

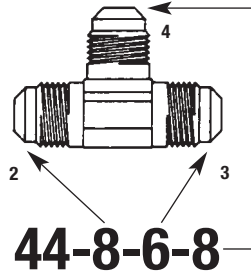
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PART NUMBER SYSTEM

POSITION 1
Style Number (a "1" prefix denotes a forged fitting e.g. 144-8-6-8).

POSITION 2, 3 & 4
End dimensions in 1/16" increments. This number could be read as Style 44 (flared tee) with an 8/16" (1/2") male end, a 6/16" (3/8") male end, and an 8/16" (1/2") male end on the branch. Part numbers for tees always read counterclockwise, starting at the 9 o'clock position.



TUBE OR PIPE SIZES	INCHES	TUBE OR PIPE SIZES	INCHES
2	1/8	8	1/2
3	3/16	10	5/8
4	1/4	12	3/4
5	5/16	14	7/8
6	3/8	16	1
7	7/16		

GENERAL INFORMATION

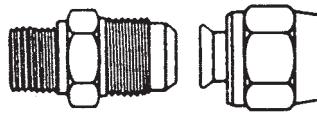
Most brass fittings have a temperature range of -65°F to 250°F. They can be used on copper, brass, aluminum, plastic, and welded steel (**NOTE: Compression fittings are not recommended for steel tubing**).

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:

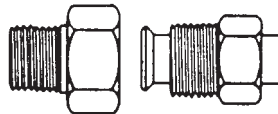
CONNECTION TYPE	WORKING PRESSURE
Flare (1/8" to 3/4")	600 to 3,000 PSI
Compression	100 to 400 PSI
Iron Pipe	Up to 1,200 PSI
PEX Tubing	Up to 150 PSI
Polyethylene Tubing	Up to 80 PSI

FLARE FITTINGS

Recommended for higher pressures than compression fittings, BrassCraft 45° flare fittings have been used extensively for fuel, oil, air, liquid petroleum (LPG), and natural gas connections. (**NOTE: Furnished with body only. Nut not included**).



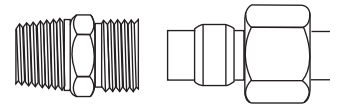
45° Flare



Inverted Flare

COMPRESSION FITTINGS

BrassCraft quality-made, leak-proof compression fittings are widely used wherever an easy and economical method of connecting tubing is required. (**NOTE: Furnished with body, nut and sleeve**).



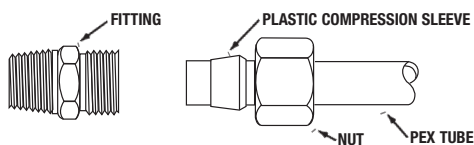
WARNING: Do not use compression fittings for gas connections of any kind.

FITTING THREAD SIZE COMPARISON CHART

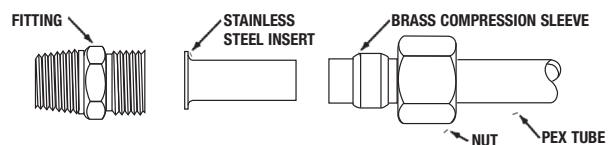
SIZE	FLARE	INVERTED FLARE	COMPRESSION	PIPE	AIR BRAKE HOSE	AIR BRAKE TUBE
1/8	5/16-24	5/16-28	5/16-24	1/8-27	—	—
3/16	3/8-24	3/8-24	3/8-24	—	—	—
1/4	7/16-20	7/16-24	7/16-24	1/4-18	3/4-20	7/16-24
5/16	1/2-20	1/2-20	1/2-24	—	—	—
3/8	5/8-18	5/8-18	9/16-24	3/8-18	31/32-20	17/32-24
7/16	11/16-16	11/16-16	5/8-24	—	—	—
1/2	3/4-16	3/4-18	11/16-20	1/2-14	1-3/32-20	11/16-20
5/8	7/8-14	7/8-18	13/16-18	—	—	13/16-18
3/4	1-1/16-14	1-1/16-16	1-18	3/4-14	—	1-18
7/8	1-1/4-12	—	1-1/8-18	—	—	—
1	1-3/8-12	—	—	1-11-1/2	—	—

PEX TUBE COMPRESSION CONNECTION

For PEX Tube 3/8 IN. O.D. and smaller, use plastic compression sleeve.



For PEX Tube larger than 3/8 IN. O.D., use brass compression sleeve with stainless steel tube insert.



MANUFACTURING TECHNIQUES

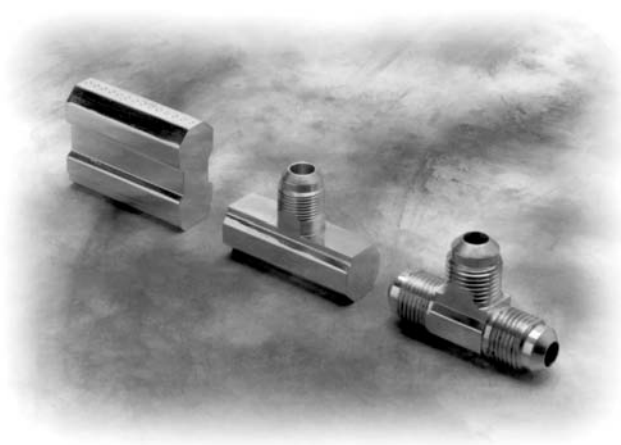
EXTRUDED FITTINGS

All BrassCraft extruded fittings are shaped from a single piece of bar stock by 22 different machining operations. The result is a one-piece, solid brass fitting without seams or brazed joints.

All bar stock is made of a CDA 360 alloy material that is extruded and drawn to precise tolerances. This one-piece construction process eliminates splits, pin holes, sand holes and potential leakers.

To create each fitting, bar stock is extruded into the required configuration. Then it's drawn to size, straightened and cut to length. This process involves heating a solid round billet (8 to 12 inches in diameter) to the pliable state and forcing it with 80,000 pounds per square inch of pressure through a die. Next, the formed bar is cooled and drawn through dies to the desired external size, straightened, then cut to length.

This BrassCraft extrusion process produces a fitting's material that's dense, nonporous, and stronger in its longitudinal direction.



FORGED FITTINGS

To produce forged fittings, material is extruded into round bars, cut to length and straightened, creating forging rod that differs from extruded machinable bars in its temper and chemical composition. Then the bars are cut again into short-length slugs, reheated to the pliable state and pressed between dies under 25,000 pounds per square inch pressure. Next, they're cooled, the flash is trimmed and the forging blank is machined into its finished form.

Forming fittings under extreme pressure produces a uniformly dense material with high impact strength and resistance to mechanical shock and vibration.



*Dryseal pipe threads, hand tight.
Does not provide a positive seal.*

*Dryseal pipe threads, wrench tight.
Tightly seals all thread surfaces,
providing a positive seal.*



*Regular pipe threads, hand tight.
Only seals joints on the sides of the
threads, allowing spiral leakage.*

DRYSEAL PIPE THREADS

BrassCraft tapered pipe threads are made to the American National Standard B1.20.3, Dryseal Pipe Thread standard, known as either NPTF, or in the SAE short version, PTF.

Unlike other types of threads, Dryseal pipe threads seal joints pressure-tight, because their thread roots are wider than the crests. Wrenching the threads together causes the roots to crush the sharper crests of the mating threads, forming a metal-to-metal seal. Dryseal threads improve sealing characteristics, but using a thread sealant is still recommended.

BRASS FLARE 45° 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.
- Low cost.
- Reusable with long or short nut.
- Manufactured from CA 360, CA 345 or CA 377 brass rod.
- Backed by BrassCraft's 60-year history and reputation for quality and service.

VIBRATION

- Good vibration resistance.
- Use of long nut is recommended when greater vibration resistance is required.

TEMPERATURE RANGE

- -65°F to 250°F at maximum operating pressures.

HOW TO ORDER

- Always order by part number and product name.
- SAE 45° flare bodies and nuts are separate items that can be ordered individually.
- Indicate both part numbers (body and nut) when ordering.

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. You can 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.

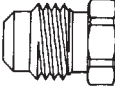




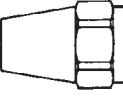
DOUBLE FLARE ELIMINATES THE DANGER OF OVER TIGHTENING


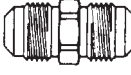
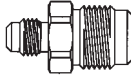
The advantage of a double flare is that an effective seal can be made with specified wrench torques, and yet maximum wrench torques for single flares can be exceeded by a considerable margin without "ironing out" or "washing out" the flare. The double flare compensates for this over-torquing while maintaining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

RECOMMENDED MAXIMUM WORKING PRESSURES

SERVICE CONDITIONS	TUBE O.D.	TYPE OF TUBING AND WALL THICKNESS									
		COPPER-DEAD SOFT (SEAMLESS)					COPPER-HALF HARD (SEAMLESS)				
		.030"	.032"	.035"	.049"	.065"	.032"	.035"	.042"	.049"	.065"
SAFETY FACTOR 4-1	1/8"	4300		5000			5000				
	3/16"	2850		3300			3400				
	1/4"	2100	2250	2500			2500				
	5/16"		1800	2000			2000				
	3/8"		1500	1650			1700	1850			
	1/2"		1100	1250		2000	1250	1400			2600
	5/8"			1000	1400	1800	1000			1500	2000
	3/4"			850	1150	1500			1100		1700
7/8"									1100	1500	
SAFETY FACTOR 6-1	1/8"	2800		3350			3400				
	3/16"	1900		2200			2250				
	1/4"	1430	1500	1650			1700				
	5/16"		1200	1300			1350				
	3/8"		1000	1100			1100	1200			
	1/2"		750	825		1550	850	925			1750
	5/8"			650	930	1200	675			1000	1350
	3/4"			550	775	1000			725		1100
7/8"									750	1000	

BRASS FLARE FITTINGS

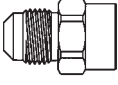
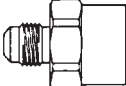
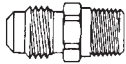
	Part No.	Description	Pack Qty	Pack Weight	List Price Each
FLARE PLUG					
	39-4	For 1/4" O.D. Tube	10	1/4 lb.	.88
	39-5	For 5/16" O.D. Tube	10	1/4 lb.	2.31
	39-6	For 3/8" O.D. Tube	10	3/4 lb.	1.16
	39-8	For 1/2" O.D. Tube	10	1 lb.	1.92
	39-10	For 5/8" O.D. Tube	10	1-1/2 lb.	3.18
FLARE CAP					
	40-3	3/16" O.D. Tube	10	1/4 lb.	1.52
	40-4	1/4" O.D. Tube	5	1/4 lb.	.66
	40-5	5/16" O.D. Tube	10	1/4 lb.	1.98
	40-6	3/8" O.D. Tube	10	1/2 lb.	1.01
	40-8	1/2" O.D. Tube	10	3/4 lb.	1.26
	40-10	5/8" O.D. Tube	5	1/2 lb.	2.62
FLARE NUT — SHORT					
	41S-2	1/8" O.D. Tube	10	1/4 lb.	.76
	41S-3	3/16" O.D. Tube	10	1/4 lb.	.68
	41S-4	1/4" O.D. Tube	10	1/2 lb.	.68
	41S-5	5/16" O.D. Tube	10	1/2 lb.	.81
	41S-6	3/8" O.D. Tube	10	1/2 lb.	1.06
	41S-7	7/16" O.D. Tube	10	3/4 lb.	2.99
	41S-8	1/2" O.D. Tube	10	1 lb.	1.58
	41S-10	5/8" O.D. Tube	5	1/2 lb.	2.20
	41S-12	3/4" O.D. Tube	10	1-3/4 lb.	7.35
	41S-14	7/8" O.D. Tube	10	4 lb.	10.26
	41S-6X	3/8" O.D. Tube	10	1-1/2 lb.	1.87
	41S-8X	1/2" O.D. Tube	10	1-1/4 lb.	2.42
	X - Designates Heavy Pattern				
FORGED REFRIGERATION NUT — SHORT					
	141S-4	1/4" O.D. Tube	10	1/2 lb.	2.42
	141S-5	5/16" O.D. Tube	10	1/2 lb.	4.26
	141S-6	3/8" O.D. Tube	10	3/4 lb.	1.77
	141S-8	1/2" O.D. Tube	10	1 lb.	2.42
	141S-10	5/8" O.D. Tube	10	1-1/2 lb.	4.63
	141S-12	3/4" O.D. Tube	10	1-1/2 lb.	10.74
	141S-14	7/8" O.D. Tube	5	1 lb.	16.92
FORGED REFRIGERATION REDUCING NUT — SHORT					
	141S-6-4	3/8" O.D. Tube x 1/4" O.D. Tube	10	3/4 lb.	2.49
	141S-8-6	1/2" O.D. Tube 3/8" O.D. Tube	10	3/4 lb.	3.15
	141S-10-8	5/8" O.D. Tube 1/2" O.D. Tube	10	1-1/2 lb.	4.87
FLARE NUT — LONG					
	41L-4	1/4" O.D. Tube	10	1/2 lb.	.96
	41L-5	5/16" O.D. Tube	10	1/2 lb.	1.74
	41L-6	3/8" O.D. Tube	10	3/4 lb.	2.09
	41L-8	1/2" O.D. Tube	10	3/4 lb.	3.34
	41L-10	5/8" O.D. Tube	10	1-1/4 lb.	5.83

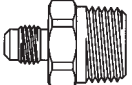
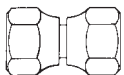
	Part No.	Description	Pack Qty	Pack Weight	List Price Each	
FORGED REFRIGERATION NUT — LONG						
	141L-6 B	3/8" O.D. Tube	10	1/2 lb.	3.11	
	141L-8	1/2" O.D. Tube	10	3/4 lb.	4.56	
	141L-10	5/8" O.D. Tube	10	1 lb.	8.11	
FLARE UNION						
	42-2	1/8" O.D. Tube Both Ends	10	1/8 lb.	1.48	
	42-3	3/16" O.D. Tube Both Ends	10	1/4 lb.	1.37	
	42-4	1/4" O.D. Tube Both Ends	10	1/4 lb.	.94	
	42-5	5/16" O.D. Tube Both Ends	10	1/2 lb.	1.70	
	42-6	3/8" O.D. Tube Both Ends	10	3/4 lb.	1.58	
	42-8	1/2" O.D. Tube Both Ends	10	1-1/4 lb.	2.35	
	42-10	5/8" O.D. Tube Both Ends	5	1 lb.	3.78	
	42-12	3/4" O.D. Tube Both Ends	5	1-1/2 lb.	10.53	
	42-14	7/8" O.D. Tube Both Ends	5	2-1/2 lb.	21.45	
	FLARE REDUCING UNION					
		42-6-4	3/8" O.D. Tube x 1/4" O.D. Tub	10	3/4 lb.	1.74
		42-6-5	3/8" O.D. Tube x 5/16" O.D. Tube	10	3/4 lb.	3.84
		42-8-4	1/2" O.D. Tube x 1/4" O.D. Tube	10	3/4 lb.	4.41
		42-8-6	1/2" O.D. Tube x 3/8" O.D. Tube	10	3/4 lb.	2.58
42-10-6		5/8" O.D. Tube x 3/8" O.D. Tube	5	3/4 lb.	4.26	
42-10-8		5/8" O.D. Tube x 1/2" O.D. Tube	5	3/4 lb.	4.34	
42-12-10		3/4" O.D. Tube x 5/8" O.D. Tube	5	1-1/2 lb.	17.17	

Note: For sizes not shown, please ask for a special quotation. All flare fittings sold are priced less nuts.

To order flare fittings with nuts assembled, add suffix **WN** and refer to note on page 8.

BRASS FLARE FITTINGS

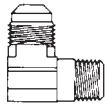
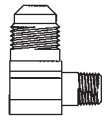
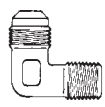
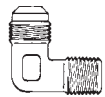
	Part No.	Description	Pack Qty	Pack Weight	List Price Each
FLARE FEMALE ADAPTOR					
	46-4-4	1/4" O.D. Tube x 1/4" F.I.P.	10	1/2 lb.	1.38
	46-6-6	3/8" O.D. Tube x 3/8" F.I.P.	10	3/4 lb.	1.78
	46-8-8	1/2" O.D. Tube x 1/2" F.I.P.	10	3 lb.	2.55
	46-12-12	3/4" O.D. Tube x 3/4" F.I.P.	5	1-1/2 lb.	11.72
FLARE FEMALE REDUCING ADAPTOR					
	46-3-2	3/16" O.D. Tube x 1/8" F.I.P.	10	1/4 lb.	1.95
	46-4-2	1/4" O.D. Tube x 1/8" F.I.P.	10	1/4 lb.	1.01
	46-4-6	1/4" O.D. Tube x 3/8" F.I.P.	10	1/2 lb.	2.95
	46-4-8	1/4" O.D. Tube x 1/2" F.I.P.	10	3/4 lb.	6.17
	46-5-4	5/16" O.D. Tube x 1/4" F.I.P.	10	1-1/4 lb.	2.48
	46-6-2	3/8" O.D. Tube x 1/8" F.I.P.	10	3/4 lb.	2.26
	46-6-4	3/8" O.D. Tube x 1/4" F.I.P.	10	3/4 lb.	1.48
	46-6-8	3/8" O.D. Tube x 1/2" F.I.P.	10	1 lb.	2.30
	46-6-12	3/8" O.D. Tube x 3/4" F.I.P.	10	1-1/2 lb.	3.50
	46-8-4	1/2" O.D. Tube x 1/4" F.I.P.	10	3/4 lb.	2.70
	46-8-6	1/2" O.D. Tube x 3/8" F.I.P.	10	1 lb.	2.14
	46-8-12	1/2" O.D. Tube x 3/4" F.I.P.	10	1-1/2 lb.	3.86
	46-10-6	5/8" O.D. Tube x 3/8" F.I.P.	5	1-3/4 lb.	3.87
	46-10-8	5/8" O.D. Tube x 1/2" F.I.P.	10	1-1/2 lb.	3.04
	46-10-12	5/8" O.D. Tube x 3/4" F.I.P.	10	1-1/2 lb.	4.04
	46-12-8	3/4" O.D. Tube x 1/2" F.I.P.	5	2-1/4 lb.	11.64
	46-14-12	7/8" O.D. Tube x 3/4" F.I.P.	5	1 lb.	16.63
	FLARE MALE ADAPTOR				
	48-2-2	1/8" O.D. Tube x 1/8" M.I.P.	10	1/4 lb.	1.87
	48-4-4	1/4" O.D. Tube x 1/4" M.I.P.	10	1/2 lb.	1.02
	48-6-6	3/8" O.D. Tube x 3/8" M.I.P.	10	1 lb.	1.53
	48-8-8	1/2" O.D. Tube x 1/2" M.I.P.	10	1-1/2 lb.	2.49
	48-12-12	3/4" O.D. Tube x 3/4" M.I.P.	5	1-1/2 lb.	7.59

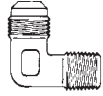

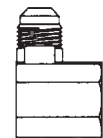
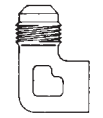
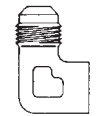
	Part No.	Description	Pack Qty	Pack Weight	List Price Each
FLARE MALE REDUCING ADAPTOR					
	48-3-2	3/16" O.D. Tube x 1/8" M.I.P.	10	1/4 lb.	.90
	48-3-4	3/16" O.D. Tube x 1/4" M.I.P.	10	1/4 lb.	2.60
	48-4-2	1/4" O.D. Tube x 1/8" M.I.P.	10	1/4 lb.	.73
	48-4-6	1/4" O.D. Tube x 3/8" M.I.P.	10	1/2 lb.	1.91
	48-4-8	1/4" O.D. Tube x 1/2" M.I.P.	10	3/4 lb.	3.87
	48-5-2	5/16" O.D. Tube x 1/8" M.I.P.	10	1/2 lb.	1.30
	48-5-4	5/16" O.D. Tube x 1/4" M.I.P.	10	1/2 lb.	1.59
	48-6-2	3/8" O.D. Tube x 1/8" M.I.P.	10	1/2 lb.	1.48
	48-6-4	3/8" O.D. Tube x 1/4" M.I.P.	10	1/2 lb.	1.39
	48-6-8	3/8" O.D. Tube x 1/2" M.I.P.	10	1-1/4 lb.	2.32
	48-6-12	3/8" O.D. Tube x 3/4" M.I.P.	10	1-3/4 lb.	3.87
	48-8-4	1/2" O.D. Tube x 1/4" M.I.P.	10	1 lb.	2.35
	48-8-6	1/2" O.D. Tube x 3/8" M.I.P.	10	1-1/4 lb.	2.26
	48-8-12	1/2" O.D. Tube x 3/4" M.I.P.	10	1-3/4 lb.	3.86
	48-10-4	5/8" O.D. Tube x 1/4" M.I.P.	10	1-1/4 lb.	5.62
	48-10-6	5/8" O.D. Tube x 3/8" M.I.P.	5	3/4 lb.	3.17
	48-10-8	5/8" O.D. Tube x 1/2" M.I.P.	5	3/4 lb.	2.88
	48-10-12	5/8" O.D. Tube x 3/4" M.I.P.	10	1-1/2 lb.	4.27
48-12-8	3/4" O.D. Tube x 1/2" M.I.P.	5	1-1/2 lb.	7.59	
48-14-12	7/8" O.D. Tube x 3/4" M.I.P.	5	1-3/4 lb.	18.47	
FORGED SWIVEL NUT UNION VALVE CONNECTOR					
	114FSV-4	1/4" O.D. Tube x 1/4" O.D. Tube	10	1 lb.	6.26
	114FSV-6	3/8" O.D. Tube x 3/8" O.D. Tube	10	1-1/2 lb.	5.55
	114FSV-8	1/2" O.D. Tube x 1/2" O.D. Tube	10	2-1/2 lb.	6.91
	114FSV-10	5/8" O.D. Tube x 5/8" O.D. Tube	5	1-3/4 lb.	11.96

Note: For sizes not shown, please ask for a special quotation. All flare fittings sold are priced less nuts.

To order flare fittings with nuts assembled, add suffix **WN** and refer to note on page 8.

BRASS FLARE FITTINGS

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
FLARE MALE ELBOW ADAPTOR					
	49-4-4	1/4" O.D. Tube x 1/4" M.I.P.	10	3/4 lb.	2.82
	49-6-6	3/8" O.D. Tube x 3/8" M.I.P.	10	1 lb.	3.11
	49-8-8	1/2" O.D. Tube x 1/2" M.I.P.	10	1-1/4 lb.	4.97
FLARE MALE REDUCING ELBOW ADAPTOR					
	49-3-2	3/16" O.D. Tube x 1/8" M.I.P.	10	1/4 lb.	2.71
	49-4-2	1/4" O.D. Tube x 1/8" M.I.P.	10	1/4 lb.	2.60
	49-4-6	1/4" O.D. Tube x 3/8" M.I.P.	10	3/4 lb.	3.31
	49-5-2	5/16" O.D. Tube x 1/8" M.I.P.	10	1/2 lb.	2.72
	49-5-4	5/16" O.D. Tube x 1/4" M.I.P.	10	3/4 lb.	2.86
	49-6-2	3/8" O.D. Tube x 1/8" M.I.P.	10	3/4 lb.	3.05
	49-6-4	3/8" O.D. Tube x 1/4 M.I.P.	10	3/4 lb.	2.99
	49-6-8	3/8" O.D. Tube x 1/2" M.I.P.	10	3/4 lb.	4.00
	49-8-4	1/2" O.D. Tube x 1/4" M.I.P.	10	3/4 lb.	4.04
	49-8-6	1/2" O.D. Tube x 3/8" M.I.P.	10	3/4 lb.	4.07
	49-10-8	5/8" O.D. Tube x 1/2" M.I.P.	5	3/4 lb.	5.93
FORGED FLARE MALE ELBOW ADAPTOR*					
	149-4-4	1/4" O.D. Tube x 1/4" M.I.P.	10	1/2 lb.	3.59
	149-6-6	3/8" O.D. Tube x 3/8" M.I.P.	10	3/4 lb.	4.48
	149-8-8	1/2" O.D. Tube x 1/2" M.I.P.	10	1 lb.	6.15
FORGED FLARE MALE REDUCING ELBOW ADAPTOR*					
	149-3-2	3/16" O.D. Tube x 1/8" M.I.P.	10	1/4 lb.	4.46
	149-4-2	1/4" O.D. Tube x 1/8" M.I.P.	10	1/4 lb.	2.95
	149-4-6	1/4" O.D. Tube x 3/8" M.I.P.	10	3/4 lb.	4.18
	149-4-8	1/4" O.D. Tube x 1/2" M.I.P.	10	1 lb.	6.05
	149-5-2	5/16" O.D. Tube x 1/8" M.I.P.	10	1/2 lb.	2.90
	149-6-2	3/8" O.D. Tube x 1/8" M.I.P.	10	3/4 lb.	4.06

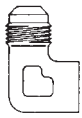
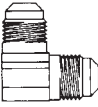
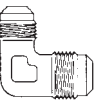
	Part No.	Description	Pack Qty	Pack Weight	List Price Each
FORGED FLARE MALE REDUCING ELBOW ADAPTOR* (CONT.)					
	149-6-4	3/8" O.D. Tube x 1/4" M.I.P.	10	1 lb.	3.75
	149-6-8	3/8" O.D. Tube x 1/2" M.I.P.	10	1-1/4 lb.	5.61
	149-6-12	3/8" O.D. Tube x 3/4" M.I.P.	10	1-3/4 lb.	8.85
	149-8-4	1/2" O.D. Tube x 1/4" M.I.P.	10	1 lb.	5.97
	149-8-6	1/2" O.D. Tube x 3/8" M.I.P.	10	2 lb.	5.84
	149-8-12	1/2" O.D. Tube x 3/4" M.I.P.	10	2-1/4 lb.	10.28
	149-10-6	5/8" O.D. Tube x 3/8" M.I.P.	10	2-1/4 lb.	8.56
	149-10-8	5/8" O.D. Tube x 1/2" M.I.P.	5	1 lb.	8.46
149-10-12	5/8" O.D. Tube x 3/4" M.I.P.	5	1-1/2 lb.	11.21	
149-12-8	3/4" O.D. Tube x 1/2" M.I.P.	10	3-1/4 lb.	15.94	
FLARE FEMALE ELBOW ADAPTOR					
	50-6-6	3/8" O.D. Tube x 3/8" F.I.P.	10	1 lb.	3.58
FLARE FEMALE REDUCING ELBOW ADAPTOR					
	50-6-8	3/8" O.D. Tube x 1/2" F.I.P.	10	1-1/2 lb.	4.47
	50-10-8	5/8" O.D. Tube x 1/2" F.I.P.	5	2 lb.	5.69
	50-10-12	5/8" O.D. Tube x 3/4" F.I.P.	5	2 lb.	7.47
FORGED FLARE FEMALE ELBOW ADAPTOR*					
	150-4-4	1/4" O.D. Tube x 1/4" F.I.P.	10	2-1/2 lb.	4.72
	150-6-6	3/8" O.D. Tube x 3/8" F.I.P.	10	2-3/4 lb.	5.12
	150-8-8	1/2" O.D. Tube x 1/2" F.I.P.	10	3-3/4 lb.	7.36
FORGED FLARE FEMALE REDUCING ELBOW ADAPTOR*					
	150-4-2	1/4" O.D. Tube x 1/8" F.I.P.	10	3/4 lb.	5.67

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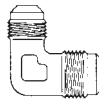
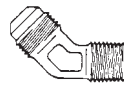
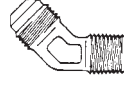
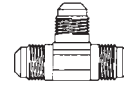
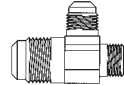

To order flare fittings with nuts assembled, add suffix **WN** and refer to note on page 8.

BRASS FLARE FITTINGS

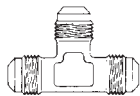
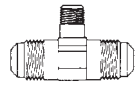
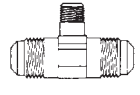
	Part No.	Description	Pack Qty	Pack Weight	List Price Each
FORGED FLARE FEMALE REDUCING ELBOW ADAPTOR					
	150-6-4	3/8" O.D. Tube x 1/4" F.I.P.	10	3/4 lb.	4.63
	150-6-8	3/8" O.D. Tube x 1/2" F.I.P.	10	1 lb.	6.39
	150-6-12	3/8" O.D. Tube x 3/4" F.I.P.	10	1-1/2 lb.	8.32
	150-8-6	1/2" O.D. Tube x 3/8" F.I.P.	10	1 lb.	6.34
	150-8-12	1/2" O.D. Tube x 3/4" F.I.P.	10	2 lb.	8.71
	150-10-6	5/8" O.D. Tube x 3/8" F.I.P.	10	2 lb.	10.58
	150-10-8	5/8" O.D. Tube x 1/2" F.I.P.	10	2 lb.	10.58
	150-10-12	5/8" O.D. Tube x 3/4" F.I.P.	10	2-1/4 lb.	10.12
FLARE ELBOW UNION					
	55-3 B	3/16" O.D. Tube Both Ends	10	1/4 lb.	3.31
	55-4	1/4" O.D. Tube Both Ends	10	1/4 lb.	2.32
	55-6	3/8" O.D. Tube Both Ends	10	1/2 lb.	3.31
	55-8	1/2" O.D. Tube Both Ends	10	3/4 lb.	4.26
	55-10	5/8" O.D. Tube Both Ends	5	1 lb.	5.85
FORGED FLARE ELBOW UNION*					
	155-4	1/4" O.D. Tube Both Ends	10	1/4 lb.	3.04
	155-6	3/8" O.D. Tube Both Ends	10	1/2 lb.	4.28
	155-8	1/2" O.D. Tube Both Ends	10	3/4 lb.	6.20
	155-10	5/8" O.D. Tube Both Ends	10	1 lb.	9.09

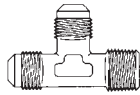
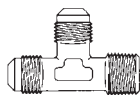
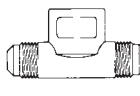

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To order flare fittings with nuts assembled, add suffix **WN** and refer to note on page 8.

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
FORGED FLARE REDUCING ELBOW UNION*					
	155-8-6	1/2" O.D. Tube x 3/8" O.D. Tube	10	1-1/4 lb.	6.88
	155-10-8	5/8" O.D. Tube x 1/2" O.D. Tube	5	1 lb.	9.85
FORGED FLARE MALE 45° ELBOW ADAPTOR					
	159-4-4	1/4" O.D. Tube x 1/4" M.I.P.	10	1-1/2 lb.	4.73
	159-6-6	3/8" O.D. Tube x 3/8" M.I.P.	10	2 lb.	5.55
FORGED FLARE MALE REDUCING 45° ELBOW ADAPTOR					
	159-4-2	1/4" O.D. Tube x 1/8" M.I.P.	10	1/2 lb.	3.74
	159-6-4	3/8" O.D. Tube x 1/4" M.I.P.	10	3/4 lb.	4.42
	159-8-6	1/2" O.D. Tube x 3/8" M.I.P.	10	1-1/4 lb.	5.83
159-10-8	5/8" O.D. Tube x 1/2" M.I.P.	10	2 lb.	9.55	
FLARE TEE UNION					
	44-3	3/16" O.D. Tube 3 Ends	10	1/2 lb.	3.34
	44-4	1/4" O.D. Tube 3 Ends	10	3/4 lb.	2.99
	44-5	5/16" O.D. Tube 3 Ends	10	1 lb.	3.58
	44-6	3/8" O.D. Tube 3 Ends	10	1-3/4 lb.	3.89
	44-8	1/2" O.D. Tube 3 Ends	10	2-3/4 lb.	5.87
	44-10	5/8" O.D. Tube 3 Ends	5	2 lb.	7.45
FLARE REDUCING TEE UNION					
	44-6-6-8	3/8" O.D. Tube x 3/8" O.D. Tube x 1/2" O.D. Tube	10	1-1/2 lb.	4.98
	44-8-6-6	1/2" O.D. Tube x 3/8" O.D. Tube x 3/8" O.D. Tube	10	1-1/2 lb.	5.04
	44-8-6-8	1/2" O.D. Tube x 3/8" O.D. Tube x 1/2" O.D. Tube	10	1-3/4 lb.	5.14
	44-8-8-6	1/2" O.D. Tube x 1/2" O.D. Tube x 3/8" O.D. Tube	10	1-3/4 lb.	5.29
	44-10-10-8	5/8" O.D. Tube x 5/8" O.D. Tube x 1/2" O.D. Tube	10	2-1/4 lb.	7.59
FORGED FLARE TEE UNION					
	144-4	1/4" O.D. Tube 3 Ends	10	3/4 lb.	3.87
	144-6	3/8" O.D. Tube 3 Ends	10	1-1/4 lb.	5.14
	144-8	1/2" O.D. Tube 3 Ends	10	2-3/4 lb.	7.87
	144-10	5/8" O.D. Tube 3 Ends	10	3-3/4 lb.	12.20

BRASS FLARE FITTINGS

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
FORGED FLARE REDUCING TEE UNION					
	144-6-6-4	3/8" O.D. Tube x 3/8" O.D. Tube x 1/4" O.D. Tube	10	1-1/4 lb.	5.96
	144-8-6-6	1/2" O.D. Tube x 3/8" O.D. Tube x 3/8" O.D. Tube	10	1-3/4 lb.	7.87
	144-8-6-8	1/2" O.D. Tube x 3/8" O.D. Tube x 1/2" O.D. Tube	10	1-3/4 lb.	8.24
	144-8-8-6	1/2" O.D. Tube x 1/2" O.D. Tube x 3/8" O.D. Tube	10	2 lb.	7.96
	144-8-8-10	1/2" O.D. Tube x 1/2" O.D. Tube x 5/8" O.D. Tube	5	1-1/2 lb.	14.13
	144-10-10-6	5/8" O.D. Tube x 5/8" O.D. Tube x 3/8" O.D. Tube	5	1-1/2 lb.	10.00
	144-10-10-8	5/8" O.D. Tube x 5/8" O.D. Tube x 1/2" O.D. Tube	5	1-1/2 lb.	10.43
	FORGED FLARE MALE TEE ADAPTOR (w/M.I.P. THREAD ON BRANCH*)				
	145-4-4	1/4" O.D. Tube x 1/4" O.D. Tube x 1/4" M.I.P.	10	3/4 lb.	4.72
	145-6-6	3/8" O.D. Tube x 3/8" O.D. Tube x 3/8" M.I.P.	10	1-1/4 lb.	6.63
	145-8-8	1/2" O.D. Tube x 1/2" O.D. Tube x 1/2" M.I.P.	10	2-1/4 lb.	11.11
FORGED FLARE MALE REDUCING TEE ADAPTOR (w/M.I.P. THREAD ON BRANCH*)					
	145-4-2	1/4" O.D. Tube x 1/4" O.D. Tube x 1/8" M.I.P.	10	1/2 lb.	3.90
	145-6-4	3/8" O.D. Tube x 3/8" O.D. Tube x 1/4" M.I.P.	10	1-1/4 lb.	5.37
	145-6-8	3/8" O.D. Tube x 3/8" O.D. Tube x 1/2" M.I.P.	10	2-1/4 lb.	10.77
	145-8-6	1/2" O.D. Tube x 1/2" O.D. Tube x 3/8" M.I.P.	10	1-3/4 lb.	8.12
	145-10-8	5/8" O.D. Tube x 5/8" O.D. Tube x 1/2" M.I.P.	5	1-1/4 lb.	13.71



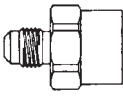
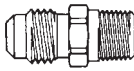
	Part No.	Description	Pack Qty	Pack Weight	List Price Each
FORGED FLARE MALE TEE ADAPTOR (w/M.I.P. THREAD ON RUN*)					
	151-4-4	1/4" O.D. Tube x 1/4" M.I.P. x 1/4" O.D. Tube	10	1 lb.	4.00
	151-6-6	3/8" O.D. Tube x 3/8" M.I.P. x 3/8" O.D. Tube	10	1-1/2 lb.	6.31
	151-8-8	1/2" O.D. Tube x 1/2" M.I.P. x 1/2" O.D. Tube	10	2-1/4 lb.	12.50
FORGED FLARE MALE REDUCING TEE ADAPTOR (w/M.I.P. THREAD ON RUN*)					
	151-6-4	3/8" O.D. Tube x 1/4" M.I.P. x 3/8" O.D. Tube	10	1 lb.	4.78
FORGED FLARE FEMALE REDUCING TEE ADAPTOR (w/F.I.P. THREAD ON BRANCH*)					
	136-6-8	3/8" O.D. Tube x 3/8" O.D. Tube x 1/2" F.I.P.	10	2 lb.	12.03
FLARE BONNET					
	FB-5	For 5/16" O.D. Tube	10	1/8 lb.	.72
	FB-6	For 3/8" O.D. Tube	10	1/8 lb.	.73
	FB-8	For 1/2" O.D. Tube	10	1/4 lb.	.90

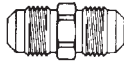
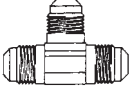
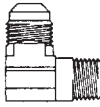
* Extruded flare elbows, tees & crosses are available. Prices on request.

Note: For sizes not shown, please ask for a special quotation. All flare fittings sold are priced less nuts.

To order flare fittings with nuts assembled, add suffix **WN** and refer to note on page 8.

9/16-24 FINE THREAD BRASS FLARE FITTINGS

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
9/16-24 FINE THREAD FLARE NUT					
	F0-6	3/8" O.D. Tube	10	1/2 lb.	.91
	F0-6-4 R	3/8" O.D. Tube x 1/4" O.D. Tube. Reducing Flare Nut	10	1/2 lb.	1.25
	F0-8	1/2" O.D. Tube	10	1/2 lb.	1.77
9/16-24 FINE THREAD FLARE CAP					
	FC-6	3/8" O.D. Tube	10	1/4 lb.	1.02
9/16-24 FINE THREAD FEMALE ADAPTOR*					
	F10-6	3/8" O.D. Tube x 3/8" F.I.P.	10	1/2 lb.	2.07
	F12-6-8	3/8" O.D. Tube x 1/2" F.I.P.	10	1/2 lb.	2.44
9/16-24 FINE THREAD MALE ADAPTOR*					
	FRC11-6	3/8" O.D. Tube x 3/8" M.I.P. (Tapped 1/8" F.I.P.)	10	1/2 lb.	1.71
	FRC13-6-8	3/8" O.D. Tube x 1/2" M.I.P. (Tapped 3/8" F.I.P.)	10	3/4 lb.	2.40

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
9/16-24 FINE THREAD FLARE UNION*					
	FU3-6	3/8" O.D. Tube Both Ends	10	3/4 lb.	2.61
9/16-24 FINE THREAD FLARE TEE UNION*					
	FT3-6	3/8" O.D. Tube 3 Ends	10	1-1/2 lb.	6.92
9/16-24 FINE THREAD FLARE MALE ELBOW ADAPTOR*					
	FRC16-6	3/8" O.D. Tube x 3/8" M.I.P.	10	1 lb.	3.75
	FRC18-6-8	3/8" O.D. Tube x 1/2" M.I.P.	10	1-1/2 lb.	5.40

* For use with F0-6 (9/16 - 24) flare nut

Note: For sizes not shown, please ask for a special quotation. All flare fittings sold are priced less nuts.

To order flare fittings with nuts assembled, add suffix **WN**.

To determine list price, add the price(s) of the specified nut(s) to the price of the fitting, and an additional 2.7 cents **per nut**.

BRASS COMPRESSION FITTINGS

PRODUCT APPLICATIONS

- For use with instrumentation, hydraulic and pneumatic systems.
- Designed to be used with aluminum, copper and plastic tubing. Not recommended for steel tubing. Plastic tubing requires 63PT insert and 60PT sleeve.

PRODUCT ADVANTAGES

- BrassCraft Compression Fittings do not require any flaring, soldering or other type of tubing preparation.
- Available in a broad range of sizes and styles.
- Low cost.
- Manufactured from CA 360, CA 345 or CA 377 brass rod.
- Backed by BrassCraft's 60-year history and reputation for quality and service.

WORKING PRESSURE RANGES

- Operating temperatures and tubing type are important factors. The following table (73° F temperature with copper tubing) is a good guide to use for proper selection.

PSI	Tube O.D. (IN.)	Tube Wall (IN.)
400	1/8	.030
400	3/16	.030
300	1/4	.030
300	5/16	.032
200	3/8	.032
200	1/2	.032
150	5/8	.035
100	3/4	.035
75	7/8	.035

TEMPERATURE RANGE

- -65°F to 250°F at maximum operating pressures.

VIBRATION

- Fair vibration resistance.

HOW TO ORDER



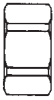


- BrassCraft Compression Fittings are ordered as complete assemblies (body, nut, sleeve). Nuts and sleeves can be ordered by part number.

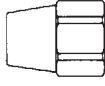
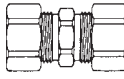
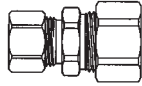
ASSEMBLY INSTRUCTIONS

1. For use with type L or M copper only. A drop of oil or thread sealant will make tightening easier. If using a drop of oil or thread sealant, be sure that threads are clean of any debris and that sealant is also free of any metal debris. DO NOT USE a "PUTTY" or gasket type material.
2. Cut tubing to required length.
3. Slide nut and then sleeve onto tubing. Threaded end of nut must face toward fitting.
4. Insert tubing into fitting body, making sure tubing is bottomed on fitting shoulder.
5. Assemble nut to fitting body, hand tighten.
6. Tighten with a wrench the number of turns indicated below:

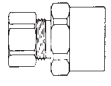
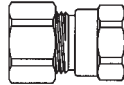
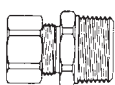
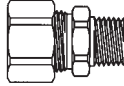
Tube Size	Additional Turns from Hand Tight
1/8" thru 1/4"	1-1/4
5/16"	1-3/4
3/8" thru 1"	2-1/4

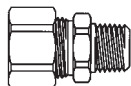
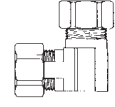
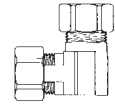
BRASS COMPRESSION FITTINGS

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
COMPRESSION PLUG					
	CSP-4	For 1/4" O.D. Tube	10	1/8 lb.	1.58
	CSP-6	For 3/8" O.D. Tube	10	1/8 lb.	1.74
	CSP-8	For 1/2" O.D. Tube	10	1/8 lb.	1.83
	CSP-10	For 5/8" O.D. Tube	10	1/8 lb.	1.97
COMPRESSION SLEEVE					
	60-2	For 1/8" O.D. Tube	10	1/16 lb.	.22
	60-3	For 3/16" O.D. Tube	10	1/16 lb.	.22
	60-4	For 1/4" O.D. Tube	10	1/8 lb.	.08
	60-5	For 5/16" O.D. Tube	10	1/8 lb.	.23
	60-6	For 3/8" O.D. Tube	10	1/8 lb.	.46
	60-7	For 7/16" O.D. Tube	10	1/8 lb.	.51
	60-8	For 1/2" O.D. Tube	10	1/8 lb.	.61
	60-10	For 5/8" O.D. Tube	5	1/16 lb.	.77
	60-12	For 3/4" O.D. Tube	5	1/4 lb.	1.06
	60-14	For 7/8" O.D. Tube	5	1/4 lb.	1.61
COMPRESSION NUT					
	61-2	1/8" O.D. Tube	10	1/8 lb.	.32
	61-3	3/16" O.D. Tube	10	1/8 lb.	.34
	61-4	1/4" O.D. Tube	10	1/8 lb.	.33
	61-5	5/16" O.D. Tube	10	1/8 lb.	.49
	61-6	3/8" O.D. Tube	10	1/8 lb.	.54
	61-7	7/16" O.D. Tube	10	1/8 lb.	.98
	61-8	1/2" O.D. Tube	10	1/8 lb.	.95
	61-10	5/8" O.D. Tube	5	1/4 lb.	1.67
	61-12	3/4" O.D. Tube	10	3/4 lb.	3.06
	61-14	7/8" O.D. Tube	5	3/4 lb.	2.87
COMPRESSION NUT w/CAPTIVE BRASS SLEEVE*					
	61CA-2	1/8" O.D. Tube	10	1/4 lb.	1.34
	61CA-3 B	3/16" O.D. Tube	10	1/4 lb.	1.44
	61CA-4	1/4" O.D. Tube	10	1/2 lb.	1.10
	61CA-5	5/16" O.D. Tube	10	1/2 lb.	1.95
	61CA-6	3/8" O.D. Tube	10	3/4 lb.	1.13
	61CA-8	1/2" O.D. Tube	10	1 lb.	2.07
<p>*FEATURES:</p> <ol style="list-style-type: none"> 1. A two-piece fitting (with captive sleeve), the nut and sleeve act as one part. 2. Can be used with standard compression fittings—unions, elbows and tees. There is no need to disassemble fittings for installation. 3. Can be used with copper, brass, aluminum and plastic tubing. 4. 360° pressure on sleeve assures even seal and positive alignment. The extra length of the sleeve and its retention in the nut eliminate cocking of the sleeve. 5. Allow 60 day delivery on 61CA-10 and larger sizes. 					
COMPRESSION CAP					
	61CP-4	1/4" O.D. Tube	10	1/2 lb.	1.62
	61CP-6	3/8" O.D. Tube	10	1/2 lb.	1.10
	61CP-8	1/2" O.D. Tube	10	1/2 lb.	1.99
	61CP-10	5/8" O.D. Tube	10	3/4 lb.	2.35

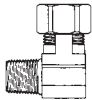

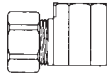
	Part No.	Description	Pack Qty	Pack Weight	List Price Each	
COMPRESSION NUT — LONG						
	61L-4	1/4" O.D. Tube	10	1/4 lb.	1.03	
	61L-6	3/8" O.D. Tube	10	1/4 lb.	1.25	
COMPRESSION UNION						
	62-2	1/8" O.D. Tube Both Ends	10	1/4 lb.	2.00	
	62-3	3/16" O.D. Tube Both Ends	10	1/4 lb.	1.92	
	62-4	1/4" O.D. Tube Both Ends	10	1/4 lb.	2.01	
	62-5	5/16" O.D. Tube Both Ends	10	1/2 lb.	2.58	
	62-6	3/8" O.D. Tube Both Ends	10	1 lb.	2.60	
	62-7	7/16" O.D. Tube Both Ends	10	1-1/2 lb.	5.68	
	62-8	1/2" O.D. Tube Both Ends	10	1-3/4 lb.	4.00	
	62-10	5/8" O.D. Tube Both Ends	10	2 lb.	4.43	
	62-12	3/4" O.D. Tube Both Ends	10	4 lb.	13.97	
	62-14	7/8" O.D. Tube Both Ends	10	4-1/4 lb.	14.12	
	COMPRESSION REDUCING UNION					
		62-4-2	1/4" O.D. Tube x 1/8" O.D. Tube	10	3/4 lb.	2.84
		62-4-3	1/4" O.D. Tube x 3/16" O.D. Tube	10	3/4 lb.	2.75
		62-5-4	5/16" O.D. Tube x 1/4" O.D. Tube	10	3/4 lb.	5.67
62-6-4		3/8" O.D. Tube x 1/4" O.D. Tube	10	3/4 lb.	3.59	
62-6-5		3/8" O.D. Tube x 5/16" O.D. Tube	10	3/4 lb.	7.41	
62-8-6		1/2" O.D. Tube x 3/8" O.D. Tube	10	1 lb.	6.72	
62-8-6 C		1/2" O.D. Tube x 3/8" O.D. Tube - Copper	10	1 lb.	20.14	
62-10-6		5/8" O.D. Tube x 3/8" O.D. Tube	10	1-1/4 lb.	4.48	
62-10-8		5/8" O.D. Tube x 1/2" O.D. Tube	5	3/4 lb.	6.83	


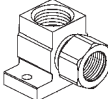
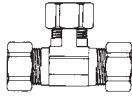
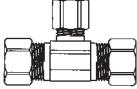
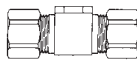
BRASS COMPRESSION FITTINGS

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
COMPRESSION FEMALE ADAPTOR					
	66-2-2	1/8" O.D. Tube x 1/8" F.I.P.	10	1/4 lb.	1.55
	66-4-4	1/4" O.D. Tube x 1/4" F.I.P.	10	1/2 lb.	2.35
	66-6-6	3/8" O.D. Tube x 3/8" F.I.P.	10	3/4 lb.	2.39
	66-8-8	1/2" O.D. Tube x 1/2" F.I.P.	10	1 lb.	4.03
	66-12-12	3/4" O.D. Tube x 3/4" F.I.P.	10	1-1/4 lb.	15.88
COMPRESSION FEMALE REDUCING ADAPTOR					
	66-3-2	3/16" O.D. Tube x 1/8" F.I.P.	10	1/4 lb.	1.98
	66-3-4	3/16" O.D. Tube x 1/4" F.I.P.	10	1/2 lb.	4.19
	66-4-2	1/4" O.D. Tube x 1/8" F.I.P.	10	1/2 lb.	1.75
	66-4-6	1/4" O.D. Tube x 3/8" F.I.P.	10	3/4 lb.	2.89
	66-4-8	1/4" O.D. Tube x 1/2" F.I.P.	10	1/2 lb.	6.91
	66-5-4	5/16" O.D. Tube x 1/4" F.I.P.	10	3/4 lb.	2.96
	66-5-6	5/16" O.D. Tube x 3/8" F.I.P.	10	3/4 lb.	3.46
	66-6-2	3/8" O.D. Tube x 1/8" F.I.P.	10	1/2 lb.	2.39
	66-6-4	3/8" O.D. Tube x 1/4" F.I.P.	10	3/4 lb.	2.35
	66-6-8	3/8" O.D. Tube x 1/2" F.I.P.	10	3/4 lb.	2.99
	66-6-8 C	3/8" O.D. Tube x 1/2" F.I.P. Copper	10	3/4 lb.	8.96
	66-6-12	3/8" O.D. Tube x 3/4" F.I.P.	25	3-3/4 lb.	12.11
	66-8-4	1/2" O.D. Tube x 1/4" F.I.P.	10	1 lb.	6.81
	66-8-6	1/2" O.D. Tube x 3/8" F.I.P.	10	1 lb.	3.75
	66-8-12	1/2" O.D. Tube x 3/4" F.I.P.	25	2-1/2 lb.	10.26
	66-10-6	5/8" O.D. Tube x 3/8" F.I.P.	5	3/4 lb.	5.28
	66-10-8	5/8" O.D. Tube x 1/2" F.I.P.	5	3/4 lb.	4.73
	66-10-12	5/8" O.D. Tube x 3/4" F.I.P.	5	1/2 lb.	6.24
	66-12-8	3/4" O.D. Tube x 1/2" F.I.P.	5	1/2 lb.	13.06
	66-14-12	7/8" O.D. Tube x 3/4" F.I.P.	5	1 lb.	10.00
COMPRESSION MALE ADAPTOR					
	68-2-2	1/8" O.D. Tube x 1/8" M.I.P.	10	1/4 lb.	1.25
	68-4-4	1/4" O.D. Tube x 1/4" M.I.P.	10	1/2 lb.	1.62
	68-6-6	3/8" O.D. Tube x 3/8" M.I.P.	10	1-1/4 lb.	2.15
	68-8-8	1/2" O.D. Tube x 1/2" M.I.P.	10	2 lb.	3.21
	68-12-12	3/4" O.D. Tube x 3/4" M.I.P.	10	3-1/4 lb.	9.42
COMPRESSION MALE REDUCING ADAPTOR					
	68-3-2	3/16" O.D. Tube x 1/8" M.I.P.	10	1/4 lb.	1.29
	68-3-4	3/16" O.D. Tube x 1/4" M.I.P.	10	1/2 lb.	2.00
	68-4-2	1/4" O.D. Tube x 1/8" M.I.P.	10	1/2 lb.	1.34
	68-4-6	1/4" O.D. Tube x 3/8" M.I.P.	10	3/4 lb.	2.70
	68-4-8	1/4" O.D. Tube x 1/2" M.I.P.	10	1 lb.	4.41
	68-5-2	5/16" O.D. Tube x 1/8" M.I.P.	10	1/2 lb.	1.58
	68-5-4	5/16" O.D. Tube x 1/4" M.I.P.	10	3/4 lb.	1.78
	68-5-6	5/16" O.D. Tube x 3/8" M.I.P.	10	3/4 lb.	3.06

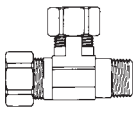
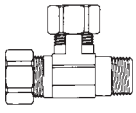

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
COMPRESSION MALE REDUCING ADAPTOR (CONT.)					
	68-6-2	3/8" O.D. Tube x 1/8" M.I.P.	10	1/2 lb.	1.87
	68-6-4	3/8" O.D. Tube x 1/4" M.I.P.	10	1/2 lb.	2.15
	68-6-8	3/8" O.D. Tube x 1/2" M.I.P.	10	1 lb.	2.95
	68-6-12	3/8" O.D. Tube x 3/4" M.I.P.	10	1-3/4 lb.	3.67
	68-7-4	7/16" O.D. Tube x 1/4" M.I.P.	10	3/4 lb.	4.27
	68-7-6	7/16" O.D. Tube x 3/8" M.I.P.	10	3/4 lb.	3.89
	68-8-4	1/2" O.D. Tube x 1/4" M.I.P.	10	1 lb.	2.78
	68-8-6	1/2" O.D. Tube x 3/8" M.I.P.	10	1-1/4 lb.	2.86
	68-8-12	1/2" O.D. Tube x 3/4" M.I.P.	10	2 lb.	4.82
	68-10-6	5/8" O.D. Tube x 3/8" M.I.P.	10	1-1/2 lb.	4.28
	68-10-8	5/8" O.D. Tube x 1/2" M.I.P.	10	2 lb.	3.70
	68-10-12	5/8" O.D. Tube x 3/4" M.I.P.	10	3 lb.	5.69
	68-12-8	3/4" O.D. Tube x 1/2" M.I.P.	10	2-3/4 lb.	9.30
	68-14-8	7/8" O.D. Tube x 1/2" M.I.P.	10	4 lb.	8.15
	68-14-12	7/8" O.D. Tube x 3/4" M.I.P.	10	2-1/4 lb.	9.00
	68-14-16	7/8" O.D. Tube x 1" M.I.P.	5	2-1/2 lb.	14.41
COMPRESSION ELBOW UNION					
	65-2	1/8" O.D. Tube Both Ends	10	1/4 lb.	4.28
	65-3	3/16" O.D. Tube Both Ends	10	1/2 lb.	4.34
	65-4	1/4" O.D. Tube Both Ends	10	1/2 lb.	2.46
	65-5	5/16" O.D. Tube Both Ends	10	3/4 lb.	4.34
	65-6	3/8" O.D. Tube Both Ends	10	1 lb.	4.19
	65-6 C	3/8" O.D. Tube Both Ends - Copper	10	1 lb.	12.60
	65-8	1/2" O.D. Tube Both Ends	10	1-1/2 lb.	6.84
	65-10	5/8" O.D. Tube Both Ends	10	2-1/2 lb.	10.14
	65-14	7/8" O.D. Tube Both Ends	5	1-1/2 lb.	30.94
	COMPRESSION REDUCING ELBOW UNION				
	65-8-6	1/2" O.D. Tube x 3/8" O.D. Tube	10	1-1/2 lb.	10.41
	65-10-6	5/8" O.D. Tube x 3/8" O.D. Tube	10	1-1/2 lb.	6.72
	65-10-8	5/8" O.D. Tube x 1/2" O.D. Tube	10	2 lb.	11.56

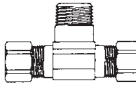
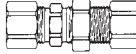
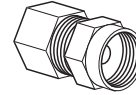
BRASS COMPRESSION FITTINGS

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
COMPRESSION MALE ELBOW ADAPTOR					
	69-2-2	1/8" O.D. Tube x 1/8" M.I.P.	10	1/4 lb.	2.58
	69-4-4	1/4" O.D. Tube x 1/4" M.I.P.	10	3/4 lb.	2.45
	69-6-6	3/8" O.D. Tube x 3/8" M.I.P.	10	1 lb.	5.33
	69-8-8	1/2" O.D. Tube x 1/2" M.I.P.	10	1-3/4 lb.	9.78
COMPRESSION MALE REDUCING ELBOW ADAPTOR					
	69-3-2	3/16" O.D. Tube x 1/8" M.I.P.	10	1/2 lb.	2.84
	69-3-4	3/16" O.D. Tube x 1/4" M.I.P.	10	1/2 lb.	3.76
	69-4-2	1/4" O.D. Tube x 1/8" M.I.P.	10	1/2 lb.	2.15
	69-4-6	1/4" O.D. Tube x 3/8" M.I.P.	10	3/4 lb.	3.77
	69-5-2	5/16" O.D. Tube x 1/8" M.I.P.	10	1/2 lb.	2.96
	69-5-4	5/16" O.D. Tube x 1/4" M.I.P.	10	3/4 lb.	3.17
	69-5-6	5/16" O.D. Tube x 3/8" M.I.P.	10	3/4 lb.	4.13
	69-6-2	3/8" O.D. Tube x 1/8" M.I.P.	10	3/4 lb.	3.04
	69-6-4	3/8" O.D. Tube x 1/4" M.I.P.	10	1 lb.	3.11
	69-6-4 C	3/8" O.D. Tube x 1/4" M.I.P. - Copper	10	1 lb.	9.32
	69-6-8	3/8" O.D. Tube x 1/2" M.I.P.	10	1-1/2 lb.	6.58
	69-6-12	3/8" O.D. Tube x 3/4" M.I.P.	5	3/4 lb.	13.70
	69-7-4	7/16" O.D. Tube x 1/4" M.I.P.	5	1/2 lb.	7.17
	69-7-6	7/16" O.D. Tube x 3/8" M.I.P.	10	1/2 lb.	6.64
	69-8-4	1/2" O.D. Tube x 1/4" M.I.P.	10	1 lb.	5.14
	69-8-6	1/2" O.D. Tube x 3/8" M.I.P.	10	1-1/4 lb.	8.10
	69-10-6	5/8" O.D. Tube x 3/8" M.I.P.	5	1 lb.	7.19
	69-10-8	5/8" O.D. Tube x 1/2" M.I.P.	5	1-1/2 lb.	7.06
	69-10-12	5/8" O.D. Tube x 3/4" M.I.P.	5	1-1/4 lb.	10.99
	COMPRESSION FEMALE ELBOW ADAPTOR				
	70-2-2	1/8" O.D. Tube x 1/8" F.I.P.	5	1/4 lb.	5.53
	70-4-4	1/4" O.D. Tube x 1/4" F.I.P.	10	3/4 lb.	4.13
	70-6-6	3/8" O.D. Tube x 3/8" F.I.P.	10	1-1/4 lb.	5.22
	70-8-8	1/2" O.D. Tube x 1/2" F.I.P.	10	2 lb.	9.35

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
COMPRESSION FEMALE REDUCING ELBOW ADAPTOR					
	70-3-2	3/16" O.D. Tube x 1/8" F.I.P.	5	1/4 lb.	4.58
	70-4-2	1/4" O.D. Tube x 1/8" F.I.P.	10	1/2 lb.	3.14
	70-4-8	1/4" O.D. Tube x 1/2" F.I.P.	10	1-1/4 lb.	5.05
	70-5-2	5/16" O.D. Tube x 1/8" F.I.P.	10	3/4 lb.	3.92
	70-5-4	5/16" O.D. Tube x 1/4" F.I.P.	5	1/2 lb.	4.91
	70-6-2	3/8" O.D. Tube x 1/8" F.I.P.	10	3/4 lb.	4.83
	70-6-4	3/8" O.D. Tube x 1/4" F.I.P.	10	1 lb.	4.07
	70-6-8	3/8" O.D. Tube x 1/2" F.I.P.	10	2-1/4 lb.	6.16
	70-8-6	1/2" O.D. Tube x 3/8" F.I.P.	10	1-3/4 lb.	6.95
	70-10-8	5/8" O.D. Tube x 1/2" F.I.P.	10	3-1/2 lb.	11.03
	70-10-12	5/8" O.D. Tube x 3/4" F.I.P.	10	2-1/4 lb.	11.11
	COMPRESSION FEMALE DROP-EAR ELBOW ADAPTOR				
	38C-10-8	5/8" O.D. Tube x 1/2" F.I.P.	10	2-1/2 lb.	10.75
COMPRESSION TEE UNION					
	64-2	1/8" O.D. Tube 3 Ends	10	1/2 lb.	7.62
	64-3	3/16" O.D. Tube 3 Ends	10	3/4 lb.	4.42
	64-4	1/4" O.D. Tube 3 Ends	10	1 lb.	4.00
	64-5	5/16" O.D. Tube 3 Ends	10	1 lb.	5.62
	64-6	3/8" O.D. Tube 3 Ends	10	1-1/2 lb.	5.72
	64-8	1/2" O.D. Tube 3 Ends	10	2-1/4 lb.	9.64
	64-10	5/8" O.D. Tube 3 Ends	10	4 lb.	14.09
COMPRESSION REDUCING TEE UNION					
	64-6-6-4	3/8" O.D. Tube x 3/8" O.D. Tube x 1/4" O.D. Tube	10	2 lb.	7.93
	64-8-8-6	1/2" O.D. Tube x 1/2" O.D. Tube x 3/8" O.D. Tube	10	2-1/4 lb.	14.66
COMPRESSION FEMALE TEE ADAPTOR (w/F.I.P. THREAD ON BRANCH)					
	CT1-662	3/8" O.D. Tube x 3/8" O.D. Tube x 1/8" F.I.P.	10	1-1/2 lb.	6.20

BRASS COMPRESSION FITTINGS

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
COMPRESSION MALE TEE ADAPTOR (w/M.I.P. THREAD ON RUN)					
	71-4-4	1/4" O.D. Tube x 1/4" M.I.P. x 1/4" O.D. Tube	5	1/2 lb.	5.58
	71-6-6	3/8" O.D. Tube x 3/8" M.I.P. x 3/8" O.D. Tube	10	1-1/4 lb.	7.75
COMPRESSION MALE REDUCING TEE ADAPTOR (w/M.I.P. THREAD ON RUN)					
	71-4-2	1/4" O.D. Tube x 1/8" M.I.P. x 1/4" O.D. Tube	10	3/4 lb.	3.86
	71-6-4	3/8" O.D. Tube x 1/4" M.I.P. x 3/8" O.D. Tube	10	1 lb.	5.96
COMPRESSION MALE TEE ADAPTOR (w/M.I.P. THREAD ON BRANCH)					
	72-2-2	1/8" O.D. Tube x 1/8" O.D. Tube x 1/8" M.I.P.	10	1/2 lb.	5.61
	72-4-4	1/4" O.D. Tube x 1/4" O.D. Tube x 1/4" M.I.P.	10	1-1/2 lb.	4.81
	72-6-6	3/8" O.D. Tube x 3/8" O.D. Tube x 3/8" M.I.P.	10	1/4 lb.	7.26
	72-8-8	1/2" O.D. Tube x 1/2" O.D. Tube x 1/2" M.I.P.	10	3 lb.	13.93

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
COMPRESSION MALE REDUCING TEE ADAPTOR (w/M.I.P. THREAD ON BRANCH)					
	72-3-2	3/16" O.D. Tube x 3/16" O.D. Tube x 1/8" M.I.P.	10	1/2 lb.	4.49
	72-4-2	1/4" O.D. Tube x 1/4" O.D. Tube x 1/8" M.I.P.	10	3/4 lb.	4.47
	72-6-4	3/8" O.D. Tube x 3/8" O.D. Tube x 1/4" M.I.P.	10	1-1/4 lb.	5.60
	72-8-6	1/2" O.D. Tube x 1/2" O.D. Tube x 3/8" M.I.P.	10	2-1/4 lb.	8.70
	72-10-8	5/8" O.D. Tube x 5/8" O.D. Tube x 1/2" M.I.P.	5	1-3/4 lb.	13.47
COMPRESSION BULKHEAD UNION					
	62BH-4	1/4" O.D. Tube Both Ends	10	3/4 lb.	6.28
	62BH-6	3/8" O.D. Tube Both Ends	10	1-1/4 lb.	8.64
FLARE TO COMPRESSION UNION ADAPTOR*					
	462-6-4	3/8" Flare x 1/4" Compr.	10	1/2 lb.	3.02
	462-6-6	3/8" Flare x 3/8" Compr.	10	3/4 lb.	3.04
	462-8-6	1/2" Flare x 3/8" Compr.	10	1 lb.	3.55
<p>* The purpose of these fittings is to convert the flare outlet on a stop to a compression connection.</p>					

BRASS PIPE FITTINGS

PRODUCT APPLICATIONS

- For use with brass, copper or iron pipe.
- Designed for low and medium pressure pipe line connections.
- Typically used in water, grease, fuels, LP and natural gas, refrigeration, instrumentation and hydraulic systems.

PRODUCT ADVANTAGES

- All pipe fitting threads meet the standards developed by the Society of Automotive Engineers.
- Connectors, unions, nuts and extruded elbows and tees machined from CA 360 and CA 345 brass rod.
- Forged elbows and tees machined from CA 377 brass.
- Backed by BrassCraft's 60-year history and reputation for quality and service.

SPECIFICATIONS

- Meets SAE, ASME and ASA requirements.

VIBRATION

- Fair resistance to vibration and pipe movement depending on

conditions.

SPECIAL ORDERS

- Special fitting configurations and sizes are available. Please submit a print or sketch of your needs with your inquiry.

OPERATING PRESSURE

- Up to 1,200 PSI.

TEMPERATURE RANGE

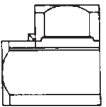
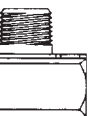
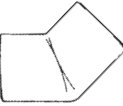

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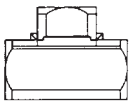
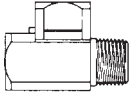
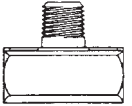
HOW TO ORDER

- Order fittings individually by part number.
- To order with pipe sealant, add a "V" suffix to part number. Example: 202-6V. "V" fittings are special order only.




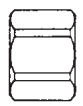
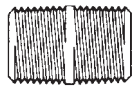
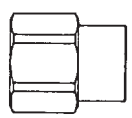
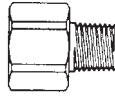
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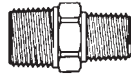
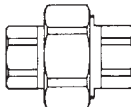

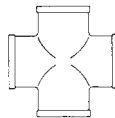



- Tighten approximately 2-1/2 turns past hand tight.

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
FEMALE PIPE ELBOW 90°					
	200-2	1/8" F.I.P. x 1/8" F.I.P.	10	1/2 lb.	2.43
	200-4	1/4" F.I.P. x 1/4" F.I.P.	10	1 lb.	3.86
	200-6	3/8" F.I.P. x 3/8" F.I.P.	10	1-3/4 lb.	5.13
	200-8	1/2" F.I.P. x 1/2" F.I.P.	10	2-1/2 lb.	8.00
	200-12	3/4" F.I.P. x 3/4" F.I.P.	10	4 lb.	21.81
STREET ELBOW 90°					
	202-2	1/8" F.I.P. x 1/8" M.I.P.	10	1/2 lb.	1.59
	202-4	1/4" F.I.P. x 1/4" M.I.P.	10	3/4 lb.	2.51
	202-6	3/8" F.I.P. x 3/8" M.I.P.	10	1-1/4 lb.	4.25
	202-8	1/2" F.I.P. x 1/2" M.I.P.	10	2-1/4 lb.	8.01
	202-12	3/4" F.I.P. x 3/4" M.I.P.	10	3-1/2 lb.	10.65
FEMALE PIPE ELBOW 45°					
	205-2	1/8" F.I.P. x 1/8" F.I.P.	10	1/2 lb.	4.07
	205-4	1/4" F.I.P. x 1/4" F.I.P.	10	1 lb.	5.90
	205-6	3/8" F.I.P. x 3/8" F.I.P.	10	1-1/4 lb.	6.95
	205-8	1/2" F.I.P. x 1/2" F.I.P.	10	2-1/4 lb.	11.25
	205-12	3/4" F.I.P. x 3/4" F.I.P.	10	2-1/2 lb.	16.11
STREET ELBOW 45°					
	224-2	1/8" M.I.P. x 1/8" F.I.P.	10	1/4 lb.	1.82
	224-4	1/4" M.I.P. x 1/4" F.I.P.	10	3/4 lb.	2.99
	224-6	3/8" M.I.P. x 3/8" F.I.P.	10	1-1/4 lb.	4.27
	224-8	1/2" M.I.P. x 1/2" F.I.P.	10	1-1/2 lb.	7.54



	Part No.	Description	Pack Qty	Pack Weight	List Price Each
PIPE TEE					
	203-2	1/8" F.I.P. 3 Ends	10	1/2 lb.	2.58
	203-4	1/4" F.I.P. 3 Ends	10	1-1/4 lb.	4.56
	203-6	3/8" F.I.P. 3 Ends	10	1-3/4 lb.	6.05
	203-8	1/2" F.I.P. 3 Ends	10	3 lb.	9.48
	203-12	3/4" F.I.P. 3 Ends	10	5-1/4 lb.	14.47
STREET TEE					
	225-2	1/8" F.I.P. x 1/8" M.I.P. x 1/8" F.I.P.	10	3/4 lb.	3.14
	225-4	1/4" F.I.P. x 1/4" M.I.P. x 1/4" F.I.P.	10	1-1/2 lb.	4.91
	225-6	3/8" F.I.P. x 3/8" M.I.P. x 3/8" F.I.P.	10	1-3/4 lb.	8.32
	225-8	1/2" F.I.P. x 1/2" M.I.P. x 1/2" F.I.P.	10	1-3/4 lb.	14.43
	MALE BRANCH TEE				
	226-2	1/8" F.I.P. x 1/8" F.I.P. x 1/8" M.I.P.	25	1-3/4 lb.	2.73
	226-4	1/4" F.I.P. x 1/4" F.I.P. x 1/4" M.I.P.	25	4 lb.	4.38
	226-6	3/8" F.I.P. x 3/8" F.I.P. x 3/8" M.I.P.	10	2 lb.	5.90
	226-8	1/2" F.I.P. x 1/2" F.I.P. x 1/2" M.I.P.	10	4-1/4 lb.	10.29
	226-12	3/4" F.I.P. x 3/4" F.I.P. x 3/4" M.I.P.	5	3-1/4 lb.	18.26

BRASS PIPE FITTINGS


	Part No.	Description	Pack Qty	Pack Weight	List Price Each
SQUARE HEAD PIPE PLUG					
	211-2	1/8" M.I.P.	10	1/4 lb.	.72
	211-4	1/4" M.I.P.	10	1/2 lb.	1.28
	211-6	3/8" M.I.P.	10	3/4 lb.	1.69
	211-8	1/2" M.I.P.	10	1 lb.	3.34
	211-12	3/4" M.I.P.	10	1-1/4 lb.	5.67
	HEX HEAD PIPE PLUG				
	PPH-2	1/8" M.I.P.	10	1/2 lb.	.67
	PPH-4	1/4" M.I.P.	10	3/4 lb.	.98
	PPH-6	3/8" M.I.P.	10	1-1/2 lb.	1.45
	PPH-8	1/2" M.I.P.	10	1-3/4 lb.	2.30
	PPH-12	3/4" M.I.P.	10	2-1/2 lb.	3.95
HEX COUNTERSINK PIPE PLUG					
	219-2	1/8" M.I.P.	10	1/8 lb.	.66
	219-4	1/4" M.I.P.	10	1/8 lb.	1.34
	219-6	3/8" M.I.P.	10	1/4 lb.	2.72
	219-8	1/2" M.I.P.	10	3/4 lb.	2.51
PIPE CAP					
	213-2	1/8" F.I.P.	10	1/4 lb.	1.23
	213-4	1/4" F.I.P.	10	1/2 lb.	1.58
	213-6	3/8" F.I.P.	10	3/4 lb.	1.95
	213-8	1/2" F.I.P.	10	1-1/2 lb.	3.74
	213-12	3/4" F.I.P.	10	1-1/2 lb.	8.28
CLOSE PIPE NIPPLE					
	215-2	1/8" M.I.P.	10	1/4 lb.	2.55
	215-4	1/4" M.I.P.	10	1/2 lb.	2.95
	215-6	3/8" M.I.P.	10	3/4 lb.	3.47
	215-8	1/2" M.I.P.	10	1-1/2 lb.	3.67
	215-12	3/4" M.I.P.	10	2-1/2 lb.	5.28
PIPE REDUCER COUPLING					
	119-4-2	1/4" F.I.P. x 1/8" F.I.P.	10	1/2 lb.	1.76
	119-6-2	3/8" F.I.P. x 1/8" F.I.P.	10	3/4 lb.	3.02
	119-6-4	3/8" F.I.P. x 1/4" F.I.P.	10	3/4 lb.	2.58
	119-8-2	1/2" F.I.P. x 1/8" F.I.P.	10	1 lb.	6.96
	119-8-4	1/2" F.I.P. x 1/4" F.I.P.	10	1-1/4 lb.	4.42
	119-8-6	1/2" F.I.P. x 3/8" F.I.P.	10	1 lb.	4.87
	119-12-8	3/4" F.I.P. x 1/2" F.I.P.	10	2-3/4 lb.	11.68
	PIPE ADAPTOR				
	120-2	1/8" F.I.P. x 1/8" M.I.P.	25	1 lb.	.98
	120-4-2	1/4" F.I.P. x 1/8" M.I.P.	25	1 lb.	1.62
	120-4	1/4" F.I.P. x 1/4" M.I.P.	25	2-1/2 lb.	1.70
	120-6-2	3/8" F.I.P. x 1/8" M.I.P.	25	2-1/4 lb.	3.11
	120-6-4	3/8" F.I.P. x 1/4" M.I.P.	25	2-3/4 lb.	2.82
	120-6	3/8" F.I.P. x 3/8" M.I.P.	25	2-3/4 lb.	3.04
	120-8-4	1/2" F.I.P. x 1/4" M.I.P.	10	1-3/4 lb.	4.73
	120-8-6	1/2" F.I.P. x 3/8" M.I.P.	25	4-3/4 lb.	4.01
	120-8	1/2" F.I.P. x 1/2" M.I.P.	25	5-1/2 lb.	4.56
	120-12-6	3/4" F.I.P. x 3/8" M.I.P.	10	3 lb.	9.04
	120-12-8	3/4" F.I.P. x 1/2" M.I.P.	10	3-1/4 lb.	6.28
	120-12	3/4" F.I.P. x 3/4" M.I.P.	10	3-1/2 lb.	6.84

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
HEX NIPPLE					
	PHN-2	1/8" M.I.P. x 1/8" M.I.P.	10	1/4 lb.	.81
	PHN-4-2	1/4" M.I.P. x 1/8" M.I.P.	10	1/4 lb.	1.49
	PHN-4	1/4" M.I.P. x 1/4" M.I.P.	10	1/2 lb.	1.46
	PHN-6-2	3/8" M.I.P. x 1/8" M.I.P.	10	1/2 lb.	2.60
	PHN-6-4	3/8" M.I.P. x 1/4" M.I.P.	10	3/4 lb.	2.45
	PHN-6	3/8" M.I.P. x 3/8" M.I.P.	10	3/4 lb.	2.01
	PHN-8-4	1/2" M.I.P. x 1/4" M.I.P.	10	3/4 lb.	4.87
	PHN-8-6	1/2" M.I.P. x 3/8" M.I.P.	10	3/4 lb.	4.17
	PHN-8	1/2" M.I.P. x 1/2" M.I.P.	10	1 lb.	3.50
	PHN-12	3/4" M.I.P. x 3/4" M.I.P.	10	1-3/4 lb.	11.55
FEMALE PIPE UNION					
	104-4	1/4" F.I.P. x 1/4" F.I.P.	10	2 lb.	16.58
	104-8	1/2" F.I.P. x 1/2" F.I.P.	10	4 lb.	22.30
	104-12	3/4" F.I.P. x 3/4" F.I.P.	5	2-3/4 lb.	23.21
PIPE LOCKNUT					
	210-2	1/8" F.I.P.	10	1/8 lb.	1.03
	210-4	1/4" F.I.P.	10	1/8 lb.	1.44
	210-6	3/8" F.I.P.	10	1/8 lb.	1.91
	210-8	1/2" F.I.P.	10	1/8 lb.	2.00
FEMALE PIPE CROSS					
	102-2	1/8" F.I.P. 4 Ends	10	3/4 lb.	4.40
	102-4	1/4" F.I.P. 4 Ends	10	1-1/2 lb.	6.64
	102-6	3/8" F.I.P. 4 Ends	10	2-1/2 lb.	9.30
	102-8	1/2" F.I.P. 4 Ends	10	3-3/4 lb.	14.34
FEMALE PIPE COUPLING					
	207-2	1/8" F.I.P. x 1/8" F.I.P.	10	1/4 lb.	.94
	207-4	1/4" F.I.P. x 1/4" F.I.P.	10	1/2 lb.	1.62
	207-6	3/8" F.I.P. x 3/8" F.I.P.	10	1-1/4 lb.	2.80
	207-8	1/2" F.I.P. x 1/2" F.I.P.	10	2 lb.	4.63
	207-12	3/4" F.I.P. x 3/4" F.I.P.	10	2-3/4 lb.	8.01
	PIPE REDUCER BUSHING				
	PRB-4-2	1/4" M.I.P. x 1/8" F.I.P.	10	1/4 lb.	.83
	PRB-6-2	3/8" M.I.P. x 1/8" F.I.P.	10	1/2 lb.	1.86
	PRB-6-4	3/8" M.I.P. x 1/4" F.I.P.	10	1/2 lb.	1.18
	PRB-8-2	1/2" M.I.P. x 1/8" F.I.P.	10	1 lb.	2.57
	PRB-8-4	1/2" M.I.P. x 1/4" F.I.P.	10	3/4 lb.	2.17
	PRB-8-6	1/2" M.I.P. x 3/8" F.I.P.	10	1/2 lb.	2.16
	PRB-12-2	3/4" M.I.P. x 1/8" F.I.P.	10	2 lb.	5.69
	PRB-12-4	3/4" M.I.P. x 1/4" F.I.P.	10	1-3/4 lb.	5.00
	PRB-12-6	3/4" M.I.P. x 3/8" F.I.P.	10	1-1/2 lb.	4.48
	PRB-12-8	3/4" M.I.P. x 1/2" F.I.P.	5	3/4 lb.	4.16
PRB-16-12	1" M.I.P. x 3/4" F.I.P.	5	1 lb.	5.95	
MALE PIPE SWEAT ADAPTOR					
	Easily converts female iron pipe to a sweat joint!				
	PSA-8	1/2" M.I.P. x 1/2" Nom. Sweat Flush Bushing	10	3/4 lb.	2.60
	PSA-12	3/4" M.I.P. x 3/4" Nom. Sweat Flush Bushing	10	1 lb.	3.41
	PSA-16	1" M.I.P. x 1" Nom. Sweat Flush Bushing	10	1-1/2 lb.	4.25

BRASS NIPPLES

Pipe Diameter	Carton		Part Number & Price					
			Rough		Chrome			
	Qty.	Wt. Lbs.	Part No.	List Ea.	Part No.	List Ea.		
I.P.S. CLOSE NIPPLES								
	1/8"	25	1/2	112-02-R	3.21	—	—	
	1/4"	25	1/2	112-04-R	3.69	—	—	
	3/8"	25	1/2	112-06-R	3.69	112-06-C	5.18	
	1/2"	5	1/2	112-08-R	3.89	112-08-C	5.40	
	3/4"	5	3/4	112-12-R	6.34	—	—	
	1"	5	1	112-16-R	11.29	—	—	
I.P.S. LONG NIPPLES								
Pipe Dia.	Length	Carton		Part Number & Price				
				Rough		Chrome		
		Qty.	Wt. Lbs.	Part No.	List Ea.	Part No.	List Ea.	
	1/8"	1-1/2"	25	3/4 lb.	113-02-1.5-R	3.38	—	—
	1/8"	2"	25	1 lb.	113-02-2-R	3.69	—	—
	1/8"	2-1/2"	25	1 lb.	113-02-2.5-R	4.01	—	—
	1/8"	3"	25	2 lb.	113-02-3-R	4.40	—	—
	1/8"	3-1/2"	25	2 lb.	113-02-3.5-R	4.88	—	—
	1/8"	4"	25	2 lb.	113-02-4-R	5.29	—	—
	1/8"	4-1/2"	25	3 lb.	113-02-4.5-R	5.95	—	—
	1/8"	5"	25	3 lb.	113-02-5-R	6.52	—	—
	1/8"	6"	25	5 lb.	113-02-6-R	7.41	—	—
	1/4"	1-1/2"	25	1-1/2 lb.	113-04-1.5-R	4.16	—	—
	1/4"	2"	25	2 lb.	113-04-2-R	4.62	—	—
	1/4"	2-1/2"	25	3 lb.	113-04-2.5-R	5.29	—	—
	1/4"	3"	25	3 lb.	113-04-3-R	5.86	—	—
	1/4"	3-1/2"	25	4 lb.	113-04-3.5-R	6.67	—	—
	1/4"	4"	25	4 lb.	113-04-4-R	7.28	—	—
	1/4"	4-1/2"	25	4 lb.	113-04-4.5-R	8.19	—	—
	1/4"	5"	25	5 lb.	113-04-5-R	8.96	—	—
	1/4"	6"	25	7 lb.	113-04-6-R	10.48	—	—
	3/8"	1-1/2"	25	1-1/2 lb.	113-06-1.5-R	4.17	113-06-1.5-C	5.90
	3/8"	2"	25	3 lb.	113-06-2-R	4.62	113-06-2-C	6.52
	3/8"	2-1/2"	25	4 lb.	113-06-2.5-R	5.38	113-06-2.5-C	7.55
	3/8"	3"	25	4 lb.	113-06-3-R	6.02	113-06-3-C	8.58
	3/8"	3-1/2"	25	5 lb.	113-06-3.5-R	6.89	113-06-3.5-C	9.67
	3/8"	4"	25	5 lb.	113-06-4-R	7.61	113-06-4-C	10.63
3/8"	4-1/2"	25	6 lb.	113-06-4.5-R	8.44	113-06-4.5-C	11.86	
3/8"	5"	25	7 lb.	—	—	113-06-5-C	13.13	
3/8"	5-1/2"	25	8 lb.	—	—	113-06-5.5-C	14.60	
3/8"	6"	25	8 lb.	113-06-6-R	11.29	113-06-6-C	15.80	

BRASS NIPPLES

Pipe Dia.	Length	Carton		Part Number & Price				
		Qty.	Wt. Lbs.	Rough		Chrome		
				Part No.	List Ea.	Part No.	List Ea.	
I.P.S. LONG NIPPLES (CONT.)								
	1/2"	1-1/2"	5	1/2 lb.	113-08-1.5-R	5.45	113-08-1.5-C	6.48
	1/2"	2"	5	3/4 lb.	113-08-2-R	5.55	113-08-2-C	7.75
	1/2"	2-1/2"	5	1 lb.	113-08-2.5-R	6.52	113-08-2.5-C	9.06
	1/2"	3"	5	1 lb.	113-08-3-R	7.46	113-08-3-C	10.41
	1/2"	3-1/2"	5	2 lb.	113-08-3.5-R	8.46	113-08-3.5-C	11.88
	1/2"	4"	5	2 lb.	113-08-4-R	9.60	113-08-4-C	13.41
	1/2"	4-1/2"	5	2 lb.	—	—	113-08-4.5-C	15.23
	1/2"	5"	5	2 lb.	113-08-5-R	12.18	113-08-5-C	17.06
	1/2"	5-1/2"	5	2 lb.	113-08-5.5-R	13.40	113-08-5.5-C	18.73
	1/2"	6"	5	2 lb.	113-08-6-R	14.50	113-08-6-C	20.33
3/4"	1-1/2"	5	3/4 lb.	113-12-1.5-R	7.22	—	—	
	2"	5	1 lb.	113-12-2-R	8.27	113-12-2-C	11.59	
	2-1/2"	5	2 lb.	113-12-2.5-R	9.78	—	—	
	3"	5	2 lb.	113-12-3-R	11.20	—	—	
	3-1/2"	5	2 lb.	113-12-3.5-R	12.97	—	—	
	4"	5	3 lb.	113-12-4-R	14.47	—	—	
	4-1/2"	5	3 lb.	113-12-4.5-R	16.54	113-12-4.5-C	23.17	
	5"	5	3 lb.	113-12-5-R	18.73	—	—	
	5-1/2"	5	3 lb.	113-12-5.5-R	20.63	—	—	
	6"	5	3 lb.	113-12-6-R	22.38	—	—	
1"	2"	5	2 lb.	113-16-2-R	13.56	—	—	
	2-1/2"	5	2 lb.	113-16-2.5-R	15.79	—	—	
	3"	5	3 lb.	113-16-3-R	17.89	—	—	
	3-1/2"	5	3 lb.	113-16-3.5-R	20.04	—	—	
	4"	5	3 lb.	113-16-4-R	22.26	—	—	
	5"	5	4 lb.	113-16-5-R	27.06	113-16-5-C	37.82	
	6"	5	5 lb.	113-16-6-R	31.65	—	—	

BRASS HOSE BARB FITTINGS

PRODUCT ADVANTAGES

- BrassCraft Hose Barb Fittings are manufactured with Dryseal pipe threads.
- Connectors, unions, nuts, elbows and tees machined from CA 360, CA 345 or CA 377 brass rod.
- Backed by BrassCraft's 60-year history and reputation for quality and service.

TEMPERATURE RANGE

- -40°F to 160°F

WORKING PRESSURE (GAUGE)

- 150 PSI maximum.

SPECIAL ORDERS

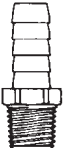
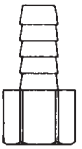
- Special fitting configurations and sizes may be ordered. Please furnish a print or sketch of your needs with your inquiry.

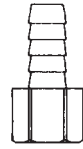



HOW TO ORDER

- By part number and product name.


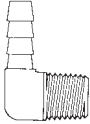
ASSEMBLY INSTRUCTIONS

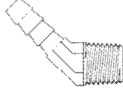
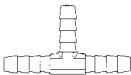
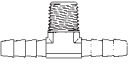
1. Cut hose cleanly and squarely to length.
2. Slide hose clamp onto hose end.
3. Lubricate hose with a drop of oil. Push hose onto fitting until hose reaches fitting stop ring or hex.
4. Move hose clamp over hose and barb. Tighten with screwdriver or wrench.

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
MALE HOSE BARB ADAPTOR					
	125-2-2	1/8" x 1/8" M.I.P.	25	3/4 lb.	1.61
	125-2-4	1/8" x 1/4" M.I.P.	10	1/2 lb.	1.87
	125-3-2	3/16" x 1/8" M.I.P.	10	1/2 lb.	1.13
	125-3-4	3/16" x 1/4" M.I.P.	10	1/2 lb.	1.53
	125-4-2	1/4" x 1/8" M.I.P.	25	3/4 lb.	1.10
	125-4-4	1/4" x 1/4" M.I.P.	25	1-1/4 lb.	1.25
	125-4-6	1/4" x 3/8" M.I.P.	25	2-3/4 lb.	1.99
	125-4-8	1/4" x 1/2" M.I.P.	10	1/2 lb.	3.38
	125-5-2	5/16" x 1/8" M.I.P.	10	1/2 lb.	1.40
	125-5-4	5/16" x 1/4" M.I.P.	10	1/2 lb.	1.43
	125-5-6	5/16" x 3/8" M.I.P.	10	3/4 lb.	3.04
	125-6-2	3/8" x 1/8" M.I.P.	25	1-1/4 lb.	1.37
	125-6-4	3/8" x 1/4" M.I.P.	25	1-1/4 lb.	1.28
	125-6-6	3/8" x 3/8" M.I.P.	25	2 lb.	1.92
	125-6-8	3/8" x 1/2" M.I.P.	25	2-1/2 lb.	3.56
	125-8-4	1/2" x 1/4" M.I.P.	25	1-3/4 lb.	2.17
	125-8-6	1/2" x 3/8" M.I.P.	25	2 lb.	2.07
	125-8-8	1/2" x 1/2" M.I.P.	25	2-3/4 lb.	2.87
	125-8-12	1/2" x 3/4" M.I.P.	25	4 lb.	5.05
	125-10-6	5/8" x 3/8" M.I.P.	25	2-1/2 lb.	2.87
125-10-8	5/8" x 1/2" M.I.P.	25	3 lb.	3.58	
125-10-12	5/8" x 3/4" M.I.P.	25	4 lb.	5.28	
125-12-8	3/4" x 1/2" M.I.P.	10	1-1/2 lb.	4.14	
125-12-12	3/4" x 3/4" M.I.P.	10	2 lb.	6.00	
125-16-12	1" x 3/4" M.I.P.	10	2-1/4 lb.	6.97	
125-16-16	1" x 1" M.I.P.	10	1-3/4 lb.	10.26	
FEMALE HOSE BARB ADAPTOR					
	126-2-2	1/8" x 1/8" F.I.P.	10	1/4 lb.	2.72
	126-3-2	3/16" x 1/8" F.I.P.	25	3/4 lb.	2.63
	126-4-2	1/4" x 1/8" F.I.P.	25	1 lb.	1.53
	126-4-4	1/4" x 1/4" F.I.P.	25	1-1/2 lb.	2.10
	126-5-2	5/16" x 1/8" F.I.P.	10	3/4 lb.	2.63
	126-5-4	5/16" x 1/4" F.I.P.	25	1-1/2 lb.	3.15
	126-6-2	3/8" x 1/8" F.I.P.	25	3/4 lb.	2.63

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
FEMALE HOSE BARB ADAPTOR (CONT.)					
	126-6-4	3/8" x 1/4" F.I.P.	25	1-1/2 lb.	2.46
	126-6-6	3/8" x 3/8" F.I.P.	25	2-1/4 lb.	3.37
	126-6-8	3/8" x 1/2" F.I.P.	25	3-3/4 lb.	5.72
	126-8-4	1/2" x 1/4" F.I.P.	10	1-1/2 lb.	3.55
	126-8-6	1/2" x 3/8" F.I.P.	25	2-1/4 lb.	3.61
	126-8-8	1/2" x 1/2" F.I.P.	25	3-1/4 lb.	4.87
	126-12-12	3/4" x 3/4" F.I.P.	10	1-1/2 lb.	17.47
HOSE BARB ADAPTOR w/SWIVEL FEMALE BALL					
	128-4-4	1/4" x 1/4" N.P.S.M.	25	1-1/4 lb.	1.99
	128-6-4	3/8" x 1/4" N.P.S.M.	25	1-1/2 lb.	2.60
	128-6-6	3/8" x 3/8" N.P.S.M.	25	1-3/4 lb.	2.71
	128-8-6	1/2" x 3/8" N.P.S.M.	10	3/4 lb.	6.33
	128-8-8	1/2" x 1/2" N.P.S.M.	25	2-1/4 lb.	4.52
	128-12-12	3/4" x 3/4" N.P.S.M.	10	1 lb.	7.13
HOSE BARB ADAPTOR w/SWIVEL FEMALE FLARE					
	146-4-4	1/4" x 1/4" Flare	25	3/4 lb.	2.27
	146-4-6	1/4" x 3/8" Flare	25	1-1/4 lb.	3.45
	146-6-6	3/8" x 3/8" Flare	25	1-3/4 lb.	2.90
	146-6-8	3/8" x 1/2" Flare	25	2-1/4 lb.	6.89
	146-8-8	1/2" x 1/2" Flare	25	2-3/4 lb.	5.84
BALL JOINT ADAPTOR TO MALE PIPE FITTINGS FOR USE WITH 128 SERIES					
	127-4-2	1/4" x 1/8"	25	1-1/4 lb.	1.99
	127-4-4	1/4" x 1/4"	25	1-1/4 lb.	2.16
	127-8-8	1/2" x 1/2"	25	3-1/2 lb.	4.98

BRASS HOSE BARBS

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
HOSE BARB SPLICER					
	73-3	3/16" x 3/16"	25	1 lb.	1.71
	73-4	1/4" x 1/4"	25	1-1/4 lb.	1.59
	73-5	5/16" x 5/16"	25	1-1/4 lb.	1.67
	73-6	3/8" x 3/8"	25	1-1/4 lb.	1.98
	73-8	1/2" x 1/2"	25	1-1/2 lb.	2.95
90° MALE HOSE BARB ADAPTOR					
	129-4-2	1/4" x 1/8" M.I.P.	25	3/4 lb.	4.81
	129-4-4	1/4" x 1/4" M.I.P.	25	3/4 lb.	5.04
	129-5-2	5/16" x 1/8" M.I.P.	25	1 lb.	5.44
	129-5-4	5/16" x 1/4" M.I.P.	25	1 lb.	4.76
	129-5-6	5/16" x 3/8" M.I.P.	25	1 lb.	5.58
	129-6-2	3/8" x 1/8" M.I.P.	25	1-1/4 lb.	4.72
	129-6-4	3/8" x 1/4" M.I.P.	25	1-1/4 lb.	4.42
	129-6-6	3/8" x 3/8" M.I.P.	25	1-1/2 lb.	5.53
	129-8-4	1/2" x 1/4" M.I.P.	25	1-3/4 lb.	5.90
	129-8-6	1/2" x 3/8" M.I.P.	25	1-3/4 lb.	7.45
129-8-8	1/2" x 1/2" M.I.P.	25	2 lb.	8.89	
129-10-6	5/8" x 3/8" M.I.P.	25	2-1/4 lb.	6.02	
129-10-8	5/8" x 1/2" M.I.P.	25	2-1/2 lb.	6.91	

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
45° MALE HOSE BARB ADAPTOR					
	139-4-2	1/4" x 1/8" M.I.P.	25	3/4 lb.	4.03
	139-6-4	3/8" x 1/4" M.I.P.	25	1-1/2 lb.	4.52
	139-6-6	3/8" x 3/8" M.I.P.	25	1-3/4 lb.	5.53
	139-8-4	1/2" x 1/4" M.I.P.	25	2 lb.	7.07
	139-8-6	1/2" x 3/8" M.I.P.	25	2 lb.	5.95
HOSE BARB TEE UNION					
	HBT2-6	3/8" I.D. Hose All 3 Ends	25	1-1/2 lb.	5.14
HOSE BARB TEE ADAPTOR (w/M.I.P. THREAD ON BRANCH)					
	HBT1-664	3/8" I.D. Hose x 3/8" I.D. Hose x 1/4" M.I.P.	25	1-1/2 lb.	6.06

BRASS GARDEN HOSE FITTINGS

PRODUCT ADVANTAGES

- Connectors, unions, nuts, elbows and tees machined from CA 360 or CA 345 brass rod.
- Backed by BrassCraft's 60-year history and reputation for quality and service.

WORKING PRESSURE RANGE

- 75 PSI maximum (or the recommended working pressure of garden hose used).
- Not to exceed 150 PSI.

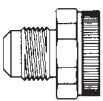
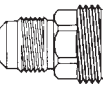
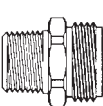
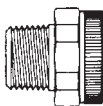
NOTE: All female connector ends should have rubber washer (PS2338) inserted prior to use.

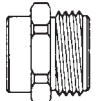
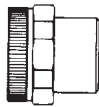


TEMPERATURE RANGE

- -35°F to 100°F

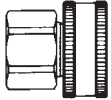
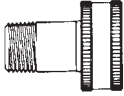
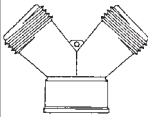
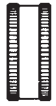
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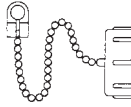
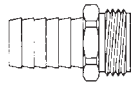
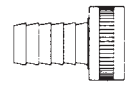
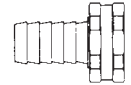
- By part number and product name.

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
FEMALE HOSE ADAPTOR (w/FLARE END)					
	HFU21-6-12	3/8" O.D. x 3/4"	25	2 lb.	5.48
MALE HOSE ADAPTOR (w/FLARE END)					
	HFU22-8-12	1/2" O.D. x 3/4"	25	2-1/4 lb.	6.54
MALE HOSE ADAPTOR (w/M.I.P. END)					
	HU22-12MH*	3/4" x 3/4"	25	3-1/4 lb.	3.89
	HU22-8-12	1/2" x 3/4"	25	3-1/4 lb.	4.42
	HU22-12-12	3/4" x 3/4"	25	3-1/2 lb.	3.89
	HU22-12-12TP	3/4" x 3/4" (Tapped 1/2")	25	4 lb.	4.52
*Male garden hose thread on both ends.					
FEMALE HOSE ADAPTOR (w/M.I.P. END)					
	HU21-8-12	1/2" x 3/4"	25	2-1/2 lb.	4.72
	HU21-12-12	3/4" x 3/4"	25	3 lb.	4.03

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
MALE HOSE ADAPTOR (w/F.I.P. END)					
	HU12-8-12	1/2" x 3/4"	25	1-1/2 lb.	3.59
	HU12-12-12	3/4" x 3/4"	25	2-1/2 lb.	4.17
FEMALE HOSE ADAPTOR (w/F.I.P. END)					
	HU11-8-12	1/2" x 3/4"	25	3-1/2 lb.	4.87
	HU11-12-12	3/4" x 3/4"	25	3 lb.	4.72
FEMALE HOSE SWIVEL UNION					
	HUS-12	3/4" x 3/4"	25	2-1/2 lb.	5.19
GARDEN HOSE NUTS					
	HNR-1	Round Nut	10	1/2 lb.	1.48

BRASS GARDEN HOSE FITTINGS

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
FEMALE HOSE SWIVEL ADAPTOR (W/F.I.P. END)					
	HUS11-8-12	1/2" x 3/4"	25	2-1/4 lb.	4.16
	HUS11-12-12	3/4" x 3/4"	25	3 lb.	5.19
FEMALE HOSE SWIVEL ADAPTOR (w/M.I.P. END)					
	62H-4-12	1/4" x 3/4"	25	2-1/2 lb.	5.58
HOSE Y FITTING					
	Y-9	3/4" Female Hose x 3/4" Male Hose x 3/4" Male Hose	25	8-1/2 lb.	11.79
GARDEN HOSE CAP					
	HC-1	3/4" Female Hose	25	1-1/4 lb.	2.46

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
GARDEN HOSE CAP w/8" CHAIN					
	HC-8	3/4" Female Hose with 8" Chain	25	2-1/2 lb.	3.86
MALE HOSE THREAD BARB ADAPTOR					
	HU125-8-12	1/2" I.D. x 3/4"	10	1-1/2 lb.	4.41
	HU125-10-12	5/8" I.D. x 3/4"	10	1-3/4 lb.	3.61
	HU125-12-12	3/4" I.D. x 3/4"	10	1-3/4 lb.	4.42
		*With Female Hose Swivel			
FEMALE HOSE THREAD BARB ADAPTOR W/FEMALE HOSE SWIVEL					
	HU126-8-12	1/2" I.D. x 3/4"	10	1-1/4 lb.	3.37
	HU126-10-12	5/8" I.D. x 3/4"	10	1-1/4 lb.	4.14
	HU126-12-12	3/4" I.D. x 3/4"	10	1-1/2 lb.	4.25
	HU126-8-12H	1/2" I.D. x 3/4"	10	1-1/4 lb.	4.00
	HU126-10-12H	5/8" I.D. x 3/4"	10	1-1/2 lb.	4.78
	HU126-12-12H	3/4" I.D. x 3/4"	10	1-1/2 lb.	4.88

BRASS DRAIN & SHUT-OFF COCKS

PRODUCT APPLICATIONS

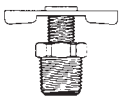
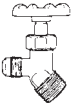
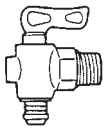
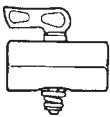
- For use with low pressure air, water, gas and fluids (lubricant may not be compatible with some fluids).
- Backed by BrassCraft's 60-year history and reputation for quality and service.

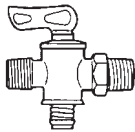
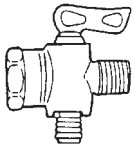
WORKING PRESSURE RANGE

- System temperature and tubing type must be considered.
- Ground plug shut-offs can withstand 30 PSI working pressure.
- Drain cocks withstand 150 PSI working pressure, except where noted otherwise.

HOW TO ORDER

- By part number and product name.

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
MALE PIPE DRAIN COCK (EXTERNAL)					
	DC604-2	1/8" M.I.P.	25	3/4 lb.	2.42
	DC604-4	1/4" M.I.P.	25	1 lb.	2.18
	DC604-6	3/8" M.I.P.	25	1-1/2 lb.	6.50
OIL TANK VALVE 45°					
	OVF45-6-8	3/8" O.D. Tube x 1/2" M.I.P.	10	3 lb.	14.48
	OVF45-6-12	3/8" O.D. Tube x 3/4" M.I.P.	10	3-1/4 lb.	16.40
MALE PIPE DRAIN COCK					
	V601-2	1/8" M.I.P.	25	2-1/2 lb.	11.03
	V601-4	1/4" M.I.P.	25	3-1/2 lb.	11.07
	V601-6	3/8" M.I.P.	25	7-1/4 lb.	16.03
FEMALE PIPE x FEMALE PIPE					
	FF209-2	1/8" F.I.P. x 1/8" F.I.P.	25	3-3/4 lb.	13.54
	FF209-4	1/4" F.I.P. x 1/4" F.I.P.	25	5-1/2 lb.	14.50
	FF209-6	3/8" F.I.P. x 3/8" F.I.P.	25	9 lb.	22.14

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
MALE PIPE x MALE PIPE					
	V401-2	1/8" M.I.P. x 1/8" M.I.P.	25	2-1/2 lb.	14.35
	V401-4	1/4" M.I.P. x 1/4" M.I.P.	25	4 lb.	15.39
FEMALE PIPE x MALE PIPE					
	V402-2	1/8" F.I.P. x 1/8" M.I.P.	10	1-1/4 lb.	14.62
	V402-4	1/4" F.I.P. x 1/4" M.I.P.	25	4-1/4 lb.	14.01
	V402-6	3/8" F.I.P. x 3/8" M.I.P.	25	6-1/2 lb.	18.70

BRASS NEEDLE & HUMIDIFIER VALVES

PRODUCT APPLICATIONS

- For use on instrumentation, hydraulic and pneumatic systems.

PRODUCT ADVANTAGES

- BrassCraft Needle Valves have metal-to-metal seats with fine thread screw down.
- They provide positive sealing and flow adjustment up to the capacity of the valve.
- Backed by BrassCraft's 60-year history and reputation for quality and service.

CONFORMANCE

- Designed for automotive or industrial use. Not intended for natural gas, LPG, nuclear or aircraft applications.

TEMPERATURE RANGE

- -65°F to 250°F
- 40°F to 140°F for water application.
115°F max continuous use temp.

WORKING PRESSURE RANGE


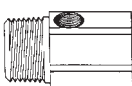
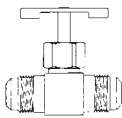
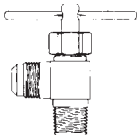
- Up to 150 PSI, unless noted otherwise.

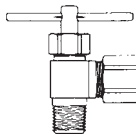
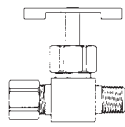
ASSEMBLY INSTRUCTIONS

- Install with pressure against seat.
- Inspection of straight valve shows one opening is higher than the others.
- Pressure should always be directed against the seat in angle valves, not the stem threads.

HOW TO ORDER

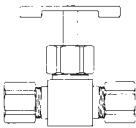
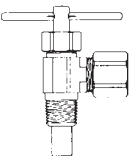
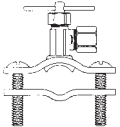
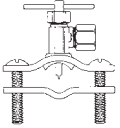
- By part number and product name.

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
COOLER DRAIN					
	CD-1	3/4" Male Hose x 1/2" F.I.P.	25	2 lb.	7.72
COOLER ADAPTOR*					
	CA-44	1/2" F.I.P. x 1/2" M.I.P.	25	2 lb.	6.89
	CA-45	3/4" F.I.P. x 3/4" M.I.P.	25	2-1/2 lb.	11.05
	* Tapped 1/8" female side outlet.				
FLARE x FLARE					
	NV102-4	1/4" O.D. Tube x 1/4" O.D. Tube	25	1-1/2 lb.	8.28
	NV102-6	3/8" O.D. Tube x 3/8" O.D. Tube	25	2-1/2 lb.	9.44
FLARE x MALE PIPE - ANGLE					
	NV101-4-2	1/4" O.D. Tube x 1/8" M.I.P.	25	1-1/2 lb.	6.32

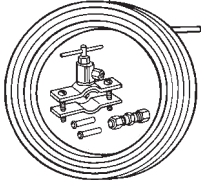
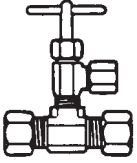
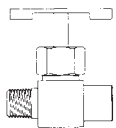
	Part No.	Description	Pack Qty	Pack Weight	List Price Each
COMPRESSION x MALE PIPE - ANGLE					
	NV104-4-2	1/4" O.D. Tube x 1/8" M.I.P.	25	2 lb.	4.91
	NV104-4-4	1/4" O.D. Tube x 1/4" M.I.P.	25	2 lb.	11.34
	NV104-5-2	5/16" O.D. Tube x 1/8" M.I.P.	25	2-1/4 lb.	8.12
	NV104-6-4	3/8" O.D. Tube x 1/4" M.I.P.	10	1 lb.	9.61
COMPRESSION x MALE PIPE - STRAIGHT					
	NV106-4-2	1/4" O.D. Tube x 1/8" M.I.P.	25	2 lb.	7.74
	NV106-4-4	1/4" O.D. Tube x 1/4" M.I.P.	25	2 lb.	8.75
	NV106-6-4	3/8" O.D. Tube x 1/4" M.I.P.	10	1 lb.	10.58

*Provided with a pin handle rather than stamped handle as pictured.

BRASS NEEDLE & HUMIDIFIER VALVES

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
COMPRESSION x COMPRESSION - STRAIGHT VALVE					
	NV105-3	3/16" O.D. Tube x 3/16" O.D. Tube	25	2-1/2 lb.	13.75
	*NV105-4	1/4" O.D. Tube x 1/4" O.D. Tube	25	2-1/2 lb.	7.31
	NV105-5	5/16" O.D. Tube x 5/16" O.D. Tube	25	2-3/4 lb.	9.70
	*NV105-6	3/8" O.D. Tube x 3/8" O.D. Tube	25	3 lb.	10.35
NEEDLE VALVE					
	NEV3-C1	1/4" O.D. Tube x 1/8" M.I.P.	10	1-3/4 lb.	6.15
NEEDLE VALVE KIT**					
	NEV-NCV	1/4" O.D. Tube x 1/8" M.I.P. Kit Consists of One Each Per Package - Needle Valve, Saddle Clamp, Nuts (2), Bolts (2) and Washer.	1	1/4 lb.	11.54
		**For 3/8" to 3/4" pipe.			
NEEDLE VALVE KIT (SELF-PIERCING)					
	PNEV-NCV	For 3/8" to 1" O.D. Tube. 1/4" O.D. Compr. Tube Outlet on Needle Valve. Kit Consists of One Each Per Package - Needle Valve, Saddle Clamp, Nuts (2), Bolts (2) and Washers. Kit Includes Brass Sleeve for Copper Tube Installation and Plastic Sleeve and Brass Insert for Plastic Tube.	1	1/4 lb.	10.54

*Provided with a pin handle rather than stamped handle as pictured.

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
NEEDLE VALVE KIT (SELF-PIERCING) (CONT.)					
	† BC96	For 3/8" to 1" O.D. Tube. 1/4" O.D. Compr. Tube Outlet on Needle Valve. Kit Consists of One Each Per Package - Needle Valve, Saddle Clamp, Nuts (2), Bolts (2) and Washers. Kit Includes 25' 1/4" O.D. Polyethylene Tube, Compression Inserts, 1/4" O.D. Compr. Union.	5	4 lb.	28.37
	BC97	For 3/8" to 1" O.D. Tube. 1/4" O.D. Compr. Tube Outlet on Needle Valve. Kit Consists of One Each Per Package - Needle Valve, Saddle Clamp, Nuts (2), Bolts (2) and Washers. Kit Includes 25' 1/4" O.D. Copper Tube, 1/4" O.D. Compr. Union.	5	15 lb.	58.96
ICE MAKER - HUMIDIFIER KIT					
	NV104-EE1 K1	3/8" O.D. Tube Compression Tee x 1/4" O.D. Compr. Tube Outlet on Needle Valve. Used to Connect Water Lines on Ice Makers, Water Coolers and Humidifiers.	25	4-1/2 lb.	10.19
MALE PIPE x FEMALE PIPE					
	NV108-4	1/4" M.I.P. x 1/4" F.I.P.	25	4 lb.	8.82

† Polyethylene tubing is only recommended for applications where pressure does not exceed 80 psi.

BRASS BOTTLE GAS FITTINGS/PIGTAILS

PRODUCT ADVANTAGES

- Connectors, unions, nuts, extruded elbows and tees manufactured from CA 360 or CA 345 brass rod.
- Backed by BrassCraft's 60-year history and reputation for quality and service.

WORKING PRESSURE RANGE

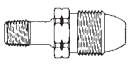


- 250 PSI maximum.

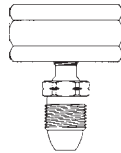
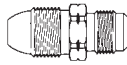

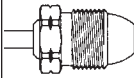
TEMPERATURE RANGE

- -65°F to 250°F

HOW TO ORDER

- By part number and product name.

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
STANDARD POL TAILPIECE AND NUT					
	2002AB	1/4" M.I.P. x 7/8" Hex	100	22 lb.	7.16
POL CAP					
	2004	For POL Male Thread	25	3-1/4 lb.	7.13
POL PLUG					
	2014	For POL Female Thread	25	4-1/4 lb.	4.71

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
MANIFOLD BLOCK TEE ASSEMBLY					
	2001 2001S	POL With Check Valve POL Without Check Valve	5 25	5 lb. 25 lb.	33.18 28.50
CONNECTOR - FLARE					
	2005 2006 2007	POL x 3/8" Flare POL x 1/2" Flare POL x 5/8" Flare	25 25 25	4-3/4 lb. 5-1/4 lb. 5-3/4 lb.	6.26 7.39 7.87
CONNECTOR - F.I.P.					
	2008	POL x 1/4" F.I.P.	25	3-1/2 lb.	5.43
POL NOSE TO INVERTED FLARE PIGTAIL (STANDARD NUT)*					
	2010L-20 BT	Reg. Hex-20" O/A Length. Medium Tailpiece	25	10 lb.	12.48
		*For 1/4" O.D. Tube			

BRASS CAPTIVE SLEEVE FITTINGS

PRODUCT APPLICATIONS

- For use with copper, brass, aluminum and thermoplastic tubing. Not recommended for steel tubing.

PRODUCT ADVANTAGES

- BrassCraft captive sleeve fittings make connections without any flaring, soldering or tubing preparation.
- Pre-assembled fitting has captive sleeve.
- Sleeve is always correctly oriented for proper installation.
- Visible for inspection before and after installation.
- Heavy-duty fitting aligns to seal even out-of-round tubing.
- Quicker to assemble than flare or standard compression fittings.
- Captive sleeve bodies are interchangeable with standard compression fitting bodies.
- Low cost.
- Available in straights, tees and elbows – 1/8" O.D. thru 1" O.D. tube sizes.
- Produced from CA 360, CA 345 or CA 377 brass rod.
- Backed by BrassCraft's 60-year history and reputation for quality and service.

TEMPERATURE RANGE

- -65°F to 250°F

HOW TO ORDER

- By part number and product name.

VIBRATION

- Fair resistance to minimal vibration or tube movement.

WORKING PRESSURE RANGES

- Manufactured for low and medium tubing connections:

PSI	Tube O.D. (IN.)	Tube Wall (IN.)
2800	1/8	.030
1900	3/16	.030
1400	1/4	.030
1200	5/16	.032
1000	3/8	.032
750	1/2	.032
650	5/8	.035
550	3/4	.035
450	7/8	.035
350	1	.035

SPECIAL ORDERS

- Special fitting configurations and/or sizes are available. Please furnish a print or sketch of your needs with your inquiry.




REMAKE INSTRUCTIONS

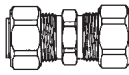
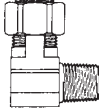

- Tighten to original make-up position plus 1/16 turn to reseal sleeve. Approximately 8 remakes are possible, using this reassembly method.

ASSEMBLY INSTRUCTIONS

1. Place nut on fitting body, finger tight.
2. Insert tubing until it bottoms in the fitting.
3. Complete seal with one wrench turn (on all fitting sizes).

BRASS CAPTIVE SLEEVE FITTINGS

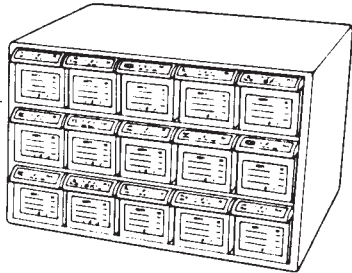
	Part No.	Description	Pack Qty	Pack Weight	List Price Each
PLASTIC COMPRESSION SLEEVE					
	60PT-4	Sleeve for 1/4" O.D. Tube	10	1/8 lb.	.23
	60PT-5	Sleeve for 5/16" O.D. Tube	10	1/8 lb.	1.05
	60PT-6	Sleeve for 3/8" O.D. Tube	10	1/8 lb.	.23
	60PT-8	Sleeve for 1/2" O.D. Tube	10	1/8 lb.	.43
	60PT-10	Sleeve for 5/8" O.D. Tube	10	1/8 lb.	.83
BRASS INSERT					
	63PT-4	For 1/4" O.D. Tube	10	1/4 lb.	.43
	63PT-5	For 5/16" O.D. Tube	10	1/4 lb.	.89
	63PT-6	For 3/8" O.D. Tube	10	1/2 lb.	.72
	63PT-8	For 1/2" O.D. Tube	10	1/2 lb.	1.03
	63PT-10	For 5/8" O.D. Tube	10	1/2 lb.	1.71
For use with nylon and plastic hose and regular compression fittings.					
STAINLESS STEEL INSERT FOR PEX					
	TS-6X	For 3/8" Nom. O.D. Tube	10	3/4 lb.	3.14
	TS-8X	For 1/2" Nom. O.D. Tube	10	3/4 lb.	4.48
For use with PEX Piping					

	Part No.	Description	Pack Qty	Pack Weight	List Price Each
UNION - CAPTIVE BRASS SLEEVE*					
	62CA-4	1/4" O.D. Tube x 1/4" O.D. Tube	10	1/2 lb.	4.19
	*Nut with captive sleeve both ends.				
ELBOW - CAPTIVE BRASS SLEEVE TO M.I.P.*					
	69CA-4-2	1/4" O.D. Tube x 1/8" M.I.P.	10	1/2 lb.	6.28
	*Nut with captive sleeve one end.				
UNION - CAPTIVE BRASS SLEEVE TO M.I.P.*					
	68CA-4-2	1/4" O.D. Tube x 1/8" M.I.P.	10	1/2 lb.	2.58
	68CA-4-4	1/4" O.D. Tube x 1/4" M.I.P.	10	1/2 lb.	5.37
*Nut with captive sleeve one end.					

Allow 30 days lead time for shipment on all parts with captive nuts except for 61CA-10 and 61CA-12 which require 60 days lead time. For fittings with plastic sleeve, use "PT" suffix (i.e. 62PT-4).

FITTINGS CABINET & LABELS

Part No.	Description	Net Price
FLARE & COMPRESSION FITTINGS CABINET		
DC500	18" W x 11"H x 11"D. Shipping weight: 17-1/2 lbs.	73.15 Each
<p>To assist you in selecting and selling quality BrassCraft flare and compression fittings, this 15-drawer cabinet, complete with labels, is available from BrassCraft. It is designed for counter use, wall hanging, or stacking. The cabinet helps you to control inventory and locate proper fittings quickly. Holds up to 35 items with drawer dividers. Fittings not included.</p>		



Part No.	Description	Net Price
FLARE & COMPRESSION FITTINGS LABELS		
BCFBL1286	138 items, plus blanks.	3.23 Per Pack
<p>A complete set of fitting bin labels for use with your warehouse bulk storage bins. The 12 sheets of labels feature industry part numbers, descriptions and illustrations.</p>		



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Part No.	List Price Each	Page	Part No.	List Price Each	Page	Part No.	List Price Each	Page
BC96	28.37	24	HU22-8-12	4.42	20	PRB-4-2	.83	15
BC97	58.96	24	HU22-12MH	3.89	20	PRB-6-2	1.86	15
BCFBL1286	3.23	28	HU22-12-12TP	4.52	20	PRB-6-4	1.18	15
CA-44	6.89	23	HU22-12-12	3.89	20	PRB-8-2	2.57	15
CA-45	11.05	23	HU125-8-12	4.41	21	PRB-8-4	2.17	15
CD-1	7.72	23	HU125-10-12	3.61	21	PRB-8-6	2.16	15
CSP-4	1.58	10	HU125-12-12	4.42	21	PRB-12-2	5.69	15
CSP-6	1.74	10	HU126-8-12H	4.00	21	PRB-12-4	5.00	15
CSP-8	1.83	10	HU126-8-12	3.37	21	PRB-12-6	4.48	15
CSP-10	1.97	10	HU126-10-12H	4.78	21	PRB-12-8	4.16	15
CT1-662	6.20	12	HU126-10-12	4.14	21	PRB-16-12	5.95	15
DC500	73.15	28	HU126-12-12H	4.88	21	PSA-8	2.60	15
DC604-2	2.42	22	HU126-12-12	4.25	21	PSA-12	3.41	15
DC604-4	2.18	22	NEV-NCV	11.54	24	PSA-16	4.25	15
DC604-6	6.50	22	NEV3-C1	6.15	24	TS-6X	3.14	27
F10-6	2.07	8	NV101-4-2	6.32	23	TS-8X	4.48	27
F12-6-8	2.44	8	NV102-4	8.28	23	V401-2	14.35	22
FB-5	.72	7	NV102-6	9.44	23	V401-4	15.39	22
FB-6	.73	7	NV104-EE1 K1	10.19	24	V402-2	14.62	22
FB-8	.90	7	NV104-4-2	4.91	23	V402-4	14.01	22
FC-6	1.02	8	NV104-4-4	11.34	23	V402-6	18.70	22
FF209-2	13.54	22	NV104-5-2	8.12	23	V601-2	11.03	22
FF209-4	14.50	22	NV104-6-4	9.61	23	V601-4	11.07	22
FF209-6	22.14	22	NV105-3	13.75	24	V601-6	16.03	22
F0-6	.91	8	NV105-4	7.31	24	Y-9	11.79	21
F0-6-4 R	1.25	8	NV105-5	9.70	24	38C-10-8	10.75	12
F0-8	1.77	8	NV105-6	10.35	24	39-4	.88	3
FRC11-6	1.71	8	NV106-4-2	7.74	23	39-5	2.31	3
FRC13-6-8	2.40	8	NV106-4-4	8.75	23	39-6	1.16	3
FRC16-6	3.75	8	NV106-6-4	10.58	23	39-8	1.92	3
FRC18-6-8	5.40	8	NV108-4	8.82	24	39-10	3.18	3
FT3-6	6.92	8	OVF45-6-8	14.48	22	40-3	1.52	3
FU3-6	2.61	8	OVF45-6-12	16.40	22	40-4	.66	3
HBT1-664	6.06	19	PHN-2	.81	15	40-5	1.98	3
HBT2-6	5.14	19	PHN-4	1.46	15	40-6	1.01	3
HC-1	2.46	21	PHN-4-2	1.49	15	40-8	1.26	3
HC-8	3.86	21	PHN-6	2.01	15	40-10	2.62	3
HFU21-6-12	5.48	20	PHN-6-2	2.60	15	41L-4	.96	3
HFU22-8-12	6.54	20	PHN-6-4	2.45	15	41L-5	1.74	3
HNR-1	1.48	20	PHN-8	3.50	15	41L-6	2.09	3
HUS11-8-12	4.16	21	PHN-8-4	4.87	15	41L-8	3.34	3
HUS11-12-12	5.19	21	PHN-8-6	4.17	15	41L-10	5.83	3
HUS-12	5.19	20	PHN-12	11.55	15	41S-2	.76	3
HU11-8-12	4.87	20	PNEV-NCV	10.54	24	41S-3	.68	3
HU11-12-12	4.72	20	PPH-2	.67	15	41S-4	.68	3
HU12-8-12	3.59	20	PPH-4	.98	15	41S-5	.81	3
HU12-12-12	4.17	20	PPH-6	1.45	15	41S-6X	1.87	3
HU21-8-12	4.72	20	PPH-8	2.30	15	41S-6	1.06	3
HU21-12-12	4.03	20	PPH-12	3.95	15	41S-7	2.99	3

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41S-8.....	1.58	3	46-12-8.....	11.64	4	55-8.....	4.26	6
41S-10.....	2.20	3	46-12-12.....	11.72	4	55-10.....	5.85	6
41S-12.....	7.35	3	46-14-12.....	16.63	4	60PT-4.....	.23	27
41S-14.....	10.26	3	48-2-2.....	1.87	4	60PT-5.....	1.05	27
42-2.....	1.48	3	48-3-2.....	.90	4	60PT-6.....	.23	27
42-3.....	1.37	3	48-3-4.....	2.60	4	60PT-8.....	.43	27
42-4.....	.94	3	48-4-2.....	.73	4	60PT-10.....	.83	27
42-5.....	1.70	3	48-4-4.....	1.02	4	60-2.....	.22	10
42-6.....	1.58	3	48-4-6.....	1.91	4	60-3.....	.22	10
42-6-4.....	1.74	3	48-4-8.....	3.87	4	60-4.....	.08	10
42-6-5.....	3.84	3	48-5-2.....	1.30	4	60-5.....	.23	10
42-8.....	2.35	3	48-5-4.....	1.59	4	60-6.....	.46	10
42-8-4.....	4.41	3	48-6-2.....	1.48	4	60-7.....	.51	10
42-8-6.....	2.58	3	48-6-4.....	1.39	4	60-8.....	.61	10
42-10.....	3.78	3	48-6-6.....	1.53	4	60-10.....	.77	10
42-10-6.....	4.26	3	48-6-8.....	2.32	4	60-12.....	1.06	10
42-10-8.....	4.34	3	48-6-12.....	3.87	4	60-14.....	1.61	10
42-12.....	10.53	3	48-8-4.....	2.35	4	61CA-2.....	1.34	10
42-12-10.....	17.17	3	48-8-6.....	2.26	4	61CA-3 B.....	1.44	10
42-14.....	21.45	3	48-8-8.....	2.49	4	61CA-4.....	1.10	10
44-3.....	3.34	6	48-8-12.....	3.86	4	61CA-5.....	1.95	10
44-4.....	2.99	6	48-10-4.....	5.62	4	61CA-6.....	1.13	10
44-5.....	3.58	6	48-10-6.....	3.17	4	61CA-8.....	2.07	10
44-6.....	3.89	6	48-10-8.....	2.88	4	61CP-4.....	1.62	10
44-6-6-8.....	4.98	6	48-10-12.....	4.27	4	61CP-6.....	1.10	10
44-8.....	5.87	6	48-12-12.....	7.59	4	61CP-8.....	1.99	10
44-8-6-6.....	5.04	6	48-12-8.....	7.59	4	61CP-10.....	2.35	10
44-8-6-8.....	5.14	6	48-14-12.....	18.47	4	61L-4.....	1.03	10
44-8-8-6.....	5.29	6	49-3-2.....	2.71	5	61L-6.....	1.25	10
44-10.....	7.45	6	49-4-2.....	2.60	5	61-2.....	.32	10
44-10-10-8.....	7.59	6	49-4-4.....	2.82	5	61-3.....	.34	10
46-3-2.....	1.95	4	49-4-6.....	3.31	5	61-4.....	.33	10
46-4-2.....	1.01	4	49-5-2.....	2.72	5	61-5.....	.49	10
46-4-4.....	1.38	4	49-5-4.....	2.86	5	61-6.....	.54	10
46-4-6.....	2.95	4	49-6-2.....	3.05	5	61-7.....	.98	10
46-4-8.....	6.17	4	49-6-4.....	2.99	5	61-8.....	.95	10
46-5-4.....	2.48	4	49-6-6.....	3.11	5	61-10.....	1.67	10
46-6-2.....	2.26	4	49-6-8.....	4.00	5	61-12.....	3.06	10
46-6-4.....	1.48	4	49-8-4.....	4.04	5	61-14.....	2.87	10
46-6-6.....	1.78	4	49-8-6.....	4.07	5	62BH-4.....	6.28	13
46-6-8.....	2.30	4	49-8-8.....	4.97	5	62BH-6.....	8.64	13
46-6-12.....	3.50	4	49-10-8.....	5.93	5	62CA-4.....	4.19	27
46-8-4.....	2.70	4	50-6-6.....	3.58	5	62H-4-12.....	5.58	21
46-8-6.....	2.14	4	50-6-8.....	4.47	5	62-2.....	2.00	10
46-8-8.....	2.55	4	50-10-8.....	5.69	5	62-3.....	1.92	10
46-8-12.....	3.86	4	50-10-12.....	7.47	5	62-4.....	2.01	10
46-10-6.....	3.87	4	55-3 B.....	3.31	6	62-4-2.....	2.84	10
46-10-8.....	3.04	4	55-4.....	2.32	6	62-4-3.....	2.75	10

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62-5-4	5.67	10	66-6-4	2.35	11	69-3-4	3.76	12
62-6	2.60	10	66-6-6	2.39	11	69-4-2	2.15	12
62-6-4	3.59	10	66-6-8 C	8.96	11	69-4-4	2.45	12
62-6-5	7.41	10	66-6-8	2.99	11	69-4-6	3.77	12
62-7	5.68	10	66-6-12	12.11	11	69-5-2	2.96	12
62-8	4.00	10	66-8-4	6.81	11	69-5-4	3.17	12
62-8-6 C	20.14	10	66-8-6	3.75	11	69-5-6	4.13	12
62-8-6	6.72	10	66-8-8	4.03	11	69-6-2	3.04	12
62-10	4.43	10	66-8-12	10.26	11	69-6-4 C	9.32	12
62-10-6	4.48	10	66-10-6	5.28	11	69-6-4	3.11	12
62-10-8	6.83	10	66-10-8	4.73	11	69-6-6	5.33	12
62-12	13.97	10	66-10-12	6.24	11	69-6-8	6.58	12
62-14	14.12	10	66-12-8	13.06	11	69-6-12	13.70	12
63PT-4	.43	27	66-12-12	15.88	11	69-7-4	7.17	12
63PT-5	.89	27	66-14-12	10.00	11	69-7-6	6.64	12
63PT-6	.72	27	68CA-4-2	2.58	27	69-8-4	5.14	12
63PT-8	1.03	27	68CA-4-4	5.37	27	69-8-6	8.10	12
63PT-10	1.71	27	68-2-2	1.25	11	69-8-8	9.78	12
64-2	7.62	12	68-3-2	1.29	11	69-10-6	7.19	12
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