1 3/8" x 1 3/8" x 1 1/8" —	1.15	25L	.55		3/8	3/8	1 1/8
1 3/8" x 1 3/8" x 7/8" —	1.15	25L	.53		%	%	1 1/8
1 3/8" x 1 3/8" x 5/8" —	1.15	25L	.53		%	%	1 1/8
1 3/8" x 1 1/8" x 1 3/8" —	1.15	25L	.55		3/8	1 1/8	3/8
1 3/8" x 1 1/8" x 1 1/8" —	1.15	25L	.53		3/8	1 1/8	1 1/8
1 3/8" x 1 1/8" x 7/8" —	1.15	25L	.53		%	1 1/8	1 1/8
1 3/8" x 1 1/8" x 5/8" —	1.15	25L	.53		%	1	1 1/8
1 3/8" x 7/8" x 1 3/8" —	1.15	25L	.53		1 3/8	1 1/2	1 3/8
1 3/8" x 7/8" x 1 1/8" —	1.15	25L	.53		3/8	1 1/8	1 1/8
1 3/8" x 7/8" x 7/8" —	1.15	25L	.53		%	1 1/8	1 1/8
1 5/8" —————	1.65	20L	.82	1 5/8			
1 5/8" x 1 5/8" x 2 1/8" —	2.30		1.37		1 1/4	1 1/4	1 1/8
1 5/8" x 1 5/8" x 1 3/8" —	1.65	20L	.79		1 1/8	1 3/8	1 1/8
1 5/8" x 1 5/8" x 1 1/8" —	1.65	20L	.75		1 1/8	1 1/8	1 1/8
1 5/8" x 1 5/8" x 7/8" —	1.65	20L	.72		1 1/8	1 1/8	1 1/8
1 5/8" x 1 5/8" x 5/8" —	1.65	20L	.72		1 1/8	1 1/8	1 1/8
1 5/8" x 1 3/8" x 1 3/8" —	1.65	20L	.83		1 1/8	1 1/8	1 3/8
1 5/8" x 1 3/8" x 1 1/8" —	1.65	20L	.75		1 1/8	1 1/8	1 1/8
1 5/8" x 1 3/8" x 7/8" —	1.65	20L	.69		1 1/8	1 1/8	1 1/8
1 5/8" x 1 3/8" x 5/8" —	1.65	20L	.68		1 1/8	1 1/8	1 1/8
1 5/8" x 1 3/8" x 3/8" —	1.65	20L	.76		1 1/8	1 1/8	1 3/8
1 5/8" x 1 1/8" x 1 3/8" —	1.65	20L	.81		1 1/8	1 1/8	1 3/8
1 5/8" x 1 1/8" x 1 1/8" —	1.65	20L	.77		1 1/4	1 1/2	1 1/4
1 5/8" x 1 1/8" x 7/8" —	1.65	20L	.68		1 1/8	1 1/8	1 1/8
1 5/8" x 1 1/8" x 5/8" —	1.65	20L	.76		1	1 1/8	1 1/8
1 5/8" x 7/8" x 1 5/8" —	1.65	20L	.80		1 1/8	1 1/8	1 1/4
1 5/8" x 7/8" x 7/8" —	1.65	20L	.76		1	1 1/8	1 1/8
2 1/8" —————	2.30		1.43	1 1/8			
2 1/8" x 2 1/8" x 1 5/8" —	2.30		1.23		1 1/8	1 1/8	1 1/8
2 1/8" x 2 1/8" x 1 3/8" —	2.30		1.23		1 1/8	1 1/8	1 1/8
2 1/8" x 2 1/8" x 1 1/8" —	2.30		1.23		1 1/8	1 1/8	1 1/8
2 1/8" x 2 1/8" x 7/8" —	2.30		1.19		3/8	3/8	1 1/8
2 1/8" x 2 1/8" x 5/8" —	2.30		1.02		1/8	1/8	1 1/8
2 1/8" x 1 5/8" x 2 1/8" —	2.30		1.23		1 1/8	1 1/8	1 1/8
2 1/8" x 1 5/8" x 1 3/8" —	2.30		1.22		1 1/8	1 1/8	1 1/8
2 1/8" x 1 5/8" x 1 1/8" —	2.30		1.23		1 1/8	1 1/8	1 1/8
2 1/8" x 1 5/8" x 7/8" —	2.30		1.21		1 1/8	1 1/8	1 1/8
2 1/8" x 1 5/8" x 5/8" —	2.30		1.20		1 1/8	1 1/8	1 1/8
2 1/8" x 1 3/8" x 2 1/8" —	2.30		1.45		1 1/8	1 1/8	1 1/8
2 1/8" x 1 3/8" x 1 5/8" —	2.30		1.17		1 1/8	1 1/8	1 1/8
2 1/8" x 1 3/8" x 1 3/8" —	2.30		1.22		1 1/8	1 1/8	1 1/8
2 1/8" x 1 3/8" x 1 1/8" —	2.30		1.28		1 1/4	1 1/4	1 1/4
2 5/8" —————	4.85		2.20	1 3/8			
3 1/8" —————	6.90		3.34	2 1/8			
3 5/8" —————	8.00		5.34	2 3/8			
4 1/8" —————	10.65		7.79	2 3/8			

WROT FITTINGS FOR REFRIGERATION

By NIBCO

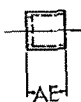
Sizes shown are outside diameter tube sizes except thread sizes which are standard pipe threads.


9616 — FITTING END PLUGS

Actual O. D. Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. E
1/2"	\$.09	1000M	.01	3/16"
5/8"	.12	500M	.02	1/4"
7/8"	.18	250M	.055	5/16"
1 1/8"	.24	150M	.09	1 3/8"

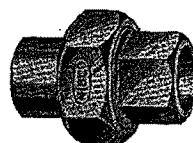

9617 — TUBE CAPS

Actual O. D. Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. E
1/4"	\$.08	500S	.0025	3/16"
3/8"	.09	500S	.005	1/4"
1/2"	.09	1000M	.012	5/16"
5/8"	.12	500M	.02	3/4"
3/4"	.15	250M	.035	1 1/8"
7/8"	.18	250M	.055	1 1/4"
1 1/8"	.24	150M	.09	1 1/2"
1 3/8"	.30	100L	.12	1 3/4"
1 5/8"	.38	100L	.18	1 7/8"
2 1/8"	.68	50L	.32	2 1/4"
2 3/8"	1.00		.44	2 1/2"
3 1/8"	1.65		.70	2 3/4"
3 5/8"	2.35		.96	3 1/4"
4 1/8"	2.95		1.36	3 1/2"

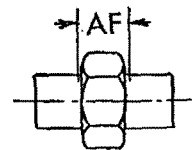

9618 — FLUSH BUSHINGS

Fitting to Copper

Actual O. D. Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. AE
3/8" x 1/4"	\$.09	500S	.01	3/8"
1/2" x 3/8"	.09	1000M	.015	1/2"
5/8" x 1/2"	.12	500M	.02	5/8"
3/4" x 5/8"	.15	250M	.03	3/4"
7/8" x 5/8"	.18	250M	.08	7/8"
1 1/8" x 7/8"	.24	150M	.14	1 1/8"
1 3/8" x 1 1/8"	.30	100L	.18	1 3/8"
1 5/8" x 1 3/8"	.38	100L	.24	1 5/8"

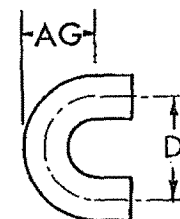
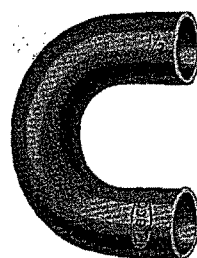


Patent Applied For


9633 — UNIONS

Copper to Copper

Actual O. D. Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. AF
1/4"	\$.76	100S	.109	5/8"
3/8"	.76	100S	.240	5/8"
1/2"	.76	150M	.125	1 1/8"
5/8"	.91	75M	.215	1 1/8"
3/4"	1.15	35M	.64	7/8"
7/8"	1.30	35M	.36	1 1/8"
1 1/8"	1.65	50L	.82	1 1/2"
1 3/8"	2.30	25L	1.32	1 3/4"
1 5/8"	3.35	25L	1.70	2 1/8"
2 1/8"	4.20		2.79	1 1/2"


9638 — RETURN BENDS

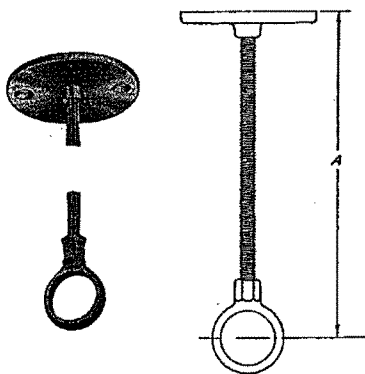
Actual O. D. Size	List Price Each	Bag Qty.	Approx. Net Wt.	Dim. D	Dim. AG
1/4"	\$.24	200S	.015	1	1 1/4"
3/8"	.24	100S	.03	1 1/4	1 3/4"
1/2"	.30	100M	.08	1 1/2	1 7/8"
5/8"	.38	100L	.13	2	2 1/8"
3/4"	.50	50L	.18	2 1/4	2 3/8"
7/8"	.53	50L	.26	2 1/2	2 3/4"
7/8"	.53	50L	.31	3 3/8	2 3/4"
1 1/8"	.76	25L	.48	3	2 3/4"
1 3/8"	1.20		.72	4	2 3/4"
1 5/8"	1.65		1.06	4 1/2	3 3/4"
2 1/8"	2.65		1.89	5 1/2	3 3/4"

ACCESSORIES

By NIBCO

Sizes shown are outside diameter tube sizes except thread sizes which are standard pipe threads.

All Hangers and Hanger Parts are Brass or Bronze except Fig. 9794.



9790—SOLID RING HANGERS

Fixed Shank

Complete with Round Ceiling Plate No. 9782, 6" Rod No. 9788, and Hanger Ring No. 9796.

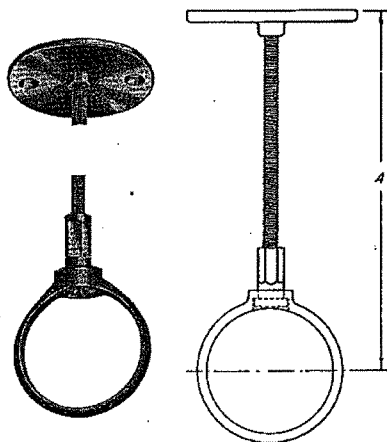
Actual O.D. Size	Tapping	A Dimension Min.	A Dimension Max.	List Price Each
1/2"	1/4"-20	1 5/16"	6 1/2"	\$.71
3/8"	1/4"-20	1 1/8"	6 3/4"	.71
7/8"	1/4"-20	1 11/16"	6 7/8"	.76
1 1/8"	1/4"-20	1 13/16"	7 1/4"	.78
1 3/8"	1/4"-20	2 1/8"	7 1/2"	.93
1 5/8"	1/4"-20	2 3/8"	7 3/4"	1.01
2 1/8"	1/4"-20	2 3/4"	8"	1.08

9790-A—SOLID RING HANGERS

Fixed Shank

Complete with Round Ceiling Plate No. 9782, 12" Rod No. 9789, and Hanger Ring No. 9796.

Actual O.D. Size	Tapping	A Dimension Min.	A Dimension Max.	List Price Each
1/2"	1/4"-20	6 3/8"	12 1/2"	\$.85
3/8"	1/4"-20	6 3/4"	12 5/8"	.85
7/8"	1/4"-20	7"	12 7/8"	.90
1 1/8"	1/4"-20	7 1/4"	13 3/8"	.92
1 3/8"	1/4"-20	7 5/8"	13 1/2"	1.07
1 5/8"	1/4"-20	7 7/8"	13 3/4"	1.15
2 1/8"	1/4"-20	8 1/8"	14"	1.22



9791—SOLID RING HANGERS

Swivel Shank

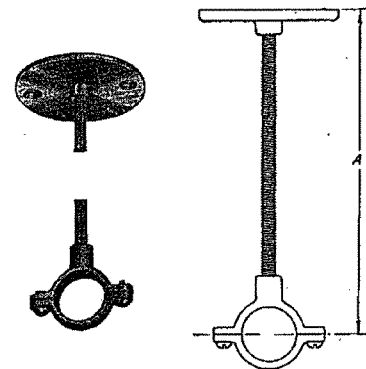
Complete with Round Ceiling Plate No. 9782, 6" Rod No. 9788, and Hanger Ring No. 9797.

Actual O.D. Size	Tapping	A Dimension Min.	A Dimension Max.	List Price Each
2 3/8"	3/8"-16	4 1/4"	9 1/8"	\$1.87
3 1/8"	3/8"-16	4 3/8"	9 3/4"	2.33
3 3/8"	3/8"-16	4 5/8"	9 7/8"	2.53
4 1/8"	3/8"-16	4 7/8"	9 3/4"	2.88
5 1/8"	3/8"-16	5 3/8"	10 7/8"	3.63
6 1/8"	1/2"-13	6 3/8"	11 7/8"	5.88
8 1/8"	1/2"-13	8 3/8"	13 3/8"	8.08

9791-A—SOLID RING HANGERS

Complete with Round Ceiling Plate No. 9782, 12" Rod No. 9789, and Hanger Ring No. 9797.

Actual O.D. Size	Tapping	A Dimension Min.	A Dimension Max.	List Price Each
2 3/8"	3/8"-16	9 1/4"	15 1/8"	\$2.35
3 1/8"	3/8"-16	9 1/2"	15 3/8"	2.81
3 3/8"	3/8"-16	9 3/4"	15 5/8"	3.01
4 1/8"	3/8"-16	10"	15 7/8"	3.36
5 1/8"	3/8"-16	11"	16 7/8"	4.11
6 1/8"	1/2"-13	12"	17 7/8"	6.60
8 1/8"	1/2"-13	13 1/8"	19 3/8"	8.80



9792—SPLIT RING HANGERS

Complete with Round Ceiling Plate No. 9782, 6" Rod No. 9788, and Hanger Ring No. 9798.

Actual O.D. Size	Tapping	A Dimension Min.	A Dimension Max.	List Price Each
1/2"	1/4"-20	1 3/8"	6 1/8"	\$.83
3/8"	1/4"-20	1 1/4"	6 1/2"	.83
3/4"	1/4"-20	1 5/8"	6 3/8"	.85
7/8"	1/4"-20	1 3/4"	6 5/8"	.87
1 1/8"	1/4"-20	1 7/8"	6 3/4"	.88
1 3/8"	1/4"-20	1 3/4"	6 7/8"	1.04
1 5/8"	1/4"-20	1 3/4"	7 1/8"	1.13
2 1/8"	1/4"-20	2 1/8"	7 1/8"	1.23
2 3/8"	3/8"-16	2 1/2"	7 3/8"	1.87
3 1/8"	3/8"-16	2 3/4"	7 1/2"	2.33
3 3/8"	3/8"-16	3 1/8"	8 1/8"	2.53
4 1/8"	3/8"-16	3 1/4"	8 1/8"	2.88
5 1/8"	3/8"-16	3 3/4"	8 3/4"	3.63
6 1/8"	1/2"-13	4 1/8"	9 1/8"	5.88
8 1/8"	1/2"-13	5 1/8"	10 1/4"	8.08

9792-A—SPLIT RING HANGERS

Complete with Round Ceiling Plate No. 9782, 12" Rod No. 9789, and Hanger Ring No. 9798.

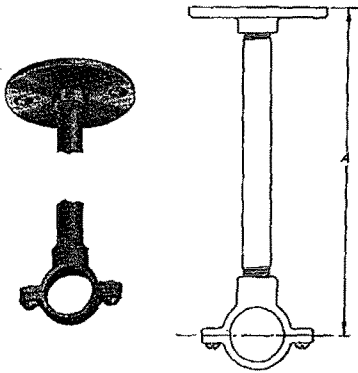
Actual O.D. Size	Tapping	A Dimension Min.	A Dimension Max.	List Price Each
1/2"	1/4"-20	6 1/8"	12 1/8"	\$.97
3/8"	1/4"-20	6 3/8"	12 1/2"	.97
3/4"	1/4"-20	6 1/4"	12 3/8"	.99
7/8"	1/4"-20	6 3/4"	12 5/8"	1.01
1 1/8"	1/4"-20	6 7/8"	12 3/4"	1.02
1 3/8"	1/4"-20	7"	12 7/8"	1.18
1 5/8"	1/4"-20	7 1/8"	13 1/8"	1.27
2 1/8"	1/4"-20	7 1/4"	13 1/4"	1.37
2 3/8"	3/8"-16	7 1/8"	13 1/8"	2.35
3 1/8"	3/8"-16	7 1/4"	13 1/4"	2.81
3 3/8"	3/8"-16	8 1/8"	14 1/8"	3.01
4 1/8"	3/8"-16	8 1/4"	14 1/4"	3.36
5 1/8"	3/8"-16	8 3/4"	14 3/4"	4.11
6 1/8"	1/2"-13	9 1/8"	15 1/8"	6.60
8 1/8"	1/2"-13	10 1/8"	16 1/4"	8.80

ACCESSORIES

By NIBCO

Sizes shown are outside diameter tube sizes except thread sizes which are standard pipe threads.

All Hangers and Hanger Parts are Brass or Bronze except Fig. 9794.



9793 — SPLIT RING HANGERS

Complete with Round Ceiling Plate No. 9783, Iron Pipe Nipple No. 9794, and Hanger Ring No. 9799.

Actual O.D. Size	Tapping	A Dimension	List Price Each
3/8"	1/4" N.P.T.I.	4 1/2"	.83
3/4"	1/4" N.P.T.I.	4 1/2"	.83
7/8"	1/4" N.P.T.I.	4 1/2"	.86
1 1/8"	1/4" N.P.T.I.	4 1/2"	.89
1 3/8"	1/4" N.P.T.I.	4 7/8"	1.07
1 5/8"	1/4" N.P.T.I.	5"	1.15
2 1/8"	1/4" N.P.T.I.	5 1/4"	1.27
2 3/8"	3/8" N.P.T.I.	6 1/2"	1.63
3 1/8"	1/2" N.P.T.I.	6 3/4"	2.14
3 3/8"	1/2" N.P.T.I.	7"	2.39
4 1/8"	1/2" N.P.T.I.	7 1/4"	2.74
5 1/8"	1/2" N.P.T.I.	7 3/4"	3.54
6 1/8"	3/4" N.P.T.I.	8 3/8"	5.75
8 1/8"	3/4" N.P.T.I.	9 3/8"	8.20

9793-A — SPLIT RING HANGERS

Complete with Round Ceiling Plate No. 9783, Red Brass Pipe Nipple No. 9795, and Hanger Ring No. 9799.

Actual O.D. Size	Tapping	A Dimension	List Price Each
3/8"	1/4" N.P.T.I.	4 1/2"	.97
3/4"	1/4" N.P.T.I.	4 1/2"	.97
7/8"	1/4" N.P.T.I.	4 1/2"	1.00
1 1/8"	1/4" N.P.T.I.	4 3/8"	1.03
1 3/8"	1/4" N.P.T.I.	4 7/8"	1.21
1 5/8"	1/4" N.P.T.I.	5"	1.29
2 1/8"	1/4" N.P.T.I.	5 1/4"	1.41
2 3/8"	3/8" N.P.T.I.	6 1/2"	1.86
3 1/8"	1/2" N.P.T.I.	6 3/4"	2.45
3 3/8"	1/2" N.P.T.I.	7"	2.70
4 1/8"	1/2" N.P.T.I.	7 1/4"	3.05
5 1/8"	1/2" N.P.T.I.	7 3/4"	3.85
6 1/8"	3/4" N.P.T.I.	8 3/8"	6.17
8 1/8"	3/4" N.P.T.I.	9 3/8"	8.62



9782 — ROUND CEILING PLATES

Tapped for Solid Brass Rod.

For Use with Hangers 9790, 9790-A, 9791, 9791-A, 9792, 9792-A.

Actual O.D. Size	Tapping	List Price Each
1/2" to 2 1/8" Inc.	1/4" — 20	.34
2 3/8"	3/8" — 16	.54
3 1/8" to 5 1/8" Inc.	3/8" — 16	.85
6 1/8" and 8 1/8"	1/2" — 13	1.36



9783 — ROUND CEILING PLATES

Tapped for Standard Pipe Size Nipple.

For Use with Hangers 9793, 9793-A.

Actual O.D. Size	Tapping	List Price Each
3/8" to 2 1/8" Inc.	1/4" N.P.T.I.	.38
2 3/8"	3/8" N.P.T.I.	.60
3 1/8" to 5 1/8" Inc.	1/2" N.P.T.I.	.95
6 1/8" and 8 1/8"	3/4" N.P.T.I.	1.50



9786 — OBLONG CEILING PLATES

Tapped for Solid Brass Rod.

For Use with Hangers 9790, 9790-A, 9791, 9791-A, 9792, 9792-A.

Actual O.D. Size	Tapping	List Price Each
1/2" to 2 1/8" Inc.	1/4" — 20	.19
2 3/8"	3/8" — 16	.29
3 1/8" to 5 1/8" Inc.	3/8" — 16	.47
6 1/8" and 8 1/8"	1/2" — 13	.72



9787 — OBLONG CEILING PLATES

Tapped for Standard Pipe Size Nipple.

For Use with Hangers 9793, 9793-A.

Actual O.D. Size	Tapping	List Price Each
3/8" to 2 1/8" Inc.	1/4" N.P.T.I.	.21
2 3/8"	3/8" N.P.T.I.	.32
3 1/8" to 5 1/8" Inc.	1/2" N.P.T.I.	.52
6 1/8" and 8 1/8"	3/4" N.P.T.I.	.80



9796 — SOLID SHANK HANGER RINGS

For Use with Hangers 9790, 9790-A.

Actual O.D. Size	Tapping	List Price Each
1/2"	1/4" — 20	.23
5/8"	1/4" — 20	.23
3/4"	1/4" — 20	.28
1 1/8"	1/4" — 20	.30
1 3/8"	1/4" — 20	.45
1 5/8"	1/4" — 20	.53
2 1/8"	1/4" — 20	.60



9797 — SWIVEL SHANK HANGER RINGS

For Use with Hangers 9791, 9791-A.

Actual O.D. Size	Tapping	List Price Each
2 3/8"	3/8" — 16	.85
3 1/8"	3/8" — 16	1.00
3 3/8"	3/8" — 16	1.20
4 1/8"	3/8" — 16	1.55
5 1/8"	3/8" — 16	2.30
6 1/8"	1/2" — 13	3.80
8 1/8"	1/2" — 13	6.00



9794 — IRON PIPE NIPPLE

For Use with Hanger 9793.

Nipples for 3/8" to 2 1/8" Hangers inclusive, 4" long. Nipples for 2 3/8" to 8 1/8" Hangers inclusive, 5" long

Actual O.D. Size	Thread Size	List Price Each
3/8" to 2 1/8" Inc.	1/4" N.P.T.I.	.07
2 3/8"	3/8" N.P.T.I.	.08
3 1/8" to 5 1/8" Inc.	1/2" N.P.T.I.	.09
6 1/8" and 8 1/8"	3/4" N.P.T.I.	.10

9795 — RED BRASS PIPE NIPPLE

For Use with Hanger 9793-A.

Nipples for 3/8" to 2 1/8" Hangers inclusive, 4" long. Nipples for 2 3/8" to 8 1/8" Hangers inclusive, 5" long

Actual O.D. Size	Thread Size	List Price Each
3/8" to 2 1/8" Inc.	1/4" N.P.T.I.	.21
2 3/8"	3/8" N.P.T.I.	.31
3 1/8" to 5 1/8" Inc.	1/2" N.P.T.I.	.40
6 1/8" and 8 1/8"	3/4" N.P.T.I.	.52

ACCESSORIES

By NIBCO

Sizes shown are outside diameter tube sizes except thread sizes which are standard pipe threads.

All Hangers and Hanger Parts are Brass or Bronze except Fig. 9794.



9798 — SPLIT HANGER RINGS

For Use with Hangers 9792, 9792-A.

Actual O.D. Size	Tapping	List Price Each
1/2"	1/4"-20	.35
3/8"	1/4"-20	.35
3/4"	1/4"-20	.37
7/8"	1/4"-20	.39
1 1/8"	1/4"-20	.40
1 3/8"	1/4"-20	.56
1 5/8"	1/4"-20	.65
2 1/8"	1/4"-20	.75
2 3/8"	3/8"-16	.85
3 1/8"	3/8"-16	1.00
3 3/8"	3/8"-16	1.20
4 1/8"	3/8"-16	1.55
5 1/8"	3/8"-16	2.30
6 1/8"	1/2"-13	3.80
8 1/8"	1/2"-13	6.00



9799 — SPLIT HANGER RINGS

For Use with Hangers 9793, 9793-A.

Actual O.D. Size	Tapping	List Price Each
5/8"	1/4" N.P.T.I.	.38
3/4"	1/4" N.P.T.I.	.38
7/8"	1/4" N.P.T.I.	.41
1 1/8"	1/4" N.P.T.I.	.44
1 3/8"	1/4" N.P.T.I.	.62
1 5/8"	1/4" N.P.T.I.	.70
2 1/8"	1/4" N.P.T.I.	.82
2 3/8"	3/8" N.P.T.I.	.95
3 1/8"	1/2" N.P.T.I.	1.10
3 3/8"	1/2" N.P.T.I.	1.35
4 1/8"	1/2" N.P.T.I.	1.70
5 1/8"	1/2" N.P.T.I.	2.50
6 1/8"	3/4" N.P.T.I.	4.15
8 1/8"	3/4" N.P.T.I.	6.60

9788 — 6" SOLID BRASS RODS

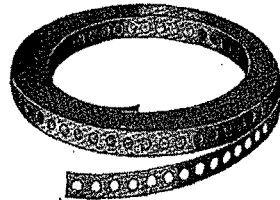
For Use with Hangers 9790, 9791, 9792.

Actual O.D. Size	Thread Size	List Price Each
1/2" to 2 1/8" Inc.	1/4"-20	.14
2 3/8" to 5 1/8" Inc.	3/8"-16	.48
6 1/8" and 8 1/8"	1/2"-13	.72

9789 — 12" SOLID BRASS RODS

For Use with Hangers 9790-A, 9791-A, 9792-A.

Actual O.D. Size	Thread Size	List Price Each
1/2" to 2 1/8" Inc.	1/4"-20	.28
2 3/8" to 5 1/8" Inc.	3/8"-16	.96
6 1/8" and 8 1/8"	1/2"-13	1.44



9623 — COPPER HANGER STRAP

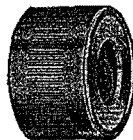
3/4" Wide

Size	List Price Each
25 ft. Roll	\$2.25
50 ft. Roll	4.50



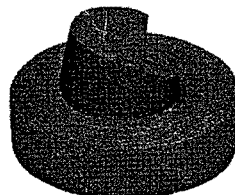
9624 — TUBE STRAPS

Actual O.D. Size	List Price Per M
1/4"	\$30.10
3/8"	33.40
1/2"	42.60
5/8"	47.10
3/4"	56.20
7/8"	65.40
1 1/8"	77.50
1 3/8"	120.10
1 5/8"	139.80
2 1/8"	176.30
3 1/8"	410.40



9757 — TUBE END CLEANING BRUSHES

Actual O.D. Size	List Price Each
1/2"	\$.80
5/8"	1.00
7/8"	1.15
1 1/8"	1.30



9765 — SAND CLOTH

Individually Packaged
1 1/2" Wide

Size	List Price Each
10-Yard Roll	\$1.90
25-Yard Roll	3.80
50-Yard Roll	6.85



9755 — FITTING CLEANING BRUSHES

Actual O.D. Size	List Price Each
1/4"	\$.60
3/8"	.60
1/2"	.60
5/8"	.60
3/4"	.65
7/8"	.65
1 1/8"	.75
1 3/8"	.80
1 5/8"	.90
2 1/8"	1.00



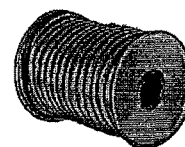
9766 — NIBCO SOLDERING PASTE

Size	List Price Each
2 oz. Can	.23
1 lb. Can	1.50



9767 — JOHNSON'S LIQUID SOLDERING FLUID

Size	List Price Each
3 oz. Can	\$.30
1 qt. Can	2.35



NIBCO 50-50 SOLDER

1 Lb. Spool } Subject to
5 Lb. Spool } Market Only

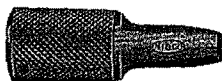
NIBCO 95-5 SOLDER

1 Lb. Spool } Subject to
5 Lb. Spool } Market Only

ACCESSORIES

By NIBCO

Sizes shown are outside diameter tube sizes except thread sizes which are standard pipe threads.


9518 — FLANGING TOOLS

For All Types of Tube

Actual O.D. Size	List Price Each
1/4"	\$.45
3/8"	.45
1/2"	.55
5/8"	.65
3/4"	.75
7/8"	.80
1 1/8"	1.30
1 3/8"	3.60
1 5/8"	5.00
2 1/8"	6.40
2 5/8"	13.10
3 1/8"	18.40

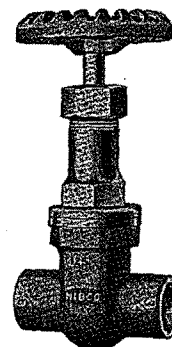

SIZING TOOLS

9719-K — For Type K Tube

9719-L — For Type L Tube

Orders should specify type of tube on which tool will be used.

Actual O.D. Size	List Price Each
1/4"	\$ 1.00
3/8"	1.00
1/2"	1.00
5/8"	1.20
3/4"	1.35
7/8"	1.75
1 1/8"	3.00
1 3/8"	6.50
1 5/8"	10.40
2 1/8"	15.15


9729 — GATE VALVE

Copper to Copper

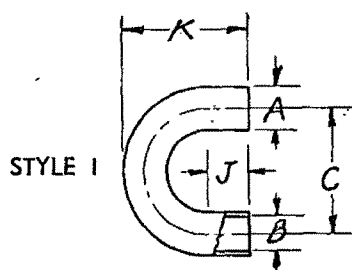
 125# S.W.P. — Steam Bronze
For Water Service

Actual O.D. Size	List Price Each
1/2"	\$ 2.80
5/8"	3.05
7/8"	4.00
1 1/8"	5.75
1 3/8"	8.15
1 5/8"	10.40
2 1/8"	14.70
2 5/8"	27.60
3 1/8"	41.00

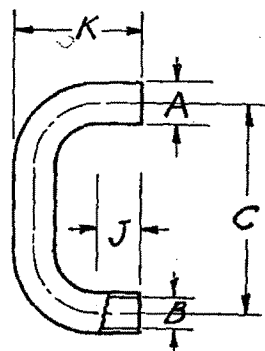
INDUSTRIAL RETURN BENDS

By NIBCO

All Dimensions Shown Are Inches.



STYLE 1



STYLE 2

Here are some examples of return bends made to specifications for which we have tools for manufacturing. For simplicity, we have shown only two styles, No. 1 and No. 2 . . . many items of each style have been furnished with ends cupped to slip same or larger O.D. tube size, or with ends swedged down to smaller A and B dimensions. It will be noted that these sizes do not correspond to

nominal sizes, but are used in refrigeration, air conditioning and industrial applications. Contact factory for prices in quantities desired. We have excellent facilities for producing other bends to specifications not listed. Forward sample or blueprint (or both) along with quantities required. Regular return bends are listed on page 96.

Wall	A	B	C	J	K	Style
.035"	.312"	.242"	1"	3/8"	1 3/32"	1
.028"	.312"	.256"	2 1/2"	1/4"	1 3/32"	1
.032"	.316"	.252"	1"	1/4"	1 3/32"	1
.035"	.375"	.305"	7/8"	1/2"	3/8"	1
.032"	.378"	.314"	1 1/8"	3/8"	1 1/8"	1

INDUSTRIAL RETURN BENDS

By NIBCO

All Dimensions Shown Are Inches.

Wall	A	B	C	J	K	Style
.032"	.440"	.377"	1¼"	⅝"	1⅝"	1
.035"	.500"	.430"	1⅜"	¾"	1⅞"	1
.035"	.500"	.430"	1¾"	¾"	1⅞"	1
.049"	.500"	.402"	1½"	½"	1½"	1
.035"	.500"	.430"	1⅜"	¾"	1⅞"	1
.035"	.500"	.430"	2½"	⅞"	1¼"	2
.035"	.500"	.430"	2.725"	¾"	1⅞"	2
.035"	.500"	.430"	3¾"	½"	1¾"	2
.035"	.553"	.485"	1¼"	½"	1⅜"	1
.028"	.562"	.506"	1½"	½"	1⅜"	1
.035"	.562"	.492"	1½"	½"	1⅜"	1
.049"	.601"	.502"	1½"	⅞"	1⅜"	1
.049"	.601"	.502"	2"	⅞"	1⅜"	1
.049"	.601"	.502"	3"	⅞"	2⅜"	1
.049"	.625"	.527"	2"	⅞"	1⅜"	1
.035"	.625"	.555"	1⅜"	⅞"	1⅜"	1
.035"	.625"	.555"	1⅜"	½"	1⅜"	1
.035"	.625"	.555"	1¼"	½"	1⅜"	1
.035"	.625"	.555"	1¾"	⅞"	1⅜"	1
.035"	.625"	.555"	1½"	⅞"	1⅜"	1
.035"	.625"	.555"	1⅜"	⅞"	1⅜"	1
.035"	.625"	.555"	1¾"	⅞"	1⅜"	1
.035"	.625"	.555"	1⅜"	⅞"	1⅜"	1
.035"	.625"	.555"	1¾"	⅞"	1⅜"	1
.035"	.625"	.555"	1.816"	¾"	1⅜"	1
.035"	.625"	.555"	1⅜"	⅞"	1⅜"	1
.035"	.625"	.555"	2"	½"	1⅜"	1
.035"	.625"	.555"	2¼"	⅞"	1⅜"	1
.035"	.625"	.555"	2½"	¾"	1⅜"	1
.035"	.625"	.555"	2¾"	¾"	1⅜"	1
.035"	.625"	.555"	2½"	¾"	1⅜"	1
.035"	.625"	.555"	2½"	¾"	2⅜"	1
.035"	.625"	.555"	3.708"	⅞"	1½"	2
.035"	.625"	.555"	3¾"	½"	1⅜"	2
.035"	.625"	.555"	5½"	⅞"	2½"	2
.0485"	.725"	.627"	2"	⅞"	1⅜"	1
.050"	.750"	.650"	2¼"	¾"	2¼"	1
.050"	.750"	.650"	2½"	⅞"	2⅜"	1
.035"	.750"	.680"	1½"	⅞"	1⅜"	1
.035"	.750"	.680"	1⅞"	¾"	1⅜"	1
.035"	.750"	.680"	2"	⅞"	1⅜"	1
.035"	.750"	.680"	4"	⅞"	2⅜"	1
.037"	.750"	.676"	1⅞"	¾"	1⅜"	1
.049"	.750"	.652"	3¼"	1"	3"	1
.035"	.750"	.680"	3⅜"	¼"	1⅞"	2
.049"	.848"	.752"	2¼"	⅞"	2⅜"	1
.065"	.875"	.745"	2½"	¾"	2⅞"	1
.045"	.875"	.785"	2"	¾"	2⅞"	1
.045"	.875"	.785"	2"	⅞"	2⅞"	1
.045"	.875"	.785"	3⅜"	¾"	3"	1
.045"	.968"	.878"	3⅜"	¾"	1⅜"	1
.065"	1.000"	.870"	3"	1⅜"	3⅜"	1
.065"	1.008"	.877"	2½"	⅞"	2⅞"	1
.065"	1.125"	.995"	3"	1⅜"	3⅜"	1
.066"	1.258"	1.127"	3"	1"	3¼"	1
.025"	1.375"	1.325"	3⅞"	¾"	3"	1
.065"	1.500"	1.370"	3½"	1⅜"	4⅜"	1
.06475"	1.508"	1.3785"	4"	1"	3¾"	1
.072"	1.773"	1.629"	4½"	1⅞"	4⅞"	1
.083"	2.295"	2.129"	5½"	1¾"	5⅜"	1



CONSOLIDATED PRICE LIST No. 8

WROT FITTINGS

Actual or O. D. Size.....	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"				
Nominal Size.....	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"				
Figs. 600, 600-2, 601, 616, 617, 618..	\$.08	\$.08	\$.09	\$.09	\$.12	\$.15	\$.18	\$.22	\$.24	\$.30	\$.38	\$.68	\$ 1.00	\$ 1.65	\$ 2.35	\$ 2.95	\$ 5.95	\$ 8.35	\$ 14.45
Figs. 603, 603-2, 604, 604-2.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Figs. 606, 607.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Figs. 606-2, 606-2-2, 607-2, 607-2-2..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Figs. 611, 611-HE.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Figs. 624 (Per M).....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Figs. 633.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Figs. 638.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*607-1/2" @ \$.15

COPPER TUBE VALVES

Actual or O. D. Size.....	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/2"	3"	3 1/2"	4"						
Nominal Size.....	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/2"	3"	3 1/2"	4"						
Figs. 525, 525-3.....	..	..	\$2.30	\$2.30	..	\$2.55	\$5.60	..	..	..	..	..	..	..	..	..	..	..	..
Figs. 526, 526-3.....	..	..	2.40	2.40	..	2.60	5.65	..	..	..	..	..	..	..	..	..	..	..	..
Figs. 579, 579-3, 179.....	..	..	5.40	6.25	..	7.40	6.75	\$14.10	\$18.00	\$25.50	..	..	..	..	..	..	..	..	..
Fig. 580.....	..	..	2.20	2.20	..	2.90	..	..	..	..	..	..	..	..	..	..	..	..	..
Figs. 725, 725-3.....	..	..	1.55	1.55	..	1.70	3.75	..	..	..	..	..	..	..	..	..	..	..	..
Figs. 726, 726-3.....	..	..	1.60	1.60	..	1.75	3.80	..	..	..	..	..	..	..	..	..	..	..	..
Figs. 729, 729-3.....	..	..	2.80	3.05	..	4.00	5.75	8.15	10.40	14.70	\$27.60	\$41.00	..	..	..	..	..	..	..
Figs. 730, 730-3.....	..	..	4.70	5.50	..	6.50	7.70	10.30	13.20	18.70	33.00	49.00	\$75.00	\$92.00	..	..	..	..	..
Figs. 732, 732-3.....	..	..	3.20	3.90	..	5.40	7.40	10.00	13.00	20.00	..	..	..	..	..	..	..	..	..
Figs. 734, 734-3.....	..	..	\$3.30	4.10	5.20	7.20	9.80	13.40	16.70	27.00	..	..	..	..	..	..	..	..	..
Figs. 738, 738-3.....	..	..	2.50	3.20	3.90	5.40	7.40	10.00	13.00	20.00	..	..	..	..	..	..	..	..	..
Fig. 762.....	..	..	..	2.80	..	2.80	..	10.00	13.00	..	..	..	..	..	..	..	..	..	..
Fig. 763.....	..	..	..	3.25	..	3.25	..	..	..	..	..	..	..	..	..	..	..	..	..
Fig. 777.....	..	..	..	1.85	..	2.00	..	..	..	..	..	..	..	..	..	..	..	..	..
Fig. 777-3.....	..	..	..	2.00	..	2.20	..	..	..	..	..	..	..	..	..	..	..	..	..
Fig. 778.....	..	..	..	1.90	..	2.05	..	..	..	..	..	..	..	..	..	..	..	..	..
Fig. 778-3.....	..	..	..	2.10	..	2.30	..	..	..	..	..	..	..	..	..	..	..	..	..
Fig. 785.....	..	..	3.80	4.30	..	4.90	6.50	8.00	9.70	14.70	..	..	..	..	..	..	..	..	..

ACCESSORIES

Actual or O. D. Size.....	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"	10"	12"	
Nominal Size.....	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"	10"	12"	
Fig. 518.....	\$.45	\$.45	\$.55	\$.65	\$.75	\$.80	\$ 1.30	\$ 3.60	\$ 5.00	\$ 6.40	\$ 13.10	\$ 18.40	..	..	..	..	..	..	..
Fig. 719.....	1.00	1.00	1.00	1.20	1.35	1.75	3.00	6.50	10.40	15.15	..	..	..	..	..	..	..	..	..
Fig. 624 (Per M).....	30.10	33.40	42.60	47.10	56.20	65.40	77.50	120.10	139.80	176.30	..	..	..	..	..	..	..	..	..
Fig. 755.....	.60	.60	.60	.65	.65	.75	.80	.90	1.00	..	..	..	..	..	..	..	..	..	..
Fig. 757.....	..	..	.80	1.00	..	1.15	1.30	..	..	..	..	..	..	..	..	..	..	..	..
Fig. 782.....	..	..	.34	.34	.34	.34	.34	.34	.34	.34	.85	..	.85	..	.85	..	1.36	1.36	..
Fig. 783.....	..	..	.38	.38	.38	.38	.38	.38	.38	.38	.95	..	.95	..	.95	..	1.50	1.50	..
Fig. 786.....	..	..	.19	.19	.19	.19	.19	.19	.19	.19	.29	..	.29	..	.29	..	.47	.47	..
Fig. 787.....	..	..	.21	.21	.21	.21	.21	.21	.21	.21	.32	..	.32	..	.32	..	.52	.52	..
Fig. 788.....	..	..	.14	.14	.14	.14	.14	.14	.14	.14	.48	..	.48	..	.48	..	.72	.72	..
Fig. 789.....	..	..	.28	.28	.28	.28	.28	.28	.28	.28	.96	..	.96	..	.96	..	1.44	1.44	..
Fig. 790.....	..	..	.71	.71	..	.76	.78	.93	1.01	1.08	..	..	..	..	..	..	..	..	..
Fig. 790-A.....	..	..	.85	.85	..	.90	.92	1.07	1.15	1.22	..	..	..	..	..	..	..	..	..
Fig. 791.....	..	..	..	..	..	..	..	..	..	..	1.87	2.33	2.53	2.88	3.63	5.88	8.08	..	..
Fig. 791-A.....	..	..	..	..	..	..	..	..	..	..	2.35	2.81	3.01	3.36	4.11	6.60	8.80	..	..
Fig. 792.....	..	..	.83	.83	.85	.87	.88	1.04	1.13	1.23	1.87	2.33	2.53	2.88	3.63	5.88	8.08	..	..
Fig. 792-A.....	..	..	.97	.97	.99	1.01	1.02	1.18	1.27	1.37	2.35	2.81	3.01	3.36	4.11	6.60	8.80	..	..
Fig. 793.....	..	..	.83	.83	.86	.89	.90	1.07	1.15	1.27	1.63	2.14	2.39	2.74	3.54	5.75	8.20	..	..
Fig. 793-A.....	..	..	.97	.97	1.00	1.03	1.21	1.29	1.41	1.86	2.45	2.70	3.05	3.85	6.17	8.62	..	..	..
Fig. 794.....	..	..	.07	.07	.07	.07	.07	.07	.07	.07	.08	.09	.09	.09	.09	.10	.10	..	..
Fig. 795.....	..	..	.21	.21	.21	.21	.21	.21	.21	.21	.31	.40	.40	.40	.40	.52	.52	..	..
Fig. 796.....	..	..	.23	.23	..	.28	.30	.45	.53	.60	..	..	..	..	..	..	..	..	..
Fig. 797.....	..	..	..	..	..	..	..	..	..	..	.85	1.00	1.20	1.55	2.30	3.80	6.00	..	..
Fig. 798.....	..	..	.35	.35	.37	.39	.40	.56	.65	.75	.85	1.00	1.20	1.55	2.30	3.80	6.00	..	..
Fig. 799.....	..	..	.38	.38	.41	.44	.44	.62	.70	.82	.95	1.10	1.35	1.70	2.50	4.15	6.60	..	..
Fig. 623 Copper Hanger Strap 3/4" Wide—25 Ft. Roll \$2.25, 50 Ft. Roll \$4.50																			
Fig. 767 Johnsons Soldering Fluid—3 oz. Can \$0.30, 1 Qt. Can \$2.35																			
Fig. 766 NIBCO Soldering Paste—2 oz. Can \$0.23, 1 Lb. Can \$1.50																			
NIBCO 50-50 and 95-5 Solder—Subject to Market Only																			
Fig. 765 Sand Cloth—10 Yard Roll \$1.90, 25 Yard Roll \$3.80, 50 Yard Roll \$6.85																			

CONSOLIDATED PRICE LIST No. 8

CAST SOLDER FITTINGS

Actual or O. D. Size	¼"	⅜"	½"	¾"	¾"	¾"	1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"	6"	8"	10"	12"	14"
Nominal Size	¼"	⅜"	½"	¾"	¾"	¾"	1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"	6"	8"	10"	12"	14"
Figs. 701, 701-2, 702, Figs. 703, 703-2, 704, 704-2	\$.09	\$.15	\$.15	\$.18	\$.23	\$.27	\$.46	\$.76	\$1.05	\$1.50	\$ 2.60	\$ 3.40	\$ 5.30	\$ 5.80	\$14.45	\$19.00	\$27.35	\$35.70	\$72.95	
Figs. 706, 707	.18	.18	.18	.20	.30	.55	.76	1.05	1.50	2.60	3.40	5.30	5.80	14.45	19.00	27.35	35.70	72.95		
Figs. 706-2, 706-2-3, 706-2-4, 706-3, 706-4, 707-2, 707-2-3, 707-2-4, 707-3, 707-4	.15	.15	.15	*.18	.30	.55	.84	1.15	1.65	3.05	3.80	5.70	6.40	15.50	25.85	43.15	66.60	98.80		
Figs. 707-3-5, 707-4-5, 707-5	.20	.20	.20	.28	.40	.70	.84	1.15	1.65	3.05	3.80	5.70	6.40	15.50	25.85					
Figs. 707-6				.30	.55	1.00														
Figs. 707-3-6, 707-4-6				1.20	1.35	1.80	2.45	3.20	4.55	5.95										
Figs. 708				1.35	1.60	2.00	2.75	3.65	5.00	6.85										
Figs. 709				.55	.75	.95	1.25	1.65	2.30	3.10										
Figs. 711	.23	.23	.23	.27	.49	.76	1.15	1.65	2.30	3.80	4.85	7.60	9.40	22.05	37.10	54.10	108.60	148.00		
Figs. 712, 713, 714, 715	.23	.23	.30	.40	.60	1.00	1.15	1.65	2.30	3.80	4.85	7.60	9.40	22.05	37.10	54.10	108.60	148.00		
Figs. 711-5, 712-5			.45	.60	1.00	1.25	1.65	2.30	3.10											
Figs. 711-6				1.60	2.30	2.95														
Figs. 716, 717	.15	.15	.15	.18	.27	.46	.76	1.05	1.50	2.60	3.40	5.30	5.80	14.45	19.00	27.35	35.70			
Figs. 718	.09	.09	.09	.12	.18	.24	.30	.38												
Figs. 720 Range Boiler Coupling \$0.53, Figs. 721 Range Boiler Ell \$0.61, Figs. 720-6 Union Range Boiler Coupling \$1.30, Figs. 721-6 Union Range Boiler Ell \$1.65																				
Figs. 733		.76	.76	.91	1.15	1.30	1.65	2.30	3.35	4.20	8.35	14.45								
Figs. 733-2, 733-3, 733-4		.91	1.05	1.30	1.50	2.20	3.50	4.05	5.70	11.00	19.45									
Figs. 735		.38	.38	.46	.76	1.15	1.80	2.50	3.35	6.45	8.35	11.40	14.15	34.60	55.65					
Figs. 736				.61	1.00	2.00														
Figs. 737, 737-3				.91	1.15	2.45														
Figs. 739			.46	.53	.91	1.35	2.30	2.65	3.80	5.30	7.60									
Figs. 740			1.30	1.70	3.00	3.50	5.30	7.00	10.95	14.60	17.35	20.65	26.45	31.90	58.70	78.30	108.20			
Figs. 741, 747, 753, 754			1.65	1.80	2.15	2.45	2.65	3.50	5.45	7.30	8.65	10.35	13.20	15.95	29.35	39.15	54.10			
Figs. 742									7.00	7.40	10.20	16.20	18.60	26.00	41.00	64.25	93.90			
Figs. 743										6.10	6.85	7.60	10.25	15.20	18.25	26.60	40.30	45.15		
Figs. 744		2.00	2.15	2.30	4.25	6.60	7.45	9.40	12.85	18.10	25.25	33.90	45.15	67.70	85.80	164.15				
Figs. 745																				
Figs. 746				.95	1.25	1.95	2.30	3.30	4.20											
Figs. 748, 749			.31	.36	.65	1.00	1.55	2.20	3.05	5.05	6.45									
Figs. 750			.76	.91	1.15	1.90	2.80	4.35	6.60											
Figs. 750-3, 750-4			.84	1.00	1.25	2.10	3.10	4.80	7.25											
Figs. 758								1.65												
Figs. 759									3.35											
Figs. 764						1.00	1.50	2.30	3.00				15.05							
Figs. 771, 772, 773, 774			2.30	2.45	2.65	3.15	3.25	3.90	5.75	7.70	9.50	11.00	16.10	19.65						

*707—1/2" @ \$.15

CAST DRAINAGE FITTINGS

Actual or O. D. Size	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"	10"	12"	14"
Nominal Size	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"	10"	12"	14"
Figs. 801, 801-2, 803, 804.....						\$.76	\$1.05	\$1.50	\$ 2.60	\$ 3.40		\$ 5.80	\$14.45	\$19.00	\$27.35			
Figs. 801-7, 803-7, 804-7.....						1.11	1.51	2.55										
Fig. 802.....						.50	.65	.90										
Fig. 805.....								1.50		3.40		5.80	18.85	28.25				
Figs. 806, 807, 807-2, 807-3, 807-4, 808, 809, 860.....						.84	1.15	1.65		3.80		6.40	15.50	25.85	43.15			
Fig. 806-16.....						1.19	1.65	2.50										
Fig. 807-7.....						1.34	1.90	2.70										
Figs. 807-9, 861.....										4.85								
Figs. 810, 810-13, 810-14, 811, 811-13, 811-14.....						1.15	1.65	2.30	3.80	4.85		9.40	22.05	37.10	54.10			
Figs. 810-15, 811-15.....						1.65	2.35	3.15		6.55		12.70						
Figs. 810-16, 811-16.....						1.50	2.15	3.15		6.60		13.00			44.45			
Figs. 811-3-7, 811-7.....						1.65	2.40	3.35										
Figs. 812, 812-13, 812-14.....						1.90	2.65	4.35		8.50		12.75	31.40	45.15				
Figs. 812-15.....						2.75	3.85	6.30										
Fig. 814.....										8.35		15.05						
Figs. 816, 817.....					1.05	1.20	1.60	2.00		3.90		7.00		20.00				
Fig. 818.....						.47	.60	.95		2.15		4.00		10.15				
Figs. 819, 820.....						.75	.90	1.15		2.65		5.00		12.65				
Fig. 821.....						4.85	5.70	8.90										
Fig. 822.....						5.70	6.60	11.10										
Fig. 823.....										3.40		5.80	14.45	19.00				
Fig. 824.....						5.25	6.15	9.95		22.45		32.15						
Figs. 834, 835.....						2.15	3.10	4.70		9.40		15.05		62.10	79.05			
Fig. 836.....						3.20	3.95	6.30		12.75		19.75		79.05				
Fig. 837.....					1.00	1.50	2.30	3.00				15.05						
Fig. 838.....										12.00								
Figs. 839, 840.....										9.40								
Fig. 841.....						4.20	5.00	7.40		18.65		30.75						
Fig. 842.....						5.05	5.90	9.60		22.45								
Fig. 843.....							2.65	3.50		6.10		7.60		15.20	26.60			
Fig. 850.....										7.15		9.15						
Fig. 851.....										3.35		3.35						
Fig. 853.....						7.00	7.00											
Fig. 854.....							12.80											
Fig. 870.....										12.00		20.80						
Figs. 871, 872.....										9.40		15.05						



CONSOLIDATED PRICE LIST No. 8

FLARED TUBE FITTINGS

Actual or O. D. Size.....	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"									
Nominal Size.....	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"									
Fig. 500.....	\$.11	\$.11	\$.12	\$.12	\$.15	\$.18	\$.20	\$.40	\$.60	\$.90	\$ 1.50	\$ 4.70	\$ 6.60						
Figs. 500-3, 500-4.....	.15	.17	.23	.30	.40	.60	1.05	1.50	2.80										
Fig. 501.....	.40	.45	.50	.60	.80	1.00	1.50	2.45	3.80	6.10	12.75	24.55							
Figs. 502, 503, 504.....	.28	.28	.32	.35	.45	.55	.60	1.15	1.80	2.65	4.10	7.85	16.40						
Figs. 506, 506-3, 506-4, 507, 507-3, 507-4.....	.40	.40	.45	.50	.60	.80	1.00	1.50	2.45	3.80	6.10	14.40	24.55						
Figs. 507-3-5, 507-5.....	.75	.75	1.00	1.20	1.35	2.45	4.20	6.40	9.90	20.20	39.15								
Figs. 511, 512, 513, 514, 515.....	.60	.60	.70	.70	1.00	1.20	1.35	2.45	4.20	6.40	9.90	20.20	39.15						
Figs. 511-5, 512-5.....			1.20	1.50	2.35	3.95													
Figs. 516, 517.....	.21	.24	.27	.30	.50	.75	1.50	2.05	3.80										
Fig. 519.....			.60	.70	1.00	1.75	2.75	3.80											
Fig. 520 Range Boiler Coupling \$0.70, Fig. 521 Range Boiler Elb \$1.05																			
Fig. 523.....		.40	.50	.55	.65	.70	1.20	2.15	3.05	4.10									
Figs. 529, 530.....		.55	.70	1.05	1.80	3.05	4.55	7.90	10.25										
Fig. 535.....		1.20	1.50	2.35	4.05	6.60	10.25	15.75											
Fig. 537.....			1.90																

FLANGED FITTINGS

Actual or O. D. Size.....	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"	10"	12"	14"
Nominal Size.....	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"	10"	12"	14"
Figs. 701-12.....									\$14.10									
Figs. 706-10, 707-10.....										\$15.95	\$19.40	21.60	36.00	43.15	\$49.55	\$66.90	\$98.80	
Figs. 706-11, 707-11.....										18.40	23.05	27.05	41.95	57.75	65.35	91.95	126.45	
Figs. 706-12.....								\$25.05	33.85	43.10	57.20	66.00	88.00	118.85				
Figs. 707-12.....								\$18.45	22.85	31.25	39.60	52.80	61.60	83.60	110.05	188.40		
Figs. 711-10.....										23.10	28.10	32.20	52.80	54.10	61.40	98.80	134.50	
Figs. 711-11.....										26.75	33.60	40.45	61.70	84.95	87.40	136.40	176.00	
Figs. 711-12.....								\$21.10	27.70	34.30	46.20	59.40	92.45	123.25	167.25			
Figs. 735-12.....								28.15	45.75	61.60	79.20		123.25	220.10				
Figs. 740.....			\$1.30		\$1.70	\$3.00	3.50	5.30	7.00	10.95	14.60	17.35	20.65	31.90	58.70	78.30	108.20	
Figs. 741, 747, 753, 754.....			1.65		1.80	2.15	2.45	2.65	3.50	5.45	7.30	8.65	10.35	13.20	15.95	29.35	39.15	54.10
Figs. 742.....										7.00	7.40		10.20	16.20	18.60	26.00	41.00	64.25
Figs. 743.....											6.10	6.85	7.60	10.25	15.20	18.25	26.60	40.30
Figs. 746.....			.95		1.25	1.95	2.30	3.30	4.20				23.45			67.05		
Figs. 751.....																		
Figs. 771, 772, 773, 774.....			2.30		2.45	2.65	3.15	3.25	3.90	5.75	7.70	9.50	11.00	16.10	19.65			
Figs. 775.....								4.40	6.00	7.60	9.40		13.40		23.10			

LIST PRICE EXTRAS—HOT TINNING SOLDER FITTINGS AND VALVES

Figure Numbers	Sizes Up To And Including 3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"
600, 600-R, 601, 600-2.....	\$0.06	\$0.08	\$0.10	\$0.12	\$0.14	\$0.16	\$0.22	\$0.28	\$0.38	\$0.52	\$0.82
603, 603-2, 604, 604-2, 701, 701-2, 702, 703, 703-2, 704, 704-2, 817.....	.10	.14	.18	.22	.28	.34	.50	.68	.82	1.20	1.72
611, 638, 711, 712, 713, 714, 715.....	.18	.24	.30	.36	.44	.52	.74	.98	1.20	2.10	3.46
606, 606-2, 607, 607-2, 607-3, 607-4, 706, 706-2, 706-3, 706-4, 707, 707-2, 707-3, 707-4.....	.16	.20	.24	.28	.34	.42	.64	.80	1.06	1.58	2.50
633, 733, 733-3, 733-4.....	.50	.60	.70	.80	.90	1.00	1.20	1.50	1.90		
741, 742, 743.....	.36	.40	.44	.50	.56	.64	.94	1.06	1.36	1.62	2.10
617, 716, 717.....	.06	.08	.10	.22	.24	.32	.42	.54	.82	1.20	1.72
Valves—All Styles.....	.54	.80	1.16	1.42	1.70	2.46	3.50	4.72	5.78	9.12	14.00

Above are list prices covering extra charges for hot tinning solder fittings and valves. These prices are to be added to the price of the fitting and are subject to the same discount. Prices covering fittings not listed quoted upon request.

Architects • Engineers • Others

The widespread installation of copper water tube in more recent years has created a demand for specifications to cover the fittings and valves required. The Standards mentioned below have been developed through the efforts of engineering societies, users, and manufacturers, and represent the most up-to-date information available. Specifications on some types of fittings are in work at the time of printing of this Catalog.

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

CAST BRASS SOLDER JOINT FITTINGS —

"Cast Brass Solder Joint Fittings shall be in accordance with American Standards Assoc. #B16.18-1950"

CAST BRASS FLARED TUBE FITTINGS —

"Cast Brass Flared Tube Fittings shall be in accordance with American Standards Assoc. #A40.2-1936"

WROT SOLDER JOINT FITTINGS —

Wrot Solder Joint Fittings shall be in accordance with American Standards Assoc. B16.22-1951

CAST BRASS DRAINAGE SOLDER JOINT FITTINGS —

Cast Brass Drainage Solder Joint Fittings to be produced equal in materials and workmanship to specifications outlined in NIBCO Catalog G. (Formal specifications in proposed stage at time of printing)

CAST BRASS FLANGES AND FLANGED FITTINGS —

"Cast Brass Flanges and Flanged Fittings shall be produced to the following specifications —

150# Class — Material, workmanship and dimensions of flanges & fittings shall be in accordance with Manufacturers Standardization Society #SP-2-1946. Equal to Federal Specification WW-F-406 (Covers flange dimensions only)

125# Class — Material, workmanship and dimensions of flanges shall be in accordance with 125# ASME Standards as outlined in NIBCO Catalog "G"

100# Class — Material, workmanship and dimensions of flanges shall be in accordance with 100# RPM Standards as outlined in NIBCO Catalog "G"

CAST BRASS SOLDER JOINT VALVES —

"Cast Brass Solder Joint Valves shall be produced to the following specifications —

Design detail in accordance with Federal Specification.

Prices in this catalog cover commercial valves, only.

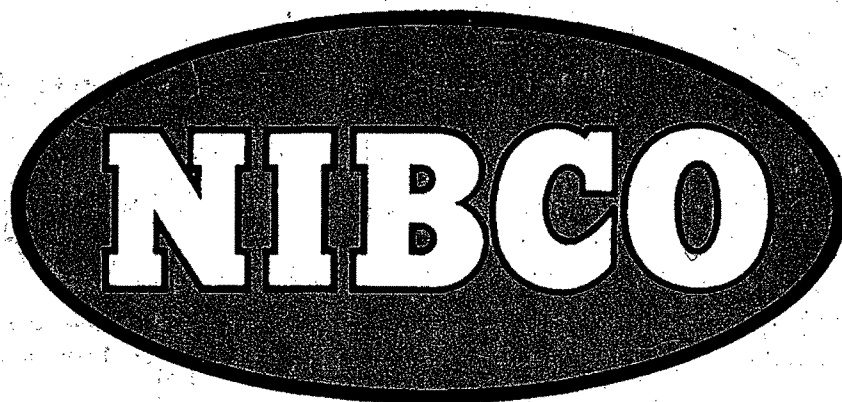
Valves requiring Government inspection subject to Quotation and Acceptance by Factory.

All Other Solder End Valves — Material, workmanship and design standards shall be equal to standards as set forth for Cast Brass Solder Joint Fittings.

NIBCO Copper Tube Fittings and Valves are all produced to above Standards. To simplify, write your specification to read — Copper Tube Fittings and Valves to be in accordance with specifications as outlined in NIBCO Catalog "G" for 1951.

**LOOK FOR THIS SIGN OF
DEPENDABILITY**

DISTRIBUTORS OF



**VALVES AND FITTINGS
FOR COPPER PIPING**

THIS DECAL AVAILABLE ON REQUEST