

Part Numbering System

Iron Pipe Nipples

Fitting Type Pipe Thread Length Finish Option
1 1 3 - 0 6 - 2.5 - C - X

Type	112	Close Pipe Nipples*
	113	Long Pipe Nipples

Pipe Thread	02	1/8" Male Iron Pipe
	04	1/4" Male Iron Pipe
	06	3/8" Male Iron Pipe
	08	1/2" Male Iron Pipe
	10	5/8" Male Iron Pipe
	12	3/4" Male Iron Pipe
	16	1" Male Iron Pipe

Length*	1.5	1-1/2"
	2	2"
	2.5	2-1/2"
	3	3"
	3.5	3-1/2"
	4	4"
	4.5	4-1/2"
	5	5"
	5.5	5-1/2"
	6	6"

Finish	C	Chrome plated
	R	Rough (unplated)

Option (Modifier)	X	100% Compliant
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*For Close Nipples, omit length

Working Pressures

Working pressures vary by type and size of tubing used, and style of fitting. However, based on .032 wall copper tubing, the pressures may range as follows depending on size:

CONNECTION TYPE PRESSURE	WORKING
Flare (1/8" to 3/4")	600 to 3,000 PSI
Compression	100 to 400 PSI
Iron Pipe	Up to 1,200 PSI
PEX Tubing	Up to 150 PSI
Polyethylene Tubing	Up to 80 PSI

General Information

Most brass fittings have a temperature range of -65°F to 250°F. They can be used on copper, brass, aluminum, plastic, and welded steel.

Note: Compression fittings are not recommended for steel tubing.

Industry Standard Fittings

Fitting Type Inlet Size Outlet Size Option Finish
6 9 - 8 - 6 - X - C

Type	62	Compression x Compression Union
	65	Compression x Compression Elbow
	68	Male Iron Pipe x Compression Union
	69	Male Iron Pipe x Compression Elbow
	70	Female Iron Pipe x Compression Elbow
	462	Flare x Compression Adaptor

Inlet Size	4	1/4"
	6	3/8"
	8	1/2"
	10	5/8"
	12	3/4"
	14	7/8"

Outlet Size	4	1/4"
	6	3/8"
	8	1/2"
	10	5/8"
	12	3/4"
	14	7/8"

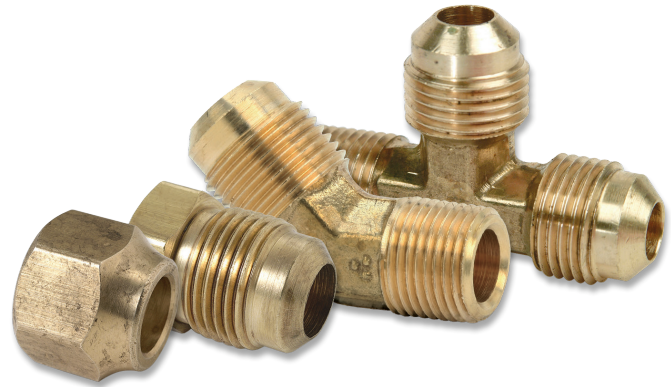
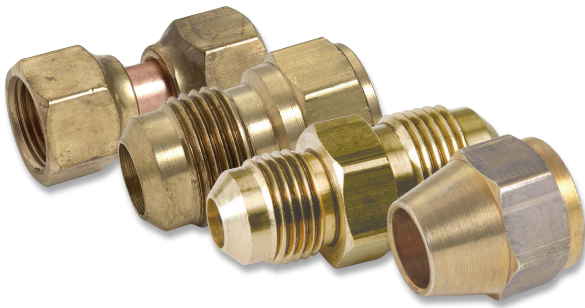
Option	DT	Drill Through
(Modifier)	X	100% Compliant

Finish	C	Chrome plated
	R	Rough (unplated)

Fitting Thread Size Comparison Chart

SIZE	FLARE	COMPRESSION	PIPE
1/8	5/16-24	5/16-24	1/8-27
3/16	3/8-24	3/8-24	—
1/4	7/16-20	7/16-24	1/4-18
5/16	1/2-20	1/2-24	—
3/8	5/8-18	9/16-24	3/8-18
7/16	11/16-16	5/8-24	—
1/2	3/4-16	11/16-20	1/2-14
5/8	7/8-14	13/16-18	—
3/4	1-1/16-14	1-18	3/4-14
7/8	1-1/4-12	1-1/8-18	—
1	1-3/8-12	—	1-11-1/2

Brass 45° Flare Fittings



Product Applications

- For use with copper, brass, aluminum and welded steel tubing that can be flared.
- Used extensively for connections of fuel, oil, air, liquid petroleum (LP), and natural gas lines.

Product Advantages

- BrassCraft flare fittings resist mechanical pull out.
- Recommended for higher pressures than those covered by compression fittings.
- Designed to be assembled and disassembled over and over again.
- Reusable with long or short nuts.
- Manufactured from brass.
- Backed by BrassCraft's more than 75 year history and reputation for quality and service.

Special Orders

- Special fitting configurations and sizes may be ordered. Please furnish a print or sketch of your needs with your inquiry.
- Fittings are available in bulk quantities on request. Contact your sales representative for details.

How To Order

- Order fittings by part number and product name.
- Flare bodies and nuts are separate items and are ordered individually. (Indicate both part numbers – body and nut – when ordering).
- To order flare fittings with nuts assembled, add suffix "WN".

Assembly Instructions

1. Cut tubing to required length, making sure that the ends are square and all burrs are removed.
2. Slide nut onto tubing. Threaded end of nut must face out.
3. Flare tubing end with a 45° flaring tool.
 - A. Measure flare diameter.
 - B. Check flare for excessive thin out.
4. Lubricate threads with a drop of oil and assemble nut onto body, hand tighten.
5. Tighten with wrench until assembly feels "solid". Then apply a one-sixth turn.

CAUTION: Do not over torque. May damage the fitting and split the tubing at the flare.

HINT!

Single or Double Flares?

Tubing may be either single or double flared for maximum reliability. When working with steel tubing, such as Bundy, double flaring is recommended to protect against tube cracking or splitting. Single flares are commonly used to connect copper and aluminum tubing.

Double Flare Eliminates the Danger of Over Tightening

The advantage of a double flare is that an effective seal can be made with specified wrench torques, and yet maximum wrench torques for single flares can be exceeded by a considerable margin without "ironing out" or "washing out" the flare. The double flare compensates for this over-torquing while maintaining a reliable seal. The double flare is also desirable for tubing joints which must be taken apart and reassembled frequently, especially on 3/8" OD tube size or smaller.



PART NO.	USE	UPC	DESCRIPTION	FINISH	QTY	LBS
Flare Plugs						
39-6	○	026613005690	3/8" OD Tube	Rough	10	0.5
39-8	○	026613005706	1/2" OD Tube	Rough	10	0.8
39-10	○	026613005713	5/8" OD Tube	Rough	10	1.3



Flare Caps						
40-4	○	026613004914	1/4" OD Tube	Rough	5	0.1
40-6	○	026613004921	3/8" OD Tube	Rough	10	0.4
40-6X	▲	026613141077	3/8" OD Tube	Rough	10	0.4
40-8	○	026613004938	1/2" OD Tube	Rough	10	0.4
40-10	○	026613004945	5/8" OD Tube	Rough	5	0.6



Flare Nuts - Short						
41S-4	○	026613004952	1/4" OD Tube	Rough	10	0.3
41S-6	○	026613004976	3/8" OD Tube	Rough	10	0.5
41S-8	○	026613004990	1/2" OD Tube	Rough	10	0.7
41S-10	○	026613005003	5/8" OD Tube	Rough	5	0.5
41S-12	○	026613058849	3/4" OD Tube	Rough	10	2.0
41S-14	○	026613058856	7/8" OD Tube	Rough	10	3.7
41S-6X	▲	026613058900	3/8" OD Tube, Heavy Pattern	Rough	10	0.6
41S-8X	▲	026613058955	1/2" OD Tube, Heavy Pattern	Rough	10	0.9



Flare Unions						
42-4	○	026613005010	1/4" OD Tube, Both Ends	Rough	10	0.3
42-6	○	026613005034	3/8" OD Tube, Both Ends	Rough	10	0.8
42-8	○	026613005041	1/2" OD Tube, Both Ends	Rough	10	1.6
42-10	○	026613005058	5/8" OD Tube, Both Ends	Rough	5	1.0
42-14	○	026613060125	7/8" OD Tube, Both Ends	Rough	5	2.2



Flare Reducing Unions						
42-6-4	○	026613005065	3/8" OD Tube x 1/4" OD Tube	Rough	10	0.6
42-8-6	○	026613005089	1/2" OD Tube x 3/8" OD Tube	Rough	10	1.1
42-10-8	○	026613005102	5/8" OD Tube x 1/2" OD Tube	Rough	5	0.9



Flare Female Adaptors						
46-4-4	○	026613060255	1/4" OD Tube x 1/4" FIP	Rough	10	0.4
46-6-6	○	026613005225	3/8" OD Tube x 3/8" FIP	Rough	10	0.6
46-8-8	○	026613005270	1/2" OD Tube x 1/2" FIP	Rough	10	1.1



Flare Female Reducing Adaptors						
46-4-2	○	026613005331	1/4" OD Tube x 1/8" FIP	Rough	10	0.4
46-4-8	○	026613060279	1/4" OD Tube x 1/2" FIP	Rough	10	1.0
46-6-12	○	026613005249	3/8" OD Tube x 3/4" FIP	Rough	10	0.9
46-6-8	○	026613005232	3/8" OD Tube x 1/2" FIP	Rough	10	0.9
46-8-12	○	026613005287	1/2" OD Tube x 3/4" FIP	Rough	10	1.3
46-8-6	○	026613005263	1/2" OD Tube x 3/8" FIP	Rough	10	0.9
46-10-8	○	026613005300	5/8" OD Tube x 1/2" FIP	Rough	10	1.1
46-10-12	○	026613005317	5/8" OD Tube x 3/4" FIP	Rough	10	1.3

○ Not for use in potable water applications.

▲ Certified Compliant to NSF/ANSI 372 for potable water applications

PART NO.	USE	UPC	DESCRIPTION	FINISH	QTY	LBS
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Flare Male Adaptors

48-4-4	○	026613005348	1/4" OD Tube x 1/4" MIP	Rough	10	0.4
48-6-6	○	026613005386	3/8" OD Tube x 3/8" MIP	Rough	10	0.7
48-8-8	○	026613005430	1/2" OD Tube x 1/2" MIP	Rough	10	1.1
48-12-12	○	026613060422	3/4" OD Tube x 3/4" MIP	Rough	5	1.3



Flare Male Reducing Adaptors

48-4-2	○	026613060484	1/4" OD Tube x 1/8" MIP	Rough	10	0.2
48-4-6	○	026613060507	1/4" OD Tube x 3/8" MIP	Rough	10	0.6
48-4-8	○	026613060521	1/4" OD Tube x 1/2" MIP	Rough	10	1.0
48-6-2	○	026613005362	3/8" OD Tube x 1/8" MIP	Rough	10	0.6
48-6-4	○	026613005379	3/8" OD Tube x 1/4" MIP	Rough	10	0.7
48-6-8	○	026613005393	3/8" OD Tube x 1/2" MIP	Rough	10	1.1
48-6-12	○	026613005409	3/8" OD Tube x 3/4" MIP	Rough	10	1.7
48-8-4	○	026613005416	1/2" OD Tube x 1/4" MIP	Rough	10	1.0
48-8-6	○	026613005423	1/2" OD Tube x 3/8" MIP	Rough	10	1.1
48-8-12	○	026613005447	1/2" OD Tube x 3/4" MIP	Rough	10	1.7
48-10-8	○	026613005461	5/8" OD Tube x 1/2" MIP	Rough	5	0.7
48-10-12	○	026613005478	5/8" OD Tube x 3/4" MIP	Rough	10	1.8
48-14-12	○	026613005485	7/8" OD Tube x 3/4" MIP	Rough	5	2.0



Flare Female Reducing Elbows

50-6-8	○	026613005591	3/8" OD Tube x 1/2" FIP	Rough	10	2.1
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Flare Male Elbows

49-4-4	○	026613005508	1/4" OD Tube x 1/4" MIP	Rough	10	0.7
49-6-6	○	026613005522	3/8" OD Tube x 3/8" MIP	Rough	10	1.4
49-8-8	○	026613005560	1/2" OD Tube x 1/2" MIP	Rough	10	2.4



Flare Male Reducing Elbows

49-3-2	○	026613063690	3/16" OD Tube x 1/8" MIP	Rough	10	0.4
49-6-2	○	026613063737	3/8" OD Tube x 1/8" MIP	Rough	10	1.2
49-6-4	○	026613005515	3/8" OD Tube x 1/4" MIP	Rough	10	1.0
49-6-8	○	026613005539	3/8" OD Tube x 1/2" MIP	Rough	10	1.9
49-8-6	○	026613005553	1/2" OD Tube x 3/8" MIP	Rough	10	1.8
49-10-8	○	026613005577	5/8" OD Tube x 1/2" MIP	Rough	5	1.2



Flare Union Elbows

55-6	○	026613005645	3/8" OD Tube, Both Ends	Rough	10	1.3
55-8	○	026613005652	1/2" OD Tube, Both Ends	Rough	10	2.0
55-10	○	026613005669	5/8" OD Tube, Both Ends	Rough	5	1.5



Flare Tees

44-4	○	026613005126	1/4" OD Tube, All 3 Ends	Rough	10	0.7
44-6	○	026613005133	3/8" OD Tube, All 3 Ends	Rough	10	1.7
44-8	○	026613005140	1/2" OD Tube, All 3 Ends	Rough	10	2.8



○ Not for use in potable water applications.