

INDUSTRIAL CATALOG NO. 1500

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Published literature at the time of initial publication reflects all current design, dimensions and performance data. However, in keeping with our policy of upgrading products on an on-going basis, modifications may result in changes in design, dimensions and/or performance now shown in this catalog. Working pressures and other technical information has been prepared from sources deemed to be reliable but no responsibility can be assumed by Anderson Copper and Brass Company for the accuracy of this information under varied field conditions. It should be considered as a recommendation only and not a guarantee.



ANDERSON FITTINGS

Anderson Copper and Brass Company

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NUMBERING SYSTEM

Each part number indicates the style of the fitting and the size, the letters and/or numbers preceeding the dash indicate the style and the letters and/or numbers following the dash indicate the size.

For example, E1-4A is an extruded elbow, flare to male pipe thread. The size is 1/4" OD tube by 1/8" male pipe thread.

When there is a letter "F" immediately preceeding the dash, a forged fitting is indicated when available. For example, E1F-4A is a forged elbow, flare to male pipe thread. The size is 1/4" OD tube by 1/8" male pipe thread.

Additionally shapes with an asterisk * following the part number will be supplied as a forging

ALL TUBING SIZES USED IN THIS CATALOG ARE O.D. TUBE SIZE UNLESS OTHERWISE INDICATED.

The numbers and/or letters following the dash show the sizes of the fitting in accordance with the following specifications:

O.D. TUBE SIZES	
-2	1/8"
-3	3/16"
-4	1/4"
-5	5/16"
-6	3/8"
-7	7/16"
-8	1/2"
-10	5/8"
-12	3/4"
-14	7/8"
-16	1"

PIPE SIZES	
-A	1/8"
-B	1/4"
-C	3/8"
-D	1/2"
-E	3/4"
-F	1"

Identification of Anderson Fittings

	STYLE IS GENERALLY IDENTIFIED BY LAST DIGIT	INVERTED FLARE	A-LIGN	COMPRESSION	POLY FIT	POLY PUSH	NAB NYLON AIR BRAKE	COPPER AIR BRAKE	FLARE
SLEEVES	0	X	X	60A-	260PF-	X	60NAB-	260A-	X
NUTS	1	41I-	961A-	61A-	261PF-	X	61NAB-	261A-	N1/ ⁴¹ SERIES
UNIONS	2	42I-	962A-	62A-	262PF-	262PP-	62NAB-	262A-	U2/ ⁴² SERIES
UNION TEES	4	44I-	964A-	64A-	264PF-	264PP-	64NAB-	264A-	T2/ ⁴⁴ SERIES
FEMALE CONNECTORS	6	46I-	966A-	66A-	266PF-	266PP-	66NAB-	266A-	U3/ ⁴⁶ SERIES
MALE CONNECTORS	8	48I-	968A-	68A-	268PF-	268PP-	68NAB-	268A-	U1/ ⁴⁸ SERIES
MALE ELBOWS	9	49I-	969A-	69A-	269PF-	269PP-	69NAB-	269A-	E1/ ⁴⁹ SERIES

FLARE FITTINGS, 45° and INVERTED FLARE	1. Cut tubing squarely and remove all burrs 2. Slide nut on tube, threaded end of nut facing out 3. Flare end of tubing 4. Lubricate threads 5. Position flare against the nose of the fitting and assemble nut to body, finger tight 6. Tighten nut onto body with wrench until snug, plus 1/6th turn
AIR BRAKE - NYLON TUBING	1. Cut tubing squarely and cleanly, removing all burrs 2. Slide tubing into pre-assembled fitting until tube bottoms in body 3. Tighten assembly with wrench
AIR BRAKE - COPPER TUBING	1. Cut tube squarely and cleanly, removing all burrs 2. Slide tubing into the pre-assembled fitting until the tube bottoms 3. Tighten assembly with wrench
A-LIGN	1. Cut tube squarely, removing all burrs 2. Slide the tubing into the pre-assembled fitting until the tube bottoms 3. Tighten the assembly with wrench, completing the compression of the sleeve
COMPRESSION AND THREADED SLEEVE	1. Cut the tubing squarely, removing all burrs 2. Slide the nut and then the sleeve onto the tubing, thread end of the nut facing out. In the case of the threaded sleeve fitting, the nut incorporates the sleeve in a single piece 3. Insert the tube into the fitting until it bottoms out 4. Lubricate threads 5. Assemble nut to body, finger tight 6. Tighten assemble with wrench, completing the compression of the sleeve
POLY-FIT	1. Cut tubing squarely, removing all burrs 2. Slide the tube into the pre-assembled fitting until the tube bottoms 3. Plastic sleeve — finger tight; Brass sleeve — finger tight plus 1/2 turn
POLY-PUSH	1. Cut the tubing squarely, remove all burrs 2. Push the tubing into the fittings until it bottoms 3. To release, manual pressure on the top of the release collar allows the teeth to open so that tube can be pulled out
AIR BRAKE — HOSE ENDS	1. Slide nut onto the hose 2. Slide the tapered end of the sleeve onto the hose facing the fitting 3. Insert hose completely into the fitting until it bottoms 4. Nut is tightened until making contact with the body 5. Do not reuse sleeves. Bodies and nuts should always be re-inspected
DOUBLE BARBS	1. Push the tubing over both barbs making sure that it is squarely cut

Thread Specifications

TYPE FITTING	O. D. TUBE SIZE										
	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
45° Flare	5/16x24	3/8x24	7/16x20	1/2x20	5/8x18	11/16x16	3/4x16	7/8x14	1-1/16x14	1-1/4x12	1-3/8x12
Compression/A-Lign	5/16x24	3/8x24	7/16x24	1/2x24	9/16x24	5/8x24	11/16x20	13/16x18	1x18	1-1/8x18	
Inverted Flare	5/16x28	3/8x24	7/16x24	1/2x20	5/8x18	11/16x18	3/4x18	7/8x18	1-1/16x16		
Double Compression	5/16x24	3/8x24	7/16x24	1/2x20	9/16x20	5/8x18	11/16x16	7/8x18			
Poly-Fit	5/16x24	3/8x24	3/8x24	7/16x24	1/2x24		11/16x20				
Air Brake			7/16x24		17/32x24		11/16x20	13/16x18	1x18		
Pipe	1/8x27		1/4x18		3/8x18		1/2x14		3/4x14		1x11-1/2

ANDERSON FITTINGS CATEGORIES	DOUBLE BARBS	POLY-FIT	DOUBLE COMPRESSION	PIPE	INVERTED FLARE	SAE 45 FLARE	COMPRESSION	A-LIGN	COPPER AIR BRAKE	NYLON AIR BRAKE	POLY PUSH
TYPE MATERIAL	BRASS	BRASS	BRASS	BRASS	BRASS	BRASS	BRASS	BRASS	BRASS	BRASS	BRASS
TUBE SIZE (O.D. RANGE IN INCHES)	5/32 1/2	1/8 1/2	1/8 3/8	1/8 1	1/8 5/8	1/8 1	1/8 7/8	1/8 3/4	1/4 3/4	1/4 3/4	1/8 1/2
MAXIMUM WORKING PRESSURE (PSI) DEPENDS ON TUBING MATERIAL, O.D. WALL THICKNESS AND FITTING	135	150	500	1200	2000	2000	400	800	150	150	250
VIBRATION CHARACTERISTICS											
FAIR			*	*			*		*		
GOOD						*		*			
EXCELLENT	*	*			*					*	*
TUBING											
COPPER		1*	*		*	*	*	*	*		*
STEEL					*	*					
ALUMINUM		1*	*		*	*	*	*			*
POLYETHYLENE	*	*					*	*			*
NYLON							*	*	*	*	*
POLYVINYL CHLORIDE (PVC)		*					*	*			
BUNDY					*	*	2*	2*			
CONFORMANCE											
SAE				*	*	*	*		*	*	
ASA			*	*	*	*	*				
ASME			*	*	*	*	*				
DOT									*	*	
APPLICATION											
INSTRUMENTATION	*	*		*	*	*	*	*	*	*	*
OIL-AIR-WATER	*	*	*	*	*	*	*	*	*	*	*
REFRIGERATION					*	*					
HYDRAULIC SYSTEMS				*	*	*	*				
COOLING SYSTEMS	*	*	*	*	*	*	*	*	*	*	*
LUBRICATION SYSTEMS	*	*	*	*	*	*	*	*	*	*	*
AIR BRAKE										*	*
1 - BRASS SLEEVE 2 - TIN DIPPED	* - RECOMMENDED APPLICATION										

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040102	25	100203BA	35	130425.....	111

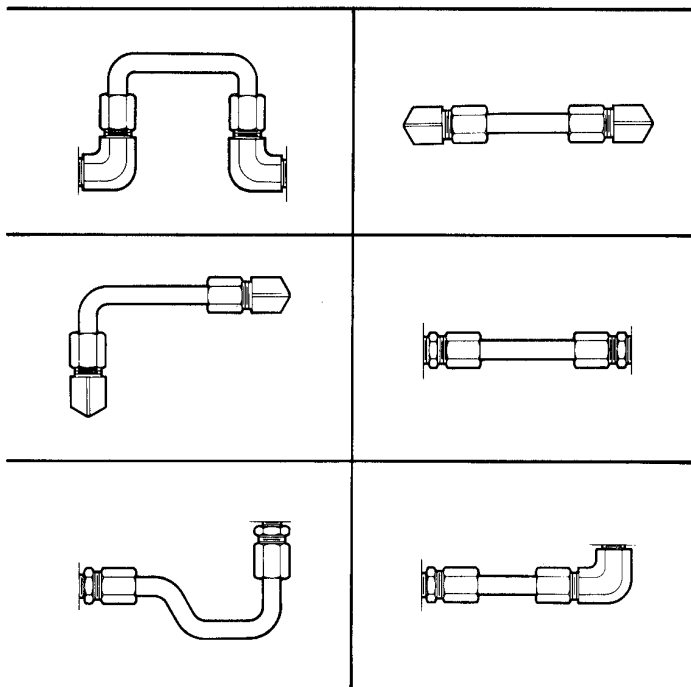
Reference listings to SAE products will meet functional requirements; construction may differ from specification. For further detail consult SAE handbook

Raw material used in the manufacture of brass fittings:

CA 345 ASTM B-453
CA 377 ASTM B-124
CA 360 ASTM B-16

RIGHT

WRONG



PRECAUTIONS

Avoid straight line connections wherever possible, especially in short runs.

Design piping systems symmetrically. They are easier to install and present a neat appearance.

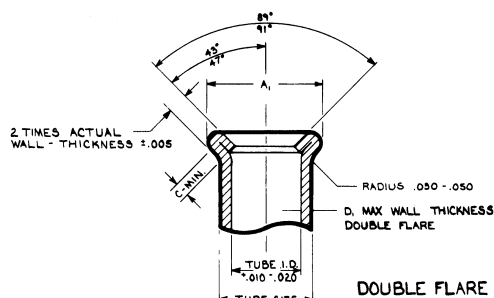
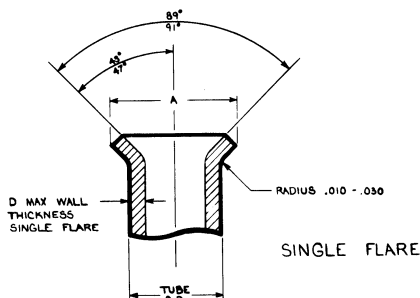
Care should be taken to eliminate stress from tubing lines. Long tubing runs should be supported by brackets or clips. All parts installed on tubing lines such as heavy fittings, valves, etc., should be bolted down to eliminate tubing fatigue.

Before installing tubing, inspect the tube to see that it conforms to the required specifications, is of the correct diameter and wall thickness and is not out of round.

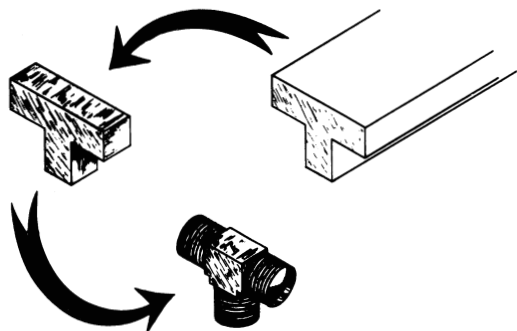
Cut tube ends reasonably square and lightly deburr inside and outside edge. Chamfer on outside edge will destroy bearing of tube end on the fitting seat.

To avoid difficulty in assembly and disconnecting, a sufficient straight length of tube must be allowed from the end of the tube to the start of the bend. Allow twice the length of the nut as a minimum. Tubes should be formed to assemble with true alignment to the center line of the fittings, without distortion or tension.

Recommended Tubing Flare Dimensions

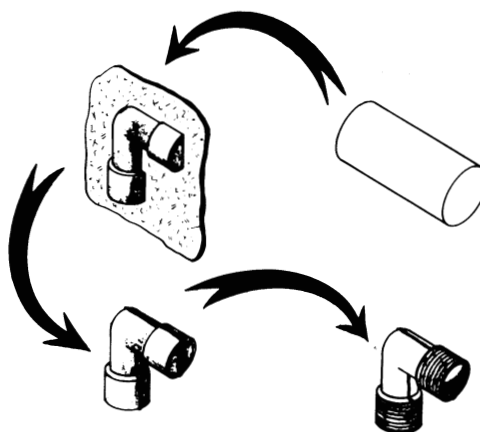


Nominal Tube OD		A Single Flare Diameter				A ₁ Double Flare Diameter				B Single Flare Radius		B ₁ Double Flare Radius		C Double Flare Coined Seat Length		D _b Single Flare Wall Thickness		D _{1b} Double Flare Wall Thickness	
in	mm	in		mm		in		mm		in	mm	in	mm	in	mm	in	mm	in	mm
		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.										
1/8	3.18	0.181	0.171	4.59	4.35	0.213	0.198	5.41	5.03	0.02	0.51	0.04	1.02	0.040	1.02	0.035	0.88	0.025	0.63
3/16	4.76	0.249	0.239	6.32	6.08	0.280	0.265	7.11	6.74	0.02	0.51	0.04	1.02	0.040	1.02	0.035	0.88	0.028	0.71
1/4	6.35	0.325	0.315	8.25	8.01	0.360	0.345	9.14	8.77	0.02	0.51	0.04	1.02	0.040	1.02	0.049	1.24	0.035	0.83
5/16	7.94	0.404	0.388	10.26	9.86	0.425	0.410	10.79	10.42	0.02	0.51	0.04	1.02	0.062	1.57	0.049	1.24	0.035	0.88
3/8	9.52	0.487	0.471	12.36	11.97	0.500	0.485	12.70	12.32	0.02	0.51	0.04	1.02	0.062	1.57	0.065	1.65	0.049	1.24
7/16	11.11	0.561	0.545	14.24	13.85	0.570	0.555	14.47	14.10	0.02	0.51	0.04	1.02	0.062	1.57	0.065	1.65	0.049	1.24
1/2	12.70	0.623	0.607	15.82	15.42	0.640	0.625	16.25	15.88	0.02	0.51	0.04	1.02	0.062	1.57	0.083	2.10	0.049	1.24
9/16	14.29	0.676	0.660	17.17	16.77	0.712	0.697	18.08	17.71	0.02	0.51	0.04	1.02	0.062	1.57	0.083	2.10	0.049	1.24
5/8	15.88	0.748	0.732	18.99	18.60	0.772	0.757	19.60	19.23	0.02	0.51	0.04	1.02	0.062	1.57	0.095	2.41	0.049	1.24
3/4	19.05	0.916	0.900	23.26	22.86	0.912	0.897	23.16	22.79	0.02	0.51	0.04	1.02	0.062	1.57	0.109	2.76	0.049	1.24
7/8	22.22	1.041	1.025	26.44	26.04	—	—	—	—	0.02	0.51	—	—	—	—	0.109	2.76	—	—
1	25.40	1.157	1.141	29.38	28.99	—	—	—	—	0.02	0.51	—	—	—	—	0.120	3.04	—	—



FORGED FITTINGS

Brass for forged fittings is extruded into round bars, cut to length and then straightened. After straightening, the bars are cut into short lengths (slugs), reheated to the pliable state and pressed between upper and lower die cavities at a pressure in excess of 25,000 pounds per square inch. After cooling, the excess material is trimmed away and the forged blank is ready for machining. This process produces a uniform piece of brass with exceptional strength. Because the grain flow follows the contour of the blank, the finished fitting has high impact strength and is resistant to mechanical shock and vibration.



EXTRUDED FITTINGS

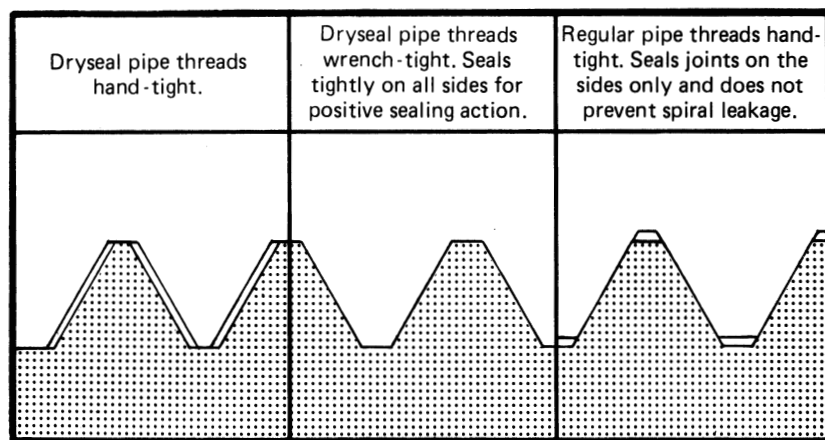
Special shaped bars, as well as hexagon and round bars, are extruded to the required shape, then drawn to size, cut to length and straightened. To do this, the solid, round billet, varying from 8 to 12 inches in diameter, is heated and then forced by a pressure of approximately 80,000 pounds per square inch through a die of the desired shape. The resulting bar is cooled and then drawn again thru additional dies to the desired shape. After straightening, the bar is ready for machining. The process produces a dense, non-porous material.

Dry Seal pipe Threads

DRYSEAL PIPE THREADS

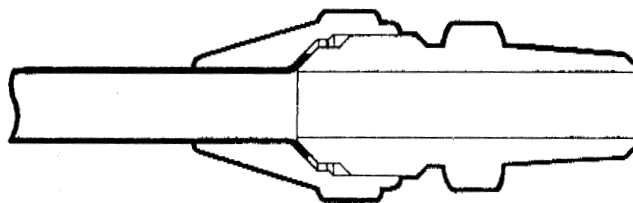
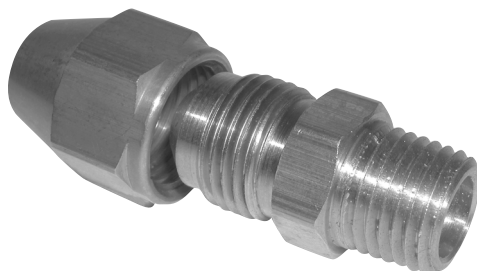
Pipe threads are made to the Dryseal USA (American) Standard Taper Pipe Thread standard, known as NPTF, which seals joints pressure tight.

The dryseal pipe thread roots are wider than the crests. When the threads are wrenched together, the roots crush the sharper crests of the mating threads. This forms a metal to metal seat. Dryseal threads improve the seating characteristics, especially when a thread sealant is used.



	DECIMAL	METRIC
1/64	.0156	0.397
1/32	.0313	0.794
3/64	.0469	1.191
1/16	.0625	1.588
5/64	.0781	1.984
3/32	.0938	2.381
7/64	.1094	2.778
1/8	.1250	3.175
9/64	.1406	3.572
5/32	.1562	3.969
11/64	.1719	4.366
3/16	.1875	4.762
13/64	.2031	5.159
7/32	.2188	5.556
15/64	.2344	5.953
1/4	.2500	6.350
17/64	.2656	6.747
9/32	.2812	7.144
19/64	.2969	7.541
5/16	.3125	7.938
21/64	.3281	8.334
11/32	.3438	8.731
23/64	.3594	9.128
3/8	.3750	9.525
25/64	.3906	9.922
13/32	.4062	10.319
27/64	.4219	10.716
7/16	.4375	11.112
29/64	.4531	11.509
15/32	.4688	11.906
31/64	.4844	12.303
1/2	.5000	12.700

	DECIMAL	METRIC
33/64	.5156	13.097
17/32	.5313	13.494
35/64	.5469	13.891
9/16	.5625	14.288
37/64	.5781	14.684
19/32	.5938	15.081
39/64	.6094	15.478
5/8	.6250	15.875
41/64	.6406	16.272
21/32	.6562	16.669
43/64	.6719	17.066
11/16	.6875	17.462
45/64	.7031	17.859
23/32	.7188	18.256
47/64	.7344	18.653
3/4	.7500	19.050
49/64	.7656	19.447
25/32	.7812	19.844
51/64	.7969	20.241
13/16	.8125	20.638
53/64	.8281	21.034
27/32	.8438	21.431
55/64	.8594	21.828
7/8	.8750	22.225
57/64	.8906	22.822
29/32	.9062	23.019
59/64	.9219	23.416
15/16	.9375	23.812
61/64	.9531	24.209
31/32	.9688	24.606
63/64	.9844	25.003
1	1.0000	25.400



CONSTRUCTION

- Two piece – body and nut
- Straights and shapes are manufactured from CA360, CA345 or CA377 brass
- 45° flare
- Heavy duty flare fittings are manufactured to SAE specifications

ADVANTAGES

- Low cost
- Available with long or short nuts
- Can be assembled and re-assembled repeatedly
- Resists mechanical pull-out
- Shapes are available as extrusions or forgings as indicated

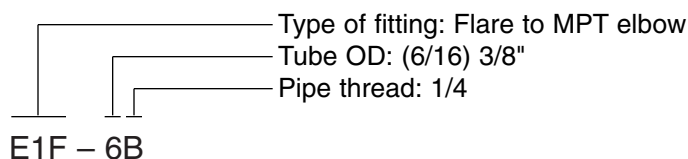
APPLICATION

- Compatible with copper, brass, aluminum and steel hydraulic tubing that can be flared
- Used on low, medium and high pressure lines under the most adverse conditions
- Fair vibration resistance. The long nut offers greater support
- Temperature range from -65° to +250° F.

ORDERING INFORMATION

- Flare tube fittings are supplied less nuts
- Shapes which contain an "F" at the conclusion of the prefix are forged.
For example: E1F-6B is forged
- Nomenclature example:

NOTE: Shapes with an asterisk (*) following the part number will be supplied as forged pattern.

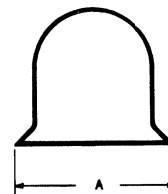


NOTES

- Current price list represents in stock cataloged items.
- Non-stock items and special parts are available on a quotation basis.
- Configurations and dimensions are subject to change without notice.

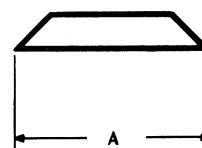
B1 BONNET

PART NUMBER	O.D. TUBE	A
B1-4	1/4	.35
B1-6	3/8	.54
B1-8	1/2	.65
B1-10	5/8	.76



B2 GASKET

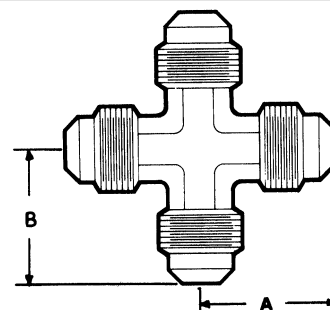
PART NUMBER	O.D. TUBE	A
B2-4	1/4	.35
B2-6	3/8	.54
B2-8	1/2	.65
B2-10	5/8	.76
B2-12	3/4	.94



C1 CROSS TUBE ALL ENDS

PART NUMBER	O.D. TUBE	A	B
C1-4444*	1/4	.89	.89
C1-6666*	3/8	1.00	1.00
C1-8888*	1/2	1.43	1.43
C1-101010*	5/8	1.12	1.12

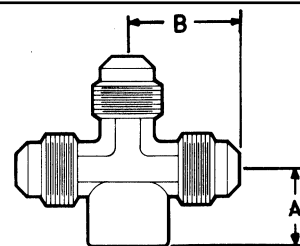
ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING



C2 FEMALE CROSS TUBE TO FPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
C2-666C*	3/8	3/8	.54	1.04
C2-666D*	3/8	1/2	.54	1.22
C2-888D*	1/2	1/2	.65	1.22
C2-888E*	1/2	3/4	.78	1.38

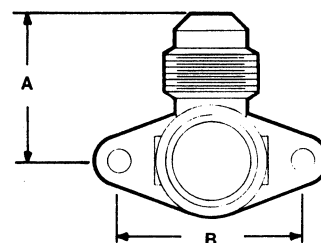
ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING



DE3 DROP EAR ELBOW TUBE TO FPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
DE3-6D*	3/8	1/2	1.23	1.38
DE3-8D*	1/2	1/2	1.31	1.38
DE3-10D*	5/8	1/2	1.37	1.38

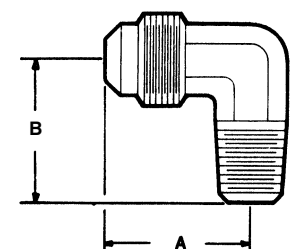
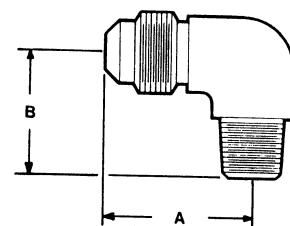
ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING



E1 ELBOW TUBE TO MPT 49 SERIES

REF SAE 010202

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
E1-2A*	1/8	1/8	.62	.68
E1F-3A	3/16	1/8	.76	.76
E1-3A	3/16	1/8	.75	.75
E1-3B*	3/16	1/4	.80	.89
E1F-4A	1/4	1/8	.81	.78
E1-4A	1/4	1/8	.81	.78
E1-4B	1/4	1/4	.91	.93
E1F-4B	1/4	1/4	.81	.88
E1-4C	1/4	3/8	.91	1.04
E1F-4C	1/4	3/8	.97	.95
E1-4D*	1/4	1/2	1.03	1.09
E1F-5A	5/16	1/8	.93	.84
E1-5A	5/16	1/8	.91	.84
E1F-5B	5/16	1/4	.93	.88
E1-5B	5/16	1/4	.91	1.04
E1-5C*	5/16	3/8	.97	.91
E1-6A*	3/8	1/8	.97	.91
E1F-6B	3/8	1/4	.97	1.04
E1-6B	3/8	1/4	.97	1.04
E1F-6C	3/8	3/8	1.00	.91
E1-6C	3/8	3/8	1.05	1.04
E1-6D*	3/8	1/2	1.09	1.09
E1-6E*	3/8	3/4	1.25	1.19
E1F-8B	1/2	1/4	1.19	1.00
E1-8B	1/2	1/4	1.16	1.09
E1F-8C	1/2	3/8	1.19	1.00
E1-8C	1/2	3/8	1.16	1.09
E1F-8D	1/2	1/2	1.12	1.15
E1-8D	1/2	1/2	1.16	1.25
E1-8E*	1/2	3/4	1.41	1.25
E1-10B*	5/8	1/4	1.58	1.54
E1-10C	5/8	3/8	1.34	1.12
E1F-10D	5/8	1/2	1.28	1.29
E1-10D	5/8	1/2	1.34	1.22
E1-10E*	5/8	3/4	1.38	1.31
E1-12C*	3/4	3/8	1.62	1.44
E1-12D*	3/4	1/2	1.66	1.50
E1-12E*	3/4	3/4	1.66	1.62
E1-14E*	7/8	3/4	1.69	1.78
E1-16E*	1	3/4	1.93	2.04
E1-16F*	1	1	1.93	1.77

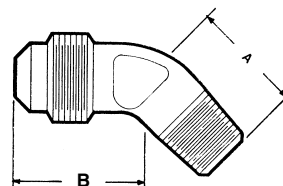
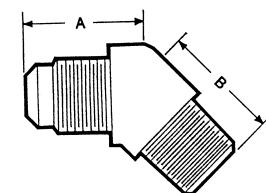


ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

E1-45 ELBOW, 45° TUBE TO MPT 59 SERIES

REF SAE 010302

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
E1-45-4A	1/4	1/8	.64	.67
E1-45-4B	1/4	1/4	.86	.75
E1-45-5A	5/16	1/8	.67	.78
E1-45-5B	5/16	1/4	.86	.81
E1-45-6B	3/8	1/4	.86	.89
E1-45-6C	3/8	3/8	.86	.89
E1-45-6D*	3/8	1/2	1.05	1.08
E1-45-8C	1/2	3/8	1.10	1.10
E1-45-8D	1/2	1/2	1.20	1.44
E1-45-10C*	5/8	3/8	1.19	.97
E1-45-10D	5/8	1/2	1.17	1.23
E1-45-12D*	3/4	1/2	1.30	1.10
E1-45-12E*	3/4	3/4	1.28	1.19

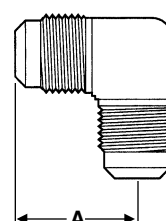
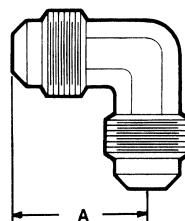


ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

E2 ELBOW TUBE BOTH ENDS 55 SERIES

REF SAE 010201

PART NUMBER	O.D. TUBE	A	B
E2-2*	1/8	.63	.63
E2-3*	3/16	.71	.71
E2-4	1/4	.81	.81
E2-5*	5/16	.94	.94
E2F-6	3/8	1.00	1.00
E2-6	3/8	1.06	1.06
E2-8	1/2	1.22	1.22
E2-10	5/8	1.41	1.41
E2-12*	3/4	1.65	1.65
E2-14*	7/8	1.87	1.87

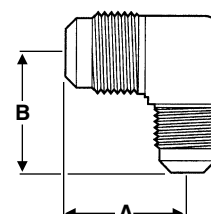
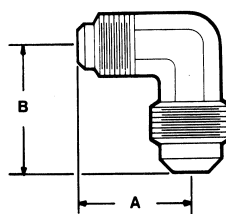


ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

ER2 ELBOW, REDUCING TUBE BOTH ENDS 55 SERIES

REF SAE 010201

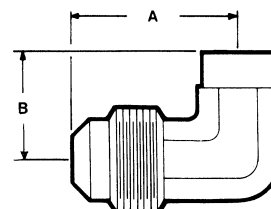
PART NUMBER	O.D. TUBE	A	B
ER2-64*	3/8X1/4	1.00	.91
ER2-84*	1/2X1/4	1.19	.98
ER2-86	1/2X3/8	1.19	1.00
ER2-106*	5/8X3/8	1.24	1.12
ER2-108*	5/8X1/2	1.36	1.22



ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

ES2 ELBOW TUBE TO SOLDER

PART NUMBER	O.D. TUBE	A	B
ES2-44*	1/4X1/4	.81	.62
ES2-66*	3/8X3/8	1.00	.72
ES2-88*	1/2X1/2	.98	.81



ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

E3 ELBOW TUBE TO FPT 50 SERIES

REF SAE 010203

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
E3-3A*	3/16	1/8	.88	.48
E3-4A*	1/4	1/8	1.00	.62
E3-4B*	1/4	1/4	.97	.59
E3-4C*	1/4	3/8	1.00	.75
E3-5A*	5/16	1/8	1.02	.60
E3-5B*	5/16	1/4	1.02	.67
E3-6A*	3/8	1/8	1.06	.88
E3F-6B	3/8	1/4	1.06	.59
E3-6B	3/8	1/4	1.03	.69
E3F-6C	3/8	3/8	1.06	.58
E3-6C	3/8	3/8	1.03	.69
E3-6D*	3/8	1/2	1.16	.66
E3-6E*	3/8	3/4	1.28	.72
E3-8B*	1/2	1/4	1.19	1.00
E3F-8C	1/2	3/8	1.20	.65
E3-8C	1/2	3/8	1.25	.70
E3-8D*	1/2	1/2	1.28	.72
E3-8E*	1/2	3/4	1.41	.72
E3-10C*	5/8	3/8	1.34	1.22
E3-10D*	5/8	1/2	1.38	.76
E3-10E*	5/8	3/4	1.50	.76
E3-12D*	3/4	1/2	1.64	1.31
E3-12E*	3/4	3/4	1.84	1.15
E3-14E*	7/8	3/4	1.88	1.12

ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

E4 ELBOW TUBE TO FEMALE FLARE

USE WITH B2- COPPER GASKET

PART NUMBER	O.D. TUBE	A	B
E4-44*	1/4X1/4	.96	.72
E4-66*	3/8X3/8	1.05	.80

ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

ES4 ELBOW FLARE TO FLARE SWIVEL

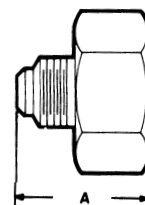
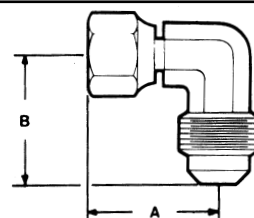
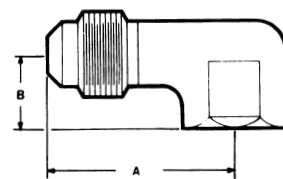
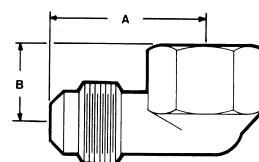
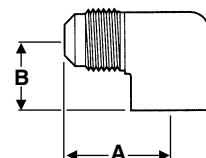
PART NUMBER	O.D. TUBE	A	B
ES4-44*	1/4X1/4	.81	1.15
ES4-66*	3/8X3/8	1.05	1.34
ES4-88*	1/2X1/2	1.26	1.54

ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

K1 CYLINDER VALVE ADAPTER

REF SAE 010165

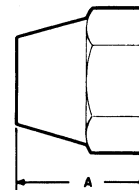
PART NUMBER	O.D. TUBE	PIPE THREAD	A	HEX
K1-G	GASKET			
K1-1	1/4	3/4	1.12	1-1/8
K1-8	1/4	1/2	1.12	1-1/4



41AS MACHINED NUT SAE STANDARD

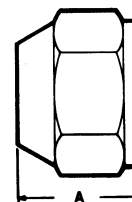
REF SAE 010110

PART NUMBER	O.D. TUBE	A	HEX
41AS-6	3/8	1.00	3/4
41AS-8	1/2	1.12	7/8
41AS-10	5/8	1.31	1-1/16



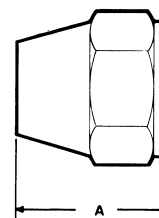
NSE1 MACHINED NUT EXTRA SHORT

PART NUMBER	O.D. TUBE	A	HEX
NSE1-4	1/4	.50	9/16
NSE1-6	3/8	.69	3/4
NSE1-8	1/2	.81	7/8



N1 MACHINED NUT SHORT 41 SERIES

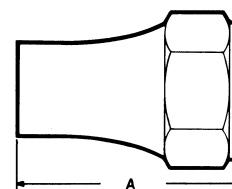
PART NUMBER	O.D. TUBE	A	HEX
N1-2	1/8	.50	3/8
N1-3	3/16	.62	7/16
N1-4	1/4	.75	9/16
N1-5	5/16	.88	5/8
N1-6	3/8	.88	3/4
N1-64	3/8X1/4	.88	3/4
N1-7	7/16	1.06	13/16
N1-8	1/2	1.00	7/8
N1-86	1/2X3/8	1.00	7/8
N1-10	5/8	1.00	1
N1-108	5/8X1/2	1.00	1
N1-12	3/4	1.50	1-1/4
N1-14	7/8	1.18	1-3/8
N1-16	1	1.81	1-5/8



N2 MACHINED NUT LONG

REF SAE 010111

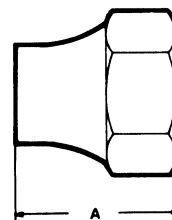
PART NUMBER	O.D. TUBE	A	HEX
N2-2	1/8	.75	3/8
N2-3	3/16	.81	7/16
N2-4	1/4	.94	9/16
N2-5	5/16	1.12	5/8
N2-6	3/8	1.31	3/4
N2-8	1/2	1.62	7/8
N2-10	5/8	1.88	1-1/16
N2-12	3/4	2.19	1-1/4



N4 FORGED NUT LONG

REF SAE 010167

PART NUMBER	O.D. TUBE	A	HEX
N4-4	1/4	.94	3/4
N4-6	3/8	1.06	7/8
N4-8	1/2	1.19	1
N4-10	5/8	1.44	1-1/8
N4-108	5/8X1/2	1.44	1-1/8
N4-12	3/4	1.75	1-3/8


NS4 FORGED NUT SHORT

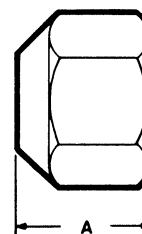
PART NUMBER	O.D. TUBE	A	HEX
NS4-3	3/16	.68	1/2
NS4-4	1/4	.60	5/8
NS4-5	5/16	.63	3/4
NS4-6	3/8	.70	13/16
NS4-8	1/2	.82	15/16
NS4-10	5/8	.95	1-1/16
NS4-12	3/4	1.13	1-3/8
NS4-14	7/8	1.18	1-5/8


NSR4 FORGED NUT SHORT, REDUCING

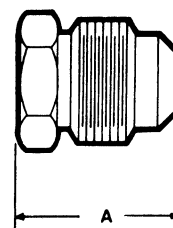
PART NUMBER	O.D. TUBE	A	HEX
NSR4-64	3/8X1/4	.70	13/16
NSR4-65	3/8X5/16	.70	13/16
NSR4-86	1/2X3/8	.82	15/16
NSR4-106	5/8X3/8	.95	1-1/8
NSR4-108	5/8X1/2	.95	1-1/8


N5 CAP 40 SERIES

PART NUMBER	O.D. TUBE	A	HEX
N5-3	3/16	.47	1/2
N5-4	1/4	.47	1/2
N5-5	5/16	.62	5/8
N5-6	3/8	.72	11/16
N5-8	1/2	.69	13/16
N5-10	5/8	.81	15/16
N5-12	3/4	1.19	1-3/8

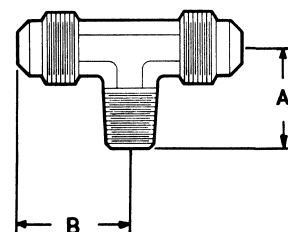
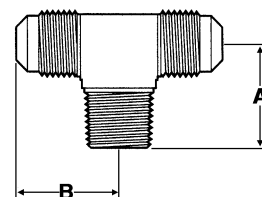

P2 PLUG 39 SERIES

PART NUMBER	O.D. TUBE	A	HEX
P2-3	3/16	.60	1/2
P2-4	1/4	.69	7/16
P2-5	5/16	.78	1/2
P2-6	3/8	.88	5/8
P2-8	1/2	1.00	3/4
P2-10	5/8	1.19	7/8
P2-12	3/4	1.31	1-1/16

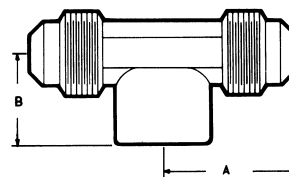


T1 MALE BRANCH TEE TUBE TO TUBE TO MPT 45 SERIES
REF SAE 010425

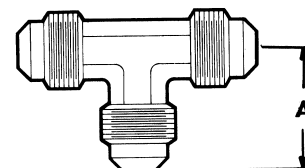
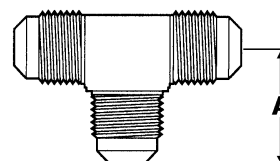
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
T1-2A*	1/8	1/8	.60	.67
T1-3A*	3/16	1/8	.74	.77
T1F-4A	1/4	1/8	.78	.76
T1-4A	1/4	1/8	.81	.82
T1-4B*	1/4	1/4	.88	.88
T1-4C*	1/4	3/8	.93	.98
T1-5A*	5/16	1/8	.90	.79
T1-5B*	5/16	1/4	.95	.93
T1-6A*	3/8	1/8	1.00	.88
T1-6B	3/8	1/4	1.00	.93
T1-6C	3/8	3/8	1.00	.98
T1-6D*	3/8	1/2	1.14	1.20
T1-8C*	1/2	3/8	1.19	1.13
T1-8D	1/2	1/2	1.22	1.23
T1-10C*	5/8	3/8	1.38	1.23
T1-10D*	5/8	1/2	1.41	1.28
T1-12D*	3/4	1/2	1.62	1.60
T1-12E*	3/4	3/4	1.66	1.42


ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING
TF1 FEMALE BRANCH TEE TUBE TO TUBE TO FPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
TF1-4A*	1/4	1/8	.96	.68
TF1-4B*	1/4	1/4	1.00	.75
TF1-6B*	3/8	1/4	1.06	.75
TF1-6C*	3/8	3/8	1.06	.65
TF1-6D*	3/8	1/2	1.16	.68
TF1-8C*	1/2	3/8	1.22	.60
TF1-8D*	1/2	1/2	1.22	.66


ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING
T2 TEE TUBE ALL ENDS 44 SERIES
REF SAE 010401

PART NUMBER	O.D. TUBE	A	B
T2-2*	1/8	.71	.71
T2-3*	3/16	.76	.76
T2F-4	1/4	.78	.78
T2-4	1/4	.86	.86
T2-5*	5/16	.94	.94
T2F-6	3/8	1.00	1.00
T2-6	3/8	.98	.98
T2-8	1/2	1.16	1.16
T2-10	5/8	1.41	1.41
T2-12*	3/4	1.62	1.62


ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

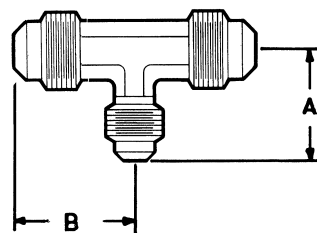
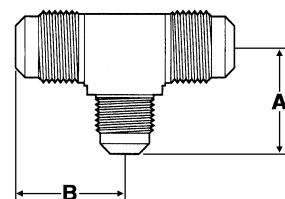
TR2 TEE, REDUCING FLARE ALL ENDS 44 SERIES

REF SAE 010401

PART NUMBER	O.D. TUBE			A	B	C
	1	2	3			
TR2-446*	1/4X1/4X3/8			.91	1.00	.91
TR2-464*	1/4X3/8X1/4			.86	1.00	1.00
TR2-466*	1/4X3/8X3/8			.98	.98	.84
TR2-664	3/8X3/8X1/4			1.00	.88	1.00
TR2-668*	3/8X3/8X1/2			1.00	1.19	1.00
TR2-6610*	3/8X3/8X5/8			1.25	1.44	1.25
TR2-686*	3/8X1/2X3/8			1.05	1.16	1.05
TR2-6106*	3/8X5/8X3/8			1.22	1.16	1.02
TR2-868*	1/2X3/8X1/2			1.13	1.10	1.13
TR2-884*	1/2X1/2X1/4			1.14	.98	1.14
TR2-886	1/2X1/2X3/8			1.20	1.08	1.20
TR2-8810*	1/2X1/2X5/8			1.28	1.40	1.28
TR2-10106*	5/8X5/8X3/8			1.38	1.16	1.38
TR2-10108	5/8X5/8X1/2			1.38	1.28	1.38
TR2-10810*	5/8X1/2X5/8			1.44	1.40	1.25

Read dimensions 1 & 2 across run, 3 is branch

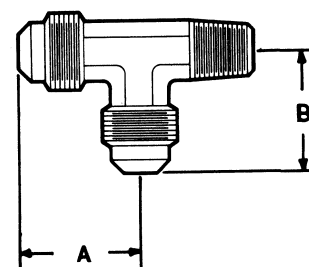
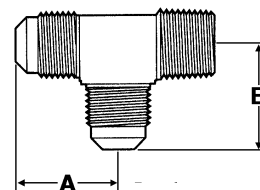
ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING


T3 MALE RUN TEE TUBE TO MPT TO TUBE 51 SERIES

REF SAE 010424

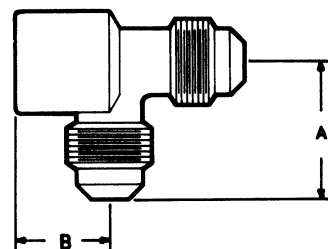
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
T3-3A*	3/16	1/8	.80	.75	.80
T3-4A*	1/4	1/8	.80	.75	.80
T3-4B*	1/4	1/4	.88	.88	.88
T3-4C*	1/4	3/8	.88	1.10	.88
T3-5A*	5/16	1/8	.90	.78	.90
T3-5B*	5/16	1/4	.94	.96	.94
T3-6A*	3/8	1/8	1.00	.88	1.00
T3-6B*	3/8	1/4	1.02	.90	1.02
T3-6C	3/8	3/8	1.02	1.10	1.02
T3-6D*	3/8	1/2	1.12	1.22	1.12
T3-8C*	1/2	3/8	1.16	1.10	1.16
T3-8D*	1/2	1/2	1.20	1.20	1.20
T3-10D*	5/8	1/2	1.40	1.32	1.40
T3-12D*	3/4	1/2	1.64	1.58	1.64
T3-12E*	3/4	3/4	1.62	1.43	1.62

ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING


TF3 FEMALE RUN TEE TUBE TO FPT TO TUBE

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
TF3-6C*	3/8	3/8	.92	.70
TF3-6D*	3/8	1/2	.92	.76

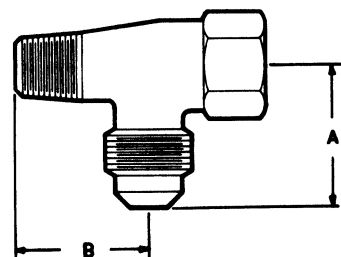
ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING



T4 STREET TEE MPT TO FPT TO TUBE

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
T4-4A*	1/4	1/8	.88	.80
T4-4B*	1/4	1/4	.88	.80

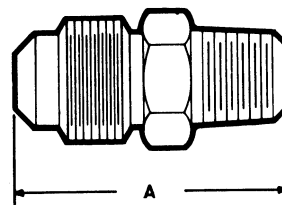
ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING



U1 CONNECTOR TUBE TO MPT 48 SERIES

REF SAE 010102

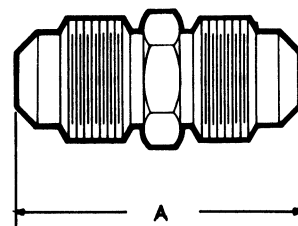
PART NUMBER	O.D. TUBE	PIPE THREAD	A	HEX
U1-2A	1/8	1/8	.92	7/16
U1-3A	3/16	1/8	1.00	7/16
U1-4A	1/4	1/8	1.06	7/16
U1-4B	1/4	1/4	1.12	9/16
U1-4C	1/4	3/8	1.31	11/16
U1-4D	1/4	1/2	1.31	7/8
U1-5A	5/16	1/8	1.31	1/2
U1-5B	5/16	1/4	1.22	9/16
U1-5C	5/16	3/8	1.31	11/16
U1-6A	3/8	1/8	1.25	5/8
U1-6B	3/8	1/4	1.31	5/8
U1-6C	3/8	3/8	1.38	11/16
U1-6D	3/8	1/2	1.44	7/8
U1-6E	3/8	3/4	1.56	1-1/16
U1-8B	1/2	1/4	1.50	3/4
U1-8C	1/2	3/8	1.50	3/4
U1-8D	1/2	1/2	1.56	7/8
U1-8E	1/2	3/4	1.68	1-1/16
U1-10B	5/8	1/4	1.95	7/8
U1-10C	5/8	3/8	1.62	7/8
U1-10D	5/8	1/2	1.75	7/8
U1-10E	5/8	3/4	1.81	1-1/16
U1-12D	3/4	1/2	2.00	1-1/16
U1-12E	3/4	3/4	1.97	1-1/16
U1-14E	7/8	3/4	2.27	1-3/16



U2 UNION TUBE BOTH ENDS 42 SERIES

REF SAE 010101

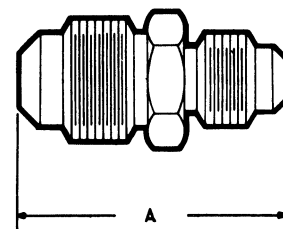
PART NUMBER	O.D. TUBE	A	HEX
U2-2	1/8	.91	7/16
U2-3	3/16	1.00	7/16
U2-4	1/4	1.19	7/16
U2-5	5/16	1.34	1/2
U2-6	3/8	1.50	5/8
U2-8	1/2	1.81	3/4
U2-10	5/8	2.06	7/8
U2-12	3/4	2.44	1-1/16
U2-14	7/8	2.72	1-3/16



UR2 UNION, REDUCING TUBE BOTH ENDS 42 SERIES

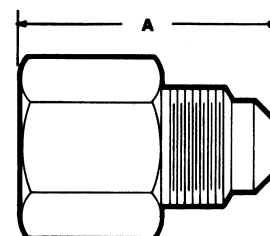
REF SAE 010101

PART NUMBER	O.D. TUBE	A	HEX
UR2-64	3/8X1/4	1.38	5/8
UR2-65	3/8X5/16	1.42	11/16
UR2-84	1/2X1/4	1.50	3/4
UR2-86	1/2X3/8	1.62	3/4
UR2-106	5/8X3/8	1.81	7/8
UR2-108	5/8X1/2	1.94	7/8
UR2-128	3/4X1/2	2.19	1-1/16
UR2-1210	3/4X5/8	2.19	1-1/16


UR3 REDUCER FEMALE TO MALE FLARE

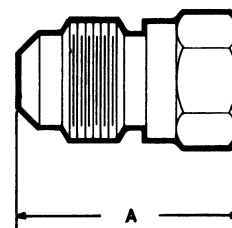
USE WITH B2-COPPER GASKET REF SAE 010105

PART NUMBER	O.D. TUBE FEMALE FLARE	O.D. TUBE MALE FLARE	A	HEX
UR3-46	1/4	3/8	1.12	5/8
UR3-64	3/8	1/4	1.22	13/16
UR3-68	3/8	1/2	1.41	13/16
UR3-86	1/2	3/8	1.44	15/16
UR3-810	1/2	5/8	1.62	15/16
UR3-108	5/8	1/2	1.68	1-1/16


U3 ADAPTER TUBE TO FPT 46 SERIES

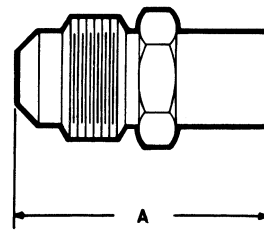
REF SAE 010103

PART NUMBER	O.D. TUBE	PIPE THREAD	A	HEX
U3-3A	3/16	1/8	.97	9/16
U3-4A	1/4	1/8	1.00	1/2
U3-4B	1/4	1/4	1.06	5/8
U3-4C	1/4	3/8	1.18	3/4
U3-5A	5/16	1/8	1.06	9/16
U3-5B	5/16	1/4	1.28	11/16
U3-6A	3/8	1/8	1.09	5/8
U3-6B	3/8	1/4	1.09	5/8
U3-6C	3/8	3/8	1.22	13/16
U3-6D	3/8	1/2	1.31	15/16
U3-6E	3/8	3/4	1.31	1-1/8
U3-8B	1/2	1/4	1.34	13/16
U3-8C	1/2	3/8	1.34	13/16
U3-8D	1/2	1/2	1.44	15/16
U3-8E	1/2	3/4	1.41	1-1/8
U3-10C	5/8	3/8	1.12	7/8
U3-10D	5/8	1/2	1.50	15/16
U3-10E	5/8	3/4	1.53	1-1/8
U3-12D	3/4	1/2	1.75	1-1/8
U3-12E	3/4	3/4	1.88	1-1/4
U3-14E	7/8	3/4	1.94	1-15/16



US3 CONNECTOR FLARE TO SOLDER

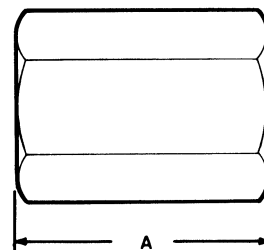
PART NUMBER	O.D. TUBE	SOLDER	A	HEX
US3-44	1/4	1/4	1.00	7/16
US3-46	1/4	3/8	1.00	1/2
US3-66	3/8	3/8	1.25	5/8
US3-88	1/2	1/2	1.50	3/4
US3-1010	5/8	5/8	1.75	7/8
US3-1214	3/4	7/8	1.97	1-1/16



U4 CONNECTOR FLARE BOTH ENDS

USE WITH B2-COPPER GASKET REF SAE 010107

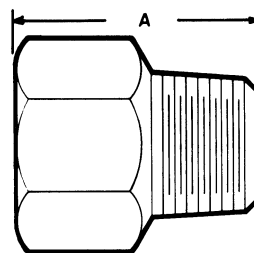
PART NUMBER	O.D. TUBE	A	HEX
U4-4	1/4	1.00	5/8
U4-6	3/8	1.25	13/16
U4-8	1/2	1.44	15/16



U5 ADAPTER FEMALE FLARE TO MPT

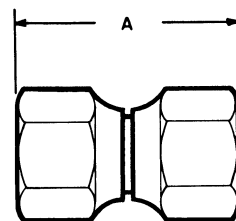
USE WITH B2-COPPER GASKET REF SAE 010106

PART NUMBER	O.D. TUBE	PIPE THREAD	A	HEX
U5-4A	1/4	1/8	.88	5/8
U5-4B	1/4	1/4	1.01	5/8
U5-6B	3/8	1/4	1.28	13/16
U5-8C	1/2	3/8	1.38	15/16



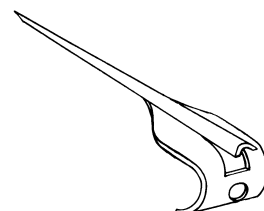
US4 SWIVEL CONNECTOR FLARE BOTH ENDS

PART NUMBER	O.D. TUBE	A
US4-4	1/4X1/4	1.50
US4-5	5/16X5/16	1.52
US4-6	3/8X3/8	1.55
US4-64	3/8X1/4	1.48
US4-8	1/2X1/2	1.85
US4-86	1/2X3/8	1.73
US4-10	5/8X5/8	2.15
US4-108	5/8X1/2	1.96
US4-12	3/4X3/4	2.50



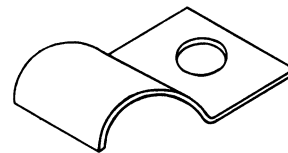
J TUBE STRAP

PART NUMBER	O.D. TUBE
J-6	3/8
J-8	1/2
J-10	5/8



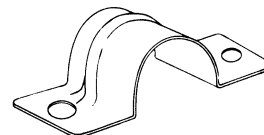
OTS TUBE STRAP

PART NUMBER	O.D. TUBE
OTS-4	1/4
OTS-6	3/8
OTS-8	1/2



TS TUBE STRAP

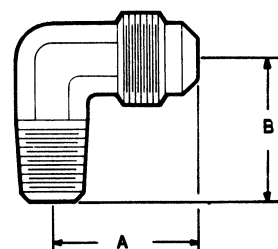
PART NUMBER	O.D. TUBE
TS-6	3/8
TS-8	1/2



RE1 ELBOW FLARE TO MPT

REF SAE 010202

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
RE1-4A*	1/4	1/8	.82	.78
RE1-4B*	1/4	1/4	.91	.94
RE1-4C*	1/4	3/8	.94	1.03
RE1-5A*	5/16	1/8	.91	.78
RE1-5B*	5/16	1/4	.97	.94
RE1-6A*	3/8	1/8	1.03	.91
RE1-6B*	3/8	1/4	1.00	1.06
RE1-6C*	3/8	3/8	1.06	1.09
RE1-6D*	3/8	1/2	1.16	1.28
RE1-8B*	1/2	1/4	1.25	1.19
RE1-8C*	1/2	3/8	1.22	1.12
RE1-8D*	1/2	1/2	1.28	1.38
RE1-8E*	1/2	3/4	1.41	1.41
RE1-10C*	5/8	3/8	1.41	1.25
RE1-10D*	5/8	1/2	1.41	1.38
RE1-10E*	5/8	3/4	1.47	1.50



ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

RNS4 FORGED FLARE NUT

REF SAE 010166

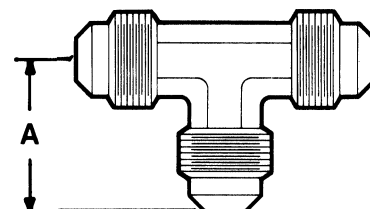
PART NUMBER	O.D. TUBE	A	HEX
RNS4-4	1/4	.62	3/4
RNS4-6	3/8	.72	7/8
RNS4-8	1/2	.86	1
RNS4-10	5/8	.98	1-1/8
RNS4-12	3/4	1.12	1-3/8



RT2 TEE TUBE ALL ENDS

REF SAE 010401

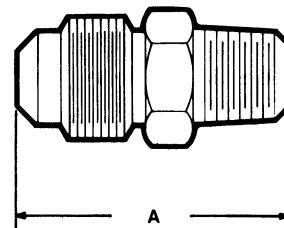
PART NUMBER	O.D. TUBE	A	B
RT2-4*	1/4	.88	.88
RT2-6*	3/8	1.06	1.06
RT2-8*	1/2	1.22	1.22
RT2-10*	5/8	1.41	1.41



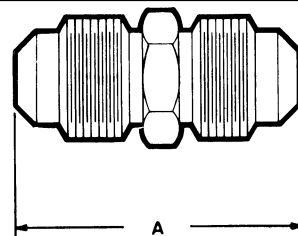
ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

RU1 CONNECTOR TUBE TO MPT
REF SAE 010102

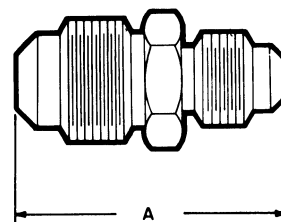
PART NUMBER	O.D. TUBE	PIPE THREAD	A	HEX
RU1-4A	1/4	1/8	1.06	7/16
RU1-4B	1/4	1/4	1.25	9/16
RU1-4C	1/4	3/8	1.31	11/16
RU1-4D	1/4	1/2	1.56	7/8
RU1-5A	5/16	1/8	1.16	1/2
RU1-5B	5/16	1/4	1.34	9/16
RU1-6A	3/8	1/8	1.25	5/8
RU1-6B	3/8	1/4	1.44	5/8
RU1-6C	3/8	3/8	1.44	11/16
RU1-6D	3/8	1/2	1.69	7/8
RU1-6E	3/8	3/4	1.81	1-1/16
RU1-8B	1/2	1/4	1.62	3/4
RU1-8C	1/2	3/8	1.62	3/4
RU1-8D	1/2	1/2	1.88	7/8
RU1-8E	1/2	3/4	1.94	1-1/16
RU1-10C	5/8	3/8	1.81	7/8
RU1-10D	5/8	1/2	2.00	7/8
RU1-10E	5/8	3/4	2.06	1-1/16


RU2 UNION TUBE BOTH ENDS
REF SAE 010101

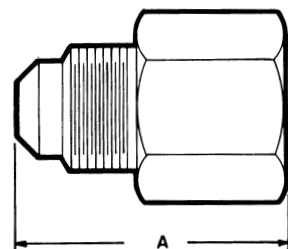
PART NUMBER	O.D. TUBE	A	HEX
RU2-4	1/4	1.19	7/16
RU2-6	3/8	1.50	5/8
RU2-8	1/2	1.81	3/4
RU2-10	5/8	2.12	7/8
RU2-12	3/4	2.44	1-1/16

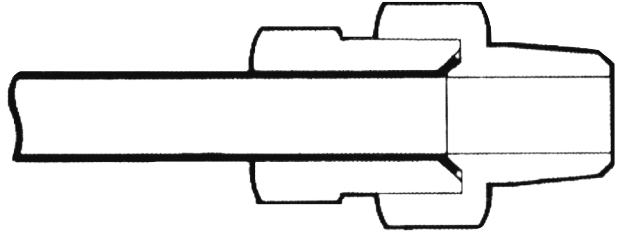

RUR2 UNION, REDUCING TUBE BOTH ENDS
REF SAE 010101

PART NUMBER	O.D. TUBE	A	HEX
RUR2-64	3/8X1/4	1.38	5/8
RUR2-86	1/2X3/8	1.69	3/4
RUR2-106	5/8X3/8	1.89	7/8
RUR2-108	5/8X1/2	2.00	7/8


RU3 ADAPTER TUBE TO FPT
REF SAE 010103

PART NUMBER	O.D. TUBE	PIPE THREAD	A	HEX
RU3-4A	1/4	1/8	1.03	9/16
RU3-4B	1/4	1/4	1.25	11/16
RU3-6B	3/8	1/4	1.31	13/16
RU3-6C	3/8	3/8	1.38	13/16
RU3-6D	3/8	1/2	1.62	1
RU3-8C	1/2	3/8	1.50	13/16
RU3-8D	1/2	1/2	1.75	1
RU3-10D	5/8	1/2	1.81	1
RU3-10E	5/8	3/4	1.91	1-1/4



**CONSTRUCTION**

- Two piece – body and nut
- Straights and shapes are manufactured from CA360 or CA345 brass except for steel nuts as indicated

ADVANTAGES

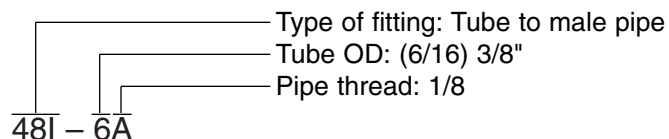
- Low cost
- Can be assembled and disassembled repeatedly
- Resists mechanical pull-out
- Seats and threads are recessed and protected from damage
- Short bodies and nuts allow a compact installation

APPLICATIONS

- Compatible with copper, brass, aluminum and steel hydraulic tubing that can be flared
- Used on low, medium or high pressure lines
- Fair vibration resistance
- Temperature range from -65° to +250° F.

ORDERING INFORMATION

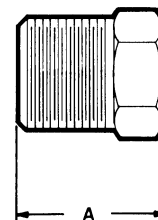
- Inverted flare fittings are supplied less nuts
- Nomenclature example:

**NOTES**

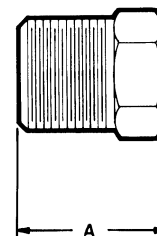
- Current price list represents in stock cataloged items.
- Non-stock items and special parts are available on a quotation basis.
- Configurations and dimensions are subject to change without notice.

41IB NUT, BRASS
REF SAE 040110

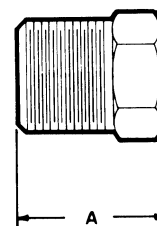
PART NUMBER	O.D. TUBE	A	HEX
41IB-2	1/8	.52	5/16
41IB-3	3/16	.56	3/8
41IB-4	1/4	.56	7/16
41IB-5	5/16	.62	1/2
41IB-6	3/8	.66	5/8
41IB-8	1/2	.74	3/4
41IB-10	5/8	.81	7/8


41IS NUT, STEEL
REF SAE 040110

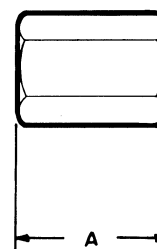
PART NUMBER	O.D. TUBE	A	HEX
41IS-2	1/8	.52	5/16
41IS-3	3/16	.52	3/8
41IS-4	1/4	.56	7/16
41IS-5	5/16	.62	1/2
41IS-6	3/8	.66	5/8
41IS-8	1/2	.74	3/4
41IS-10	5/8	.80	7/8
41IS-12	3/4	.88	1-1/16


41IP PLUG

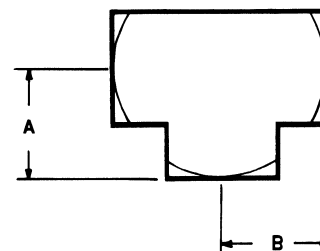
PART NUMBER	O.D. TUBE	A	HEX
41IP-3	3/16	.50	3/8
41IP-4	1/4	.56	7/16
41IP-5	5/16	.62	1/2
41IP-6	3/8	.67	5/8


42I UNION TUBE BOTH ENDS
REF SAE 040101

PART NUMBER	O.D. TUBE	A	HEX
42I-2	1/8	.60	13/32
42I-3	3/16	.63	15/32
42I-4	1/4	.63	17/32
42I-5	5/16	.71	19/32
42I-6	3/8	.81	3/4
42I-8	1/2	.92	29/32

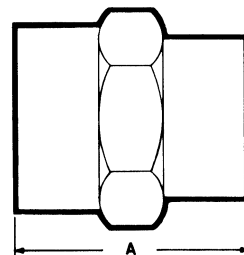

44I TEE TUBE ALL ENDS
REF SAE 040401

PART NUMBER	O.D. TUBE	A	B	C
44I-3	3/16	1.10	.55	.39
44I-4	1/4	1.12	.56	.42
44I-5	5/16	1.26	.63	.45
44I-6	3/8	1.48	.74	.56
44I-8	1/2	1.76	.88	.60

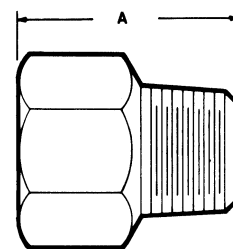


46I ADAPTER TUBE TO FPT
REF SAE 040103

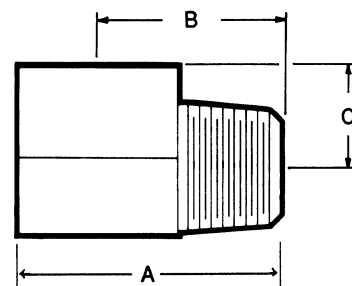
PART NUMBER	O.D. TUBE	PIPE THREAD	A	HEX
46I-3A	3/16	1/8	.76	1/2
46I-4A	1/4	1/8	.71	17/32
46I-5A	5/16	1/8	.79	19/32
46I-6B	3/8	1/4	1.04	3/4
46I-8C	1/2	3/8	1.10	29/32


48I CONNECTOR TUBE TO MPT
REF SAE 040102

PART NUMBER	O.D. TUBE	PIPE THREAD	A	HEX
48I-2A	1/8	1/8	.63	13/32
48I-3A	3/16	1/8	.70	15/32
48I-4A	1/4	1/8	.74	17/32
48I-4B	1/4	1/4	.89	5/16
48I-5A	5/16	1/8	.79	19/32
48I-5B	5/16	1/4	.98	19/32
48I-6A	3/8	1/8	.86	3/4
48I-6B	3/8	1/4	1.03	3/4
48I-6C	3/8	3/8	1.03	3/4
48I-8B	1/2	1/4	1.07	29/32
48I-8C	1/2	3/8	1.07	29/32
48I-8D	1/2	1/2	1.26	29/32
48I-10D	5/8	1/2	1.32	1-1/16

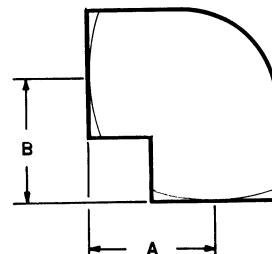

49I ELBOW, 90° TUBE TO MPT
REF SAE 040202

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
49I-2A	1/8	1/8	.79	.58	.27
49I-3A	3/16	1/8	.85	.61	.27
49I-4A	1/4	1/8	.92	.65	.33
49I-4B	1/4	1/4	1.10	.83	.28
49I-5A	5/16	1/8	.95	.68	.48
49I-5B	5/16	1/4	1.16	.86	.45
49I-6A	3/8	1/8	1.13	.75	.53
49I-6B	3/8	1/4	1.26	.92	.45
49I-6C	3/8	3/8	1.32	.94	.50
49I-8B	1/2	1/4	1.48	1.02	.55
49I-8C	1/2	3/8	1.42	.99	.53
49I-8D	1/2	1/2	1.67	1.22	.66
49I-10D	5/8	1/2	1.82	1.25	.67

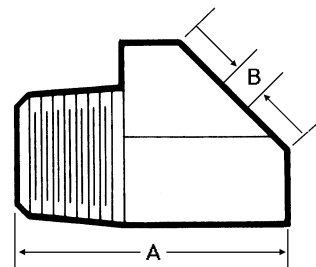


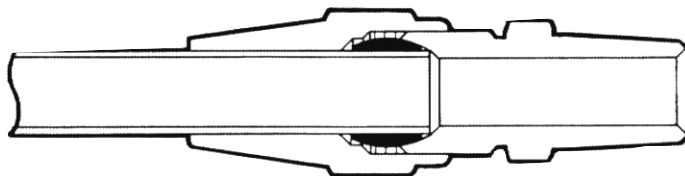
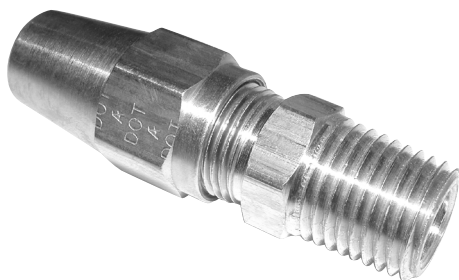
50I ELBOW TUBE TO FPT
REF SAE 040203

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
50I-4A	1/4	1/8	.53	.53
50I-6B	3/8	1/4	.67	.68


94I ELBOW, 45° TUBE TO MPT
REF SAE 040302

PART NUMBER	O.D. TUBE	PIPE THREAD	A	FLOW DIAMETER
				B
94I-3A	3/16	1/8	.88	.125
94I-4A	1/4	1/8	.94	.187
94I-5A	5/16	1/8	1.00	.220
94I-5B	5/16	1/4	1.16	.220
94I-6B	3/8	1/4	1.34	.283
94I-8C	1/2	3/8	1.44	.375





CONSTRUCTION

- Three piece – body, nut and sleeve
- Straights and shapes are manufactured from CA360 or CA345 brass
- May also be used for nylon tubing by using the insert, sleeve and nut from the NAB line.

ADVANTAGES

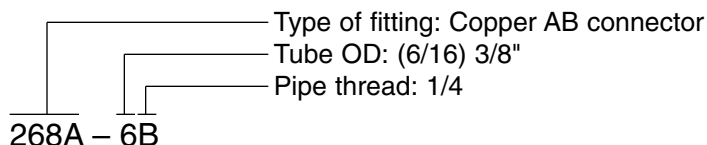
- No special tubing preparation
- Ease of assembly

APPLICATIONS

- Meets DOT and SAE standards
- For copper tubing air brake systems
- Working pressures up to 400 p;si. Temperature range of —65° to +250° F.
- Fair vibration resistance

ORDERING INFORMATION

- Fitting is supplied as an assembly, including the body, nut and sleeve. If body only is desired, place the letter “B” in front of the part number.
- To order fittings with Vibraseal, add “VS” to prefix. Example: VS268A-6B
- Nomenclature example:



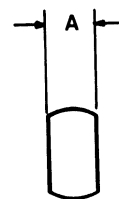
NOTES

- Current price list represents in stock cataloged items.
- Non-stock items and special parts are available on a quotation basis.
- Configurations and dimensions are subject to change without notice.

260A SLEEVE

REF SAE 120115

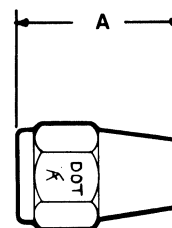
PART NUMBER	O.D. TUBE	A
260A-4	1/4	.25
260A-6	3/8	.31
260A-8	1/2	.38
260A-10	5/8	.44
260A-12	3/4	.50



261A NUT

REF SAE 120111

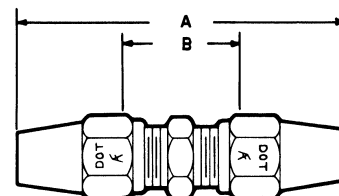
PART NUMBER	O.D. TUBE	A	HEX
261A-4	1/4	.75	9/16
261A-6	3/8	1.13	5/8
261A-8	1/2	1.25	1-3/16
261A-10	5/8	1.38	15/16
261A-12	3/4	1.56	1-1/8



262A UNION, TUBE BOTH ENDS

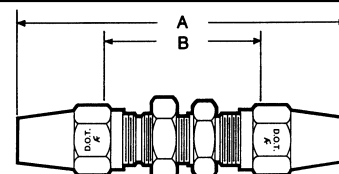
REF SAE 120101BA

PART NUMBER	O.D. TUBE	A	B	HEX
262A-4	1/4	2.05	.87	7/16
262A-6	3/8	2.94	1.12	9/16
262A-8	1/2	3.21	1.33	11/16
262A-10	5/8	3.57	1.45	13/16
262A-12	3/4	4.12	1.62	1



262BH BULKHEAD UNION, TUBE BOTH ENDS

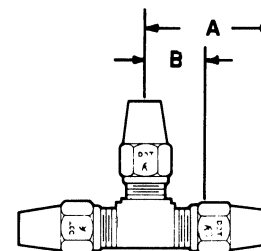
PART NUMBER	O.D. TUBE	A	B
262BH-6	3/8	3.1	1.62
262BH-8	1/2	3.80	1.88



264A TEE, TUBE ALL ENDS

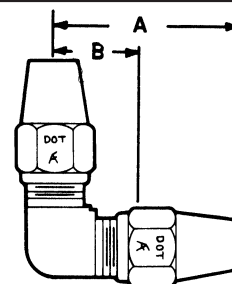
REF SAE 120401BA

PART NUMBER	O.D. TUBE	A	B	C
264A-44	1/4	2.44	1.22	.63
264A-66	3/8	3.48	1.74	.83
264A-88	1/2	3.82	1.91	.97
264A-1010	5/8	4.38	2.19	1.13

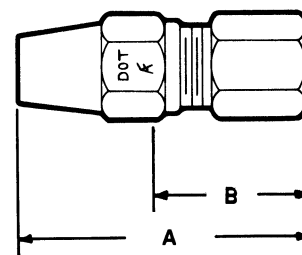


265A ELBOW, TUBE BOTH ENDS
REF SAE 120201BA

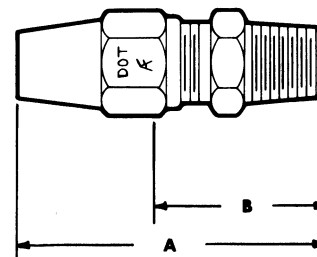
PART NUMBER	O.D. TUBE	A	B
265A-44	1/4	1.25	.66
265A-66	3/8	1.71	.80
265A-88	1/2	1.91	.97
265A-1010	5/8	2.22	1.09


266A ADAPTER, TUBE TO FPT
REF SAE 120103BA

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
266A-4A	1/4	1/8	1.44	.85	9/16
266A-4B	1/4	1/4	1.67	1.08	11/16
266A-6A	3/8	1/8	1.81	.90	9/16
266A-6B	3/8	1/4	2.10	1.19	11/16
266A-6C	3/8	3/8	2.10	1.19	7/8
266A-8C	1/2	3/8	2.22	1.28	7/8
266A-8D	1/2	1/2	2.35	1.45	1-1/16
266A-10D	5/8	1/2	2.57	1.51	1-1/16

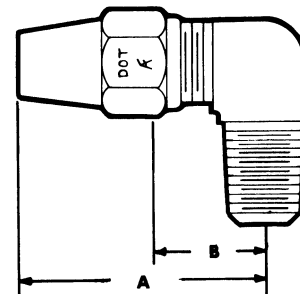

268A CONNECTOR, TUBE TO MPT
REF SAE 120102BA

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
268A-4A	1/4	1/8	1.51	.92	7/16
268A-4B	1/4	1/4	1.72	1.13	9/16
268A-4C	1/4	3/8	1.71	1.13	11/16
268A-6A	3/8	1/8	1.94	1.03	9/16
268A-6B	3/8	1/4	2.15	1.24	9/16
268A-6C	3/8	3/8	2.15	1.24	11/16
268A-6D	3/8	1/2	2.37	1.46	7/8
268A-8B	1/2	1/4	2.30	1.36	11/16
268A-8C	1/2	3/8	2.30	1.36	11/16
268A-8D	1/2	1/2	2.49	1.55	7/8
268A-10C	5/8	3/8	2.48	1.42	13/16
268A-10D	5/8	1/2	2.67	1.61	7/8
268A-12D	3/4	1/2	2.91	1.71	1
268A-12E	3/4	3/4	2.97	1.72	1-1/16

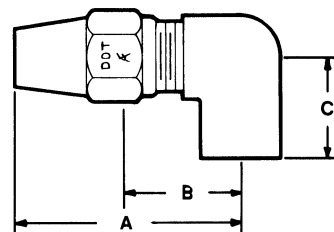


269A ELBOW TUBE TO MPT
REF SAE 120202BA

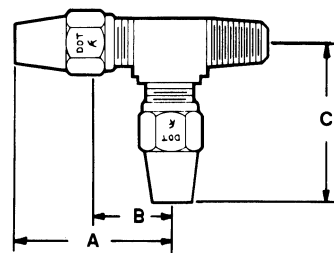
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
269A-4A	1/4	1/8	1.22	.63	.67
269A-4B	1/4	1/4	1.34	.75	.93
269A-4C	1/4	3/8	1.72	1.13	1.13
269A-6A	3/8	1/8	1.74	.83	.88
269A-6B	3/8	1/4	1.74	.83	.96
269A-6C	3/8	3/8	1.85	.94	1.10
269A-6D	3/8	1/2	1.91	1.00	1.28
269A-8B	1/2	1/4	1.91	.97	1.10
269A-8C	1/2	3/8	1.88	.94	1.10
269A-8D	1/2	1/2	2.01	1.07	1.25
269A-10C	5/8	3/8	2.19	1.13	1.13
269A-10D	5/8	1/2	2.19	1.13	1.25
269A-12D	3/4	1/2	2.45	1.20	1.34


270A ELBOW, 90° TUBE TO FPT
REF SAE 120203BA

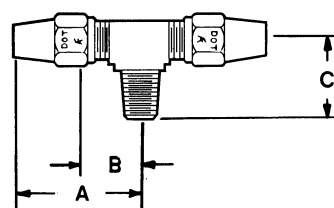
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
270A-4A	1/4	1/8	1.27	.69	.52
270A-6A	3/8	1/8	1.72	.83	.59
270A-6B	3/8	1/4	1.81	.90	.81
270A-6C	3/8	3/8	1.85	.98	.86
270A-8C	1/2	3/8	1.98	1.04	.83
270A-8D	1/2	1/2	2.08	1.14	1.19
270A-10D	5/8	1/2	2.29	1.23	1.19


271A MALE RUN TEE, TUBE TO MPT TO TUBE
REF SAE 120424BA

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
271A-4A	1/4	1/8	1.20	.63	.70
271A-4B	1/4	1/4	1.25	.83	.93
271A-6B	3/8	1/4	1.68	.83	.93
271A-6C	3/8	3/8	1.70	.89	1.66
271A-8C	1/2	3/8	1.90	.97	1.16
271A-8D	1/2	1/2	1.94	1.03	1.90

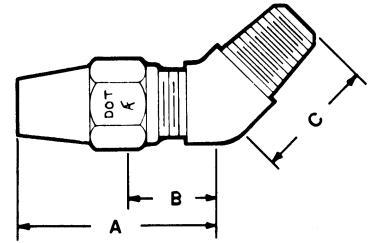

272A MALE BRANCH TEE, TUBE TO TUBE TO MPT
REF SAE 120425BA

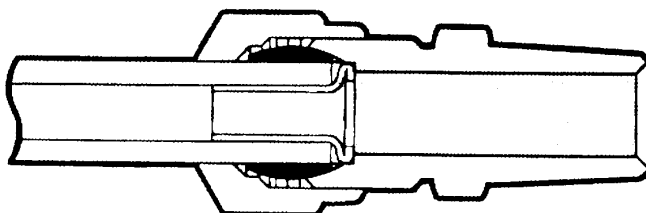
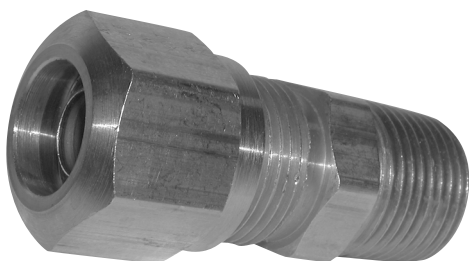
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
272A-4A	1/4	1/8	1.20	.63	.76
272A-4B	1/4	1/4	1.25	.69	.86
272A-6A	3/8	1/8	1.62	.83	.81
272A-6B	3/8	1/4	1.68	.83	.93
272A-6C	3/8	3/8	1.72	.86	1.10
272A-8C	1/2	3/8	1.91	.97	1.10
272A-8D	1/2	1/2	2.00	1.00	1.10



279A ELBOW, 45° TUBE TO MPT
REF SAE 120302BA

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
279A-4A	1/4	1/8	1.20	.61	.86
279A-4B	1/4	1/4	1.18	.60	.85
279A-6A	3/8	1/8	1.63	.61	.86
279A-6B	3/8	1/4	1.63	.72	.86
279A-6C	3/8	3/8	1.60	.69	.91
279A-6D	3/8	1/2	1.67	.78	1.16
279A-8C	1/2	3/8	1.79	.85	.95
279A-8D	1/2	1/2	1.83	.87	1.16
279A-10D	5/8	1/2	2.00	.94	1.17



**CONSTRUCTION**

- Three piece assembly – body, nut and sleeve with pressed-in insert
- Straights and shapes are manufactured from CA360 or CA345 brass

ADVANTAGES

- No special tubing preparation
- Ease of assembly

APPLICATIONS

- Meets specifications and standards of SAE and DOT FMVSS 571.106 air brake specifications
- Used with J844 Type A and B nylon tubing
- Used in air brake and air accessory systems
- Working pressures up to 150 psi, temperature range of –40° to 200° F.
- Excellent vibration resistance

ORDERING INFORMATION

- Fitting is supplied as an assembly, including the body, nut and sleeve with pressed-in insert.
- Nomenclature example:

68NAB – 6C

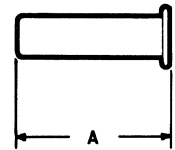
Type of fitting: Nylon airbrake connector
Tube OD: (6/16) 3/8"
Pipe thread: 3/8"

NOTES

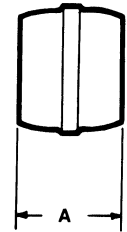
- Current price list represents in stock cataloged items.
- Non-stock items and special parts are available on a quotation basis.
- Configurations and dimensions are subject to change without notice.

59A INSERT

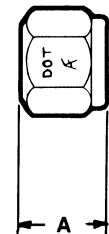
PART NUMBER	O.D. TUBE	A
59A-4	1/4	.51
59A-6	3/8	.64
59A-8	1/2	.81
59A-10	5/8	.86
59A-12	3/4	1.06


60NAB SLEEVE
REF SAE 100115BA

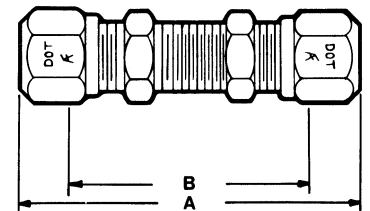
PART NUMBER	O.D. TUBE	A
60NAB-4	1/4	.31
60NAB-6	3/8	.39
60NAB-8	1/2	.43
60NAB-10	5/8	.44
60NAB-12	3/4	.54


61NAB NUT
REF SAE 100110BA

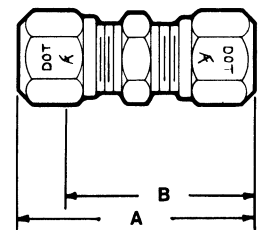
PART NUMBER	O.D. TUBE	A	HEX
61NAB-4	1/4	.45	9/16
61NAB-6	3/8	.56	5/8
61NAB-8	1/2	.66	13/16
61NAB-10	5/8	.74	15/16
61NAB-12	3/4	.81	1-1/8


62NABH BULKHEAD UNION, TUBE BOTH ENDS

PART NUMBER	O.D. TUBE	A	B	HEX
62NABH-6	3/8	2.90	1.10	9/16
62NABH-8	1/2	3.20	1.27	11/16

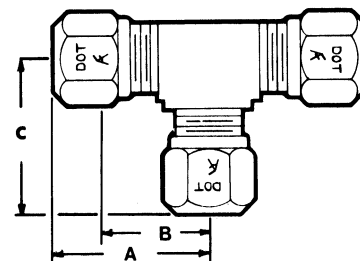

62NAB UNION, TUBE BOTH ENDS
REF SAE 100101BA

PART NUMBER	O.D. TUBE	A	B	HEX
62NAB-4	1/4	1.45	.87	7/16
62NAB-6	3/8	1.80	1.12	9/16
62NAB-8	1/2	2.03	1.33	11/16
62NAB-10	5/8	2.29	1.45	13/16
62NAB-12	3/4	2.62	1.62	1

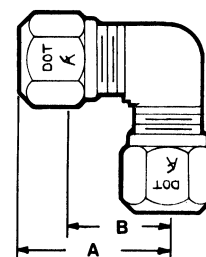


64NAB TEE, TUBE ALL ENDS
REF SAE 100401BA

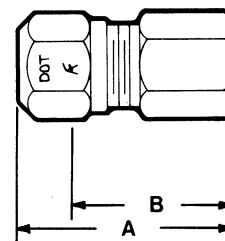
PART NUMBER	O.D. TUBE	A	B	C
64NAB-4	1/4	1.84	.63	.92
64NAB-6	3/8	2.34	.83	1.17
64NAB-8	1/2	2.64	.97	1.32
64NAB-10	5/8	3.10	1.13	1.55


65NAB ELBOW, TUBE BOTH ENDS
REF SAE 100201BA

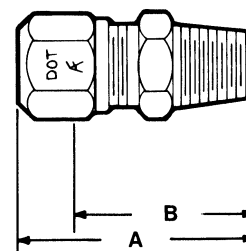
PART NUMBER	O.D. TUBE	A	B
65NAB-4	1/4	1.00	.62
65NAB-6	3/8	1.14	.80
65NAB-8	1/2	1.32	.97
65NAB-10	5/8	1.60	1.09


66NAB ADAPTER, TUBE TO FPT
REF SAE 100103BA

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
66NAB-4A	1/4	1/8	1.18	.85	9/16
66NAB-4B	1/4	1/4	1.40	1.06	11/16
66NAB-6A	3/8	1/8	1.50	1.00	9/16
66NAB-6B	3/8	1/4	1.60	1.18	11/16
66NAB-6C	3/8	3/8	1.71	1.18	7/8
66NAB-8C	1/2	3/8	1.80	1.27	7/8
66NAB-8D	1/2	1/2	1.89	1.44	1-1/16

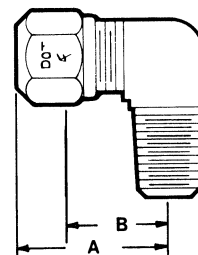

68NAB CONNECTOR, TUBE TO MPT
REF SAE 100102BA

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
68NAB-4A	1/4	1/8	1.21	.92	7/16
68NAB-4B	1/4	1/4	1.42	1.13	9/16
68NAB-4C	1/4	3/8	1.46	1.13	11/16
68NAB-6A	3/8	1/8	1.37	1.03	9/16
68NAB-6B	3/8	1/4	1.58	1.24	9/16
68NAB-6C	3/8	3/8	1.58	1.24	11/16
68NAB-6D	3/8	1/2	1.80	1.46	7/8
68NAB-8B	1/2	1/4	1.71	1.36	11/16
68NAB-8C	1/2	3/8	1.71	1.36	11/16
68NAB-8D	1/2	1/2	1.90	1.55	7/8
68NAB-10C	5/8	3/8	1.84	1.42	13/16
68NAB-10D	5/8	1/2	2.03	1.61	7/8
68NAB-12D	3/4	1/2	2.21	1.71	1
68NAB-12E	3/4	3/4	2.22	1.72	1-1/16

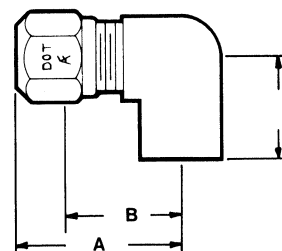


69NAB ELBOW, 90° TUBE TO MPT
REF SAE 100202BA

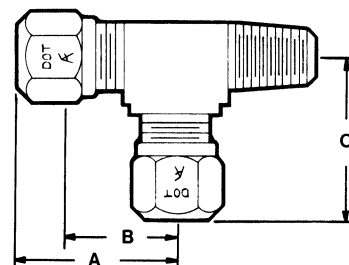
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
69NAB-4A	1/4	1/8	.92	.63	.67
69NAB-4B	1/4	1/4	1.04	.75	.93
69NAB-4C	1/4	3/8	1.16	.73	.86
69NAB-6A	3/8	1/8	1.17	.83	.88
69NAB-6B	3/8	1/4	1.17	.83	.96
69NAB-6C	3/8	3/8	1.28	.94	1.10
69NAB-6D	3/8	1/2	1.34	1.00	1.28
69NAB-8B	1/2	1/4	1.32	.97	1.10
69NAB-8C	1/2	3/8	1.29	.94	1.10
69NAB-8D	1/2	1/2	1.42	1.07	1.25
69NAB-10C	5/8	3/8	1.55	1.13	1.13
69NAB-10D	5/8	1/2	1.55	1.13	1.28
69NAB-12D	3/4	1/2	1.70	1.20	1.34


70NAB ELBOW, TUBE TO FPT
REF SAE 100203BA

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
70NAB-4A	1/4	1/8	1.02	.68	.53
70NAB-6A	3/8	1/8	1.30	.83	.59
70NAB-6B	3/8	1/4	1.81	.90	.81
70NAB-6C	3/8	3/8	1.89	.98	.86
70NAB-8C	1/2	3/8	1.60	1.03	.82
70NAB-8D	1/2	1/2	1.60	1.13	1.01

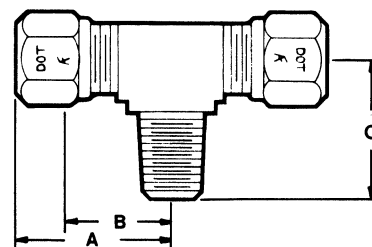

71NAB MALE RUN TEE, TUBE TO MPT TO TUBE
REF SAE 100424BA

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
71NAB-4A	1/4	1/8	.95	.63	.70
71NAB-4B	1/4	1/4	1.00	.68	.87
71NAB-6B	3/8	1/4	1.25	.83	.93
71NAB-6C	3/8	3/8	1.30	.89	1.10
71NAB-8C	1/2	3/8	1.46	.97	1.10
71NAB-8D	1/2	1/2	1.56	1.03	1.18

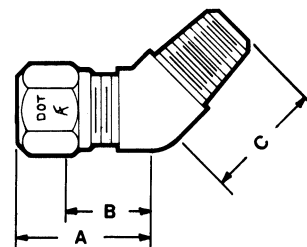


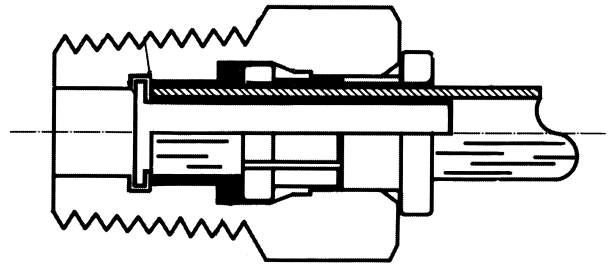
72NAB MALE BRANCH TEE, TUBE TO TUBE TO MPT
REF SAE 100425BA

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
72NAB-4A	1/4	1/8	1.84	.63	.70
72NAB-4B	1/4	1/4	.92	.66	.64
72NAB-6A	3/8	1/8	2.20	.72	.75
72NAB-6B	3/8	1/4	2.34	.83	.93
72NAB-6C	3/8	3/8	2.61	.84	.91
72NAB-8C	1/2	3/8	2.64	.97	1.10
72NAB-8D	1/2	1/2	2.84	1.07	1.25
72NAB-10D	5/8	1/2	3.04	1.10	1.28


79NAB ELBOW, 45° TUBE TO MPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
79NAB-4A	1/4	1/8	.88	.50	.67
79NAB-4B	1/4	1/4	1.05	.65	.84
79NAB-6A	3/8	1/8	1.14	.65	.78
79NAB-6B	3/8	1/4	1.06	.72	.86
79NAB-6C	3/8	3/8	1.03	.69	.91
79NAB-6D	3/8	1/2	1.44	.88	1.00
79NAB-8B	1/2	1/4	1.30	.84	.94
79NAB-8C	1/2	3/8	1.30	.84	.94
79NAB-8D	1/2	1/2	1.20	.85	.98
79NAB-10D	5/8	1/2	1.36	.94	1.17





CONSTRUCTION

- Body is brass construction, locking teeth and release collar manufactured to one piece construction
- Straights and shapes manufactured from CA360, CA345 or CA 377 brass
- "O" ring seal manufactured from BUNA-N (Nitrile)
- Tube support insert

ADVANTAGES

- No special tubing preparation necessary
- No special tools needed for assembly
- Can be assembled and disassembled repeatedly
- Automatic locking and sealing up to maximum working Pressure of tubing
- Elbows and tees available with 360° swivel
- Release collar allows instant removal of tubing

APPLICATIONS

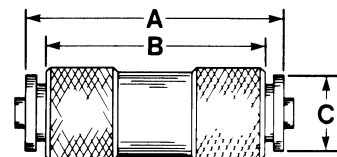
- Compatible with high quality polyethylene, nylon, polyurethane (90° durometer and over), polybutylene and other soft metal tubing
- For use in instrumentation, automation and signal circuits
- Pressures and temperatures are governed by the parameters of the tubing involved
- Excellent vibration characteristics
- Meets D.O.T. FMVSS 571.106 Air Brake Performance Specifications

NOTES

- Current price list represents in stock cataloged items.
- Non-stock items and special parts are available on a quotation basis.
- Configurations and dimensions are subject to change without notice.

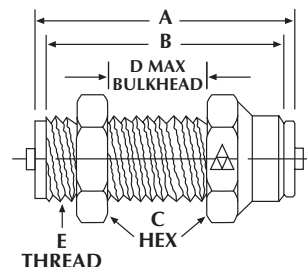
262PPDOT STRAIGHT UNION, TUBE TO TUBE

PART NUMBER	O.D. TUBE	A	B	C
262PPDOT-4	1/4	1.732	1.575	7/16
262PPDOT-6	3/8	1.732	1.575	9/16
262PPDOT-8	1/2	1.89	1.732	11/16
262PPDOT-10	5/8	2.10	1.90	.87



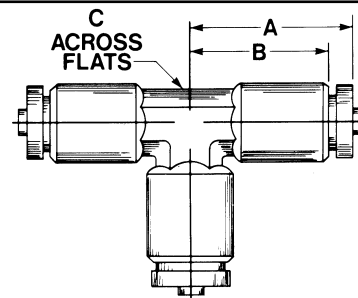
262BHPPDOT BULKHEAD UNION, TUBE TO TUBE

PART NUMBER	O.D. TUBE	A	B	C
262BHPPDOT-4	1/4	1.85	1.69	11/16
262BHPPDOT-6	3/8	1.85	1.69	13/16
262BHPPDOT-8	1/2	1.90	1.75	15/16
262BHPPDOT-10	5/8	1.92	1.85	1-1/8



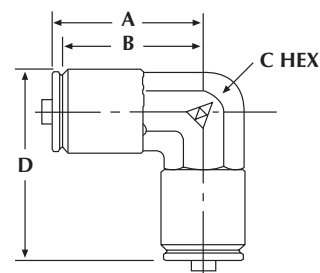
264PPDOT UNION TEE, TUBE TO TUBE TO TUBE

PART NUMBER	O.D. TUBE	A	B	C
264PPDOT-4	1/4	1.004	.925	3/8
264PPDOT-6	3/8	1.063	.984	1/2
264PPDOT-8	1/2	1.240	1.161	5/8



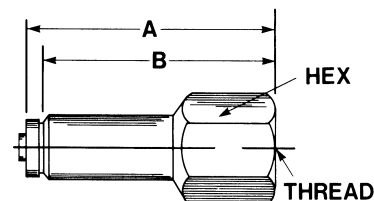
265PPDOT ELBOW, TUBE TO TUBE

PART NUMBER	O.D. TUBE	A	B	C	HEX
265PPDOT-4	1/4	1.01	.91	1.24	3/8
265PPDOT-6	3/8	1.08	.98	1.38	1/2
265PPDOT-8	1/2	1.25	1.15	1.60	5/8



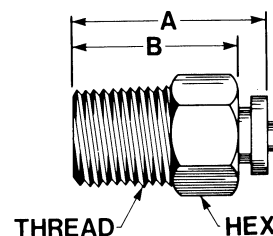
266PPDOT FEMALE ADAPTER, TUBE TO FPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
266PPDOT-4A	1/4	1/8	1.300	1.200	9/16
266PPDOT-4B	1/4	1/4	1.496	1.417	3/4
266PPDOT-6B	3/8	1/4	1.496	1.417	3/4
266PPDOT-6C	3/8	3/8	1.496	1.417	7/8
266PPDOT-8C	1/2	3/8	1.61	1.51	7/8
266PPDOT-8D	1/2	1/2	1.811	1.732	1-1/8

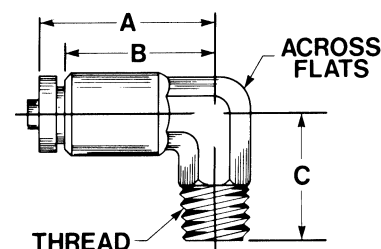


268PPDOT MALE ADAPTER, TUBE TO MPT

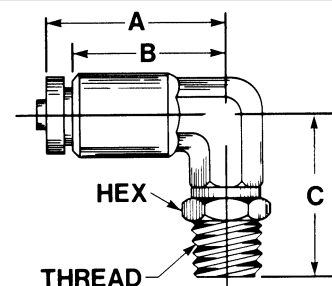
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
268PPDOT-4A	1/4	1/8	1.004	.925	7/16
268PPDOT-4B	1/4	1/4	1.035	.957	9/16
268PPDOT-4C	1/4	3/8	1.12	1.02	11/16
268PPDOT-6A	3/8	1/8	1.28	1.18	9/16
268PPDOT-6B	3/8	1/4	1.181	1.102	9/16
268PPDOT-6C	3/8	3/8	1.102	1.024	11/16
268PPDOT-8B	1/2	1/4	1.46	1.36	11/16
268PPDOT-8C	1/2	3/8	1.260	1.181	11/16
268PPDOT-8D	1/2	1/2	1.220	1.142	7/8
268PPDOT-10C	5/8	3/8	1.44	1.34	7/8
268PPDOT-10D	5/8	1/2	1.68	1.58	7/8


269PPDOT MALE ELBOW, TUBE TO MPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	HEX
269PPDOT-4A	1/4	1/8	.984	.906	.748	3/8
269PPDOT-4B	1/4	1/4	1.024	.945	.945	7/16
269PPDOT-4C	1/4	3/8	1.10	1.00	.98	1/2
269PPDOT-6A	3/8	1/8	1.08	.98	.80	1/2
269PPDOT-6B	3/8	1/4	1.063	.984	.945	1/2
269PPDOT-6C	3/8	3/8	1.083	1.004	.984	1/2
269PPDOT-6D	3/8	1/2	1.14	1.04	1.19	5/8
269PPDOT-8B	1/2	1/4	1.25	1.15	1.05	5/8
269PPDOT-8C	1/2	3/8	1.181	1.102	1.043	11/16
269PPDOT-8D	1/2	1/2	1.220	1.142	1.142	11/16
269PPDOT-10C	5/8	3/8	1.27	1.17	1.13	3/4
269PPDOT-10D	5/8	1/2	1.30	1.20	1.28	11/16

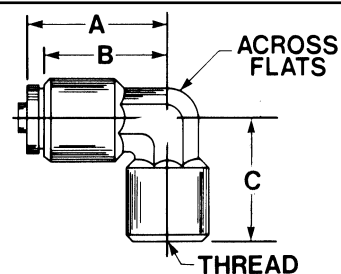

269PPSDOT 360° SWIVEL ELBOW, TUBE TO MPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	HEX
269PPSDOT-4A	1/4	1/8	.984	.905	1.130	7/16
269PPSDOT-4B	1/4	1/4	.984	.905	1.327	9/16
269PPSDOT-4C	1/4	3/8	1.08	.98	1.14	1/2
269PPSDOT-6A	3/8	1/8	1.08	.98	1.08	1/2
269PPSDOT-6B	3/8	1/4	1.043	.965	1.445	9/16
269PPSDOT-6C	3/8	3/8	1.043	.965	1.465	11/16
269PPSDOT-6D	3/8	1/2	1.08	.98	1.52	1/2
269PPSDOT-8B	1/2	1/4	1.26	1.16	1.26	5/8
269PPSDOT-8C	1/2	3/8	1.220	1.142	1.681	11/16
269PPSDOT-8D	1/2	1/2	1.220	1.142	1.317	7/8

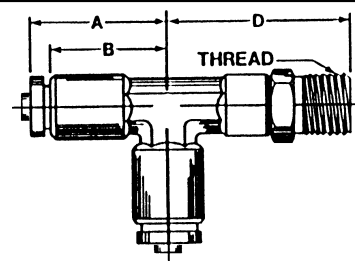


270PPDOT FEMALE ELBOW, TUBE TO FPT

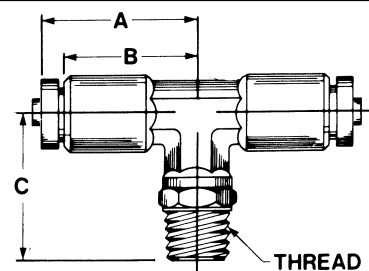
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	HEX
270PPDOT-4A	1/4	1/8	1.024	.945	.748	3/8
270PPDOT-4B	1/4	1/4	1.024	.945	.945	7/16
270PPDOT-6B	3/8	1/4	1.063	.984	.945	1/2
270PPDOT-6C	3/8	3/8	1.063	.984	.906	5/8
270PPDOT-8D	1/2	1/2	1.24	1.14	1.21	5/8


271PPSDOT MALE SWIVEL RUN TEE, TUBE TO MPT TO TUBE

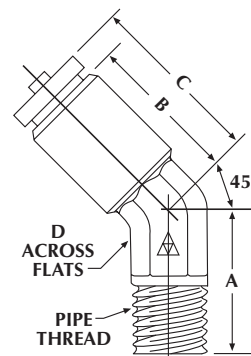
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	HEX
271PPSDOT-4A	1/4	1/8	1.004	.925	1.228	7/16
271PPSDOT-4B	1/4	1/4	1.004	.925	1.425	9/16
271PPSDOT-6B	3/8	1/4	1.063	.984	1.504	9/16
271PPSDOT-6C	3/8	3/8	1.063	.984	1.524	11/16
271PPSDOT-8C	1/2	3/8	1.193	1.114	1.650	11/16
271PPSDOT-8D	1/2	1/2	1.24	1.14	1.61	7/8


272PPSDOT MALE SWIVEL BRANCH TEE, TUBE TO TUBE TO MPT

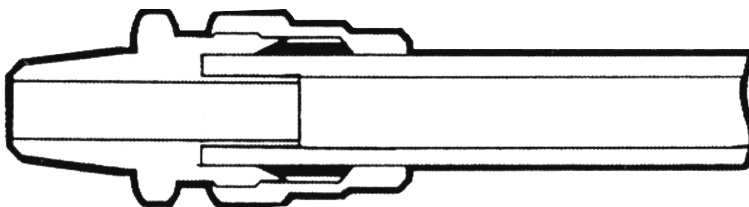
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	HEX
272PPSDOT-4A	1/4	1/8	1.004	.925	1.130	7/16
272PPSDOT-4B	1/4	1/4	1.004	.925	1.327	9/16
272PPSDOT-6A	3/8	1/8	1.09	.99	1.16	7/16
272PPSDOT-6B	3/8	1/4	1.043	.965	1.445	9/16
272PPSDOT-6C	3/8	3/8	1.043	.965	1.465	11/16
272PPSDOT-8B	1/2	1/4	1.26	1.16	1.26	9/16
272PPSDOT-8C	1/2	3/8	1.200	1.122	1.680	11/16
272PPSDOT-8D	1/2	1/2	1.26	1.16	1.64	7/8


279PPDOT 45° MALE ELBOW

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	HEX
279PPDOT-4A	1/4	1/8	.83	.89	.99	3/8
279PPDOT-4B	1/4	1/4	.91	.89	.99	3/8
279PPDOT-6A	3/8	1/8	.75	.89	.99	1/2
279PPDOT-6B	3/8	1/4	.95	.98	1.08	1/2
279PPDOT-6C	3/8	3/8	.89	.98	1.08	1/2
279PPDOT-8B	1/2	1/4	.98	1.12	1.22	5/8
279PPDOT-8C	1/2	3/8	1.05	1.10	1.20	5/8
279PPDOT-8D	1/2	1/2	1.13	1.09	1.19	5/8
279PPDOT-10D	5/8	1/2	1.12	1.12	1.22	11/16



NOTES



CONSTRUCTION

- Three piece – body, nut and serrated sleeve
- Manufactured from CA360 brass rod

ADVANTAGES

- Easy to assemble and dis-assemble
- No special hose preparation
- With or without spring guard

APPLICATIONS

- For air brake systems
- Pressure rating – 125 PSI
- Meets SAE and DOT specifications
- Used with SAE J1402 Air Brake Hose

ORDERING INFORMATION

- Fittings are supplied as assemblies consisting of body, nut and sleeve

ASSEMBLY

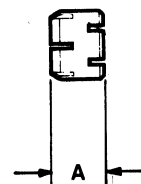
- Slide nut onto the hose
- Slide the tapered end of the sleeve onto the hose facing the fitting
- Insert hose completely into the fitting until it bottoms
- Nut is tightened until making contact with the body
- Do not reuse sleeves. Bodies and nuts should always be re-inspected

NOTES

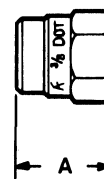
- Current price list represents in stock cataloged items.
- Configurations and dimensions are subject to change without notice

360A HOSE SLEEVE

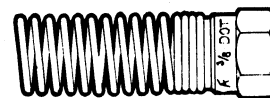
PART NUMBER	HOSE	A
360A-6	3/8	.69
360A-8	1/2	.69


361A HOSE NUT

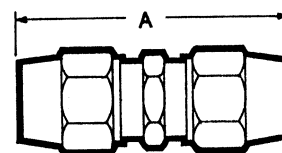
PART NUMBER	HOSE	A	HEX
361A-6	3/8	1.18	13/16
361A-8	1/2	1.125	1-1/4


371A HOSE NUT WITH SPRING GUARD

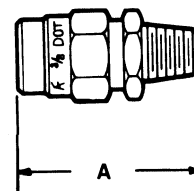
PART NUMBER	HOSE	HEX
371A-6	3/8	13/16
371A-8	1/2	1-1/4


362A UNION

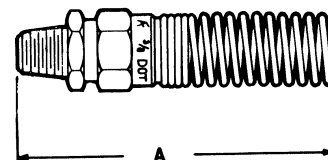
PART NUMBER	HOSE	A
362A-6	3/8	2.95
362A-8	1/2	2.96


368A HOSE CONNECTOR ASSEMBLY

PART NUMBER	HOSE	PIPE THREAD	A	HEX
368A-6B	3/8	1/4	2.25	1
368A-6C	3/8	3/8	2.38	1
368A-6D	3/8	1/2	2.44	1
368A-8C	1/2	3/8	2.24	1-1/8
368A-8D	1/2	1/2	2.40	1-1/8

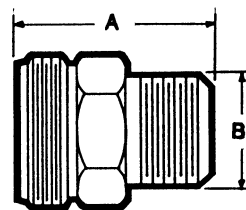

378A HOSE CONNECTOR ASSEMBLY WITH SPRING GUARD

PART NUMBER	HOSE	PIPE THREAD	A	HEX
378A-6B	3/8	1/4	4.75	1
378A-6C	3/8	3/8	4.75	1
378A-6D	3/8	1/2	4.88	1
378A-8C	1/2	3/8	5.12	1-1/8
378A-8D	1/2	1/2	4.88	1-1/8

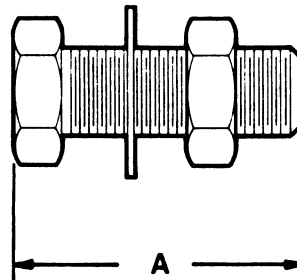


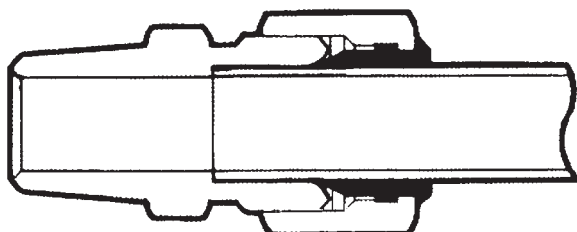
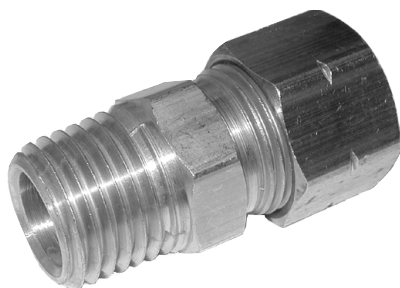
388A ADAPTER

PART NUMBER	STRAIGHT THREAD	PIPE THREAD	A	B	HEX
388A-12B	3/4-20	1/4	1.06	.31	3/4
388A-12C	3/4-20	3/8	1.12	.31	3/4
388A-14C	7/8-20	3/8	1.19	.44	7/8
388A-14D	7/8-20	1/2	1.38	.50	7/8


129A BULKHEAD ADAPTER FPT TO FPT

PART NUMBER	STRAIGHT THREAD	PIPE THREAD	A
129A-A	5/8-18	1/8 FPT	1.50
129AS-B	3/4-16	1/4 FPT	.92
129A-B	3/4-16	1/4 FPT	1.50
129A-C	1-14	3/8 FPT	1.32
129A-D	1 1/8-14	1/2 FPT	1.50





CONSTRUCTION

- Two piece – body and nut with captive sleeve
- Straights and shapes are manufactured from CA360, CA345 or CA377 brass

ADVANTAGES

- Bodies are interchangeable with standard compression fittings
- No flaring, soldering or other special tubing preparation
- Low cost
- Wide range of styles and sizes
- Assembly is easier and quicker than standard compression

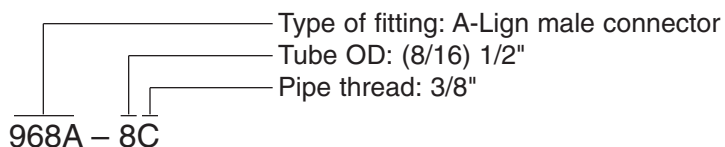
APPLICATIONS

- Compatible with copper, brass, aluminum and thermoplastic tubing. (Thermoplastic tubing requires the use of a brass insert.)
- Pressures exceed those of standard compression fittings
- Fair vibration resistance

ORDERING INFORMATION

- Fittings are supplied as assemblies consisting of the body and the nut with captive sleeve
- Nomenclature example:

NOTE: Shapes with an asterisk (*) following the part number will be supplied as forged pattern.



NOTES

- Current price list represents in stock cataloged items.
- Non-stock items and special parts are available on a quotation basis.
- Configurations and dimensions are subject to change without notice.

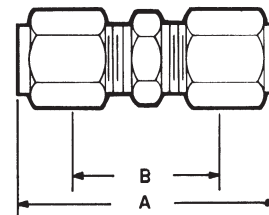
961A NUT WITH CAPTIVE SLEEVE

PART NUMBER	O.D. TUBE	A
961A-2	1/8	.38
961A-3	3/16	.41
961A-4	1/4	.44
961A-5	5/16	.44
961A-6	3/8	.47
961A-8	1/2	.56
961A-10	5/8	.56
961A-12	3/4	.68



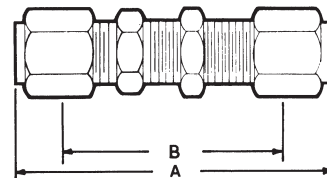
962A UNION TUBE BOTH ENDS

PART NUMBER	O.D. TUBE	A	B	HEX
962A-22	1/8	1.06	.66	5/16
962A-33	3/16	1.23	.75	3/8
962A-42	1/4X1/8	1.30	.80	7/16
962A-44	1/4	1.21	.81	1/2
962A-55	5/16	1.38	.88	1/2
962A-64	3/8X1/4	1.46	.91	9/16
962A-66	3/8	1.54	.97	9/16
962A-86	1/2X3/8	1.82	1.03	11/16
962A-88	1/2	1.90	1.09	11/16
962A-1010	5/8	1.90	1.09	13/16
962A-106	5/8X3/8	1.88	1.03	13/16
962A-108	5/8X1/2	1.90	1.09	13/16



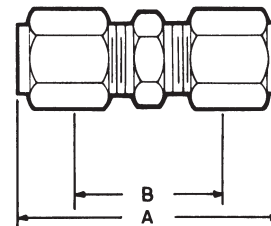
962BH BULKHEAD UNION TUBE BOTH ENDS

PART NUMBER	O.D. TUBE	A	B	HEX
962BH-4	1/4	2.23	1.75	9/16
962BH-6	3/8	2.40	1.80	5/8



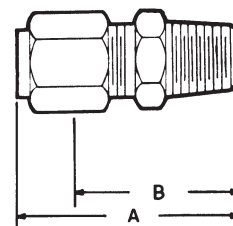
962ATS UNION, TUBE BOTH ENDS, DRILLED THRU

PART NUMBER	O.D. TUBE	A	B	HEX
962ATS-44	1/4	1.21	.81	7/16
962ATS-66	3/8	1.54	.97	9/16
962ATS-88	1/2	1.90	1.06	11/16
962ATS-1010	5/8	1.90	1.09	13/16



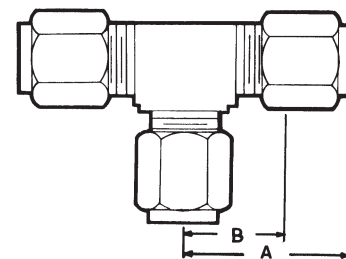
963A CHECK VALVE TUBE TO MPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
963A-4A	1/4	1/8	1.10	.88	7/16
963A-6B	3/8	1/4	1.44	1.16	9/16



964A TEE TUBE ALL ENDS

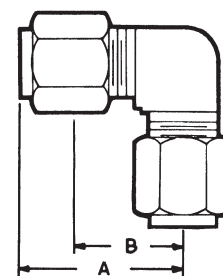
PART NUMBER	O.D. TUBE	A	B
964A-22*	1/8	.82	.62
964A-33*	3/16	.84	.60
964A-44	1/4	.86	.62
964A-55	5/16	1.00	.73
964A-66	3/8	.99	.73
964A-88	1/2	1.33	.93
964A-1010	5/8	1.48	1.06
964A-1212*	3/4	1.69	1.25



ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

965A ELBOW, TUBE BOTH ENDS

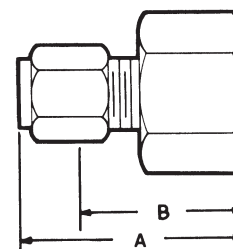
PART NUMBER	O.D. TUBE	A	B
965A-22*	1/8	.82	.62
965A-33*	3/16	.87	.63
965A-44	1/4	.76	.52
965A-55*	5/16	.91	.65
965A-66	3/8	1.03	.75
965A-88	1/2	1.28	.88
965A-1010	5/8	1.08	1.06



ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

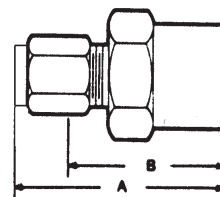
966A ADAPTER, TUBE TO FPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
966A-2A	1/8	1/8	.95	.75	9/16
966A-3A	3/16	1/8	1.02	.78	9/16
966A-3B	3/16	1/4	1.20	.96	11/16
966A-4A	1/4	1/8	.94	.70	1/2
966A-4B	1/4	1/4	1.12	.88	5/8
966A-4C	1/4	3/8	1.24	1.00	3/4
966A-5A	5/16	1/8	1.07	.81	1/2
966A-5B	5/16	1/4	1.17	.91	5/8
966A-6A	3/8	1/8	1.09	.81	9/16
966A-6B	3/8	1/4	1.22	.94	5/8
966A-6C	3/8	3/8	1.28	1.00	13/16
966A-6D	3/8	1/2	1.34	1.03	7/8
966A-8C	1/2	3/8	1.48	1.06	13/16
966A-8D	1/2	1/2	1.48	1.05	7/8
966A-8E	1/2	3/4	1.50	1.25	1-1/8
966A-10C	5/8	3/8	1.54	1.06	13/16
966A-10D	5/8	1/2	1.54	1.06	7/8
966A-10E	5/8	3/4	1.64	1.16	1-1/8



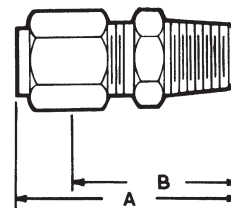
966AS FAUCET ADAPTER, TUBE TO SOLDER

PART NUMBER	O.D. TUBE	A	B	HEX
966AS-610	3/8X5/8	1.32	.94	3/4



968A CONNECTOR, TUBE TO MPT

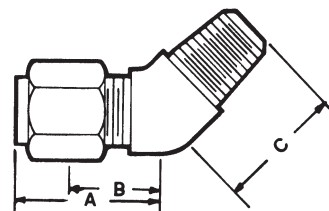
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
968A-2A	1/8	1/8	.98	.78	7/16
968A-3A	3/16	1/8	1.08	.84	7/16
968A-3B	3/16	1/4	1.27	1.03	9/16
968A-4A	1/4	1/8	1.12	.88	7/16
968A-4B	1/4	1/4	1.21	.97	9/16
968A-4C	1/4	3/8	1.27	1.03	11/16
968A-4D	1/4	1/2	1.27	1.00	13/16
968A-5A	5/16	1/8	1.18	.91	1/2
968A-5B	5/16	1/4	1.23	.97	9/16
968A-6A	3/8	1/8	1.22	.94	9/16
968A-6B	3/8	1/4	1.31	1.07	9/16
968A-6C	3/8	3/8	1.39	1.09	11/16
968A-6D	3/8	1/2	1.32	1.06	13/16
968A-6E	3/8	3/4	1.59	1.31	1-1/16
968A-8B	1/2	1/4	1.49	1.09	11/16
968A-8C	1/2	3/8	1.54	1.16	11/16
968A-8D	1/2	1/2	1.49	1.09	13/16
968A-8E	1/2	3/4	1.78	1.38	1-1/16
968A-10C	5/8	3/8	1.54	1.12	13/16
968A-10D	5/8	1/2	1.54	1.12	13/16
968A-10E	5/8	3/4	1.80	1.38	1-1/16
968A-12E	3/4	3/4	1.95	1.50	1-1/16



96945A ELBOW, 45° TUBE TO MPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
96945A-4A*	1/4	1/8	.90	.66	.56
96945A-6B*	3/8	1/4	.90	.62	.84
96945A-8C*	1/2	3/8	1.14	.78	.88

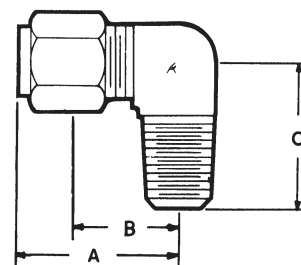
ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING



969A ELBOW, 90° TUBE TO MPT

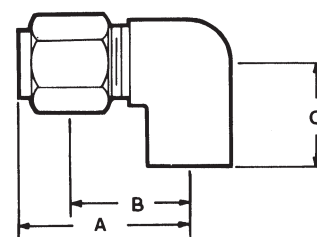
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
969A-2A	1/8	1/8	.79	.59	.72
969A-3A	3/16	1/8	.86	.62	.72
969A-4A	1/4	1/8	.86	.62	.75
969A-4B	1/4	1/4	.85	.61	.81
969A-4C	1/4	3/8	.86	.62	.89
969A-5A	5/16	1/8	.85	.59	.68
969A-5B	5/16	1/4	.92	.66	.84
969A-6A	3/8	1/8	1.08	.80	.66
969A-6B	3/8	1/4	1.08	.80	.93
969A-6C	3/8	3/8	1.05	.77	.93
969A-6D	3/8	1/2	1.16	.88	1.12
969A-8B	1/2	1/4	1.25	.88	1.03
969A-8C	1/2	3/8	1.25	.88	1.03
969A-8D	1/2	1/2	1.32	.94	1.12
969A-10C	5/8	3/8	1.41	1.06	1.12
969A-10D	5/8	1/2	1.41	1.06	1.16
969A-12D*	3/4	1/2	1.64	1.16	1.18
969A-12E*	3/4	3/4	1.76	1.28	1.31

ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING


970A ELBOW, 90° TUBE TO FPT

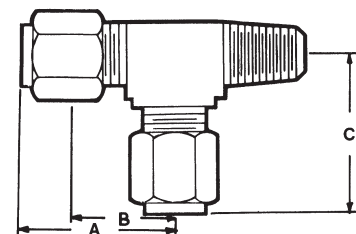
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
970A-3A*	3/16	1/8	1.26	.98	.57
970A-4A	1/4	1/8	.92	.68	.47
970A-4B*	1/4	1/4	.99	.75	.59
970A-5A*	5/16	1/8	1.33	1.20	.82
970A-5B*	5/16	1/4	1.43	1.15	.50
970A-6B*	3/8	1/4	1.13	.78	.59
970A-6C	3/8	3/8	1.56	1.26	.61
970A-6D	3/8	1/2	1.32	.97	.66
970A-8C*	1/2	3/8	1.53	1.19	.66
970A-8D*	1/2	1/2	1.89	1.53	.70
970A-10D*	5/8	1/2	1.41	1.03	.76

ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING


971A MALE RUN TEE, TUBE TO MPT TO TUBE

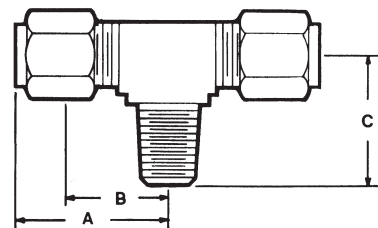
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
971A-4A*	1/4	1/8	.89	.64	.61
971A-4B*	1/4	1/4	1.02	.68	.68
971A-5A*	5/16	1/8	1.00	.73	.72
971A-6B*	3/8	1/4	1.13	.78	.78
971A-6C*	3/8	3/8	1.16	.81	.88
971A-8C*	1/2	3/8	1.27	.91	.97
971A-8D*	1/2	1/2	1.32	.97	.97

ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING



972A MALE BRANCH TEE, TUBE TO TUBE TO MPT

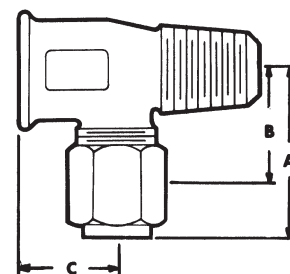
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
972A-4A	1/4	1/8	.92	.63	.75
972A-5A*	5/16	1/8	.98	.75	.74
972A-6B	3/8	1/4	1.10	.78	.85
972A-6C*	3/8	3/8	1.10	.78	.96
972A-8C*	1/2	3/8	1.31	.94	1.13
972A-8D*	1/2	1/2	1.33	.92	1.20



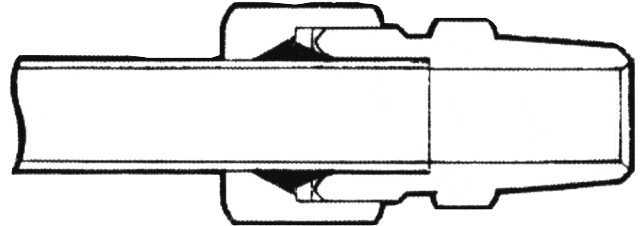
ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

976A STREET TEE, FPT TO MPT TO TUBE

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
976A-2A*	1/8	1/8	.85	.61	.48
976A-4A*	1/4	1/8	.85	.57	.45
976A-6B*	3/8	1/4	1.09	.82	.98



ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

**CONSTRUCTION**

- Three piece unit: body, nut and sleeve
- Straights and shapes manufactured from CA360, CA345 or CA377 brass

ADVANTAGES

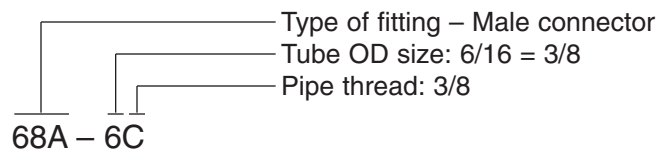
- No flaring, soldering or other special tubing preparation required.
- Low cost
- Wide range of styles and sizes
- Easy assembly

APPLICATION

- Compatible with copper, brass, aluminum and thermoplastic tubing. (Thermoplastic tubing requires the use of a brass insert for support.)
- Low pressure air, oil and water up to a maximum pressure of 400 psi.
- Fair vibration resistance. The long nut can be used for greater vibration application.

ORDERING INFORMATION

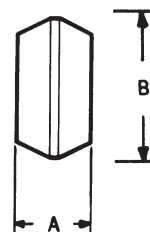
- Fitting is supplied as an assembly. If the body only is desired, use the prefix "B".
- Nomenclature example:

**NOTES**

- Current price list represents in stock cataloged items.
- Non-stock items and special parts are available on a quotation basis.
- Configurations and dimensions are subject to change without notice.

60A SLEEVE
REF SAE 060115

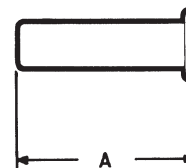
PART NUMBER	O.D. TUBE	A	B
60A-2	1/8	.19	.19
60A-3	3/16	.22	.27
60A-4	1/4	.25	.27
60A-5	5/16	.25	.34
60A-6	3/8	.25	.41
60A-7	7/16	.31	.54
60A-8	1/2	.32	.60
60AH-8	1/2	.38	.60
60A-10	5/8	.32	.72
60AH-10	5/8	.38	.72
60A-12	3/4	.44	.88
60A-14	7/8	.41	1.00


60AP DELRIN SLEEVE

PART NUMBER	O.D. TUBE	A
60AP-4	1/4	.19
60AP-5	5/16	.19
60AP-6	3/8	.19
60AP-8	1/2	.22
60AP-10	5/8	.22


60AE BRASS INSERT
FOR USE WITH SOFT TUBING.

PART NUMBER	O.D. TUBE	A
60AE-4	1/4	.65
60AE-5	5/16	.50
60AE-6	3/8	.54
60AE-8	1/2	.72
60AE-10	5/8	.62

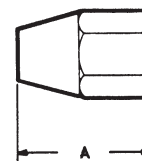

61A NUT
REF SAE 060110

PART NUMBER	O.D. TUBE	A	HEX
61A-2	1/8	.38	3/8
61A-3	3/16	.41	7/16
61A-4	1/4	.44	1/2
61A-5	5/16	.44	9/16
61A-6	3/8	.47	5/8
61A-7	7/16	.50	11/16
61A-8	1/2	.56	3/4
61AH-8	1/2	.62	13/16
61A-10	5/8	.56	7/8
61AH-10	5/8	.62	15/16
61A-12	3/4	.68	1-1/8
61A-14	7/8	.62	1-1/4

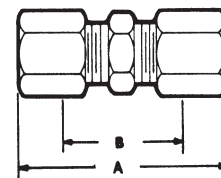


161A NUT, LONG
REF SAE 060111

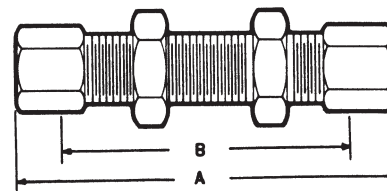
PART NUMBER	O.D. TUBE	A	HEX
161A-2	1/8	.50	3/8
161A-3	3/16	.44	7/16
161A-4	1/4	.75	1/2
161A-5	5/16	.84	9/16
161A-6	3/8	.97	5/8
161A-8	1/2	1.06	13/16
161A-10	5/8	1.19	15/16
161A-12	3/4	1.38	1-3/16


62A UNION TUBE BOTH ENDS
REF SAE 060101BA

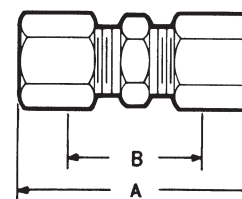
PART NUMBER	O.D. TUBE	A	B	HEX
62A-22	1/8	1.06	.66	5/16
62A-33	3/16	1.23	.75	3/8
62A-42	1/4X1/8	1.30	.80	7/16
62A-43	1/4X3/16	1.05	.75	7/16
62A-44	1/4	1.21	.81	7/16
62A-54	5/16X1/4	1.31	.81	1/2
62A-55	5/16	1.38	.88	1/2
62A-64	3/8X1/4	1.46	.91	9/16
62A-65	3/8X5/16	1.46	.91	9/16
62A-66	3/8	1.54	.97	9/16
62A-77	7/16	1.70	1.04	5/8
62A-86	1/2X3/8	1.82	1.03	11/16
62A-88	1/2	1.90	1.06	11/16
62A-106	5/8X3/8	1.88	1.03	13/16
62A-108	5/8X1/2	1.90	1.09	13/16
62A-1010	5/8	1.90	1.09	13/16
62A-1212	3/4	2.30	1.44	1
62A-1414	7/8	2.03	1.19	1-1/8


62BH BULKHEAD UNION TUBE BOTH ENDS

PART NUMBER	O.D. TUBE	A	B	HEX
62BH-4	1/4	2.23	1.75	9/16
62BH-6	3/8	2.40	1.80	5/8

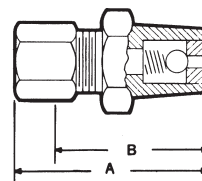

62ATS UNION, DRILLED THRU TUBE BOTH ENDS

PART NUMBER	O.D. TUBE	A	B	HEX
62ATS-44	1/4	1.21	.81	7/16
62ATS-66	3/8	1.54	.97	9/16
62ATS-88	1/2	1.90	1.06	11/16
62ATS-1010	5/8	1.90	1.09	13/16

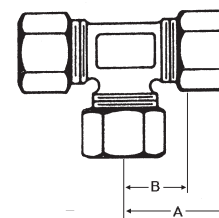
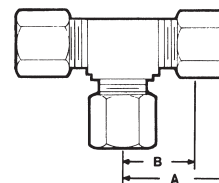


63A CHECK VALVE TUBE TO MPT

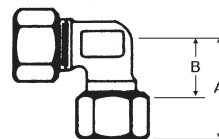
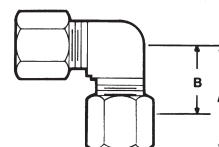
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
63A-4A	1/4	1/8	1.10	.88	7/16
63A-6B	3/8	1/4	1.44	1.16	9/16


64A TEE, TUBE ALL ENDS
REF SAE 060401

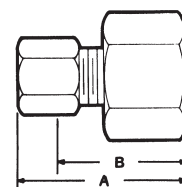
PART NUMBER	O.D. TUBE	A	B
64A-22*	1/8	.82	.62
64A-33*	3/16	.84	.60
64A-44	1/4	.86	.62
64AF-44	1/4	.86	.62
64A-55	5/16	1.00	.73
64A-664	3/8X1/4	.98	.68
64A-66	3/8	.99	.73
64AF-66	3/8	1.06	.74
64A-88	1/2	1.33	.93
64AF-88	1/2	1.27	.96
64A-1010	5/8	1.48	1.06
64A-1212*	3/4	1.69	1.25
64A-1414*	7/8	1.70	1.30


ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING
65A ELBOW, TUBE BOTH ENDS
REF SAE 060201

PART NUMBER	O.D. TUBE	A	B
65A-22*	1/8	.82	.62
65A-33*	3/16	.87	.63
65A-44	1/4	.76	.52
65AF-44	1/4	.84	.60
65A-55*	5/16	.91	.65
65A-64*	3/8x1/4	.95	.68
65A-66	3/8	1.03	.75
65AF-66	3/8	1.03	.75
65A-88	1/2	1.28	.88
65A-86*	1/2x3/8	1.50	1.30
65A-1010	5/8	1.48	1.06
65A-106*	5/8x3/8	1.40	1.20
65A-108*	5/8x1/2	1.40	1.20
65A-1212*	3/4	1.62	1.18
65A-1414*	7/8	1.78	1.38

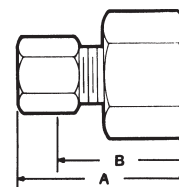

ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING
66A ADAPTER, TUBE TO FPT
REF SAE 060103

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
66A-2A	1/8	1/8	.95	.75	9/16
66A-3A	3/16	1/8	1.02	.78	9/16
66A-3B	3/16	1/4	1.20	.96	11/16

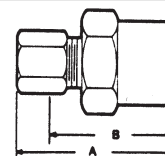


66A ADAPTER, TUBE TO FPT CONTINUED
REF SAE 060103

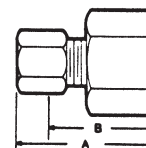
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
66A-4A	1/4	1/8	.94	.70	1/2
66A-4B	1/4	1/4	1.12	.88	5/8
66A-4C	1/4	3/8	1.24	1.00	3/4
66A-4D	1/4	1/2	1.27	1.03	7/8
66A-5A	5/16	1/8	1.07	.81	1/2
66A-5B	5/16	1/4	1.17	.91	5/8
66A-5C	5/16	3/8	1.30	1.10	3/4
66A-6A	3/8	1/8	1.09	.81	9/16
66A-6B	3/8	1/4	1.22	.94	5/8
66A-6C	3/8	3/8	1.28	1.00	13/16
66A-6D	3/8	1/2	1.34	1.03	7/8
66A-6E	3/8	3/4	1.50	1.25	1-1/8
66A-8B	1/2	1/4	1.49	1.09	11/16
66A-8C	1/2	3/8	1.48	1.06	13/16
66A-8D	1/2	1/2	1.48	1.05	7/8
66A-8E	1/2	3/4	1.50	1.25	1-1/8
66A-10C	5/8	3/8	1.54	1.06	13/16
66A-10D	5/8	1/2	1.54	1.06	7/8
66A-10E	5/8	3/4	1.64	1.16	1-1/8
66A-12D	3/4	1/2	1.73	1.26	7/8
66A-12E	3/4	3/4	1.82	1.28	13/16
66A-14E	7/8	3/4	1.65	1.25	1-1/8


66AS FAUCET ADAPTER, TUBE TO SOLDER

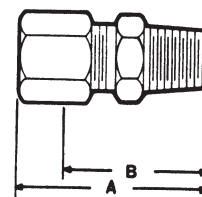
PART NUMBER	O.D. TUBE	A	B	HEX
66AS-610	3/8X5/8	1.32	.94	3/4


66ATS ADAPTER, DRILLED THRU TUBE TO FPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
66ATS-6D	3/8	1/2	1.34	1.03	7/8
66ATS-8D	1/2	1/2	1.48	1.05	7/8

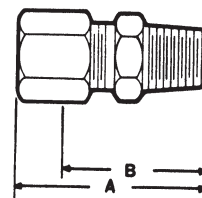

68A CONNECTOR, TUBE TO MPT
REF SAE 060102BA

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
68A-2A	1/8	1/8	.98	.78	7/16
68A-3A	3/16	1/8	1.08	.84	7/16
68A-3B	3/16	1/4	1.27	1.03	9/16
68A-4A	1/4	1/8	1.12	.88	9/16
68A-4B	1/4	1/4	1.21	.97	9/16
68A-4C	1/4	3/8	1.27	1.03	11/16

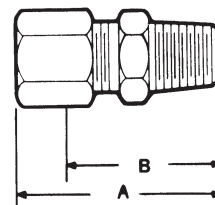


68A CONNECTOR, TUBE TO MPT *CONTINUED*
REF SAE 060102BA

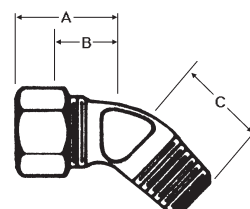
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
68A-4D	1/4	1/2	1.27	1.00	13/16
68A-5A	5/16	1/8	1.18	.91	1/2
68A-5B	5/16	1/4	1.23	.97	9/16
68A-5C	5/16	3/8	1.33	1.06	11/16
68A-6A	3/8	1/8	1.22	.94	9/16
68A-6B	3/8	1/4	1.31	1.03	9/16
68A-6C	3/8	3/8	1.39	1.09	11/16
68A-6D	3/8	1/2	1.32	1.06	13/16
68A-6E	3/8	3/4	1.59	1.31	1-1/16
68A-7B	7/16	1/4	1.39	1.06	5/8
68A-7C	7/16	3/8	1.45	1.12	11/16
68A-8B	1/2	1/4	1.49	1.09	11/16
68A-8C	1/2	3/8	1.54	1.16	11/16
68A-8D	1/2	1/2	1.49	1.09	13/16
68A-8E	1/2	3/4	1.78	1.38	1-1/16
68A-10C	5/8	3/8	1.54	1.12	13/16
68A-10D	5/8	1/2	1.54	1.12	13/16
68A-10E	5/8	3/4	1.80	1.38	1-1/16
68A-12D	3/4	1/2	1.89	1.44	1
68A-12E	3/4	3/4	1.95	1.50	1-1/16
68A-14D	7/8	1/2	1.67	1.25	1-1/8
68A-14E	7/8	3/4	1.67	1.25	1-1/8


68ATS CONNECTOR, DRILLED THRU TUBE TO MPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
68ATS-2A	1/8	1/8	.98	.78	7/16
68ATS-3A	3/16	1/8	1.08	.84	7/16
68ATS-4A	1/4	1/8	1.12	.88	7/16
68ATS-4B	1/4	1/4	1.21	.97	9/16
68ATS-5B	5/16	1/4	1.23	.97	9/16
68ATS-6B	3/8	1/4	1.31	1.03	9/16
68ATS-6C	3/8	3/8	1.39	1.09	11/16
68ATS-6D	3/8	1/2	1.32	1.06	13/16
68ATS-8C	1/2	3/8	1.54	1.16	11/16
68ATS-8D	1/2	1/2	1.49	1.09	13/16
68ATS-10D	5/8	1/2	1.54	1.12	13/16
68ATS-10E	5/8	3/4	1.80	1.38	1-1/16


6945A ELBOW, 45° TUBE TO MPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
6945A-4A*	1/4	1/8	.90	.66	.56
6945A-6B*	3/8	1/4	.90	.62	.84
6945A-8C*	1/2	3/8	1.14	.78	.88
6945A-10D*	5/8	1/2	1.28	.95	1.10

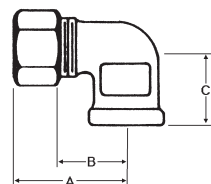
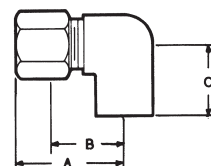
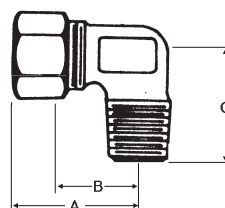
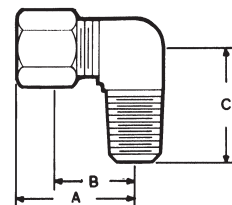

ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

69A ELBOW, 90° TUBE TO MPT
REF SAE 060202BA

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
69A-2A	1/8	1/8	.79	.59	.72
69A-3A	3/16	1/8	.86	.62	.72
69AF-3A	3/16	1/8	.86	.62	.72
69A-3B*	3/16	1/4	.83	.59	.81
69A-4A	1/4	1/8	.86	.62	.75
69AF-4A	1/4	1/8	.86	.62	.75
69A-4B	1/4	1/4	.85	.61	.81
69AF-4B	1/4	1/4	.86	.62	.81
69A-4C	1/4	3/8	.86	.62	.89
69A-4D*	1/4	1/2	1.07	.81	1.14
69A-5A	5/16	1/8	.85	.59	.68
69AF-5A	5/16	1/8	.94	.66	.73
69A-5B	5/16	1/4	.92	.66	.84
69AF-5B	5/16	1/4	.92	.66	.81
69A-5C*	5/16	3/8	.98	.72	.91
69A-6A	3/8	1/8	1.08	.80	.66
69A-6B	3/8	1/4	1.08	.80	.93
69AF-6B	3/8	1/4	1.12	.84	.73
69A-6C	3/8	3/8	1.05	.77	.93
69AF-6C	3/8	3/8	1.06	.78	.91
69A-6D	3/8	1/2	1.16	.88	1.12
69A-6E*	3/8	3/4	1.30	1.00	1.30
69A-7B*	7/16	1/4	1.19	.85	1.00
69A-8B	1/2	1/4	1.25	.88	1.03
69A-8C	1/2	3/8	1.25	.88	1.03
69AF-8C	1/2	3/8	1.25	.88	1.03
69A-8D	1/2	1/2	1.32	.94	1.12
69A-8E*	1/2	3/4	1.45	1.13	1.26
69A-10C	5/8	3/8	1.41	1.06	1.12
69A-10D	5/8	1/2	1.41	1.06	1.16
69A-10E*	5/8	3/4	1.45	1.16	1.26
69A-12D*	3/4	1/2	1.64	1.16	1.18
69A-12E*	3/4	3/4	1.76	1.28	1.31
69A-14E*	7/8	3/4	1.85	1.25	1.38

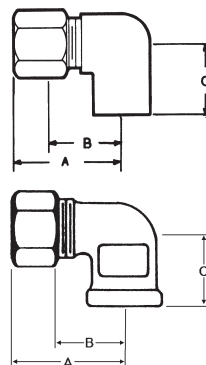
ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING
70A ELBOW, 90° TUBE TO FPT
REF SAE 060203BA

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
70A-2A*	1/8	1/8	1.16	.94	.54
70A-3A*	3/16	1/8	1.26	.98	.57
70A-4A	1/4	1/8	.92	.68	.47
70A-4B*	1/4	1/4	.99	.75	.59
70A-4C*	1/4	3/8	1.10	.88	.54
70A-5A*	5/16	1/8	1.33	1.20	.82
70A-5B*	5/16	1/4	1.43	1.15	.50
70A-6A*	3/8	1/8	1.10	.75	.84
70A-6B*	3/8	1/4	1.13	.78	.59

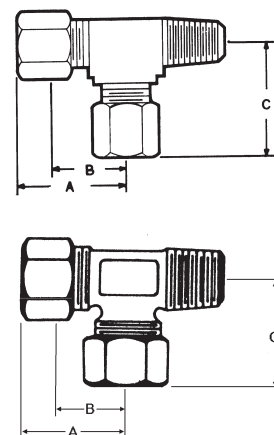
ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING


70A ELBOW, 90° TUBE TO FPT CONTINUED
REF SAE 060203BA

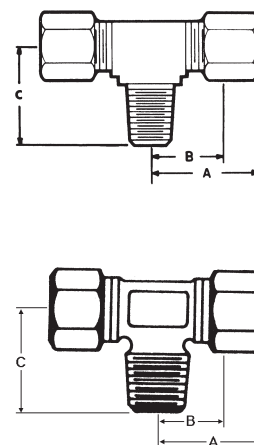
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
70A-6C	3/8	3/8	1.56	1.26	.61
70A-6D	3/8	1/2	1.32	.97	.66
70A-8B*	1/2	1/4	1.82	1.49	.68
70A-8C*	1/2	3/8	1.53	1.19	.66
70A-8D*	1/2	1/2	1.89	1.53	.70
70A-8E*	1/2	3/4	1.89	1.53	.78
70A-10C*	5/8	3/8	1.70	1.20	.80
70A-10D*	5/8	1/2	1.41	1.03	.76
70A-10E*	5/8	3/4	2.12	1.85	.78
70A-12D*	3/4	1/2	2.29	1.80	1.24
70A-12E*	3/4	3/4	2.36	1.87	.92

ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

71A MALE RUN TEE, TUBE TO MPT TO TUBE

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
71A-2A*	1/8	1/8	.86	.66	.66
71A-3A*	3/16	1/8	.88	.63	.61
71A-4A*	1/4	1/8	.89	.64	.61
71A-4B*	1/4	1/4	1.02	.68	.68
71A-5A*	5/16	1/8	1.00	.73	.72
71A-5B*	5/16	1/4	1.00	.80	.70
71A-6A*	3/8	1/8	1.06	.75	.81
71A-6B*	3/8	1/4	1.13	.78	.78
71A-6C*	3/8	3/8	1.16	.81	.88
71A-8C*	1/2	3/8	1.27	.91	.97
71A-8D*	1/2	1/2	1.32	.97	.97
71A-10D*	5/8	1/2	1.52	1.08	1.09
71A-12D*	3/4	1/2	1.65	1.18	1.21

ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

72A MALE BRANCH TEE, TUBE TO TUBE TO MPT
REF SAE 060425BA

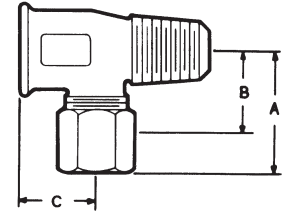
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
72A-2A*	1/8	1/8	.83	.61	.65
72A-3A*	3/16	1/8	.89	.63	.70
72A-4A	1/4	1/8	.92	.63	.75
72A-4B	1/4	1/4	.98	.68	.87
72A-5A*	5/16	1/8	.98	.75	.74
72A-5B*	5/16	1/4	1.05	.75	.88
72A-6A*	3/8	1/8	1.05	.75	.73
72A-6B	3/8	1/4	1.10	.78	.85
72A-6C*	3/8	3/8	1.10	.78	.96
72A-8C*	1/2	3/8	1.31	.94	1.13
72A-8D*	1/2	1/2	1.33	.97	1.20
72A-10D*	5/8	1/2	1.42	1.05	1.31
72A-12D*	3/4	1/2	1.72	1.23	1.32
72A-12E*	3/4	3/4	1.72	1.25	1.50

ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING


76A STREET TEE, FPT TO MPT TO TUBE

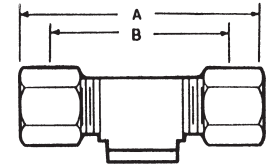
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
76A-2A*	1/8	1/8	.85	.61	.48
76A-4A*	1/4	1/8	.85	.57	.45
76A-4B*	1/4	1/4	.98	.71	.98
76A-6B*	3/8	1/4	1.09	.82	.98

ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

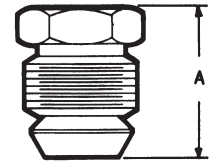

77A FEMALE BRANCH TEE, TUBE TO FPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
77A-4A*	1/4	1/8	1.70	1.56
77A-4B*	1/4	1/4	1.70	1.57
77A-6A*	3/8	1/8	1.75	1.50
77A-6B*	3/8	1/4	1.90	1.60
77A-6C*	3/8	3/8	1.90	1.60
77A-8A*	1/2	1/8	2.20	1.90
77A-10A*	5/8	1/8	2.50	2.13

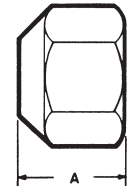
ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING


81LB CONTROL NUT

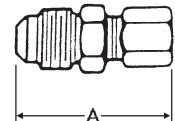
PART NUMBER	O.D. TUBE	A	HEX
81LB-4	1/4	.62	7/16


N5CT COMPRESSION CAP

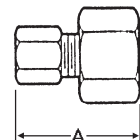
PART NUMBER	SIZE	A	HEX
N5CT-4	1/4	.438	1/2
N5CT-6	3/8	.468	5/8
N5CT-8	1/2	.562	3/4
N5CT-10	5/8	.563	7/8


U144 ADAPTER, MALE FLARE X MALE COMPRESSION

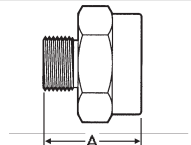
PART NUMBER	SIZE	A	HEX
U144-CC	1/4X1/4	.990	7/16


U5CC ADAPTER, FEMALE FLARE X MALE COMPRESSION

PART NUMBER	SIZE	A	HEX
U5CC-44	1/4X1/4	.875	9/16
U5CC-46	1/4X3/8	.81	9/16

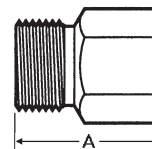

U6C-CL ADAPTER, MALE COMPRESSION TO CLOSET

PART NUMBER	SIZE	A	HEX
U6C-CL-6	3/8	1.063	1-1/16

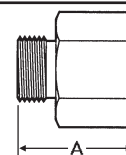


U6CC ADAPTER, MALE COMPRESSION TO FEMALE COMPRESSION

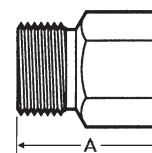
PART NUMBER	SIZE	A	HEX
U6CC-46	1/4X3/8	.88	5/8
U6CC-67	3/8X7/16	.94	13/16
U6CC-68	3/8X1/2	.94	13/16


U6CF ADAPTER, MALE COMPRESSION TO FAUCET

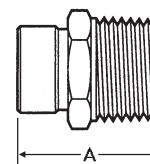
PART NUMBER	SIZE	A	HEX
U6CF-6	3/8	1.03	7/8

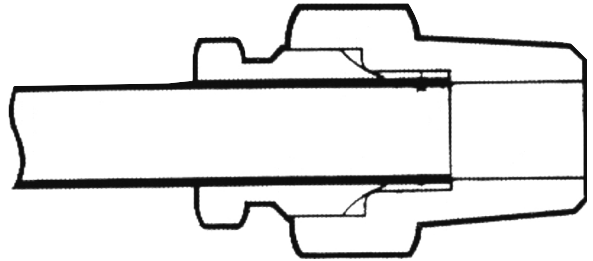

U6C-FF ADAPTER, MALE COMPRESSION X FINE THREAD FEMALE FLARE

PART NUMBER	SIZE	A	HEX
U6C-FF-46	1/4X3/8	.88	5/8
U6C-FF-66	3/8X3/8	.94	5/8
U6C-FF-68	3/8X1/2	.94	1-3/16


U6FC ADAPTER, IPS MALE TO FEMALE COMPRESSION

PART NUMBER	SIZE	A	HEX
U6FC-MP-68	1/2X3/8	1.16	13/16
U6FC-MP-88	1/2X1/2	1.19	13/16



**CONSTRUCTION**

- Two piece, body and nut
- Straights and shapes are manufactured from CA360, CA345 or CA377 brass

ADVANTAGES

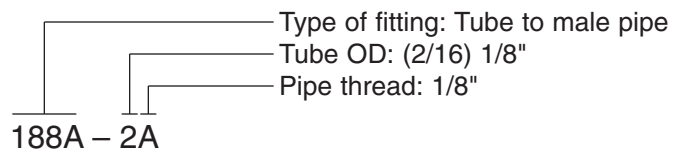
- No special tubing preparation
- Compact assembly
- Low cost
- Ease of assembly

APPLICATIONS

- Compatible with soft metal tubing.
- Low to medium pressure
- Fair vibration resistance
- Compression type of fitting, nut tightens inside of the fitting, resulting in a compact assembly

ORDERING INFORMATION

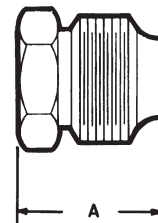
- Threaded sleeve (double compression) fittings are sold less the nuts
- Nomenclature example:

**NOTES**

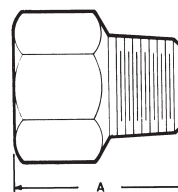
- Current price list represents in stock cataloged items.
- Non-stock items and special parts are available on a quotation basis.
- Configurations and dimensions are subject to change without notice.

181A NUT

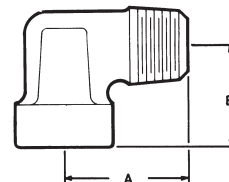
PART NUMBER	O.D. TUBE	A	HEX
181A-2	1/8	.50	5/16
181A-3	3/16	.53	3/8
181A-4	1/4	.56	7/16
181A-5	5/16	.60	1/2
181A-6	3/8	.60	9/16

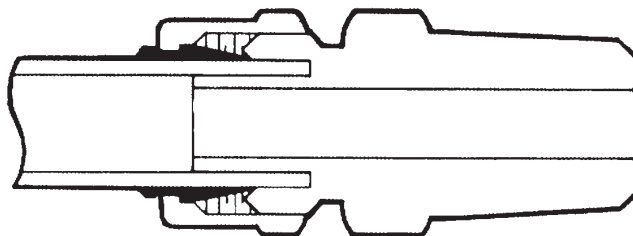

188A CONNECTOR, TUBE TO MPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	HEX
188A-2A	1/8	1/8	.63	7/16
188A-3A	3/16	1/8	.67	7/16
188A-4A	1/4	1/8	.75	1/2
188A-5A	5/16	1/8	.88	9/16
188A-6B	3/8	1/4	.81	5/8


189A ELBOW, TUBE TO MPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
189A-2A	1/8	1/8	.62	.68
189A-3A	3/16	1/8	.63	.75
189A-4A	1/4	1/8	.66	.75
189A-5A	5/16	1/8	.68	.78





CONSTRUCTION

- Three piece – body, nut and sleeve
- Straights and shapes are manufactured from CA360 or CA345 brass
- Sleeves are acetal copolymer or brass

ADVANTAGES

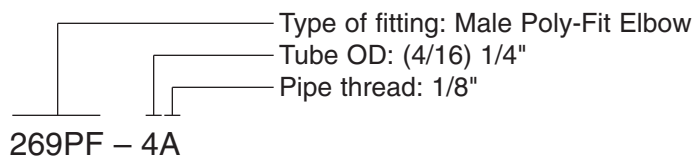
- Pre-assembled fittings speeds installation
- No special tube preparation necessary
- Can be assembled and disassembled repeatedly
- POLY-FIT nuts rotate around the sleeve during tightening, preventing the twisting of the tubing

APPLICATIONS

- Compatible with high quality thermoplastic, nylon and soft metal tubing. Brass sleeve and nut combination are recommended for use with nylon or metal tubing.
- For use in instrumentation, automation and signal circuits
- Pressures and temperatures are governed by the parameters of the tubing involved.
- Excellent vibration characteristics

ORDERING INFORMATION

- Fittings are supplied as an assembly, including the body, nut and sleeve
- Nomenclature example:



NOTES

- Current price list represents in stock cataloged items.
- Non-stock items and special parts are available on a quotation basis.
- Configurations and dimensions are subject to change without notice.

260PF PLASTIC SLEEVE

PART NUMBER	O.D. TUBE	A
260PF-4	1/4	.32
260PF-5	5/16	.35
260PF-6	3/8	.36
260PF-8	1/2	.41


260PFB BRASS SLEEVE

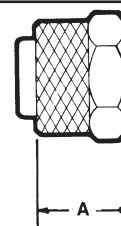
PART NUMBER	O.D. TUBE	A
260PFB-2	1/8	.36
260PFB-4	1/4	.27
260PFB-5	5/16	.27
260PFB-6	3/8	.30
260PFB-8	1/2	.36


261PFN BRASS NUT ONLY

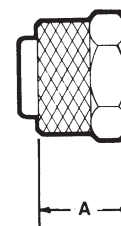
PART NUMBER	O.D. TUBE	A	HEX
261PFN-2	1/8	.38	3/8
261PFN-4	1/4	.34	7/16
261PFN-5	5/16	.34	1/2
261PFN-6	3/8	.38	9/16
261PFN-8	1/2	.42	13/16


261PF NUT AND PLASTIC SLEEVE ASSEMBLY

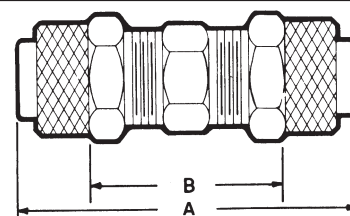
PART NUMBER	O.D. TUBE	A	HEX
261PF-4	1/4	.34	7/16
261PF-5	5/16	.34	1/2
261PF-6	3/8	.38	9/16
261PF-8	1/2	.42	13/16


261PFB NUT AND BRASS SLEEVE ASSEMBLY

PART NUMBER	O.D. TUBE	A	HEX
261PFB-2	1/8	.38	3/8
261PFB-4	1/4	.34	7/16
261PFB-5	5/16	.34	1/2
261PFB-6	3/8	.38	9/16
261PFB-8	1/2	.42	13/16

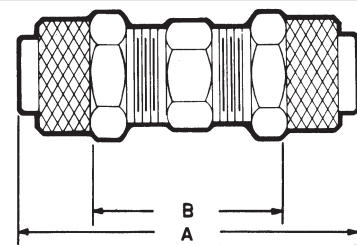

256PF REDUCING UNION, TUBE TO TUBE

PART NUMBER	O.D. TUBE	A	B	HEX
256PF-64	3/8X1/4	1.19	.72	1/2

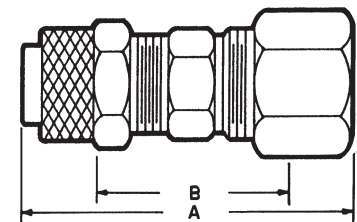


262PF UNION, TUBE TO TUBE

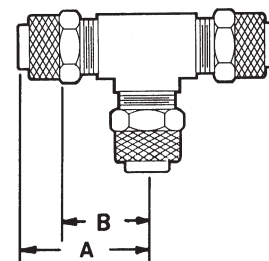
PART NUMBER	O.D. TUBE	A	B	HEX
262PF-2	1/8	1.16	.66	5/16
262PF-4	1/4	1.13	.69	3/8
262PF-5	5/16	1.16	.69	7/16
262PF-6	3/8	1.22	.72	1/2
262PF-8	1/2	1.34	.84	11/16


262PFC UNION, POLY-FIT TO COMPRESSION

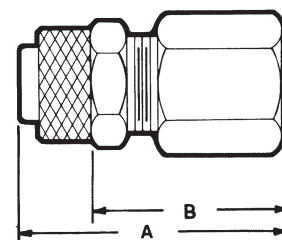
PART NUMBER	O.D. TUBE	A	B	HEX
262PFC-4	1/4	1.25	.75	7/16
262PFC-6	3/8	1.40	.84	9/16


264PF TEE, TUBE ALL ENDS

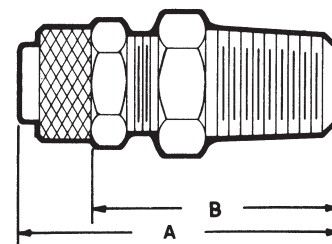
PART NUMBER	O.D. TUBE	A	B	HEX
264PF-2	1/8	.88	.63	5/16
264PF-4	1/4	.84	.63	3/8
264PF-5	5/16	.86	.63	3/8
264PF-6	3/8	.90	.66	7/16
264PF-8	1/2	1.06	.81	5/8


266PF ADAPTER, TUBE TO FPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
266PF-2A	1/8	1/8	1.03	.75	9/16
266PF-4A	1/4	1/8	.97	.75	1/2
266PF-4B	1/4	1/4	1.16	.94	5/8
266PF-5A	5/16	1/8	1.00	.75	1/2
266PF-6B	3/8	1/4	1.19	.94	5/8
266PF-8C	1/2	3/8	1.25	1.00	13/16


268PF CONNECTOR, TUBE TO MPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
268PF-2A	1/8	1/8	1.08	.80	7/16
268PF-2X1032	1/8	10-32	.84	.59	3/8
268PF-4A	1/4	1/8	1.03	.81	7/16
268PF-4X1032	1/4	10-32	.97	.75	3/8
268PF-4B	1/4	1/4	1.19	1.00	9/16
268PF-4C	1/4	3/8	1.25	1.03	11/16
268PF-5A	5/16	1/8	1.05	.81	7/16
268PF-5B	5/16	1/4	1.23	1.00	9/16
268PF-6A	3/8	1/8	1.09	.84	1/2

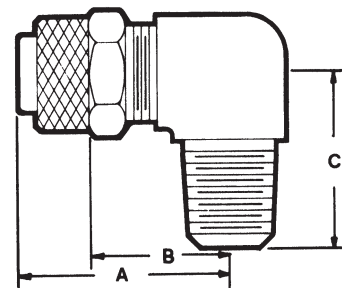


268PF CONNECTOR, TUBE TO MPT *CONTINUED*

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
268PF-6B	3/8	1/4	1.28	1.03	9/16
268PF-6C	3/8	3/8	1.28	1.03	11/16
268PF-8C	1/2	3/8	1.34	1.09	11/16
268PF-8D	1/2	1/2	1.62	1.03	11/16

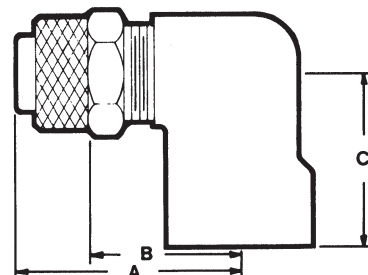
269PF ELBOW, TUBE TO MPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
269PF-2A	1/8	1/8	.88	.62	.69
269PF-4A	1/4	1/8	.84	.63	.75
269PF-4B	1/4	1/4	.88	.66	.94
269PF-4C	1/4	3/8	.97	.75	1.03
269PF-5A	5/16	1/8	.86	.63	.75
269PF-6A	3/8	1/8	.88	.63	.75
269PF-6B	3/8	1/4	.97	.72	.94
269PF-6C	3/8	3/8	1.03	.78	1.03
269PF-8C	1/2	3/8	1.03	.78	1.16



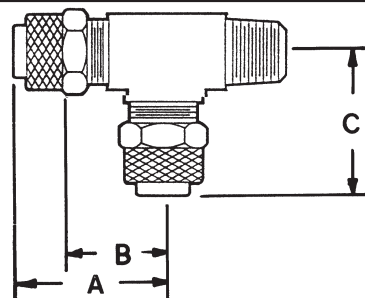
270PF ELBOW, TUBE TO FPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
270PF-2A	1/8	1/8	.97	.69	.55
270PF-4A	1/4	1/8	.91	.62	.75
270PF-4B	1/4	1/4	.94	.72	.88
270PF-6B	3/8	1/4	.97	.72	.88
270PF-8C	1/2	3/8	1.15	.90	.94



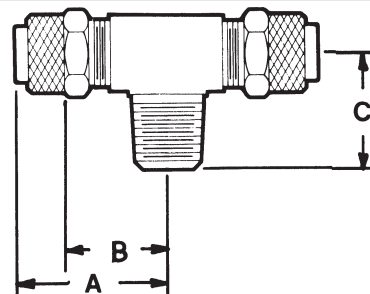
271PF MALE RUN TEE, TUBE TO MPT TO TUBE

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
271PF-2A	1/8	1/8	.90	.62	.69
271PF-4A	1/4	1/8	.84	.62	.75
271PF-4B	1/4	1/4	.87	.65	.94
271PF-5A	5/16	1/8	.86	.67	.75
271PF-6B	3/8	1/4	.91	.66	.94
271PF-8C	1/2	3/8	1.06	.81	1.06



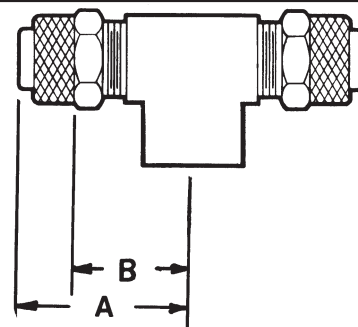
272PF MALE BRANCH TEE, TUBE TO TUBE TO MPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
272PF-2A	1/8	1/8	.90	.62	.69
272PF-4A	1/4	1/8	.84	.62	.75
272PF-4B	1/4	1/4	.87	.66	.94
272PF-5A	5/16	1/8	.86	.62	.75
272PF-6A	3/8	1/8	.87	.62	.75
272PF-6B	3/8	1/4	.90	.66	.94
272PF-8C	1/2	3/8	1.06	.81	1.06



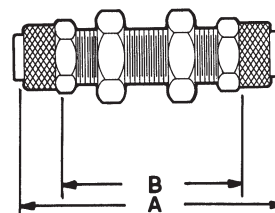
277PF FEMALE BRANCH TEE TUBE TO TUBE TO FPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
277PF-4A	1/4	1/8	.88	.66	.94
277PF-4B	1/4	1/4	1.08	.84	1.15
277PF-4C	1/4	3/8	1.08	.84	1.25



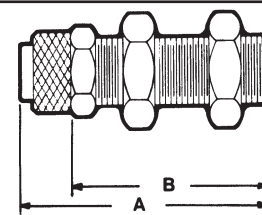
282PF BULKHEAD UNION TUBE TO TUBE

PART NUMBER	O.D. TUBE	A	B	HEX
282PF-4	1/4	1.68	1.25	9/16
282PF-6	3/8	1.81	1.31	5/8
282PF-8	1/2	2.06	1.56	5/8



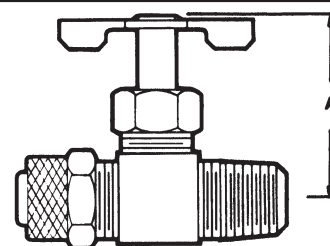
282PFT BULKHEAD UNION STRAIGHT THRU

PART NUMBER	O.D. TUBE	A	B	HEX
282PFT-4	1/4	1.22	1.00	9/16
282PFT-6	3/8	1.31	1.06	11/16



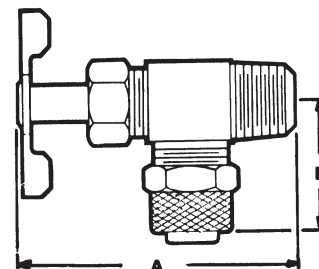
311PF NEEDLE VALVE, TUBE TO MPT STRAIGHT

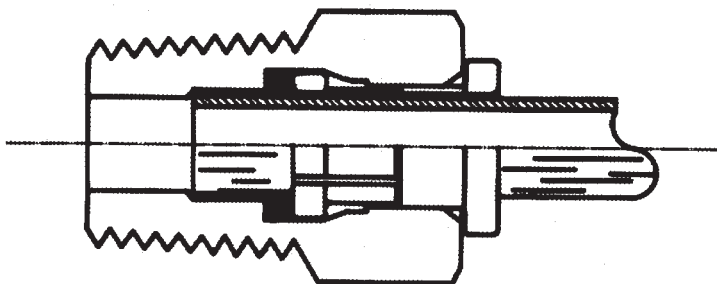
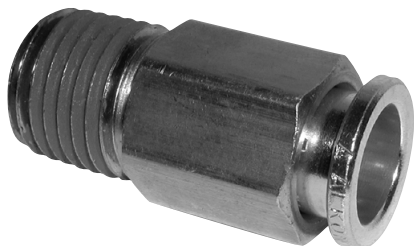
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
311PF-4A	1/4	1/8	1.25	.94
311PF-4B	1/4	1/4	1.25	.94
311PF-6B	3/8	1/4	1.65	1.31



312PF NEEDLE VALVE, TUBE TO MPT ANGLE

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
312PF-4A	1/4	1/8	1.00	1.15
312PF-6B	3/8	1/4	1.09	1.44





CONSTRUCTION

- Body, locking teeth and release collar are incorporated into the one piece construction
- Straights and shapes are manufactured from CA360, CA345 or CA377 brass
- Bottom “O” Ring is made from Buna N

ADVANTAGES

- No special tube preparation necessary
- No special tools needed for assembly
- Can be assembled and disassembled repeatedly
- Automatic locking and sealing up to maximum working Pressure of tubing
- Elbow and tees available with 360° swivel
- Release collar allows instant removal of tubing

APPLICATIONS

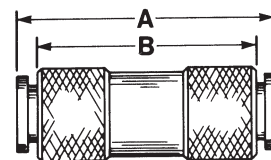
- Compatible with high quality thermoplastic and nylon tubing
- For use in instrumentation, automation and signal circuits
- Pressures and temperatures are governed by the parameters of the tubing involved.
- Excellent vibration characteristics

NOTES

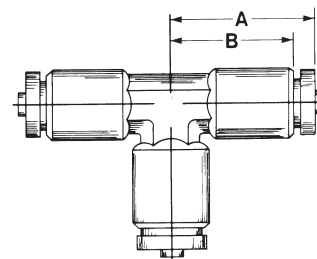
- Current price list represents in stock cataloged items.
- Non-stock items and special parts are available on a quotation basis.
- Configurations and dimensions are subject to change without notice.

262PP STRAIGHT UNION, TUBE TO TUBE

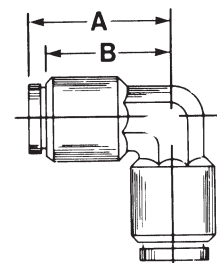
PART NUMBER	O.D. TUBE	A	B
262PP-2	1/8	1.31	1.06
262PP-2.5	5/32	1.31	1.06
262PP-4	1/4	1.65	1.37
262PP-5	5/16	1.76	.56
262PP-6	3/8	1.65	1.38
262PP-8	1/2	1.85	1.58


264PP UNION TEE, TUBE TO TUBE TO TUBE

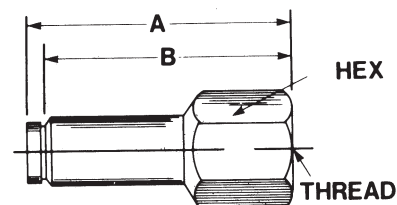
PART NUMBER	O.D. TUBE	A	B
264PP-2	1/8	.77	.65
264PP-2.5	5/32	.79	.66
264PP-4	1/4	1.02	.88
264PP-5	5/16	1.07	1.07
264PP-6	3/8	1.08	.94
264PP-8	1/2	1.16	1.02


265PP UNION ELBOW, TUBE TO TUBE

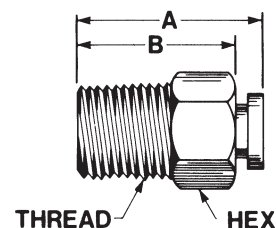
PART NUMBER	O.D. TUBE	A	B
265PP-2.5	5/32	.79	.65
265PP-4	1/4	1.02	.89
265PP-5	5/16	1.03	1.03
265PP-6	3/8	1.10	.96
265PP-8	1/2	1.16	1.02


266PP FEMALE ADAPTER, TUBE TO FPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
266PP-2A	1/8	1/8	1.07	.95	9/16
266PP-2.5A	5/32	1/8	1.07	.95	9/16
266PP-4A	1/4	1/8	1.26	1.12	9/16
266PP-4B	1/4	1/4	1.45	1.31	3/4
266PP-6B	3/8	1/4	1.45	1.31	3/4
266PP-6C	3/8	3/8	1.45	1.31	7/8

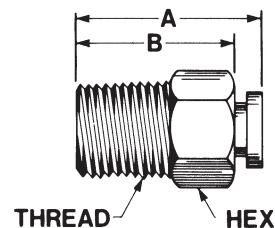

268PP MALE CONNECTOR, TUBE TO MPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
268PP-2X	1/8	1/16	.80	.72	3/8
268PP-2A	1/8	1/8	.73	.61	3/8
268PP-2.5A	5/32	1/8	.79	.66	7/16
268PP-2.5B	5/32	1/4	.97	.84	9/16
268PP-4X	1/4	1/16	1.32	.36	1/2
268PP-4A	1/4	1/8	1.06	.92	7/16
268PP-4B	1/4	1/4	1.06	.92	9/16



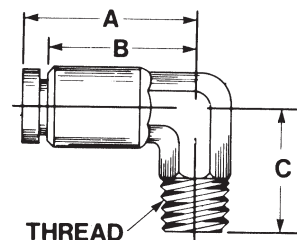
268PP MALE CONNECTOR, TUBE TO MPT *CONTINUED*

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
268PP-4C	1/4	3/8	1.06	.92	11/16
268PP-5A	5/16	1/8	1.36	.36	9/16
268PP-5B	5/16	1/4	1.25	.50	9/16
268PP-6A	3/8	1/8	1.22	1.08	9/16
268PP-6B	3/8	1/4	1.20	1.06	9/16
268PP-6C	3/8	3/8	1.08	.94	11/16
268PP-6D	3/8	1/2	1.06	.92	7/8
268PP-8C	1/2	3/8	1.31	1.18	11/16
268PP-8D	1/2	1/2	1.16	1.02	7/8



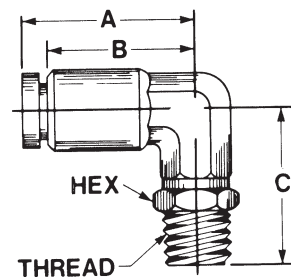
269PP MALE ELBOW, TUBE TO MPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
269PP-2X	1/8	1/16	.92	.36	.78
269PP-2A	1/8	1/8	.77	.65	.68
269PP-2.5A	5/32	1/8	.79	.66	.68
269PP-2.5B	5/32	1/4	.92	.50	.87
269PP-4A	1/4	1/8	1.02	.88	.69
269PP-4B	1/4	1/4	1.02	.88	.94
269PP-5A	5/16	1/8	1.03	.36	.90
269PP-5B	5/16	1/4	1.03	.50	.96
269PP-6B	3/8	1/4	1.08	.94	.94
269PP-6C	3/8	3/8	1.10	.96	.98
269PP-8C	1/2	3/8	1.16	1.02	1.04
269PP-8D	1/2	1/2	1.16	1.02	1.29



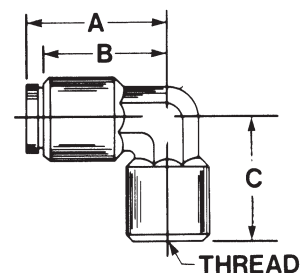
269PPS 360° SWIVEL ELBOW, TUBE TO MPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
269PPS-2A	1/8	1/8	.77	.65	1.05
269PPS-2.5A	5/32	1/8	.79	.66	.87
269PPS-4A	1/4	1/8	1.02	.88	1.13
269PPS-4B	1/4	1/4	1.02	.88	1.32
269PPS-4C	1/4	3/8	1.02	.88	1.32
269PPS-6B	3/8	1/4	1.08	.94	1.44
269PPS-6C	3/8	3/8	1.08	.94	1.46
269PPS-8C	1/2	3/8	1.18	1.04	1.68
269PPS-8D	1/2	1/2	1.18	1.04	1.19



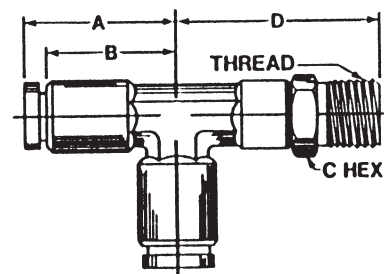
270PP FEMALE ELBOW, TUBE TO FPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
270PP-2.5A	5/32	1/8	.93	.75	.600
270PP-4A	1/4	1/8	1.04	.90	.748
270PP-6B	3/8	1/4	1.12	.98	.945

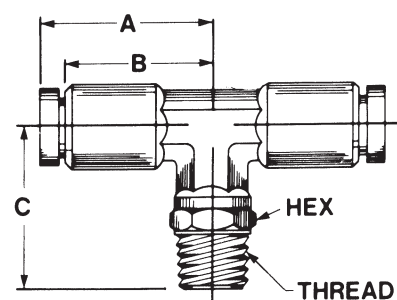


271PPS MALE SWIVEL RUN TEE, TUBE TO MPT TO TUBE

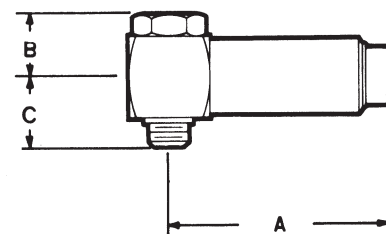
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	D
271PPS-2.5A	5/32	1/8	.77	.65	1.15
271PPS-4A	1/4	1/8	1.04	.90	1.13
271PPS-4B	1/4	1/4	1.04	.90	1.32
271PPS-5A	5/16	1/8	1.03	.33	1.05
271PPS-6B	3/8	1/4	1.08	.94	1.46
271PPS-6C	3/8	3/8	1.08	.94	1.46
271PPS-8C	1/2	3/8	1.18	1.04	1.68
271PPS-8D	1/2	1/2	1.18	1.04	1.91


272PPS MALE SWIVEL BRANCH TEE, TUBE TO TUBE TO MPT

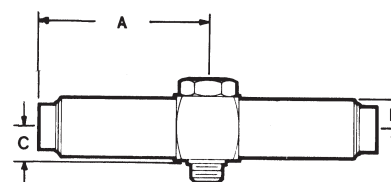
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
272PPS-2.5A	5/32	1/8	.79	.66	1.15
272PPS-4A	1/4	1/8	1.04	.90	1.13
272PPS-4B	1/4	1/4	1.04	.90	1.32
272PPS-5A	5/16	1/8	1.03	.36	1.05
272PPS-6B	3/8	1/4	1.10	.96	1.44
272PPS-8C	1/2	3/8	1.18	1.04	1.68
272PPS-8D	1/2	1/2	1.18	1.04	1.91


280PP BANJO ELBOW WITH UNF THREAD

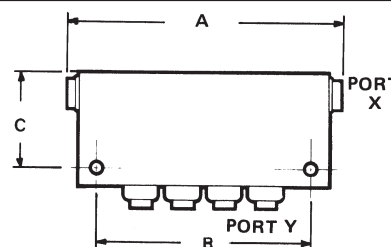
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
280PP-2X1032	1/8	10-32	.98	.28	.24
280PP-2.5X10	5/32	10-32	.58	.28	.24


281PP BANJO TEE WITH UNF THREAD

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
281PP-2X1032	1/8	10-32	.98	.28	.24
281PP-2.5X10	5/32	10-32	.98	.28	.24

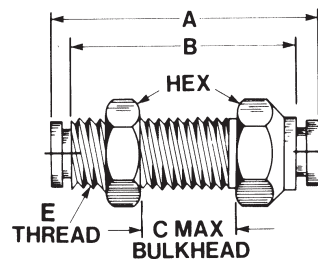

282PP MANIFOLD

PART NUMBER	PORT X	PORT Y	A	B	C
282PP-44	1/4	1/4	3.77	2.85	3/4
282PP-42.5	1/4	5/32	3.77	2.85	3/4
282PP-64	3/8	1/4	4.48	3.35	1



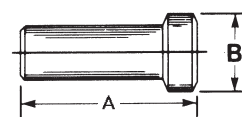
283PP BULKHEAD UNION

PART NUMBER	O.D. TUBE	A	B	C	HEX
283PP-2	1/8	1.39	1.14	.50	5/8
283PP-2.5	5/32	1.37	1.12	.50	5/8
283PP-4	1/4	1.96	1.69	.88	11/16
283PP-5	5/16	.78	1.78	.88	7/8
283PP-6	3/8	1.96	1.69	.88	13/16
283PP-8	1/2	2.02	1.75	.75	15/16



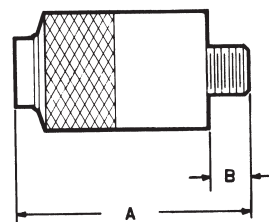
284PP PLUG

PART NUMBER	O.D. TUBE	A	B
284PP-2	1/8	1.12	.354
284PP-2.5	5/32	1.16	.315
284PP-4	1/4	1.39	.433
284PP-5	5/16	1.55	.435
284PP-6	3/8	1.39	.551
284PP-8	1/2	1.49	.689



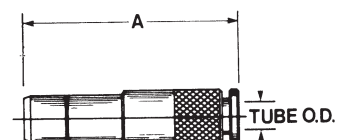
285PP KNURLED MALE CONNECTOR

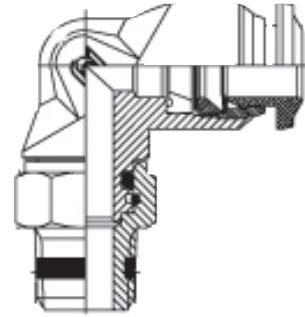
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
285PP-2X1032	1/8	10-32	.99	.15
285PP-2.5X10	5/32	10-32	.99	.15
285PP-4X1032	1/4	10-32	1.25	.15



286PP UNION REDUCER, TUBE TO TUBE

PART NUMBER	O.D. TUBE	A
286PP-42	1/4X1/8	1.96
286PP-62	3/8X1/8	2.13
286PP-42.5	1/4X5/32	1.96
286PP-52.5	5/16X5/32	1.96
286PP-62.5	3/8X5/32	2.13
286PP-54	5/16X1/4	1.96
286PP-64	3/8X1/4	2.13
286PP-65	3/8X5/16	2.13
286PP-84	1/2X1/4	2.25
286PP-86	1/2X3/8	2.45





CONSTRUCTION

- Body, locking mechanism and release ring are incorporated into one piece construction
- Straight and shape bodies manufactured from CA360, CA345 or CA377 brass bright nickel plate
- Thrust ring or button is plastic, sleeve brass nickel plated, gripper collet stainless steel, safety ring PA66, lip seal and thread seal NBR70
- Stainless steel collet design ensures excellent clamping capabilities with nylon, polyethelene and polyurethane tubing.

ADVANTAGES

- Straights manufactured with an internal hex allowing for ease of installation in restricted spaces.
- No special tube preparation necessary.
- Automatic locking and sealing up to maximum working pressure of tubing.
- Can be assembled and disassembled repeatedly.
- Elbows and tees available with 360° swivel
- Offers superior vibration and high impact characteristics

APPLICATIONS

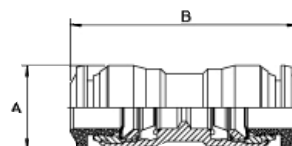
- Compatible with polyethelene, polyurethane and nylon tubing
(Best results use 95 Durometer tubing)
- Used in both pressure and vacuum applications
- Pressures and temperatures are governed by the parameters of the tubing used, limited to 0-250 psi, vacuum and 0°-160°F

NOTES

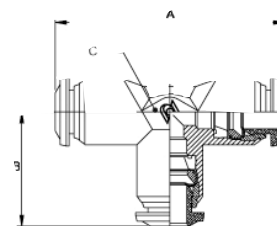
- Current price list represents in stock cataloged items.
- Non-stock items and special parts are available on a quotation basis.
- Configurations and dimensions are subject to change without notice.

262PPNI STRAIGHT UNION NICKEL PLATED

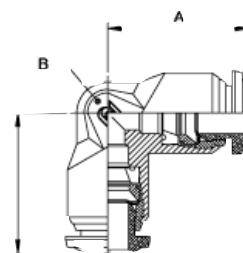
PART NUMBER	O.D. TUBE	A	B
262PPNI-2	1/8	.335	1.063
262PPNI-2.5	5/32	.406	1.201
262PPNI-4	1/4	.492	1.378
262PPNI-5	5/16	.571	1.417
262PPNI-6	3/8	.689	1.693
262PPNI-8	1/2	.807	1.929


264PPNI UNION TEE NICKEL PLATED

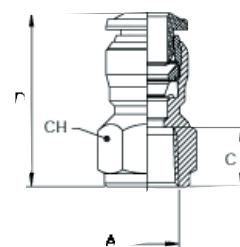
PART NUMBER	O.D. TUBE	A	B	C
264PPNI-2	1/8	1.339	.669	.354
264PPNI-2.5	5/32	1.339	.669	.354
264PPNI-4	1/4	1.654	.827	.433
264PPNI-5	5/16	1.772	.886	.512
264PPNI-6	3/8	2.087	1.043	.630
264PPNI-8	1/2	2.402	1.201	.748


265PPNI UNION ELBOW NICKEL PLATED

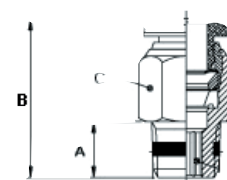
PART NUMBER	O.D. TUBE	A	B
265PPNI-2	1/8	.669	.354
265PPNI-2.5	5/32	.669	.354
265PPNI-4	1/4	.827	.433
265PPNI-5	5/16	.886	.512
265PPNI-6	3/8	1.043	.630
265PPNI-8	1/2	1.201	.748


266PPNI FEMALE ADAPTER NICKEL PLATED

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
266PPNI-2A	1/8	1/8	.354	.925	.512
266PPNI-2B	1/8	1/4	.512	1.142	.630
266PPNI-2.5A	5/32	1/8	.354	.965	.512
266PPNI-2.5B	5/32	1/4	.512	1.181	.630
266PPNI-4A	1/4	1/8	.354	1.063	.512
266PPNI-4B	1/4	1/4	.512	1.26	.630
266PPNI-6B	3/8	1/4	.512	1.378	.709
266PPNI-6C	3/8	3/8	.512	1.378	.787

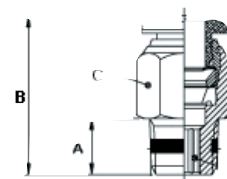

268PPNI MALE CONNECTOR NICKEL PLATED

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
268PPNI-2A	1/8	1/8	.335	.768	.433
268PPNI-2B	1/8	1/4	.512	.965	.551
268PPNI-2.5A	5/32	1/8	.335	.826	.433
268PPNI-2.5B	5/32	1/4	.512	.984	.551

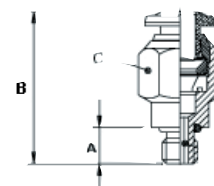


268PPNI MALE CONNECTOR NICKEL PLATED *CONTINUED*

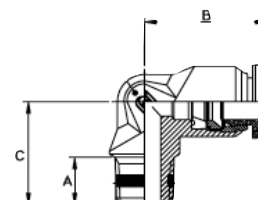
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
268PPNI-4A	1/4	1/8	.335	.984	.512
268PPNI-4B	1/4	1/4	.512	.984	.551
268PPNI-4C	1/4	3/8	.512	.984	.709
268PPNI-5A	5/16	1/8	.335	.984	.551
268PPNI-5B	5/16	1/4	.512	1.082	.551
268PPNI-5C	5/16	3/8	.512	1.082	.709
268PPNI-6A	3/8	1/8	.335	1.378	.669
268PPNI-6B	3/8	1/4	.512	1.319	.669
268PPNI-6C	3/8	3/8	.512	1.319	.709
268PPNI-6D	3/8	1/2	.669	1.319	.866
268PPNI-8B	1/2	1/4	.512	1.535	.787
268PPNI-8C	1/2	3/8	.512	1.417	.787
268PPNI-8D	1/2	1/2	.669	1.575	.866


268PPNI MALE CONNECTOR NICKEL PLATED

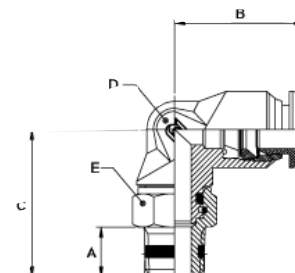
PART NUMBER	O.D. TUBE	UNF	A	B	C
268PPNI-2x1032	1/8	10/32	.197	.748	.315
268PPNI-2.5x1032	5/32	10/32	.197	.827	.394
268PPNI-4x1032	1/4	10/32	.197	.966	.512


269PPNI MALE ELBOW NICKEL PLATED

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
269PPNI-4A	1/4	1/8	.335	.827	.728
269PPNI-4B	1/4	1/4	.512	.827	.905
269PPNI-6B	3/8	1/4	.512	1.043	1.043
269PPNI-6C	3/8	3/8	.512	1.043	1.004


269PPSNI MALE SWIVEL ELBOW NICKEL PLATED

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
269PPSNI-2A	1/8	1/8	.335	.669	.906	.354	.512
269PPSNI-2B	1/8	1/4	.512	.669	1.181	.354	.591
269PPSNI-2.5A	5/32	1/8	.335	.669	.906	.354	.512
269PPSNI-2.5B	5/32	1/4	.512	.669	1.181	.354	.591
269PPSNI-4A	1/4	1/8	.335	.827	.984	.433	.512
269PPSNI-4B	1/4	1/4	.512	.827	1.22	.433	.591
269PPSNI-4C	1/4	3/8	.512	.827	1.28	.433	.709
269PPSNI-5A	5/16	1/8	.335	.886	1.043	.512	.512
269PPSNI-5B	5/16	1/4	.512	.886	1.26	.512	.591
269PPSNI-5C	5/16	3/8	.512	.886	1.28	.512	.709
269PPSNI-6A	3/8	1/8	.335	1.043	1.142	.630	.512
269PPSNI-6B	3/8	1/4	.512	1.043	1.339	.630	.591
269PPSNI-6C	3/8	3/8	.512	1.043	1.358	.630	.709
269PPSNI-6D	3/8	1/2	.669	1.043	1.614	.630	.866

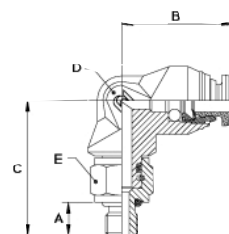


269PPSNI MALE SWIVEL ELBOW NICKEL PLATED *CONTINUED*

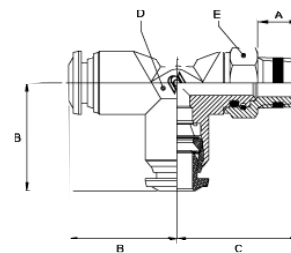
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
269PPSNI-8B	1/2	1/4	.512	1.201	1.476	.748	.591
269PPSNI-8C	1/2	3/8	.512	1.201	1.476	.748	.709
269PPSNI-8D	1/2	1/2	.669	1.201	1.732	.748	.866

269PPSNI MALE SWIVEL ELBOW NICKEL PLATED

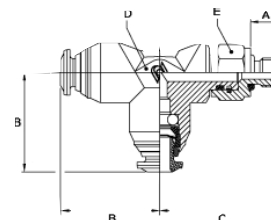
PART NUMBER	O.D. TUBE	UNF	A	B	C	D	E
269PPSNI-2X1032	1/8	10/32	.197	.669	.787	.354	.315
269PPSNI-2.5X1032	5/32	10/32	.197	.669	.787	.354	.315
269PPSNI-4X1032	1/4	10/32	.197	.827	.866	.433	.315


271PPSNI MALE SWIVEL RUN TEE NICKEL PLATED

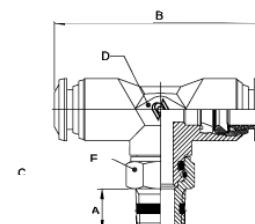
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
271PPSNI-2A	1/8	1/8	.335	.669	.906	.354	.512
271PPSNI-2B	1/8	1/4	.335	.669	1.181	.354	.591
271PPSNI-2.5A	5/32	1/8	.335	.669	.906	.354	.512
271PPSNI-4A	1/4	1/8	.335	.827	.984	.433	.512
271PPSNI-4B	1/4	1/4	.512	.827	1.22	.433	.591
271PPSNI-6B	3/8	1/4	.512	1.043	1.339	.630	.591
271PPSNI-6C	3/8	3/8	.512	1.043	1.358	.630	.709
271PPSNI-6D	3/8	1/2	.669	1.043	1.614	.630	.866
271PPSNI-8B	1/2	1/4	.512	1.201	1.476	.748	.591
271PPSNI-8C	1/2	3/8	.512	1.201	1.476	.748	.709
271PPSNI-8D	1/2	1/2	.669	1.201	1.732	.748	.866


271PPSNI MALE SWIVEL RUN TEE NICKEL PLATED

PART NUMBER	O.D. TUBE	UNF	A	B	C	D	E
271PPSNI-2X1032	1/8	10/32	.197	.669	.787	.354	.315
271PPSNI-2.5X1032	5/32	10/32	.197	.669	.787	.354	.315


272PPSNI MALE SWIVEL BRANCH TEE NICKEL PLATED

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
272PPSNI-2A	1/8	1/8	.295	1.339	.906	.354	.512
272PPSNI-2B	1/8	1/4	.512	1.339	1.181	.354	.591
272PPSNI-2.5A	5/32	1/8	.295	1.339	.906	.354	.512
272PPSNI-2.5B	5/32	1/4	.512	1.339	1.181	.354	.591
272PPSNI-4A	1/4	1/8	.295	1.654	.984	.433	.512

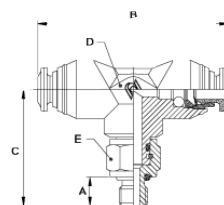


272PPSNI MALE SWIVEL BRANCH TEE NICKEL PLATED *CONTINUED*

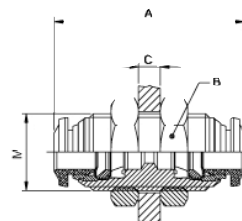
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
272PPSNI-4B	1/4	1/4	.512	1.654	1.22	.433	.591
272PPSNI-6B	3/8	1/4	.512	2.087	1.339	.630	.591
272PPSNI-6C	3/8	3/8	.512	2.087	1.358	.630	.709
272PPSNI-6D	3/8	1/2	.669	2.087	1.614	.630	.866
272PPSNI-8B	1/2	1/4	.512	2.402	1.476	.748	.591
272PPSNI-8C	1/2	3/8	.512	2.402	1.476	.748	.709
272PPSNI-8D	1/2	1/2	.669	2.402	1.732	.748	.866

272PPSNI MALE SWIVEL BRANCH TEE NICKEL PLATED

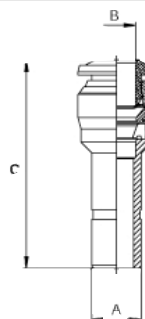
PART NUMBER	O.D. TUBE	UNF	A	B	C	D	E
272PPSNI-2X1032	1/8	10/32	.197	1.339	.787	.354	.315
272PPSNI-2.5X1032	5/32	10/32	.197	1.339	.787	.354	.315


283PPNI BULKHEAD CONNECTOR NICKEL PLATED

PART NUMBER	O.D. TUBE	A	B	C
283PPNI-2	1/8	1.063	.551	.197
283PPNI-2.5	5/32	1.240	.669	.276
283PPNI-4	1/4	1.378	.669	.374
283PPNI-5	5/16	1.457	.748	.413
283PPNI-6	3/8	1.693	.945	.492
283PPNI-8	1/2	1.890	1.024	.650

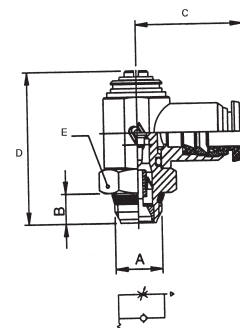

286PPNI UNION REDUCER NICKEL PLATED

PART NUMBER	(A) O.D. TUBE	(B) O.D. TUBE	C
286PPNI-42	1/4	1/8	1.142
286PPNI-4-2.5	1/4	5/32	1.181
286PPNI-64	3/8	1/4	1.496
286PPNI-84	1/2	1/4	1.693
286PPNI-86	1/2	3/8	1.693


953PPNI FLOW CONTROL VALVE NICKEL PLATED

PART NUMBER	O.D. TUBE	A	B	C	D	E
953PPNI-2A	1/8	1/8	.217	.827	1.181	.551
953PPNI-4A	1/4	1/8	.217	.866	1.181	.551
953PPNI-4B	1/4	1/4	.276	.984	1.417	.669

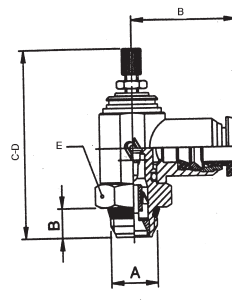
- Flow control with push in banjo body, controlled flow out brass nickel plated body, for filtered air to 145 psi



958PPNI FLOW CONTROL VALVE NICKEL PLATED

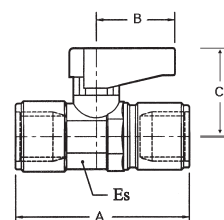
PART NUMBER	O.D. TUBE	(A) PIPE	B	C-MIN.	D-MAX.	E
958PPNI-2A	1/8	1/8	.217	1.614	1.83	.551
958PPNI-4A	1/4	1/8	.217	1.614	1.83	.551
958PPNI-4B	1/4	1/4	.276	1.85	2.086	.669

- Flow control with poly push banjo body & knob, controlled flow out brass nickel plated body, for filtered air to 145 psi



300PPNI MINI BALL VALVE, FEMALE NPTF, CHROME PLATED

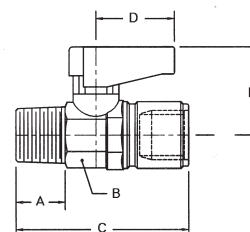
PART NUMBER	PIPE THREAD	PIPE THREAD ORIFICE	A	B	C
300PPNI-2A	1/8	1/8	.217	1.476	.748
300PPNI-4B	1/4	1/4	.217	1.811	.748
300PPNI-6C	3/8	3/8	.315	1.909	.866
300PPNI-8D	1/2	1/2	.394	2.441	1.024

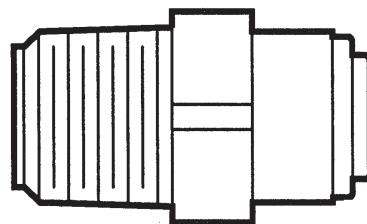


310PPNI MINI BALL VALVE, MALE NPTF TO FEMALE NPTF, CHROME PLATED

PART NUMBER	PIPE THREAD	PIPE THREAD ORIFICE	A	B	C	D	E
310PPNI-2A	1/8	1/8	.217	.551	.335	1.457	.827
310PPNI-4B	1/4	1/4	.217	.551	.512	1.811	.827
310PPNI-6C	3/8	3/8	.315	.709	.512	1.87	.866
310PPNI-8D	1/2	1/2	.394	.866	.669	2.362	1.024

- *Mini ball valve used with air, oil, water and gas to 250 psi, chrome plated brass, teflon ball seat, chrome plated brass ball





CONSTRUCTION

- Fitting is of three piece construction, body, collet and o-ring preassembled
- Material acetal copolymer or polypropylene
- O-ring manufactured from nitrile rubber or EPDM
- Collets are produced with stainless steel locking teeth

Maximum Pressures & Temperatures

standards	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"
Items	4mm	5mm	6mm	8mm	10mm	12mm
Water Pressure(psi)	230				170	
Temperatures	-20°F(-29°C)~+185°F(85°C)					

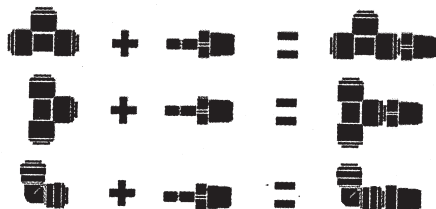
Maximum Torque

Threads	1/8", 1/4"	3/8", 1/2"
Maximum Torque	1.5N • M 15kgf • cm	3.0 N • M 30kgf • cm

ADVANTAGES

- FDA Compliant and NSF 51 listed non toxic material
- Wide variety of sizes to meet a broad range of applications
- Easy to install – no tools required
- Easy to disconnect and reuse
- Elbows and tees available with 360 degree swivel
- color coded clips allow color coding independent runs or lines

Chart on Adaptability



- Examine the possible combinations for new design
- Unlike some products disassembly and reuse is readily accomplished

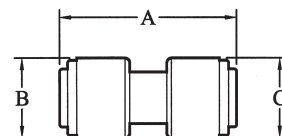
APPLICATIONS

- Water conditioning, filtration, reverse osmosis, soft drink, beer and condiment dispensing equipment where metal contamination can be present.
- Industrial applications include low pressure pneumatic, hydraulic and vacuum lines commonly used in packaging systems, robotics, machine tools, agricultural spraying, car and industrial wash systems and air logic systems.

462 STRAIGHT UNION

ACETAL POLYPROPYLENE

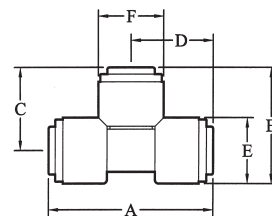
PART NUMBER	PART NUMBER	O.D. TUBE	A	B	C
462ACT-2.5		5/32	1.352	.512	.512
462ACT-3		3/16	1.352	.512	.512
462ACT-4	462PRY-4	1/4	1.406	.591	.591
462ACT-45		1/4 X 5/16	1.617	.697	.697
462ACT-5		5/16	1.620	.697	.697
462ACT-53		5/16 X 3/16	1.648	.697	.512
462ACT-6	462PRY-6	3/8	1.647	.783	.783
462ACT-63		3/8 X 3/16	1.661	.783	.512
462ACT-64		3/8 X 1/4	1.624	.783	.783
462ACT-65		3/8 X 5/16	1.627	.783	.783
462ACT-8	462PRY-8	1/2	1.973	.906	.906
462ACT-85		1/2 X 5/16	1.926	.906	.906
462ACT-86		1/2 X 3/8	1.947	.906	.906



464 UNION TEE

ACETAL POLYPROPYLENE

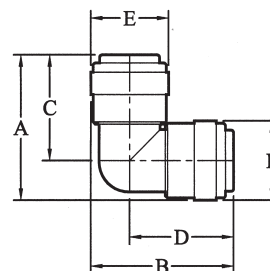
PART NUMBER	PART NUMBER	O.D. TUBE	RUN	A	B	C	D	E	F
464ACT-2.5		5/32	5/32	1.366	.939	.683	.683	.512	.512
464ACT-3		3/16	3/16	1.366	.939	.683	.683	.512	.512
464ACT-4	464PRY-4	1/4	1/4	1.551	1.075	.785	.776	.594	.594
464ACT-5		5/16	5/16	1.636	1.169	.82	.817	.697	.697
464ACT-6	464PRY-6	3/8	3/8	1.972	1.374	.986	.986	.776	.776
464ACT-664		3/8	1/4	1.972	1.350	.951	.986	.776	.594
464ACT-8	464PRY-8	1/2	1/2	2.355	1.636	1.183	1.177	.906	.906
464ACT-886		1/2	3/8	2.355	1.602	1.15	1.177	.906	.776



465 UNION ELBOW

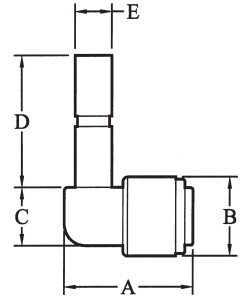
ACETAL POLYPROPYLENE

PART NUMBER	PART NUMBER	O.D. TUBE	A	B	C	D	E	F
465ACT-2.5		5/32	1.908	1.908	1.388	1.388	1.040	1.040
465ACT-3		3/16	1.908	1.908	1.388	1.388	1.040	1.040
465ACT-4	465PRY-4	1/4	2.182	2.182	1.502	1.502	1.20	1.20
465ACT-5		5/16	2.392	2.392	1.684	1.684	1.416	1.416
465ACT-52.5		5/16 X 5/32	2.204	2.411	1.684	1.699	1.424	1.034
465ACT-53		5/16 X 3/16	2.204	2.411	1.684	1.699	1.424	1.040
465ACT-54		5/16 X 1/4	2.392	2.38	1.684	1.672	1.416	1.416
465ACT-6	465PRY-6	3/8	2.811	2.811	2.027	2.027	1.568	1.568
465ACT-63		3/8 X 3/16	2.294	2.524	1.774	1.728	1.592	1.038
465ACT-64		3/8 X 1/4	2.485	2.686	1.885	1.86	1.592	1.200
465ACT-65		3/8 X 5/16	2.811	2.775	2.027	1.991	1.568	1.568
465ACT-8	465PRY-8	1/2	3.376	3.308	2.468	2.400	1.816	1.816
465ACT-86		1/2 X 3/8	3.376	3.308	2.468	2.400	1.816	1.816

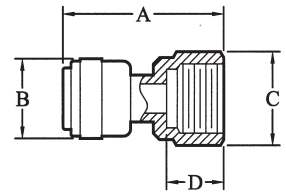


465 UNION ELBOW STEM
ACETAL POLYPROPYLENE

PART NUMBER	PART NUMBER	O.D. TUBE	O.D. STEM	A	B	C	D	E
465ACTS-2.5		5/32	5/32	.886	.512	.413	.618	.157
465ACTS-3		3/16	3/16	.886	.516	.403	.625	.187
465ACTS-4		1/4	1/4	.954	.591	.374	.719	.250
465ACTS-46		1/4	3/8	1.069	.694	.492	.976	.381
465ACTS-5		5/16	5/16	.954	.591	.374	.719	.250
465ACTS-56		5/16	3/8	1.069	.694	.492	.976	.381
465ACTS-6		3/8	3/8	1.300	.783	.584	.901	.375
465ACTS-8		1/2	1/2	1.537	.898	.734	.996	.500


466 FEMALE ADAPTER
ACETAL POLYPROPYLENE

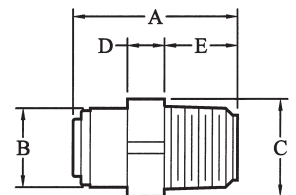
PART NUMBER	PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D
466ACT-4A	466PRY-4A	1/4	1/8	1.220	.591	.748	.453
466ACT-4B	466PRY-4B	1/4	1/4	1.220	.591	.748	.453
466ACT-6A	466PRY-6A	3/8	1/8	1.398	.783	.744	.508
466ACT-6B	466PRY-6B	3/8	1/4	1.398	.783	.744	.508


466 FEMALE ADAPTER, UNS THREAD, FAUCET ADAPTER
ACETAL

PART NUMBER	O.D. TUBE	UNS THREAD	A	B	C	D
466ACT-46	1/4	7/16-24	1.220	.591	.748	.453
466ACT-66	3/8	7/16-24	1.398	.783	.744	.508

468 MALE CONNECTOR
ACETAL POLYPROPYLENE

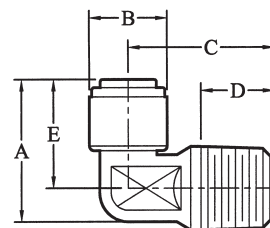
PART NUMBER	PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
468ACT-2.5A		5/32	1/8	.917	.512	.545	.232	.323
468ACT-2.5B		5/32	1/4	1.128	.512	.656	.234	.531
468ACT-3A		3/16	1/8	.969	.512	.545	.236	.374
468ACT-4A	468PRY-4A	1/4	1/8	1.027	.591	.661	.231	.406
468ACT-4B	468PRY-4B	1/4	1/4	1.107	.591	.656	.234	.494
468ACT-4C		1/4	3/8	1.006	.591	.787	.236	.474
468ACT-4D		1/4	1/2	1.301	.783	.972	.238	.646
468ACT-5A		5/16	1/8	1.045	.697	.785	.236	.374
468ACT-5B		5/16	1/4	1.039	.697	.785	.233	.489
468ACT-5C		5/16	3/8	1.024	.697	.787	.233	.474
468ACT-6A		3/8	1/8	1.214	.783	.786	.233	.374
468ACT-6B	468PRY-6B	3/8	1/4	1.329	.783	.786	.233	.489
468ACT-6C	468PRY-6C	3/8	3/8	1.137	.783	.969	.233	.467
468ACT-6D		3/8	1/2	1.321	.783	.969	.238	.646
468ACT-8C		1/2	3/8	1.364	.906	.969	.238	.656
468ACT-8D		1/2	1/2	1.354	.906	.969	.238	.646



469 MALE ELBOW

ACETAL POLYPROPYLENE

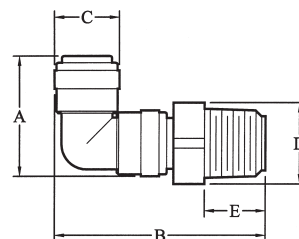
PART NUMBER	PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
469ACT-4A	469PRY-4A	1/4	1/8	.9724	.5906	.7874	.3937	.7756
469ACT-4B	469PRY-4B	1/4	1/4	1.0421	.5906	.9370	.4409	.9724
469ACT-4C	469PRY-4C	1/4	3/8	1.1378	.5906	.8661	.4740	.7756
469ACT-6B	469PRY-6B	3/8	1/4	1.2539	.7835	.9429	.4409	.9882
469ACT-6C	469PRY-6C	3/8	3/8	1.3224	.7835	.9413	.4740	.9882



469 360° SWIVEL ELBOW

ACETAL
PART
NUMBER

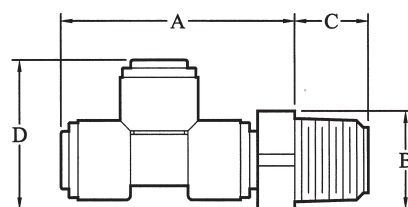
	O.D. TUBE	PIPE THREAD	A	B	C	D	E
469ACTS-2.5A	5/32	1/8	.939	1.205	.512	.550	.385
469ACTS-2.5B	5/32	1/4	.939	1.207	.512	.644	.524
469ACTS-3A	3/16	1/8	.939	1.205	.511	.550	.385
469ACTS-4A	1/4	1/8	1.074	1.350	.591	.550	.385
469ACTS-4B	1/4	1/4	1.074	1.341	.591	.644	.524
469ACTS-5A	5/16	1/8	1.177	1.437	.697	.550	.385
469ACTS-5B	5/16	1/4	1.177	1.439	.697	.644	.524
469ACTS-5C	5/16	3/8	1.177	1.435	.697	.771	.551
469ACTS-6B	3/8	1/4	1.383	1.651	.772	.644	.524
469ACTS-6C	3/8	3/8	1.383	1.647	.772	.771	.551
469ACTS-8C	1/2	3/8	1.661	1.925	.894	.771	.551
469ACTS-8D	1/2	1/2	1.661	1.924	.894	.955	.740



471 MALE SWIVEL RUN TEE

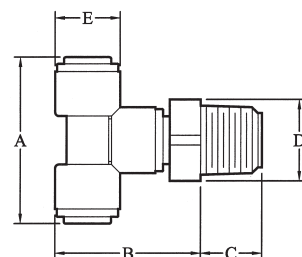
ACETAL
PART
NUMBER

	O.D. TUBE	PIPE THREAD	A	B	C	D
471ACTS-2.5A	5/32	1/8	1.632	.958	.385	.550
471ACTS-2.5B	5/32	1/4	1.632	1.006	.524	.644
471ACTS-3A	3/16	1/8	1.632	.957	.385	.547
471ACTS-4A	1/4	1/8	1.817	1.051	.385	.547
471ACTS-4B	1/4	1/4	1.817	1.110	.524	.644
471ACTS-5A	5/16	1/8	1.902	1.094	.385	.547
471ACTS-5B	5/16	1/4	1.902	1.142	.524	.644
471ACTS-5C	5/16	3/8	1.898	1.206	.551	.771
471ACTS-6B	3/8	1/4	2.24	1.309	.524	.644
471ACTS-6C	3/8	3/8	2.235	1.372	.551	.771
471ACTS-8C	1/2	3/8	2.617	1.569	.551	.771
471ACTS-8D	1/2	1/2	2.617	1.661	.740	.955

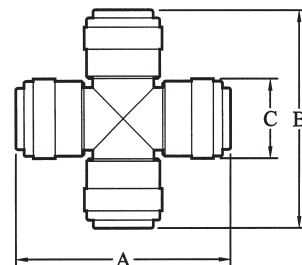


472 MALE SWIVEL BRANCH TEE
ACETAL

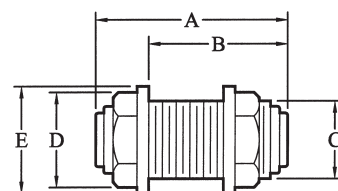
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
472ACTS-2.5A	5/32	1/8	1.366	1.205	.385	.550	.512
472ACTS-2.5B	5/32	1/4	1.366	1.207	.524	.644	.512
472ACTS-3A	3/16	1/8	1.366	1.205	.385	.547	.512
472ACTS-4A	1/4	1/8	1.551	1.341	.385	.547	.594
472ACTS-4B	1/4	1/4	1.551	1.341	.524	.644	.594
472ACTS-5A	5/16	1/8	1.636	1.434	.385	.547	.697
472ACTS-5B	5/16	1/4	1.636	1.432	.524	.644	.697
472ACTS-5C	5/16	3/8	1.636	1.431	.551	.771	.697
472ACTS-6B	3/8	1/4	1.972	1.642	.524	.644	.776
472ACTS-6C	3/8	3/8	1.972	1.636	.551	.771	.776
472ACTS-8C	1/2	3/8	2.355	1.898	.551	.771	.906
472ACTS-8D	1/2	1/2	2.355	1.898	.74	.955	.906


473 CROSS
ACETAL

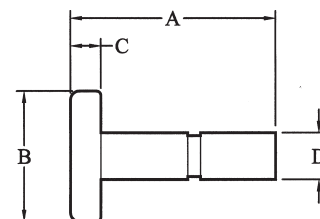
PART NUMBER	O.D. TUBE	A	B	C
473ACT-2.5	5/32	1.366	1.366	.512
473ACT-4	1/4	1.643	1.643	.591
473ACT-5	5/16	1.657	1.657	.693
473ACT-6	3/8	1.983	1.983	.783
473ACT-8	1/2	2.313	2.313	.906


483 BULKHEAD UNION
ACETAL

PART NUMBER	O.D. TUBE	A	B	C	D	E
483ACT-2.5	5/32	1.546	1.160	.63	.791	.886
483ACT-3	3/16	1.546	1.160	.63	.791	.886
483ACT-4	1/4	1.531	1.152	.63	.791	.886
483ACT-5	5/16	1.550	1.129	.787	.957	1.043
483ACT-6	3/8	1.567	1.15	.787	.957	1.043
483ACT-64	3/8 X 1/4	1.567	1.15	.787	.957	1.043
483ACT-8	1/2	1.898	1.376	1.051	1.203	1.484


484 PLUG
ACETAL

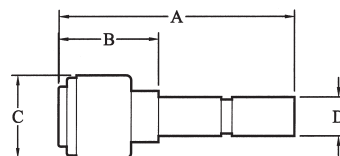
PART NUMBER	O.D. STEM	A	B	C	D
484ACT-2.5	5/32	.764	.496	.118	.156
484ACT-3	3/16	.764	.496	.118	.187
484ACT-4	1/4	.866	.587	.157	.250
484ACT-5	5/16	.907	.677	.157	.313
484ACT-6	3/8	1.04	.756	.157	.374
484ACT-8	1/2	1.179	.819	.157	.500



486ACT UNION REDUCER

ACETAL POLYPROPYLENE

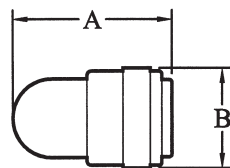
PART NUMBER	PART NUMBER	O.D. STEM	O.D. TUBE	A	B	C	D
486ACT-53		5/16	3/16	1.464	.724	.141	.313
486ACT-54		5/16	1/4	1.464	.709	.141	.313
486ACT-63		3/8	3/16	1.394	.49	.512	.376
486ACT-64	486PRY-64	3/8	1/4	1.565	.732	.591	.374
486ACT-65		3/8	5/16	1.602	.709	.697	.376
486ACT-85		1/2	5/16	1.573	.551	.697	.499
486ACT-86	486PRY-86	1/2	3/8	1.908	.875	.783	.499



487 TUBE END STOP

ACETAL

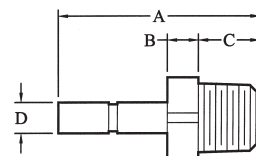
PART NUMBER	O.D. TUBE	A	B
487ACT-4	1/4	.882	.591
487ACT-5	5/16	.907	.697
487ACT-6	3/8	1.043	.783
487ACT-8	1/2	1.274	.906



488 STEM ADAPTER

ACETAL POLYPROPYLENE

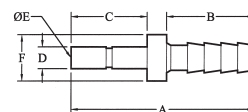
PART NUMBER	PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E	F
488ACT-2.5A		5/32	1/8	1.29	.266	.385	.157	.089	.550
488ACT-2.5B		5/32	1/4	1.42	.268	.524	.157	.087	.644
488ACT-3A		3/16	1/8	1.299	.266	.385	.189	.108	.547
488ACT-4A	488PRY-4A	1/4	1/8	1.335	.256	.385	.251	.175	.550
488ACT-4B	488PRY-4B	1/4	1/4	1.502	.256	.551	.251	.175	.644
488ACT-5A		5/16	1/8	1.365	.260	.385	.314	.197	.550
488ACT-5B		5/16	1/4	1.547	.260	.551	.314	.197	.649
488ACT-5C		5/16	3/8	1.547	.264	.551	.314	.197	.771
488ACT-6B	488PRY-6B	3/8	1/4	1.678	.260	.551	.381	.256	.650
488ACT-6C	488PRY-6C	3/8	3/8	1.691	.262	.551	.381	.252	.771
488ACT-8C	488PRY-8C	1/2	3/8	1.897	.262	.551	.500	.366	.949
488ACT-8D	488PRY-8D	1/2	1/2	2.00	.262	.740	.500	.360	.947



489 TUBE BARB CONNECTOR

ACETAL

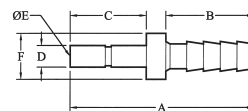
PART NUMBER	O.D. STEM	I.D. TUBE	A	B	C	D	E	F
489ACT-43	1/4	3/16	1.521	.709	.694	.250	.169	.449
489ACT-44	1/4	1/4	1.521	.709	.694	.250	.169	.449
489ACT-45	1/4	5/16	1.521	.709	.694	.250	.169	.449
489ACT-53	5/16	3/16	1.563	.709	.736	.314	.189	.449
489ACT-54	5/16	1/4	1.563	.709	.736	.314	.189	.465
489ACT-55	5/16	5/16	1.563	.709	.736	.314	.189	.488
489ACT-56	5/16	3/8	1.626	.772	.736	.314	.189	.583
489ACT-64	3/8	1/4	1.704	.709	.878	.375	.252	.614
489ACT-65	3/8	5/16	1.704	.709	.878	.375	.252	.614



489 TUBE BARB CONNECTOR CONTINUED

ACETAL PART NUMBER

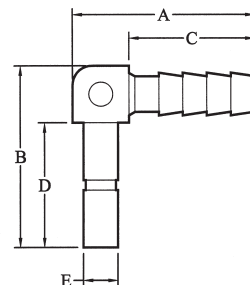
	O.D. STEM	I.D. TUBE	A	B	C	D	E	F
489ACT-66	3/8	3/8	1.767	.772	.878	.375	.252	.583
489ACT-68	3/8	1/2	1.767	.772	.878	.375	.252	.819
489ACT-86	1/2	3/8	1.887	.772	.998	.500	.374	.736
489ACT-88	1/2	1/2	1.887	.772	.998	.500	.374	.819



490 TUBE ELBOW BARB CONNECTOR

ACETAL PART NUMBER

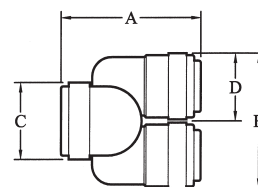
	O.D. STEM	I.D. TUBE	A	B	C	D	E	F
490ACT-44	1/4	1/4	1.110	1.096	.709	.694	.250	.169
490ACT-45	1/4	5/16	1.189	1.175	.709	.694	.250	.169
490ACT-54	5/16	1/4	1.110	1.137	.709	.736	.314	.189
490ACT-55	5/16	5/16	1.189	1.216	.709	.736	.314	.189
490ACT-64	3/8	1/4	1.110	1.279	.709	.878	.375	.252
490ACT-65	3/8	5/16	1.189	1.358	.709	.878	.375	.252



491 U BEND

ACETAL PART NUMBER

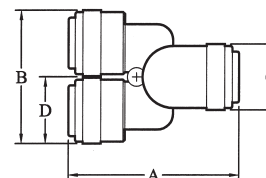
	O.D. TUBE	A	B	C	D
491ACT-4	1/4	1.354	1.181	.669	.591
491ACT-5	5/16	1.436	1.358	.768	.679
491ACT-6	3/8	1.594	1.559	.866	.780
491ACT-8	1/2	1.864	1.795	.984	.898



492 TWO WAY DIVIDER

ACETAL PART NUMBER

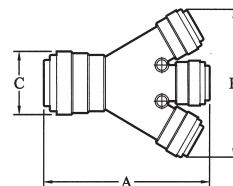
	TUBE IN	TUBE OUT	TUBE OUT	A	B	C
492ACT-2.5	5/32	5/32	5/32	1.36	1.03	.516
492ACT-4	1/4	1/4	1/4	1.554	1.181	.591
492ACT-5	5/16	5/16	5/16	1.711	1.358	.679
492ACT-65	3/8	5/16	5/16	1.803	1.369	.768
492ACT-6	3/8	3/8	3/8	1.902	1.559	.78
492ACT-8	1/2	1/2	1/2	2.26	1.808	.906



493 THREE WAY DIVIDER

ACETAL PART NUMBER

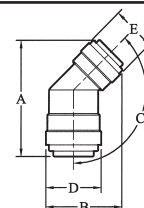
	O.D. TUBE	A	B	C	D
493ACT-64	3/8 X 1/4	2.299	2.00	.783	.591
493ACT-86	1/2 X 3/8	2.829	2.636	.787	.906



494 OFFSET CONNECTOR

ACETAL PART NUMBER

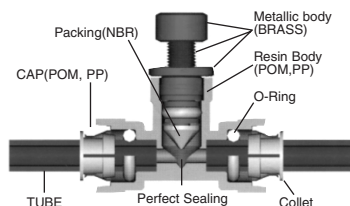
	O.D. TUBE	A	B	C	D	E
494ACT-64	3/8 X 1/4	1.487	1.024	5.315	.783	.591
494ACT-85	1/2 X 5/16	1.726	1.170	5.315	.906	.697



CONTROL VALVES

FEATURES:

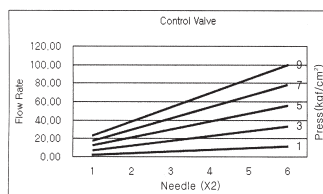
- DURABLE AND RESISTANT TO PRESSURE
- MINUTE REGULATION WITH GRADUAL FLOW CONTROL
- UNIFORM FLOW THROUGH USE OF LOCK NUT
- OPENING AND CLOSING ARE POSSIBLE



NOTE:

- FOR APPLICATIONS OTHER THAN FOOD BEVERAGE AND WATER REFER TO CHEMICAL PROPERTY.
- DO NOT APPLY EXCESSIVE VIBRATION, ROTATION, BODY PULLING OR TWISTING TO THE FITTING AS THE VALVE BODY MAY INCUR DAMAGE OR COLLETS MAY DISLOCATE.

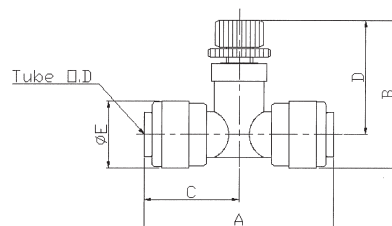
Flow Rate Per Rotation



* The above data may be changed depending on the time and temperature variations.

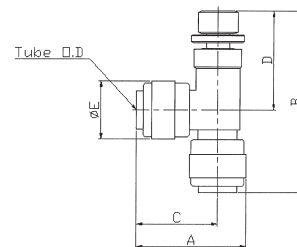
CV462 CONTROL VALVE UNION ELBOW

PART NUMBER	O.D. TUBE	A	B	C	D	E
CV462ACT-4	1/4	1.685	1.300	.843	1.005	.591
CV462ACT-6	3/8	1.989	1.533	.994	1.149	.783



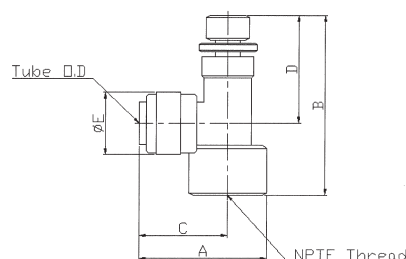
CV465 CONTROL VALVE ELBOW UNION

PART NUMBER	O.D. TUBE	A	B	C	D	E
CV465ACT-4	1/4	1.134	1.864	.839	1.015	.591



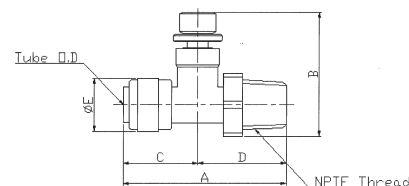
CV466 CONTROL VALVE FEMALE ADAPTER

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
CV466ACT-4B	1/4	1/4	1.208	1.689	.839	.955	.591
CV466ACT-6C	3/8	3/8	1.454	2.065	1.047	1.133	.783



CV468 CONTROL VALVE MALE CONNECTOR

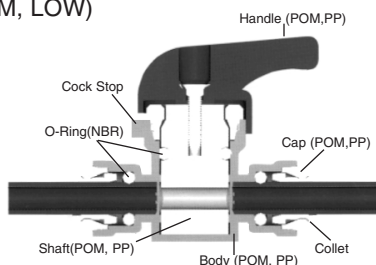
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D	E
CV468ACT-4B	1/4	1/4	1.839	1.381	.839	.998	.591
CV468ACT-6C	3/8	3/8	2.163	1.793	1.004	1.159	.783



HAND VALVES

FEATURES:

- EASY OPENING AND CLOSING
- PARTIAL FLOW CONTROL (HIGH, MEDIUM, LOW)

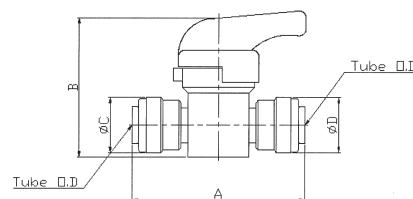


NOTE:

- FOR APPLICATIONS OTHER THAN FOOD BEVERAGE AND WATER REFER TO CHEMICAL PROPERTY.
- DO NOT APPLY EXCESSIVE VIBRATION, ROTATION, BODY PULLING OR TWISTING TO THE FITTING AS THE VALVE BODY MAY INCUR DAMAGE OR COLLETS MAY DISLOCATE.

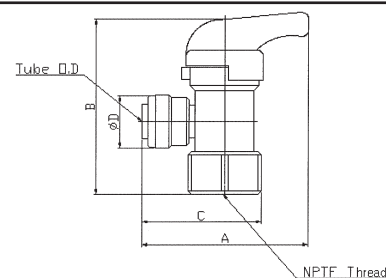
HV462 HAND VALVE UNION CONNECTOR

PART NUMBER	O.D. TUBE	A	B	C	D
HV462ACT-4	1/4	1.882	1.483	.591	.591
HV462ACT-6	3/8	2.163	1.793	.783	.783



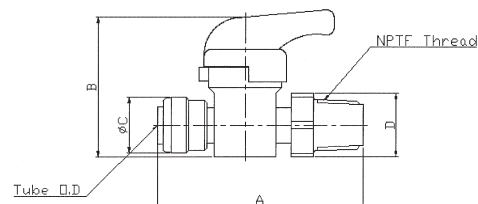
HV466 HAND VALVE FEMALE ADAPTER

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D
HV466ACT-4B	1/4	1/4	1.892	1.963	1.357	.591
HV466ACT-6C	3/8	3/8	2.295	2.183	1.649	.783



HV468 HAND VALVE MALE CONNECTOR

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C	D
HV468ACT-4B	1/4	1/4	2.201	1.484	.591	.669
HV468ACT-6C	3/8	3/8	2.472	1.703	.783	.748



CHECK VALVES

FEATURES:

- USED TO PREVENT REVERSE FLOW
- MINIMIZED SIZE FOR TIGHT INSTALLATIONS

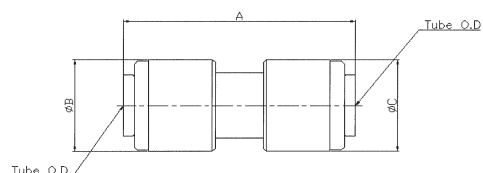


NOTE:

- FOR APPLICATIONS OTHER THAN FOOD BEVERAGE AND WATER REFER TO CHEMICAL PROPERTY.
- DO NOT APPLY EXCESSIVE VIBRATION, ROTATION, BODY PULLING OR TWISTING TO THE FITTING AS THE VALVE BODY MAY INCUR DAMAGE OR COLLETS MAY DISLOCATE.

CKV462 CHECK VALVE

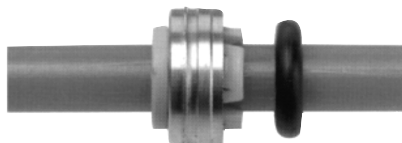
PART NUMBER	O.D. TUBE	A	B	C
CKV462ACT-4	1/4	1.406	.591	.591
CKV462ACT-6	3/8	1.627	.783	.783



CARTRIDGES

FEATURES:

- BRASS AND STAINLESS
- CARTRIDGES OFFER A METHOD OF INTEGRATING QUICK CONNECT TECHNOLOGY INTO COMPONENTS MADE BY A WIDE VARIETY OF METALS



BCAR BRASS CARTRIDGE

PART NUMBER	O.D. TUBE
BCAR-2.5	5/32
BCAR-3	3/16
BCAR-4	1/4
BCAR-5	5/16
BCAR-6	3/8
BCAR-8	1/2

SCAR STAINLESS CARTRIDGE

PART NUMBER	O.D. TUBE
SCAR-2.5	5/32
SCAR-3	3/16
SCAR-4	1/4
SCAR-5	5/16
SCAR-6	3/8
SCAR-8	1/2

WATER FILTERS

FEATURES:

- OFFERS PUREST WATER WITH SUPERB DURABILITY
- UNIVERSALLY COMPATABLE WITH OTHER MANUFACTURERS
- COVER IS SEPARATE FROM THE BODY PROMOTING EASE OF CLEANING

NOTE:

- FOR APPLICATIONS OTHER THAN FOOD BEVERAGE AND WATER REFER TO CHEMICAL PROPERTY.
- DO NOT APPLY EXCESSIVE VIBRATION, ROTATION, BODY PULLING OR TWISTING TO THE FITTING AS THE VALVE BODY MAY INCUR DAMAGE OR COLLETS MAY DISLOCATE.

Maximum Pressures and Temperatures

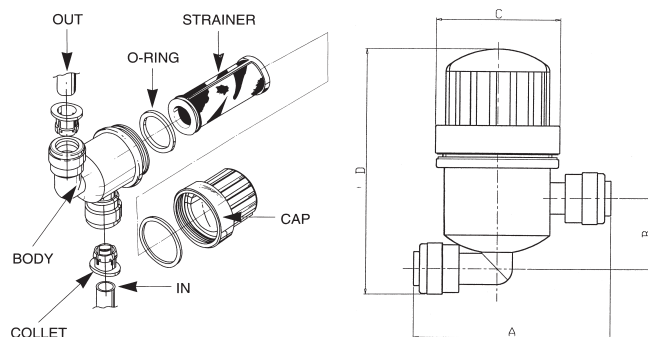
Standards	1/4	5/16	3/8"
Items	6mm	8mm	10mm
Water pressure (psi)	170		
Temperature	-20°F (-29°C ~ +185°F (85°C)		

* The above data is based on the use of DM filter at room temperature.

* If the filter is to be used at other temperatures or pressures, consult us.

WFACT WATER FILTER

PART NUMBER	IN	OUT	A	B
WFACT-4	1/4	1/4	2.297	2.772
WFACT-54	5/16	1/4	2.248	2.874
WFACT-5	5/16	5/16	2.248	2.874
WFACT-64	3/8	1/4	2.303	2.874
WFACT-65	3/8	5/16	2.303	2.874
WFACT-6	3/8	3/8	2.314	2.874



LOCKING CLIPS

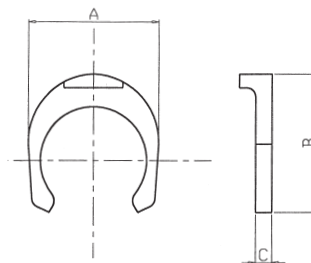
FEATURES:

- OFFERS A FIRMER AND MORE SECURE TIGHTENING
 - ATTACHING AND DETACHING EASILY ACCOMPLISHED WITH PROTRUSION
 - OFFERED IN COLORS BLACK (BK), RED (RD), YELLOW (YW), GRAY (GY), BLUE (BL), AND GREEN (GN).
- WHEN ORDERING DESIGNATE COLOR FOLLOWING PART NUMBER.

EXAMPLE: 1/4 LOCKING CLIP YELLOW ORDER AS AFLOC-4-YW

AFLOC LOCKING CLIP

PART NUMBER	O.D. TUBE	A	B	C
AFLOC-4	1/4	.528	.508	.058
AFLOC-5	5/16	.559	.543	.052
AFLOC-6	3/8	.634	.598	.067
AFLOC-8	1/2	.732	.689	.100



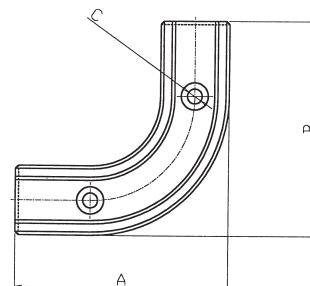
FLOW BEND CLIPS

FEATURES:

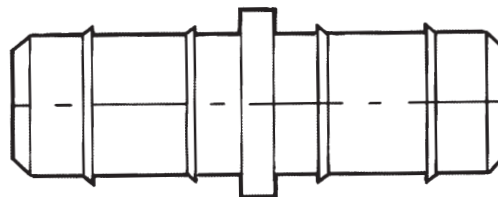
- HOLDS TUBE FIRMLY IN PLACE
- PREVENTS SEPARATION AND MAINTAINS ALIGNMENT
- MAINTAINS A SMOOTH CURVE WHEN TUBE IS BENT
- MAY BE AFFIXED WITH BOLTS

AFBC FLOW BEND CLIP

PART NUMBER	O.D. TUBE	A	B	C
AFBC-5	5/16	1.42	1.42	.130
AFBC-6	3/8	1.81	1.81	.130



NOTES

**CONSTRUCTION**

- Straights and shapes are manufactured from CA 360 or CA 345
- One piece, double barb design

ADVANTAGES

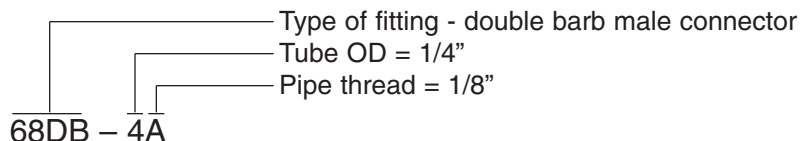
- Economical, push-on design
- Quick installation, no tube preparation
- Double barbs provide positive connection
- Excellent vibration characteristics
- Low cost, compact size

APPLICATIONS

- Use with high quality polyethylene tubing
- Use in low pressure instrumentation, automation and control circuits; vacuum and pneumatic circuits
- Temperature range depending on tubing
- Pressure will meet that of the tubing

ORDERING INFORMATION

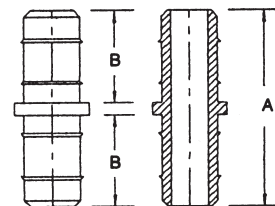
- Order by part number as indicated in the catalog
- Nomenclature example:

**NOTES**

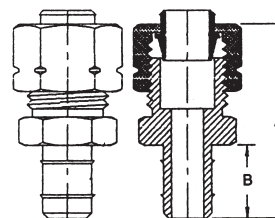
- Current price list represents in stock cataloged items.
- Non-stock items and special parts are available on a quotation basis.
- Configurations and dimensions are subject to change without notice.

62DB UNION

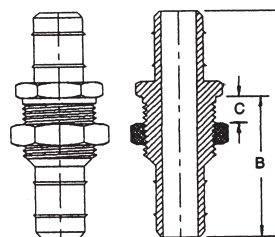
PART NUMBER	O.D. TUBE	I.D. TUBE	A	B
62DB-2.5	5/32	.096	.60	.29
62DB-4	1/4	.170	.85	.40
62DB-42.5	1/4X5/32	.170X.076	.72	.41
62DB-46	1/4X3/8	.170X.250	.89	.40
62DB-48	1/4X1/2	.170X.375	1.07	.40
62DB-6	3/8	.250	.95	.45
62DB-68	3/8X1/2	.250X.375	1.07	.45
62DB-8	1/2	.375	1.21	.56


62DBC COMPRESSION UNION

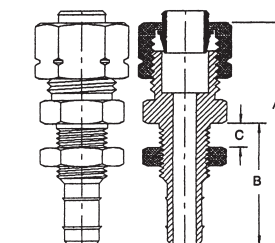
PART NUMBER	O.D. TUBE	I.D. TUBE	A	B
62DBC-4	1/4	.170	1.14	.42
62DBC-6	3/8	.250	1.43	.63


62DBH BULKHEAD UNION

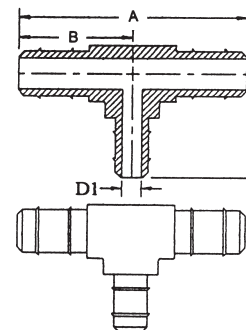
PART NUMBER	O.D. TUBE	I.D. TUBE	PIPE THREAD	A	B	C
62DBH-4	1/4	.170	5/16-24 STRAIGHT	1.39	.79	.210
62DBH-6	3/8	.250	3/8-24 STRAIGHT	1.62	1.02	.375


62DBHC BULKHEAD COMPRESSION UNION

PART NUMBER	O.D. TUBE	I.D. TUBE	PIPE THREAD	A	B	C
62DBHC-44	1/4	.170	5/16-24 STRAIGHT	1.50	.77	.218
62DBHC-66	3/8	.250	3/8-24 STRAIGHT	1.83	1.01	.375

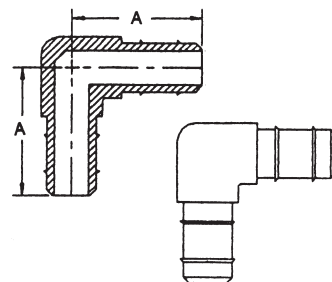

64DB TEE UNION

PART NUMBER	O.D. TUBE	I.D. TUBE	A	B
64DB-2.5	5/32	.096	1.01	.51
64DB-4	1/4	.170	1.24	.64
64DB-44-2.5	1/4X5/32	.170X.096	1.24	.64
64DB-6	3/8	.250	1.37	.70
64DB-66-2.5	3/8X5/32	.250X.096	1.37	.70
64DB-664	3/8X1/4	.250X.170	1.37	.70
64DB-8	1/2	.375	1.64	.82
64DB-884	1/2X1/4	.375X.170	1.63	.82
64DB-886	1/2X3/8	.375X.250	1.63	.82



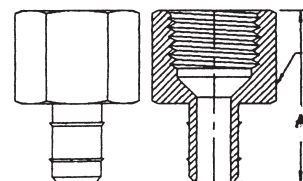
65DB ELBOW UNION

PART NUMBER	O.D. TUBE	I.D. TUBE	A
65DB-2.5	5/32	.096	.51
65DB-4	1/4	.170	.62
65DB-6	3/8	.250	.70
65DB-8	1/2	.375	.82



66DB FEMALE CONNECTOR

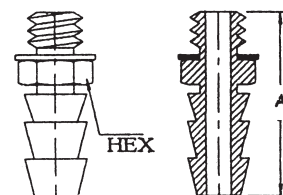
PART NUMBER	O.D. TUBE	I.D. TUBE	PIPE THREAD	A	HEX
66DB-4A	1/4	.170	1/8	.92	1/2
66DB-6A	3/8	.250	1/8	.94	1/2
66DB-6B	3/8	.250	1/4	1.07	11/16



67DB MALE CONNECTOR

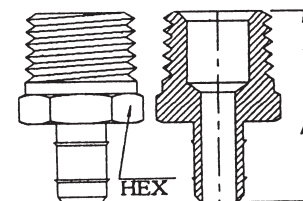
WITH BUNA N GASKET

PART NUMBER	O.D. TUBE	I.D. TUBE	PIPE THREAD	A	HEX
67DB-2X1032	1/8	.062	10/32 STRAIGHT	.62	1/4
67DB-4X1032	1/4	.125	10/32 STRAIGHT	.75	1/4



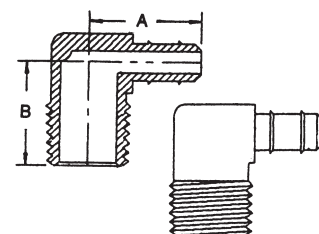
68DB MALE CONNECTOR

PART NUMBER	O.D. TUBE	I.D. TUBE	PIPE THREAD	A	HEX
68DB-2.5A	5/32	.096	1/8	.85	7/16
68DB-4X	1/4	.170	1/16	.94	11/32
68DB-4A	1/4	.170	1/8	.98	7/16
68DB-4B	1/4	.170	1/4	1.10	9/16
68DB-6A	3/8	.250	1/8	1.10	7/16
68DB-6B	3/8	.250	1/4	1.12	9/16
68DB-8C	1/2	.375	3/8	1.27	11/16



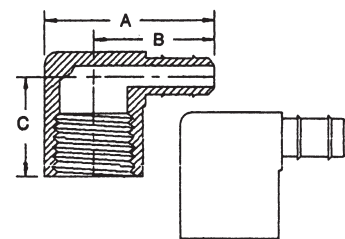
69DB MALE ELBOW

PART NUMBER	O.D. TUBE	I.D. TUBE	PIPE THREAD	A	B
69DB-2.5A	5/32	.096	1/8	.57	.64
69DB-4X	1/4	.170	1/16	.63	.61
69DB-4A	1/4	.170	1/8	.70	.64
69DB-4B	1/4	.170	1/4	.73	.73
69DB-6A	3/8	.250	1/8	.71	.71
69DB-6B	3/8	.250	1/4	.74	.74
69DB-8C	1/2	.375	3/8	.95	.82

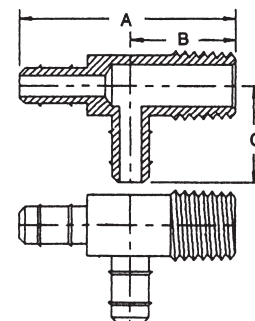


70DB FEMALE ELBOW

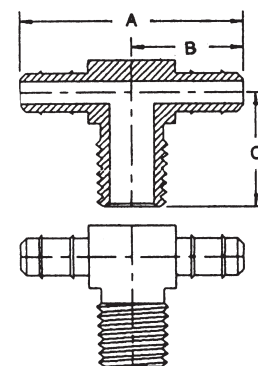
PART NUMBER	O.D. TUBE	I.D. TUBE	PIPE THREAD	A	B	C
70DB-4A	1/4	.170	1/8	.92	.67	.45
70DB-6B	3/8	.250	1/4	1.13	.79	.64


71DB MALE RUN TEE

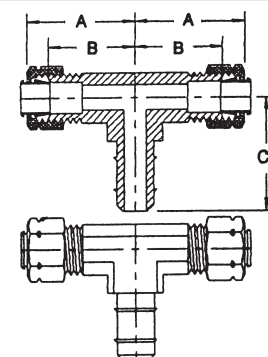
PART NUMBER	O.D. TUBE	I.D. TUBE	PIPE THREAD	A	B	C
71DB-4A	1/4	.170	1/8	1.29	.70	.67
71DB-6A	3/8	.250	1/8	1.39	.70	.70
71DB-6B	3/8	.250	1/4	1.45	.76	.76


72DB MALE BRANCH TEE

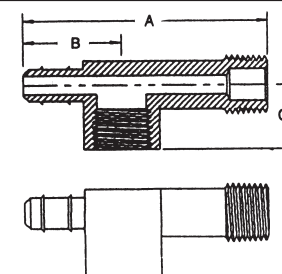
PART NUMBER	O.D. TUBE	I.D. TUBE	PIPE THREAD	A	B	C
72DB-4X	1/4	.170	1/16	1.34	.67	.66
72DB-4A	1/4	.170	1/8	1.39	.70	.67
72DB-6A	3/8	.250	1/8	1.39	.70	.70
72DB-6B	3/8	.250	1/4	1.51	.76	.76


72DBC COMPRESSION TEE

PART NUMBER	O.D. TUBE	I.D. TUBE	A	B	C
72DBC-44	1/4X1/4	.170	.74	.55	.75
72DBC-664	3/8X3/8X1/4	.170	.88	.55	.81

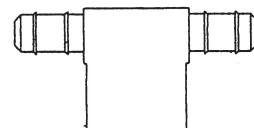
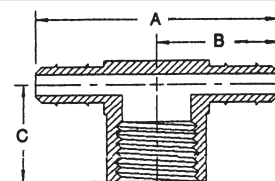

76DB GAUGE TEE

PART NUMBER	O.D. TUBE	I.D. TUBE	PIPE THREAD	A	B	C
76DB-4A	1/4	.170	1/8	1.92	.67	.45

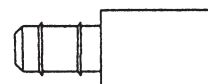
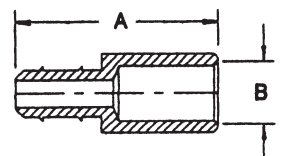


77DB FEMALE BRANCH TEE

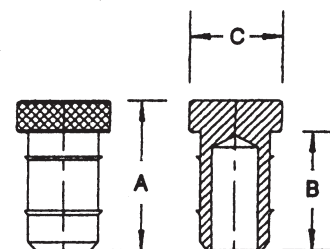
PART NUMBER	O.D. TUBE	I.D. TUBE	PIPE THREAD	A	B	C
77DB-2.5A	5/32	.096	1/8	1.05	.44	.45
77DB-4A	1/4	.170	1/8	1.35	.68	.50

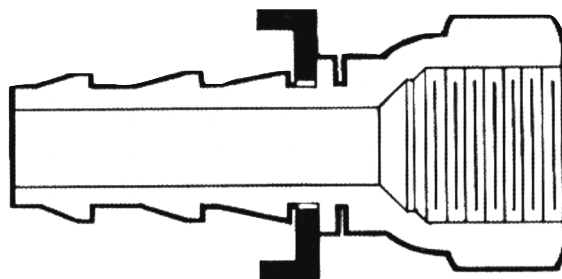
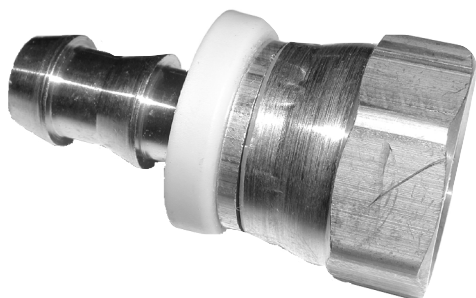

83DB SOLDER CONNECTOR

PART NUMBER	O.D. TUBE	I.D. TUBE	A	B
83DB-44	1/4	.170	.92	.24


84DB PLUG

PART NUMBER	O.D. TUBE	I.D. TUBE	A	B	C
84DB-2	1/8	.062	.50	.35	.25
84DB-4	1/4	.170	.57	.42	.28
84DB-6	3/8	.250	.69	.45	.38
84DB-8	1/2	.377	.82	.57	.56



**CONSTRUCTION**

- Manufactured from CA 360 or CA 345 brass
- Hose protection cap is plastic

ADVANTAGES

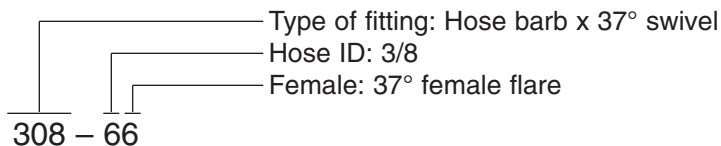
- Low cost
- Ease of Assembly – push on design

APPLICATIONS

- Use with thermoplastic or rubber push-on style hose
- Excellent vibration characteristics

ORDERING INFORMATION

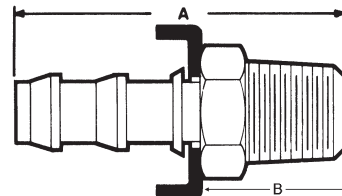
- Fittings are supplied as indicated in the catalog
- Nomenclature example:

**NOTES**

- Current price list represents in stock cataloged items.
- Non-stock items and special parts are available on a quotation basis.
- Configurations and dimensions are subject to change without notice.

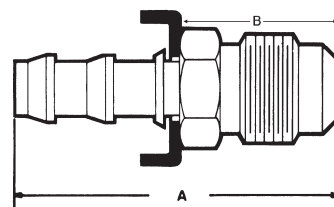
301 HOSE TO MPT

PART NUMBER	I.D. HOSE	PIPE THREAD	A	B	HEX
301-42	1/4	1/8	1.47	.66	7/16
301-44	1/4	1/4	1.67	.84	9/16
301-46	1/4	3/8	1.61	.77	9/16
301-52	5/16	1/8	1.42	.77	7/16
301-62	3/8	1/8	1.60	.92	9/16
301-64	3/8	1/4	1.69	.87	9/16
301-66	3/8	3/8	1.73	.91	11/16
301-68	3/8	1/2	2.03	1.13	7/8
301-84	1/2	1/4	1.93	.88	5/8
301-86	1/2	3/8	1.86	.91	11/16
301-88	1/2	1/2	2.09	1.14	7/8
301-812	1/2	3/4	2.07	1.02	1-1/16
301-108	5/8	1/2	2.55	1.14	7/8
301-1212	3/4	3/4	2.72	1.27	1-1/16



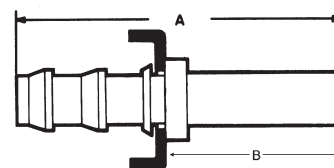
302 HOSE TO 45° SAE MALE

PART NUMBER	I.D. HOSE	FLARE THREAD	A	B	HEX
302-44	1/4	1/4	1.56	.75	7/16
302-45	1/4	5/16	1.66	.84	1/2
302-66	3/8	3/8	1.75	.94	5/8
302-88	1/2	1/2	1.94	1.00	3/4



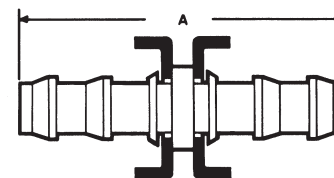
303 RIGID TUBE SHANK

PART NUMBER	I.D. HOSE	I.D. TUBE	A	B
303-43	1/4	3/16	1.94	1.12
303-44	1/4	1/4	2.00	1.19
303-45	1/4	5/16	2.03	1.22
303-66	3/8	3/8	2.16	1.34
303-88	1/2	1/2	2.44	1.48
303-1010	5/8	5/8	2.61	1.54



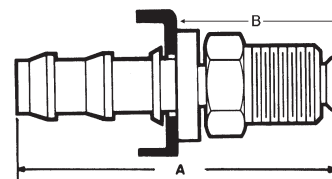
304 HOSE SPLICER

PART NUMBER	I.D. HOSE	A
304-44	1/4	1.87
304-55	5/16	1.73
304-66	3/8	1.91
304-88	1/2	2.22
304-1010	5/8	2.75
304-1212	3/4	3.21

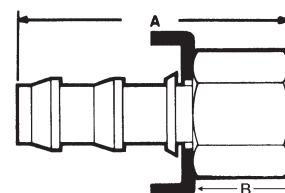


305 HOSE TO INVERTED FLARE, SWIVEL

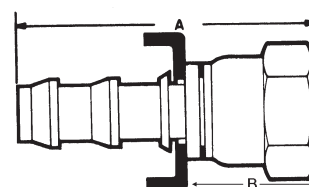
PART NUMBER	I.D. HOSE	INV FLARE THREAD	A	B	HEX
305-43	1/4	3/16	1.69	.87	3/8
305-44	1/4	1/4	1.72	.91	7/16
305-45	1/4	5/16	1.78	.97	1/2
305-55	5/16	5/16	1.58	.77	1/2
305-66	3/8	3/8	2.00	1.19	5/8
305-88	1/2	1/2	2.23	1.28	3/4
305-1010	5/8	5/8	2.50	1.35	7/8


306 HOSE TO INVERTED FLARE

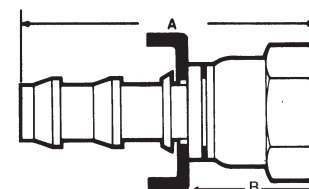
PART NUMBER	I.D. HOSE	INV FLARE THREAD	A	B	HEX
306-43	1/4	3/16	1.25	.44	7/16
306-44	1/4	1/4	1.25	.44	1/2
306-45	1/4	5/16	1.28	.47	9/16
306-66	3/8	3/8	1.39	.53	3/4
306-88	1/2	1/2	1.41	.51	7/8


307 HOSE TO FEMALE 45° FLARE, SWIVEL

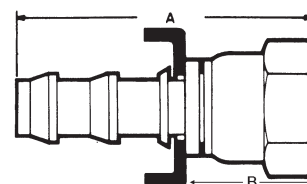
PART NUMBER	I.D. HOSE	FLARE THREAD	A	B	HEX
307-46	1/4	3/8	1.60	.77	3/4
307-66	3/8	3/8	1.61	.80	3/4
307-1212	3/4	3/4	2.33	1.09	1-1/4


308 HOSE TO JIC FEMALE, SWIVEL

PART NUMBER	I.D. HOSE	37° FLARE THREAD	A	B	HEX
308-66	3/8	3/8	1.55	.76	3/4
308-88	1/2	1/2	2.01	.96	7/8
308-1212	3/4	3/4	2.55	1.09	1-1/4

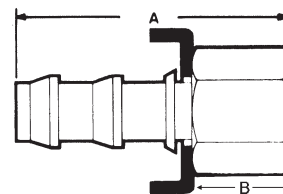

309 HOSE TO DUAL ANGLE, SWIVEL, 45°/37°

PART NUMBER	I.D. HOSE	FLARE THREAD	A	B	HEX
309-44	1/4	1/4	1.50	.69	9/16
309-45	1/4	5/16	1.56	.75	5/8
309-55	5/16	5/16	1.60	.77	5/8
309-68	3/8	1/2	1.82	.92	7/8
309-88	1/2	1/2	1.77	.81	7/8
309-1010	5/8	5/8	2.33	.87	1

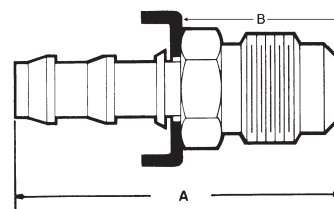


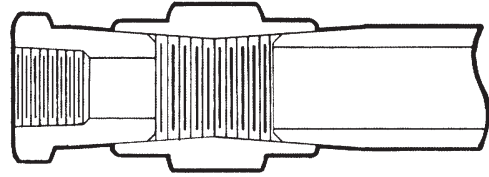
3099 HOSE TO FPT

PART NUMBER	I.D. HOSE	PIPE THREAD	A	HEX
3099-42	1/4	1/8	1.39	7/16
3099-44	1/4	1/4	1.56	3/4
3099-64	3/8	1/4	1.82	7/8
3099-66	3/8	3/8	2.16	1-1/8
3099-86	1/2	3/8		
3099-88	1/2	1/2		


310 HOSE TO JIC MALE 37°

PART NUMBER	I.D. HOSE	37° FLARE THREAD	A	HEX
310-44	1/4	1/4	1.57	1/2
310-45	1/4	5/16	1.60	9/16
310-66	3/8	3/8	1.78	5/8



**CONSTRUCTION**

- Straights and shapes are manufactured from CA360, CA345 or CA377 brass

ADVANTAGES

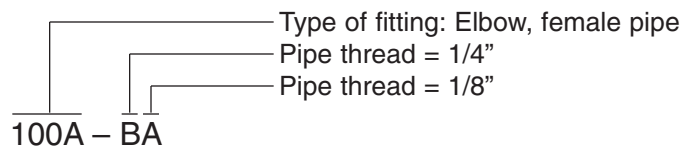
- Large range of styles and sizes
- Some shapes are offered in either extruded or forged patterns

APPLICATIONS

- Use with brass, copper or iron pipe
- Use in low and medium pressure lines
- Fair vibration resistance
- Temperature range of -65° to +250° F.

ORDERING INFORMATION

- Order by part number as indicated in the catalog
- Shapes that include "F" in the part number, for example, 101AF-A, are forgings
- Nomenclature example:



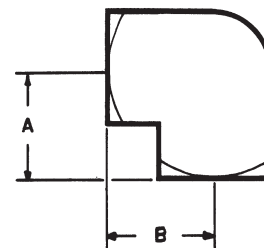
Note: Shapes with an asterisk (*) following the part number will be supplied as forged pattern.

NOTES

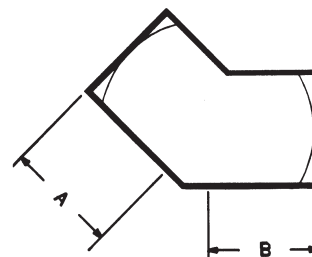
- Current price list represents in stock cataloged items.
- Non-stock items and special parts are available on a quotation basis.
- configurations and dimensions are subject to change without notice.

100A ELBOW FPT TO FPT
REF SAE 130238

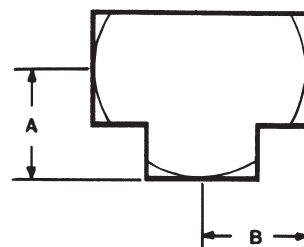
PART NUMBER	PIPE THREAD	A	B
100A-A	1/8	.59	.59
100AF-A	1/8	.58	.58
100A-B	1/4	.78	.78
100AF-B	1/4	.72	.72
100A-BA	1/4X1/8	.72	.72
100A-C	3/8	.84	.84
100A-CB	3/8X1/4	.84	.84
100AF-CB	3/8X1/4	.81	.81
100AF-C	3/8	.81	.81
100A-D	1/2	.84	.84
100AF-D	1/2	1.00	1.00
100A-DC	1/2X3/8	1.00	1.00
100AF-DC	1/2X3/8	1.00	1.00
100A-E	3/4	1.18	1.18
100AF-E	3/4	1.10	1.10


100-45A ELBOW 45° FPT TO FPT

PART NUMBER	PIPE THREAD	A	B
100-45A-A	1/8	.46	.46
100-45A-B	1/4	.64	.64
100-45A-C	3/8	.61	.61

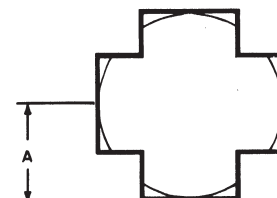

101A TEE FPT ALL ENDS
REF SAE 130438

PART NUMBER	PIPE THREAD	A	B
101A-A	1/8	.56	.56
101AF-A	1/8	.56	.56
101A-B	1/4	.75	.75
101AF-B	1/4	.72	.72
101A-BBA	1/4X1/4X1/8	.69	.69
101A-C	3/8	.84	.84
101AF-C	3/8	.84	.84
101AF-CCB	3/8X3/8X1/4	.80	.85
101A-D	1/2	1.09	1.09
101AF-D	1/2	.98	.98
101A-DDC	1/2X1/2X3/8	1.00	1.00
101A-E	3/4	1.18	1.18
101AF-E	3/4	1.13	1.13



102A CROSS FPT ALL ENDS

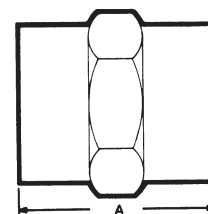
PART NUMBER	PIPE THREAD	A
102A-A	1/8	.65
102AF-A	1/8	.52
102A-B	1/4	.78
102AF-B	1/4	.66
102A-C	3/8	.98
102AF-C	3/8	.82
102A-D*	1/2	1.08
102A-E*	3/4	1.18



ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

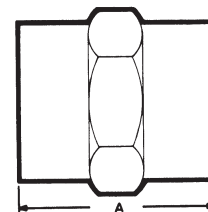
103A COUPLING FPT TO FPT

PART NUMBER	PIPE THREAD	A	HEX
103A-A	1/8	.75	1/2
103A-B	1/4	.88	5/8
103A-C	3/8	1.00	13/16
103A-D	1/2	1.19	15/16
103A-E	3/4	1.19	1-1/4

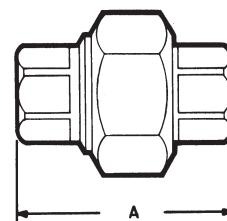

103AH COUPLING FPT TO FPT

REF SAE 130138

PART NUMBER	PIPE THREAD	A	HEX
103AH-A	1/8	.75	9/16
103AH-B	1/4	1.12	3/4
103AH-C	3/8	1.12	7/8
103AH-D	1/2	1.50	1-1/16
103AH-E	3/4	1.53	1-3/8


104A GROUND JOINT UNION FPT TO FPT

PART NUMBER	PIPE THREAD	A	HEX
104A-A	1/8	1.19	9/16
104A-B	1/4	1.22	11/16
104A-C	3/8	1.72	11/16
104A-D	1/2	1.78	15/16
104A-E	3/4	1.88	1-1/4


108A CAP

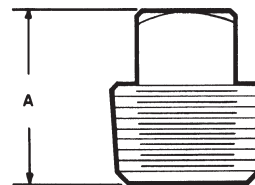
PART NUMBER	PIPE THREAD	A	HEX
108A-A	1/8	.47	9/16
108A-B	1/4	.59	11/16
108A-C	3/8	.69	13/16
108A-D	1/2	.78	15/16
108A-E	3/4	.94	1-1/4



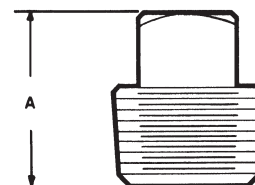
109A SQUARE HEAD PLUG CORED

PART NUMBER	PIPE THREAD	A
109A-A*	1/8	.58
109A-B*	1/4	.70
109A-C*	3/8	.73
109A-D	1/2	.93
109A-E	3/4	1.00
109A-F	1	1.20

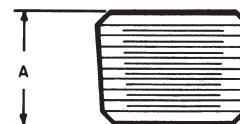
*SUPPLIED AS SOLID


109AS SQUARE HEAD PLUG SOLID

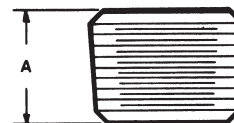
PART NUMBER	PIPE THREAD	A
109A-D	1/2	.93
109A-E	3/4	1.00
109A-F	1	1.20


109CS COUNTER-SUNK PLUG

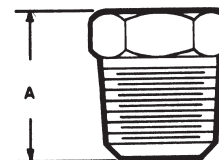
PART NUMBER	PIPE THREAD	A
109CS-A	1/8	.30
109CS-B	1/4	.45
109CS-C	3/8	.45
109CS-D	1/2	.60
109CS-E	3/4	.55


110FB FACE BUSHING

PART NUMBER	PIPE THREAD	A
110FB-CB	3/8X1/4	.50
110FB-DB	1/2X1/4	.53
110FB-DC	1/2X3/8	.53
110FB-ED	3/4X1/2	.55


110A HEX BUSHING

PART NUMBER	PIPE THREAD	A	HEX
110A-BA	1/4X1/8	.62	9/16
110A-CA	3/8X1/8	.69	11/16
110A-CB	3/8X1/4	.69	11/16
110A-DA	1/2X1/8	.81	13/16
110A-DB	1/2X1/4	.81	13/16
110A-DC	1/2X3/8	.81	13/16
110A-EA	3/4X1/8	.94	1-1/16
110A-EB	3/4X1/4	.94	1-1/16
110A-EC	3/4X3/8	.94	1-1/16
110A-ED	3/4X1/2	.94	1-1/16
110A-FB	1X1/4	1.12	1-3/8

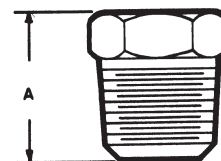


110A HEX BUSHING CONTINUED

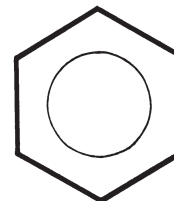
PART NUMBER	PIPE THREAD	A	HEX
110A-FC	1X3/8	1.12	1-3/8
110A-FD	1X1/2	1.12	1-3/8
110A-FE	1X3/4	1.12	1-3/8

110AH HEX BUSHING
REF SAE 130140

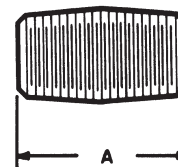
PART NUMBER	PIPE THREAD	A	HEX
110AH-BA	1/4X1/8	.75	9/16
110AH-CA	3/8X1/8	.75	11/16
110AH-CB	3/8X1/4	.75	3/4
110AH-DA	1/2X1/8	1.00	7/8
110AH-DB	1/2X1/4	1.00	7/8
110AH-DC	1/2X3/8	1.00	7/8
110AH-EA	3/4X1/8	1.00	1-1/8
110AH-EB	3/4X1/4	1.00	1-1/8
110AH-EC	3/4X3/8	1.00	1-1/8
110AH-ED	3/4X1/2	1.00	1-1/8


111A LOCK NUT

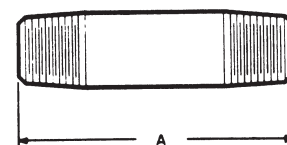
PART NUMBER	PIPE THREAD	THICKNESS	HEX
111A-A	1/8	.19	11/16
111A-B	1/4	.25	7/8
111A-C	3/8	.31	1
111A-D	1/2	.25	1-1/8
111A-E	3/4	.33	1-1/2


112A CLOSE NIPPLE

PART NUMBER	PIPE THREAD	A
112A-A	1/8	.75
112A-B	1/4	.88
112A-C	3/8	1.00
112A-D	1/2	1.12
112A-E	3/4	1.31
112A-F	1	1.31


113A LONG NIPPLE (YELLOW)

PART NUMBER	PIPE THREAD	A
113A-A15	1/8	1-1/2
113A-B15	1/4	1-1/2
113A-C15	3/8	1-1/2
113A-D15	1/2	1-1/2
113A-E15	3/4	1-1/2

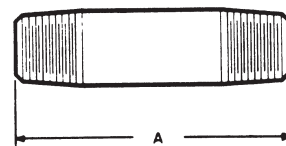


113A LONG NIPPLE (YELLOW) CONTINUED

PART NUMBER	PIPE THREAD	A
113A-A2	1/8	2
113A-B2	1/4	2
113A-C2	3/8	2
113A-D2	1/2	2
113A-E2	3/4	2

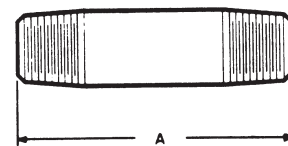
113RB LONG NIPPLE (RED)

PART NUMBER	PIPE THREAD	A
113RB-A25	1/8	2-1/2
113RB-B25	1/4	2-1/2
113RB-C25	3/8	2-1/2
113RB-D25	1/2	2-1/2
113RB-E25	3/4	2-1/2
113RB-A3	1/8	3
113RB-B3	1/4	3
113RB-C3	3/8	3
113RB-D3	1/2	3
113RB-E3	3/4	3
113RB-A35	1/8	3-1/2
113RB-B35	1/4	3-1/2
113RB-C35	3/8	3-1/2
113RB-D35	1/2	3-1/2
113RB-E35	3/4	3-1/2
113RB-A4	1/8	4
113RB-B4	1/4	4
113RB-C4	3/8	4
113RB-D4	1/2	4
113RB-E4	3/4	4
113RB-A45	1/8	4-1/2
113RB-B45	1/4	4-1/2
113RB-C45	3/8	4-1/2
113RB-D45	1/2	4-1/2
113RB-E45	3/4	4-1/2
113RB-A5	1/8	5
113RB-B5	1/4	5
113RB-C5	3/8	5
113RB-D5	1/2	5
113RB-E5	3/4	5
113RB-A55	1/8	5-1/2
113RB-B55	1/4	5-1/2
113RB-C55	3/8	5-1/2
113RB-D55	1/2	5-1/2
113RB-E55	3/4	5-1/2

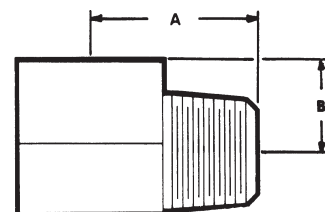


113RB LONG NIPPLE (RED) CONTINUED

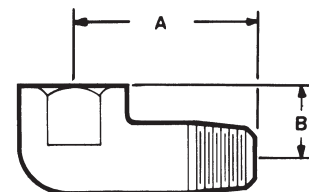
PART NUMBER	PIPE THREAD	A
113RB-A6	1/8	6
113RB-B6	1/4	6
113RB-C6	3/8	6
113RB-D6	1/2	6
113RB-E6	3/4	6
113RB-A7	1/8	7
113RB-B7	1/4	7
113RB-C7	3/8	7
113RB-D7	1/2	7
113RB-E7	3/4	7


116A STREET ELBOW
REF SAE 130239

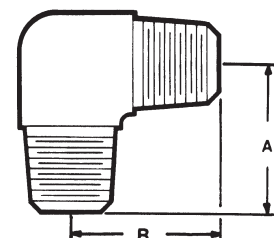
PART NUMBER	PIPE THREAD	A	B
116A-A	1/8	.62	.35
116AF-A	1/8	.81	.56
116A-AMB	1/8	.50	.36
116A-B	1/4	.78	.43
116AF-B	1/4	.86	.44
116A-C	3/8	1.00	.89
116AF-C	3/8	.98	.68
116A-D	1/2	1.25	1.03
116AF-D	1/2	1.43	.94
116A-E	3/4	1.40	1.08
116AF-E	3/4	1.50	.91


116AL STREET ELBOW LONG PATTERN

PART NUMBER	PIPE THREAD	A	B
116AL-A	1/8	.80	.46
116AL-B	1/4	1.10	.68
116AL-C	3/8	1.29	.95


116AM MALE ELBOW

PART NUMBER	PIPE THREAD	A	B
116AM-A	1/8	.69	.69
116AMF-A	1/8	.71	.71
116AM-B	1/4	.88	.88
116AMF-B	1/4	1.09	1.09
116AM-BA	1/4X1/8	.77	.95
116AMF-BA	1/4X1/8	1.09	.71
116AM-C	3/8	1.06	1.06
116AM-CB	3/8X1/4	.92	.92
116AM-D	1/2	1.40	1.40
116AMF-D	1/2	1.41	1.41
116AM-DC	1/2X3/8	1.02	1.12

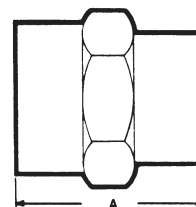


117A SLOTTED PLUG

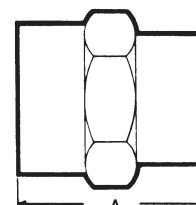
PART NUMBER	PIPE THREAD	A
117A-A	1/8	.30
117A-B	1/4	.45
117A-C	3/8	.45


119A REDUCER FPT TO FPT

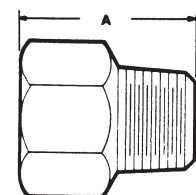
PART NUMBER	PIPE THREAD	A	HEX
119A-BA	1/4X1/8	.94	5/8
119A-CA	3/8X1/8	1.00	3/4
119A-CB	3/8X1/4	1.00	13/16
119A-DA	1/2X1/8	1.19	15/16
119A-DB	1/2X1/4	1.19	15/16
119A-DC	1/2X3/8	1.19	15/16
119A-ED	3/4X1/2	1.19	1-1/4


119HA REDUCER FPT TO FPT
REF SAE 130138

PART NUMBER	PIPE THREAD	A	HEX
119AH-BA	1/4X1/8	.96	3/4
119AH-CB	3/8X1/4	1.16	7/8
119AH-DB	1/2X1/4	1.38	1-1/16
119AH-DC	1/2X3/8	1.38	1-1/16

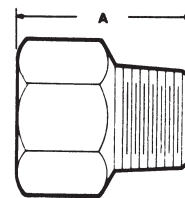

120A ADAPTER FPT TO MPT

PART NUMBER	PIPE THREAD	A	HEX
120A-AA	1/8X1/8	.88	1/2
120A-BA	1/4X1/8	.94	5/8
120A-BB	1/4X1/4	1.00	5/8
120A-CA	3/8X1/8	1.00	3/4
120A-CB	3/8X1/4	1.12	13/16
120A-CC	3/8X3/8	1.12	13/16
120A-DB	1/2X1/4	1.19	15/16
120A-DC	1/2X3/8	1.19	15/16
120A-DD	1/2X1/2	1.31	15/16
120A-ED	3/4X1/2	1.22	1-1/4

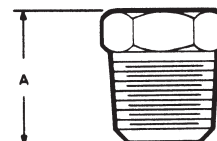


120AH ADAPTER FPT TO MPT
REF SAE 130139

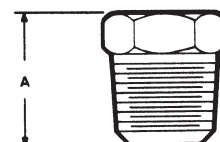
PART NUMBER	PIPE THREAD	A	HEX
120AH-AA	1/8X1/8	.87	9/16
120AH-BA	1/4X1/8	1.06	3/4
120AH-BB	1/4X1/4	1.06	3/4
120AH-CB	3/8X1/4	1.25	7/8
120AH-CC	3/8X3/8	1.25	7/8
120AH-DB	1/2X1/4	1.46	1-1/16
120AH-DC	1/2X3/8	1.46	1-1/16
120AH-DD	1/2X1/2	1.65	1-1/16


121A HEX HEAD PLUG CORED

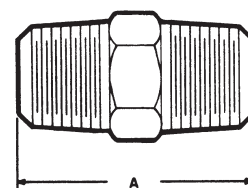
PART NUMBER	PIPE THREAD	A	HEX
121A-A	1/8	.56	7/16
121A-B	1/4	.62	9/16
121A-C	3/8	.72	11/16
121A-D	1/2	.81	7/8
121A-E	3/4	.84	1-1/16
121A-F	1	1.12	1-3/16


121AS HEX HEAD PLUG SOLID

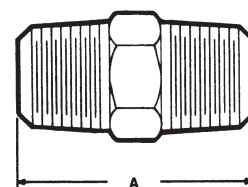
PART NUMBER	PIPE THREAD	A	HEX
121AS-A	1/8	.56	7/16
121AS-B	1/4	.62	9/16
121AS-C	3/8	.72	11/16
121AS-D	1/2	.81	7/8
121AS-E	3/4	.94	1-1/16


122A HEX NIPPLE

PART NUMBER	PIPE THREAD	A	HEX
122A-A	1/8	.91	7/16
122A-B	1/4	1.12	9/16
122A-C	3/8	1.25	11/16
122A-D	1/2	1.50	7/8
122A-E	3/4	1.56	1-1/16

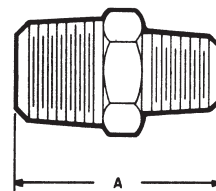

122AH HEX NIPPLE
REF SAE 130137

PART NUMBER	PIPE THREAD	A	HEX
122AH-A	1/8	.97	7/16
122AH-B	1/4	1.37	9/16
122AH-C	3/8	1.40	11/16
122AH-D	1/2	1.81	7/8
122AH-E	3/4	1.96	1-1/8

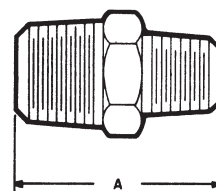


123A HEX REDUCING NIPPLE

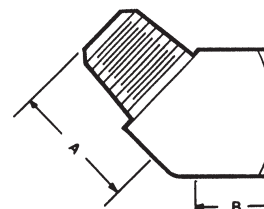
PART NUMBER	PIPE THREAD	A	HEX
123A-BA	1/4X1/8	1.00	9/16
123A-CA	3/8X1/8	1.11	11/16
123A-CB	3/8X1/4	1.19	11/16
123A-DB	1/2X1/4	1.34	7/8
123A-DC	1/2X3/8	1.41	7/8
123A-ED	3/4X1/2	1.50	1-1/16


123AH HEX REDUCING NIPPLE
REF SAE 130137

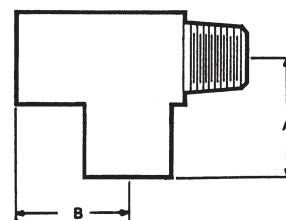
PART NUMBER	PIPE THREAD	A	HEX
123AH-BA	1/4X1/8	1.18	9/16
123AH-CA	3/8X1/8	1.21	11/16
123AH-CB	3/8X1/4	1.40	11/16
123AH-DB	1/2X1/4	1.62	7/8
123AH-DC	1/2X3/8	1.62	7/8


124A STREET ELBOW 45°
REF SAE 130339

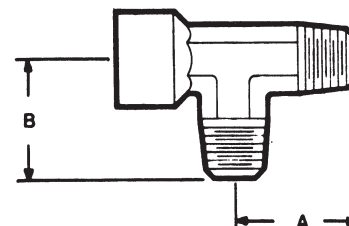
PART NUMBER	PIPE THREAD	A	B
124A-A	1/8	.38	.50
124A-B	1/4	.74	.55
124A-C	3/8	.78	.56
124A-D	1/2	.98	.74


127A STREET TEE FPT TO MPT TO FPT
REF SAE 130424

PART NUMBER	PIPE THREAD	A	B
127A-A	1/8	.55	.56
127A-B	1/4	.78	.91
127A-C	3/8	.84	1.03
127A-D	1/2	1.16	1.16


127S STREET TEE FPT TO MPT TO MPT

PART NUMBER	PIPE THREAD	A	B
127S-A*	1/8	.60	.88
127S-B*	1/4	.87	.86

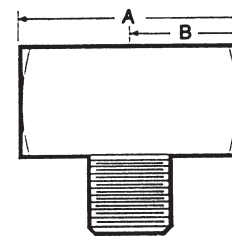
ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING


T9 BRANCH TEE FPT TO FPT TO MPT

REF SAE 130425

PART NUMBER	PIPE THREAD	A	B
T9-222*	1/8	.62	.31
T9-444*	1/4	1.50	.75
T9-666*	3/8	1.60	.80
T9-888*	1/2	2.14	1.07

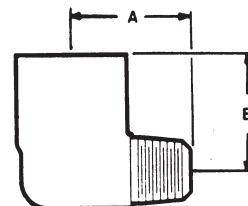
ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING



128A REDUCING ELBOW

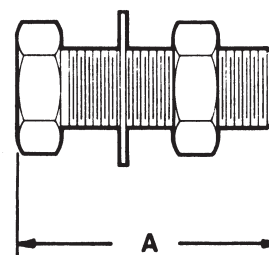
PART NUMBER	PIPE THREAD	A	B
128A-BA	1/4X1/8	.70	.53
128A-CB*	3/8X1/4	.93	.58

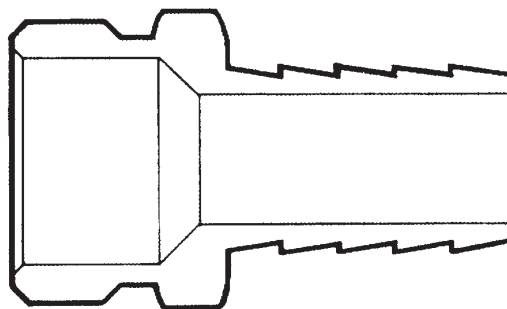
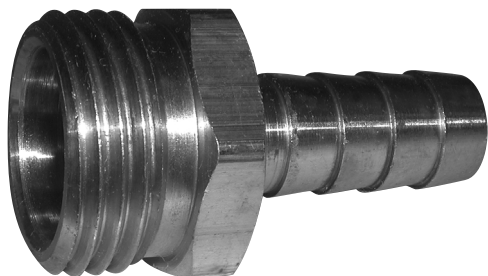
ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING



129A BULKHEAD MPT TO FPT

PART NUMBER	FEMALE PIPE THREAD	A	STRAIGHT THREAD
129A-A	1/8	1.50	5/8-18
129AS-B	1/4	.92	3/4-16
129A-B	1/4	1.50	3/4-16
129A-C	3/8	1.32	1-14
129A-D	1/2	1.50	1 1/8-14





CONSTRUCTION

- Manufactured from CA360 or CA345 brass

ADVANTAGES

- Used in low pressure garden hose applications
- Barb fittings are intended for use with a hose clamp or ferrule.

ORDERING INFORMATION

- Order by desired part number
- Nomenclature example:

19A – 12D

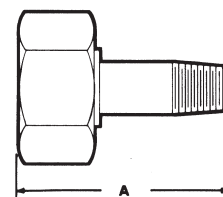
Fitting type: Male hose to male pipe
Hose size: (12/16th) 3/4
Pipe thread = 1/2

NOTES

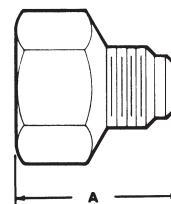
- Current price list represents in stock cataloged items.
- Non-stock items and special parts are available on a quotation basis.
- configurations and dimensions are subject to change without notice.

W1 WATER INLET ASSEMBLY GH SWIVEL TO MPT

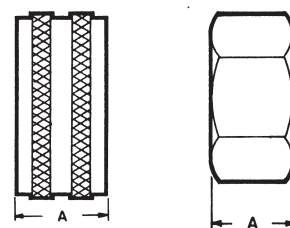
PART NUMBER	HOSE THREAD	PIPE THREAD	A
W1-B	3/4	1/4	1.40
W1-C	3/4	3/8	1.52


W1 WATER INLET ASSEMBLY GH SWIVEL TO FLARE

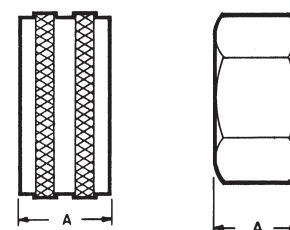
PART NUMBER	HOSE THREAD	FLARE THREAD	A
W1-6	3/4	3/8	1.25
W1-8	3/4	1/2	1.34


GHN1 & GHN1H GARDEN HOSE NUT

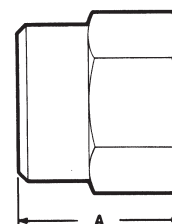
PART NUMBER	HOSE THREAD	A	HEX
GHN1	3/4	.50	(ROUND 1-3/16)
GHN1H	3/4	.63	(HEX) 1-1/4


GHN5 & GHN5H GARDEN HOSE CAP

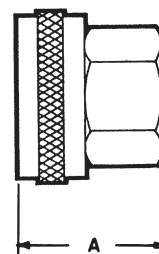
PART NUMBER	HOSE THREAD	PIPE THREAD	A	HEX
GHN5	3/4	—	.63	(ROUND 1-3/16)
GHN5-TA	3/4	1/8	.63	(ROUND 1-3/16)
GHN5H	3/4	—	.50	(HEX) 1-1/4


5A FEMALE HOSE TO FEMALE PIPE

PART NUMBER	HOSE THREAD	PIPE THREAD	A	HEX
5A-12D	3/4	1/2	1.13	1-1/8
5A-12E	3/4	3/4	1.13	1-1/8

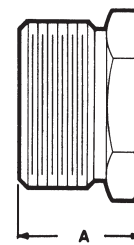

5AS FEMALE HOSE TO FEMALE PIPE, SWIVEL

PART NUMBER	HOSE THREAD	PIPE THREAD	A	HEX
5AS-12D	3/4	1/2	1.22	1
5AS-12E	3/4	3/4	1.32	1-3/16



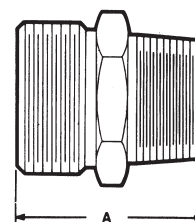
18A MALE HOSE TO FEMALE PIPE

PART NUMBER	HOSE THREAD	PIPE THREAD	A	HEX
18A-12B	3/4	1/4	.75	1-1/16
18A-12C	3/4	3/8	.75	1-1/16
18A-12D	3/4	1/2	.72	1-1/16
18A-12E	3/4	3/4	1.22	1-1/8

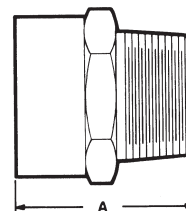

19A MALE HOSE TO MALE PIPE

PART NUMBER	HOSE THREAD	PIPE THREAD	A	HEX
19A-12C	3/4	3/8	1.18	1-1/16
19A-12D	3/4	1/2	1.18	1-1/16
19AF-12DE*	3/4	3/4	1.25	1-1/16

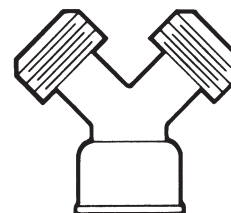
*TAPPED 1/2 FPT


20A FEMALE HOSE TO MALE PIPE

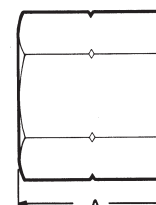
PART NUMBER	HOSE THREAD	PIPE THREAD	A	HEX
20A-12D	3/4	1/2	1.12	1-1/18
20A-12E	3/4	3/4	1.31	1-3/16


21A HOSE WYE

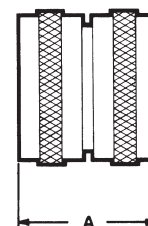
PART NUMBER	HOSE THREAD
21A-12	3/4


22A FEMALE HOSE TO FEMALE HOSE

PART NUMBER	HOSE THREAD	A	HEX
22A-12	3/4X3/4	1.25	1-1/4

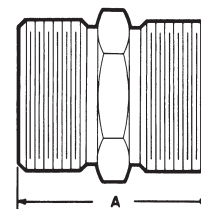

22AS FEMALE HOSE TO FEMALE HOSE, SWIVEL

PART NUMBER	HOSE THREAD	A
22AS-12E	3/4X3/4	1.21

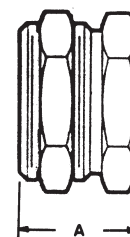


23A MALE HOSE TO MALE HOSE

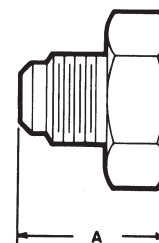
PART NUMBER	HOSE THREAD	A	HEX
23A-12	3/4X3/4	1.18	1-1/16


ECD-D PANEL MOUNT DRAIN COOLER FITTING

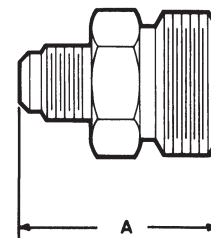
PART NUMBER	PIPE THREAD	A	HEX
ECD-D	1/2 FPT	.91	1-3/16


46WH FLARE TO FEMALE HOSE

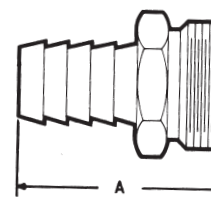
PART NUMBER	FLARE	HOSE THREAD	A	HEX
46WH-612	3/8	3/4	1.31	1-3/16
46WH-812	1/2	3/4	1.41	1-3/16


48WH FLARE TO MALE HOSE

PART NUMBER	FLARE	HOSE THREAD	A	HEX
48WH-612	3/8	3/4	1.44	27/32
48WH-812	1/2	3/4	1.63	27/32


201GH HOSE BARB TO MALE GARDEN HOSE

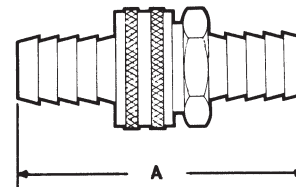
PART NUMBER	GARDEN HOSE THREAD	HOSE I.D.	A	HEX
STANDARD				
201GH-8E	3/4	1/2	1.72	1-1/16
201GH-10E	3/4	5/8	1.72	1-1/16
201GH-12E	3/4	3/4	1.72	1-1/16
LONG				
201GH-8EX	3/4	1/2	1.93	1-1/16
201GH-10EX	3/4	5/8	1.93	1-1/16
201GH-12EX	3/4	3/4	1.93	1-1/16



202GHS HOSE BARB TO HOSE BARB, SWIVEL

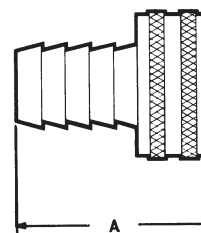
GARDEN HOSE ASSEMBLIES AVAILABLE WITH HEX NUTS
EXTRA LONG LENGTHS AVAILABLE BY SPECIAL ORDER

PART NUMBER	HOSE I.D.	A
STANDARD		
202GHS-88	1/2	3.00
202GHS-1010	5/8	3.00
202GHS-1212	3/4	3.00
LONG		
202GHS-8X	1/2	3.48
202GHS-10X	5/8	3.48
202GHS-12X	3/4	3.48

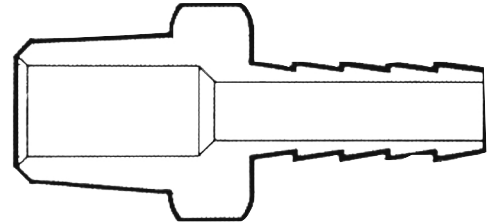
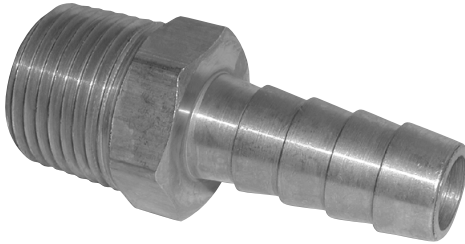

209GHS HOSE BARB TO FEMALE GARDEN HOSE, SWIVEL

GARDEN HOSE ASSEMBLIES AVAILABLE WITH HEX NUTS
EXTRA LONG LENGTHS AVAILABLE BY SPECIAL ORDER

PART NUMBER	GARDEN HOSE THREAD	HOSE I.D.	A
STANDARD			
209GHS-8E	3/4	1/2	1.52
209GHS-10E	3/4	5/8	1.52
209GHS-12E	3/4	3/4	1.52
LONG			
209GHS-8EX	3/4	1/2	1.87
209GHS-10EX	3/4	5/8	1.87
209GHS-12EX	3/4	3/4	1.87



GHW (WASHER) 3/4

**CONSTRUCTION**

- Straights and shapes are manufactured from CA360, CA345 or CA377 brass

ADVANTAGES

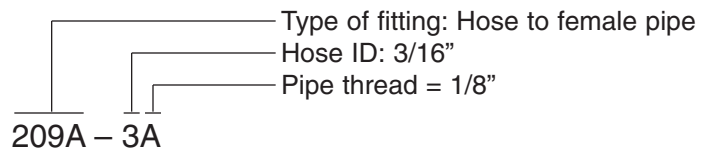
- Low cost
- Push-on design

APPLICATIONS

- Use with thermoplastic or rubber hose and tubing
- Intended for use with a hose clamp or crimped type ferrule
- Pressure will meet that of the plastic tubing or 150 psi.
- Excellent vibration characteristics

ORDERING INFORMATION

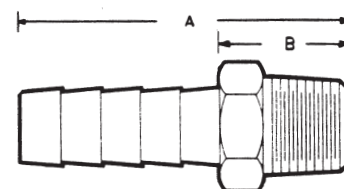
- Fittings are supplied as indicated in the catalog
- Nomenclature example:

**NOTES**

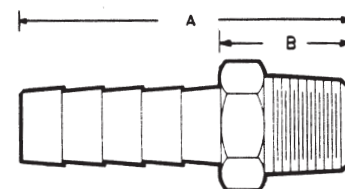
- Current price list represents in stock cataloged items.
- Non-stock items and special parts are available on a quotation basis.
- Configurations and dimensions are subject to change without notice.

201A HOSE BARB TO MPT (STANDARD)

PART NUMBER	HOSE I.D.	PIPE THREAD	A	B	HEX
201A-2A	1/8	1/8	1.06	.56	7/16
201A-3A	3/16	1/8	1.26	.57	7/16
201A-3B	3/16	1/4	1.37	.64	9/16
201A-4A	1/4	1/8	1.32	.57	7/16
201A-4B	1/4	1/4	1.63	.66	9/16
201A-4C	1/4	3/8	1.72	.75	11/16
201A-4D	1/4	1/2	1.78	.81	7/8
201A-5A	5/16	1/8	1.55	.57	7/16
201A-5B	5/16	1/4	1.63	.65	9/16
201A-5C	5/16	3/8	1.72	.75	11/16
201A-6A	3/8	1/8	1.55	.57	7/16
201A-6B	3/8	1/4	1.63	.65	9/16
201A-6C	3/8	3/8	1.72	.75	11/16
201A-6D	3/8	1/2	1.78	.81	7/8
201A-6E	3/8	3/4	1.91	.97	1-1/16
201A-8B	1/2	1/4	1.64	.66	9/16
201A-8C	1/2	3/8	1.72	.75	11/16
201A-8D	1/2	1/2	1.79	.81	7/8
201A-8E	1/2	3/4	1.92	.94	1-1/16
201A-10C	5/8	3/8	1.72	.75	11/16
201A-10D	5/8	1/2	1.78	.81	7/8
201A-10E	5/8	3/4	1.92	.94	1-1/16
201A-12D	3/4	1/2	1.78	.81	7/8
201A-12E	3/4	3/4	1.92	.94	1-1/16
201A-16E	1	3/4	2.15	1.00	1-1/16
201A-16F	1	1	2.48	1.32	1-3/8

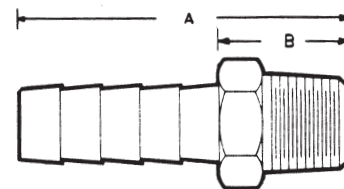

201AH HOSE BARB TO MPT (LONG)

PART NUMBER	HOSE I.D.	PIPE THREAD	A	B	HEX
201AH-2B	1/8	1/4	1.28	.78	9/16
201AH-3B	3/16	1/4	1.47	.78	9/16
201AH-4A	1/4	1/8	1.55	.57	7/16
201AH-4B	1/4	1/4	1.76	.78	9/16
201AH-4C	1/4	3/8	1.76	.78	11/16
201AH-5A	5/16	1/8	1.55	.57	7/16
201AH-5B	5/16	1/4	1.76	.78	9/16
201AH-5C	5/16	3/8	1.76	.78	11/16
201AH-6A	3/8	1/8	1.57	.59	1/2
201AH-6B	3/8	1/4	1.76	.78	9/16
201AH-6C	3/8	3/8	1.76	.78	11/16
201AH-6D	3/8	1/2	1.98	1.00	7/8
201AH-8B	1/2	1/4	1.76	.78	9/16

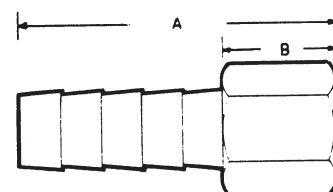


201AH HOSE BARB TO MPT (LONG) CONTINUED

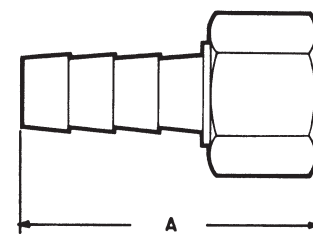
PART NUMBER	HOSE I.D.	PIPE THREAD	A	B	HEX
201AH-8C	1/2	3/8	1.76	.78	11/16
201AH-8D	1/2	1/2	1.98	1.00	7/8
201AH-8E	1/2	3/4	1.98	1.00	1-1/16
201AH-10C	5/8	3/8	1.76	.78	11/16
201AH-10D	5/8	1/2	1.97	.98	7/8
201AH-10E	5/8	3/4	1.98	.97	1-1/16
201AH-12D	3/4	1/2	2.19	1.00	7/8
201AH-12E	3/4	3/4	2.20	1.00	1-1/16
201AH-16E	1	3/4	2.16	1.00	1-1/16


209A HOSE BARB TO FPT

PART NUMBER	HOSE I.D.	PIPE THREAD	A	B	HEX
209A-2A	1/8	1/8	1.00	.50	1/2
209A-3A	3/16	1/8	1.29	.50	1/2
209A-3B	3/16	1/4	1.35	.56	5/8
209A-4A	1/4	1/8	1.25	.50	1/2
209A-4B	1/4	1/4	1.31	.56	5/8
209A-4C	1/4	3/8	1.38	.63	3/4
209A-5A	5/16	1/8	1.54	.56	1/2
209A-5B	5/16	1/4	1.53	.56	5/8
209A-5C	5/16	3/8	1.60	.62	3/4
209A-6A	3/8	1/8	1.53	.56	1/2
209A-6B	3/8	1/4	1.53	.56	5/8
209A-6C	3/8	3/8	1.60	.63	3/4
209A-6D	3/8	1/2	1.66	.69	7/8
209A-8B	1/2	1/4	1.53	.56	5/8
209A-8C	1/2	3/8	1.59	.62	3/4
209A-8D	1/2	1/2	1.66	.69	7/8

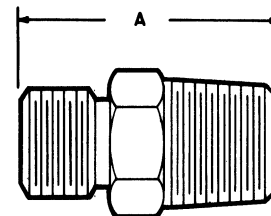

209AS HOSE BARB TO SWIVEL BALL END (FEMALE STRAIGHT MECHANICAL)

PART NUMBER	HOSE I.D.	PIPE THREAD	A	HEX
209AS-2A	1/8	1/8	1.50	5/8
209AS-3A	3/16	1/8	1.50	5/8
209AS-3B	3/16	1/4	1.40	5/8
209AS-4A	1/4	1/8	1.50	1/2
209AS-4B	1/4	1/4	1.28	5/8
209AS-4C	1/4	3/8	1.50	3/4
209AS-5B	5/16	1/4	1.50	5/8
209AS-6B	3/8	1/4	1.53	5/8
209AS-6C	3/8	3/8	1.50	3/4
209AS-8C	1/2	3/8	1.56	3/4
209AS-8D	1/2	1/2	1.50	29/32
209AS-12E	3/4	3/4	2.00	1-3/8

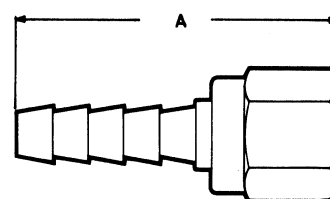


122AS SWIVEL BALL ADAPTER

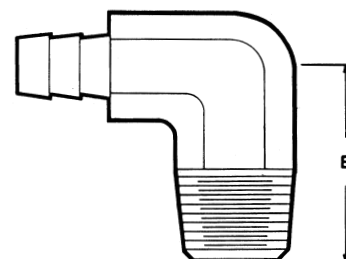
PART NUMBER	MALE N.P.S.M.	PIPE THREAD	A	HEX
122AS-4A	1/4	1/8	.91	9/16
122AS-4B	1/4	1/4	1.02	9/16
122AS-6B	3/8	1/4	1.02	11/16
122AS-6C	3/8	3/8	1.09	11/16
122AS-8C	1/2	3/8	1.19	27/32
122AS-8D	1/2	1/2	1.39	27/32


209ASF HOSE BARB TO FEMALE FLARE SWIVEL

PART NUMBER	HOSE I.D.	FEMALE FLARE	A	B	HEX
209ASF-34	3/16	1/4	1.48	.75	7/16
209ASF-44	1/4	1/4	1.57	.56	9/16
209ASF-45	1/4	5/16	1.57	.56	9/16
209ASF-46	1/4	3/8	1.62	.59	3/4
209ASF-55	5/16	5/16	1.59	.62	5/8
209ASF-66	3/8	3/8	1.75	.97	3/4
209ASF-68	3/8	1/2	1.69	.72	15/16
209ASF-88	1/2	1/2	1.69	.72	15/16


HE1 ELBOW, 90° HOSE TO MPT

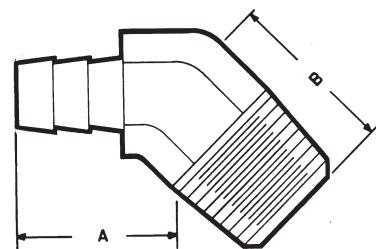
PART NUMBER	HOSE I.D.	PIPE THREAD	A	B
HE1-4A*	1/4	1/8	1.00	.81
HE1-4B*	1/4	1/4	1.00	.88
HE1-4C*	1/4	3/8	1.08	.97
HE1-5A*	5/16	1/8	1.01	.81
HE1-5B*	5/16	1/4	1.01	.88
HE1-5C*	5/16	3/8	1.09	.92
HE1-6A*	3/8	1/8	1.01	.81
HE1-6B*	3/8	1/4	1.04	.86
HE1-6C*	3/8	3/8	1.08	.94
HE1-6D*	3/8	1/2	1.12	1.10
HE1-8B*	1/2	1/4	1.08	1.08
HE1-8C*	1/2	3/8	1.08	1.08
HE1-8D*	1/2	1/2	1.16	1.16
HE1-10C*	5/8	3/8	1.13	1.15
HE1-10D*	5/8	1/2	1.21	1.22



ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

HE1-45 ELBOW, 45° HOSE TO MPT

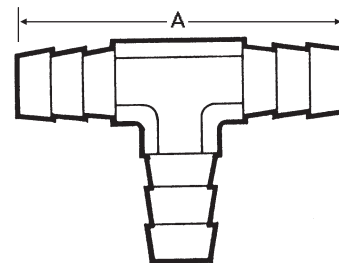
PART NUMBER	HOSE I.D.	PIPE THREAD	A	B
HE1-45-4A*	1/4	1/8	.96	.64
HE1-45-5A*	5/16	1/8	.98	.64
HE1-45-5B*	5/16	1/4	.91	.84
HE1-45-6A*	3/8	1/8	.89	.64
HE1-45-6B*	3/8	1/4	.89	.86
HE1-45-6C*	3/8	3/8	.94	.90
HE1-45-8B*	1/2	1/4	.96	.84
HE1-45-8C*	1/2	3/8	.96	.86
HE1-45-10C*	5/8	3/8	.98	.87



ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

HBT2 HOSE BARB TEE

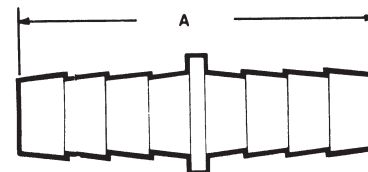
PART NUMBER	HOSE I.D.	A
HBT2-4*	1/4	2.00
HBT2-5*	5/16	2.00
HBT2-6*	3/8	2.00



ITEMS FOLLOWED BY AN ASTERISK (*) WILL BE SUPPLIED AS A FORGING

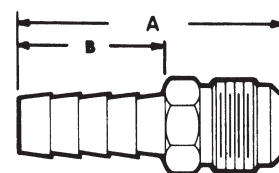
HM HOSE MENDER HOSE TO HOSE

PART NUMBER	HOSE I.D.	A	HEX
HM-2	1/8	1.09	3/8
HM-3	3/16	1.65	3/8
HM-4	1/4	2.03	3/8
HM-5	5/16	2.13	1/2
HM-6	3/8	2.13	9/16
HM-8	1/2	2.13	11/16
HM-10	5/8	2.03	3/4
HM-12	3/4	2.03	7/8



201BF HOSE TO MALE FLARE

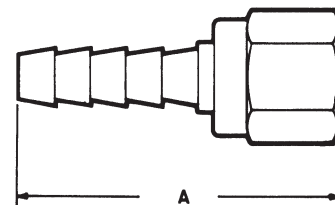
PART NUMBER	HOSE I.D.	MALE FLARE	A	B	HEX
201BF-33	3/16	3/16	1.50	.75	7/16
201BF-44	1/4	1/4	1.75	.75	1/2
201BF-45	1/4	5/16	1.75	.75	1/2
201BF-46	1/4	3/8	1.84	.87	5/8
201BF-55	5/16	5/16	1.84	.87	5/8
201BF-66	3/8	3/8	1.84	.87	5/8
201BF-68	3/8	1/2	1.97	.97	3/4
201BF-88	1/2	1/2	1.95	.92	7/8



209RWA WELDING ADAPTER HOSE TO 9/16-18 RH

PART NUMBER	HOSE I.D.	THREAD	A	HEX
209RWA-3	3/16	9/16-18 RH	1.39	11/16
209RWA-4	1/4	9/16-18 RH	1.58	11/16
209RWA-5	5/16	9/16-18 RH	1.58	11/16
209RWA-6	3/8	9/16-18 RH	1.58	11/16

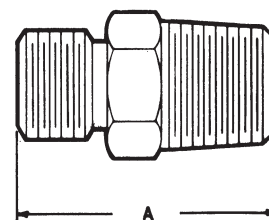
FOR OXYGEN LINES



122RWA WELDING ADAPTER RIGHT HAND THREAD

PART NUMBER	PIPE	THREAD	A	HEX
122RWA-B	1/4	9/16-18 RH	1.22	5/8
122RWA-C	3/8	9/16-18 RH	1.34	11/16

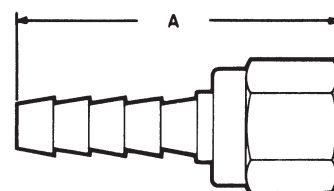
FOR OXYGEN LINES



209LWA WELDING ADAPTER HOSE TO 9/16-18 LH

PART NUMBER	HOSE I.D.	THREAD	A	HEX
209LWA-3	3/16	9/16-18 LH	1.39	11/16
209LWA-4	1/4	9/16-18 LH	1.58	11/16
209LWA-5	5/16	9/16-18 LH	1.58	11/16
209LWA-6	3/8	9/16-18 LH	1.58	11/16

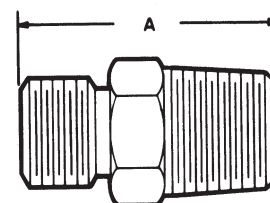
FOR ACETYLENE LINES



122LWA WELDING ADAPTER LEFT HAND THREAD

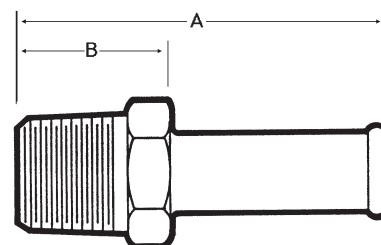
PART NUMBER	PIPE	THREAD	A	HEX
122LWA-B	1/4	9/16-18 LH	1.22	5/8
122LWA-C	3/8	9/16-18 LH	1.34	11/16

FOR ACETYLENE LINES



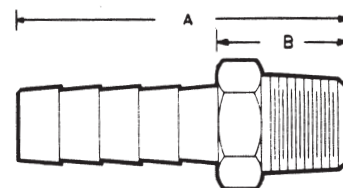
201AB BEADED HOSE BARB TO MPT

PART NUMBER	HOSE I.D.	PIPE THREAD	A	B	HEX
201AB-4A	1/4	1/8	1.07	.57	7/16
201AB-4B	1/4	1/4	1.28	.78	9/16
201AB-5B	5/16	1/4	1.47	.78	9/16
201AB-6B	3/8	1/4	1.59	.78	9/16
201AB-6C	3/8	3/8	1.59	.78	11/16
201AB-8B	1/2	1/4	1.50	.72	5/8
201AB-10D	5/8	1/2	1.88	1.00	7/8

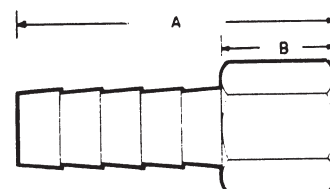


201NY NYLON HOSE BARB TO MPT

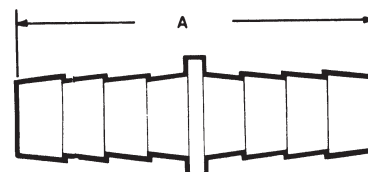
PART NUMBER	HOSE I.D.	PIPE THREAD
201NY-4B	1/4	1/4
201NY-6B	3/8	1/4


209NY NYLON HOSE BARB TO FPT

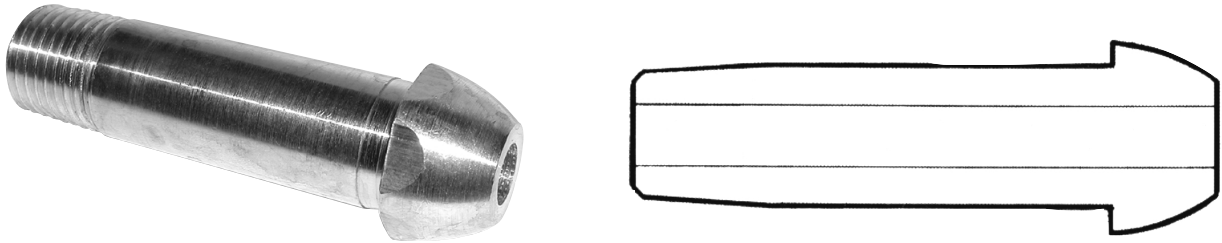
PART NUMBER	HOSE I.D.	PIPE THREAD
209NY-4B	1/4	1/4
209NY-6B	3/8	1/4


HM NYLON HOSE MENDER

PART NUMBER	HOSE I.D.
HMNY-4	1/4
HMNY-6	3/8
HMNY-64	3/8X1/4



NOTES



CONSTRUCTION

- Manufactured from CA360, CA345 brass

APPLICATIONS

- Use for making connections in LP gas systems

ORDERING INFORMATION

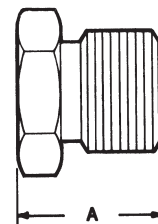
- Order by part number as shown in the catalog

NOTES

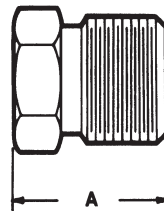
- Current price list represents in stock cataloged items.
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POL-LN NUT, 1-1/8" HEX

PART NUMBER	EXTERNAL THREAD	A	HEX
POL-LN	.880-14 LH	1.12	1-1/8

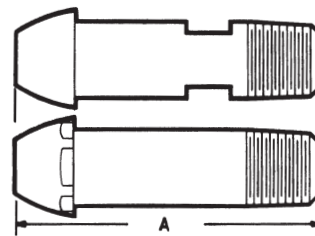

POL-N NUT, 7/8" HEX

PART NUMBER	EXTERNAL THREAD	A	HEX
POL-N	.880-14 LH	1.00	7/8

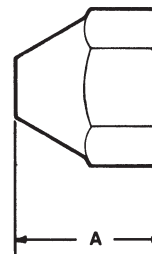

POL-LTP & POL-LTPH ADAPTER, 2-9/16"

PART NUMBER	PIPE THREAD	A
POL-LTP*	1/4	2.34
POL-LTPH	1/4	2.34

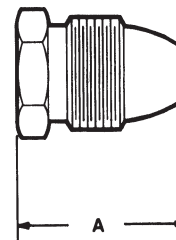
*WITH WRENCH FLATS


POL-N5 CAP

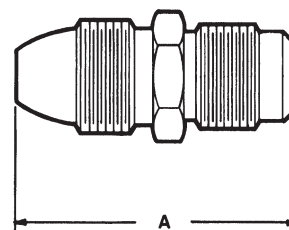
PART NUMBER	INTERNAL THREAD	A	HEX
POL-N5	.880-14 LH	1.12	5/8


POL-P2 PLUG

PART NUMBER	EXTERNAL THREAD	A	HEX
POL-P2	.880-14 LH	1.34	7/8

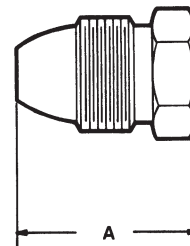

POL-U2 POL TO SAE FLARE

PART NUMBER	O.D. FLARE	EXTERNAL THREAD	A	HEX
POL-U2-6	3/8	.880-14 LH	1.97	7/8
POL-U2-8	1/2	.880-14 LH	2.09	7/8
POL-U2-10	5/8	.880-14 LH	2.22	7/8

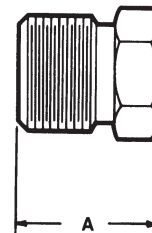


POL-U3 POL TO FPT

PART NUMBER	EXTERNAL THREAD	PIPE THREAD	A	HEX
POL-U3B	.880-14 LH	1/4 FPT	1.34	7/8

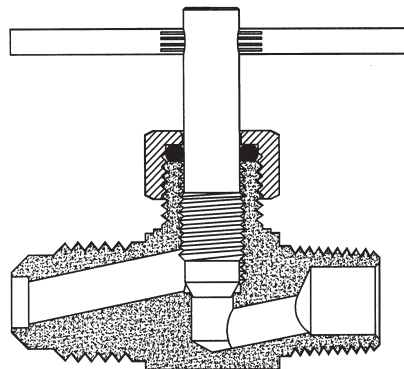
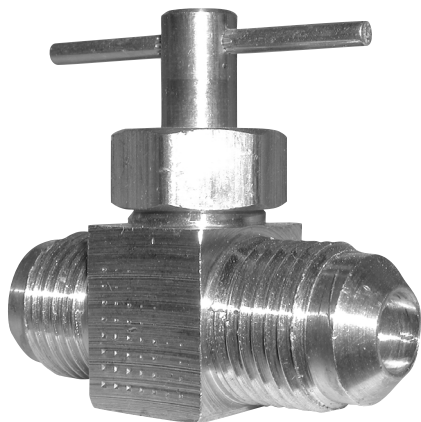

POL-SN SMALL NUT FOR 1/4" TUBING

PART NUMBER	EXTERNAL THREAD	A	HEX
POL-SN	.880-14 LH	1.00	7/8


POL-STP TAIL PIECE FOR 1/4" TUBING

PART NUMBER	A
POL-STP	.68





CONSTRUCTION

- Brass construction. Most valves are made from extruded bodies.
- Metal to metal seats

ADVANTAGES

- Use with copper, aluminum, steel and plastic tubing as applicable
- Excellent for general service with metering capabilities
- Pressure range up to 150 psi

ORDERING INFORMATION

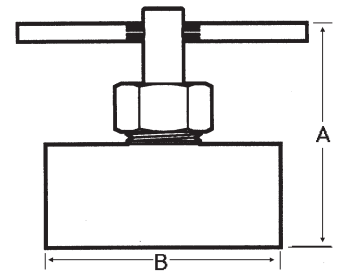
- Order using indicated part number
- Part number indicates style and size
- Compression valves are complete with nuts and sleeves

NOTES

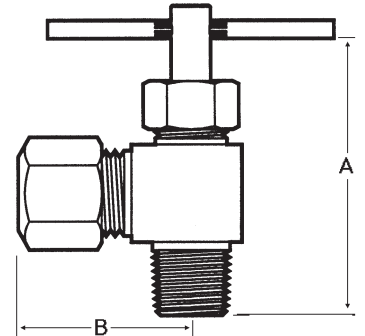
- Current price list represents in stock cataloged items.
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NEEDLE VALVE FPT TO FPT

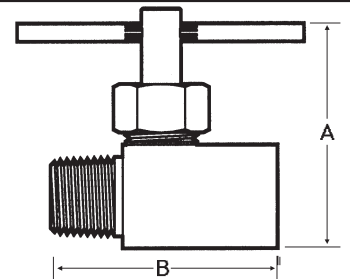
PART NUMBER	PIPE THREAD	A	B
31NV	1/8X1/8	1.60	1.25
32NV	1/4X1/4	1.80	1.82


NEEDLE VALVE COMPRESSION TO MPT

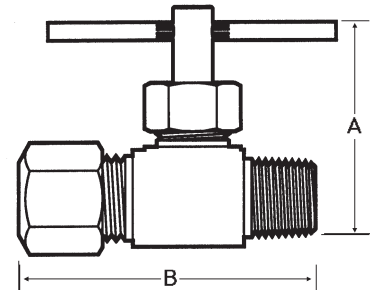
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
103CC	1/4	1/8	1.80	.80
103-4CC	1/4	1/4	2.10	.90
203CC	5/16	1/8	1.80	.90
303ACC	3/8	1/8	2.20	1.00
303CC	3/8	1/4	2.20	1.00


NEEDLE VALVE FPT TO MPT

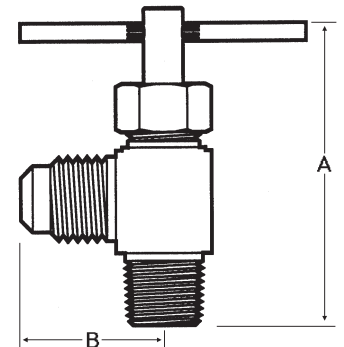
PART NUMBER	PIPE THREAD	A	B
48NV	1/8X1/8	1.30	1.25
49NV	1/4X1/4	1.86	1.87


NEEDLE VALVE COMPRESSION TO MPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
101CP	1/4	1/8	1.50	1.50
101CP-4	1/4	1/4	1.40	1.60
102CP	5/16	1/8	1.50	1.50
143CP	3/8	1/4	1.80	1.80

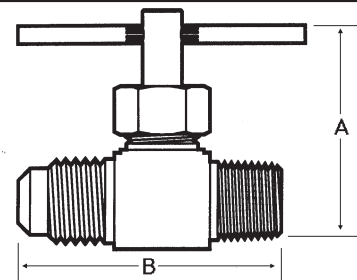

NEEDLE VALVE FLARE TO MPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
103SAE	1/4	1/8	1.80	.73
203SAE	5/16	1/8	1.32	.78
204SAE	5/16	1/4	1.54	.84
303SAE	3/8	1/4	1.54	.91

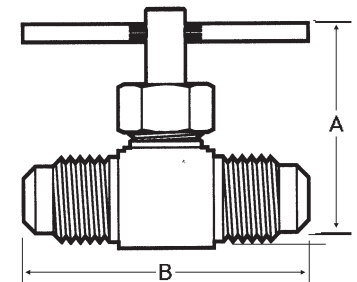


NEEDLE VALVE FLARE TO MPT

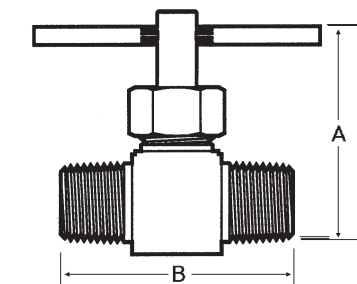
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
104SAE	1/4	1/8	1.30	1.30
105SAE	1/4	1/4	1.62	1.30
106SAE	5/16	1/8	1.36	1.45
108SAE	3/8	1/4	1.70	1.70


NEEDLE VALVE FLARE TO FLARE

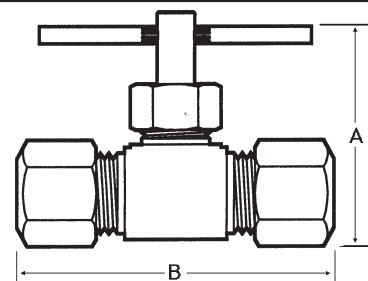
PART NUMBER	O.D. TUBE	A	B
110SAE	1/4X1/4	1.30	1.50
115SAE	3/8X3/8	1.70	1.88

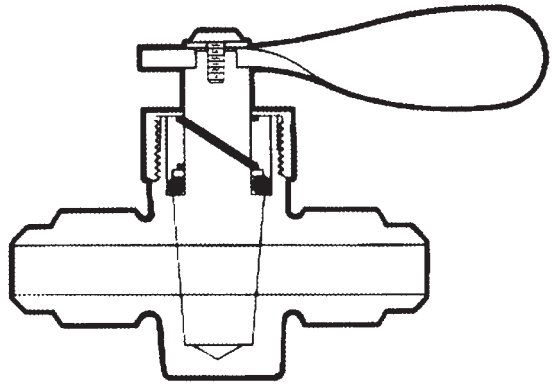

NEEDLE VALVE MPT TO MPT

PART NUMBER	PIPE THREAD	A	B
108MP	1/8X1/8	1.60	1.25
110MP	1/4X1/4	1.92	1.65


NEEDLE VALVE COMPRESSION TO COMPRESSION

PART NUMBER	O.D. TUBE	A	B
106CC	1/4X1/4	1.30	1.80
107CC	5/16X5/16	1.20	1.70
113CC	3/8X3/8	1.90	1.80



**CONSTRUCTION**

- Forged bodies, solid bottom, spring loaded top
- Neoprene "O" ring seal, steel cad plated handles
- Individually ground plugs
- Valves are packed with a non-drying, synthetic grease

APPLICATIONS

- Use with copper, aluminum, steel and plastic tubing where applicable.
- Used for low pressure applications where a quick on and off operation is desired with a generous flow
- 30 psi
- Solid bottom and O ring seal prevents leakage to and from the atmosphere
- Use on fuel oil, water, gas, air, and LP gas

ORDERING INFORMATION

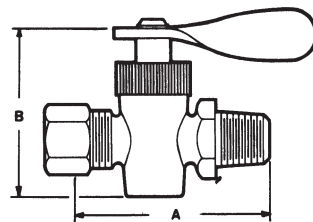
- Order using indicated part number
- Part number indicates style and size
- Compression valves are complete with nuts and sleeves

NOTES

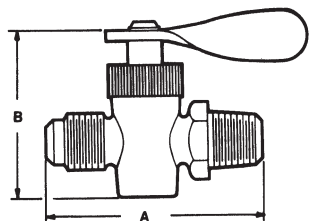
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SPECIAL DUTY VALVE COMPRESSION TO MPT

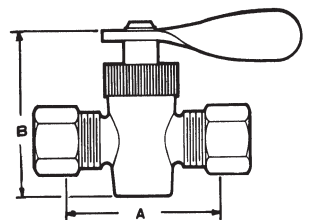
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
227CSD	1/4	1/4	2.09	1.71
57CSD	3/8	1/4	2.31	1.71
557CSD	3/8	3/8	2.36	1.71


SPECIAL DUTY VALVE FLARE TO MPT

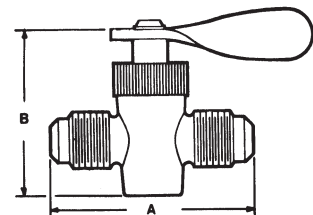
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
227SD	1/4	1/4	2.11	1.72
57SD	3/8	1/4	2.21	1.72
557SD	3/8	3/8	2.26	1.71
67SD	1/2	3/8	2.39	1.71


SPECIAL DUTY VALVE COMPRESSION TO COMPRESSION

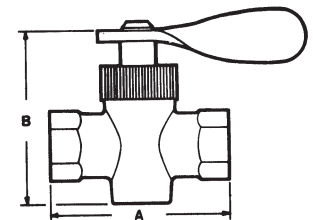
PART NUMBER	O.D. TUBE	A	B
58CSD	3/8X3/8	1.65	1.71
68CSD	1/2X1/2	2.54	1.71


SPECIAL DUTY VALVE FLARE TO FLARE

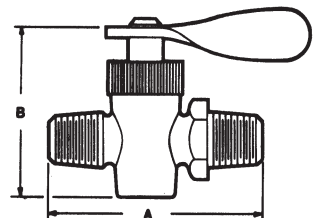
PART NUMBER	O.D. TUBE	A	B
28SD	1/4X1/4	1.86	1.71
58SD	3/8X3/8	2.12	1.71
68SD	1/2X1/2	2.23	1.71


SPECIAL DUTY VALVE FPT TO FPT

PART NUMBER	PIPE THREAD	A	B
32SD	1/4X1/4	2.09	1.71
40SD	3/8X3/8	2.56	1.71

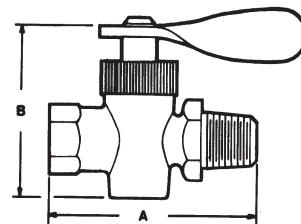

SPECIAL DUTY VALVE MPT TO MPT

PART NUMBER	PIPE THREAD	A	B
77SD	1/4X1/4	2.10	1.71

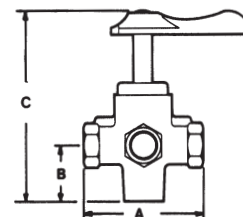


SPECIAL DUTY VALVE FPT TO MPT

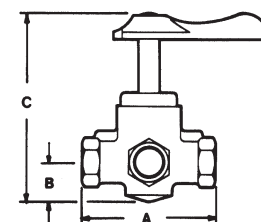
PART NUMBER	PIPE THREAD	A	B
103SD-2	1/8X1/8	2.00	1.71
103SD-4	1/4X1/4	2.21	1.71
103SD-6	3/8X3/8	2.52	1.71

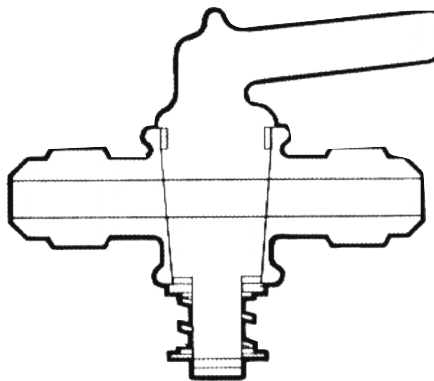

FOUR WAY VALVE FPT ALL ENDS

PART NUMBER	STEM LENGTH	PIPE THREAD	A	B	C
114SD	1-3/8"	1/4	2.08	.94	3.30
115SD	3-3/4"	1/4	2.08	.94	5.72


THREE WAY VALVE FPT ALL ENDS

PART NUMBER	PIPE THREAD	A	B	C
108SD-2	1/8	2.13	.75	3.00
108SD-4	1/4	2.13	.75	3.00
108SD-6	3/8	2.13	.75	3.00



**CONSTRUCTION**

- Ground plug valves are manufactured with forged or cast brass bodies
- Handles are an integral part of the plug

ADVANTAGES

- Use with copper, aluminum, steel and plastic tubing where applicable
- Used for low pressure applications where a quick on and off operation is desired
- Designed to withstand 30 psi working pressure

ORDERING INFORMATION

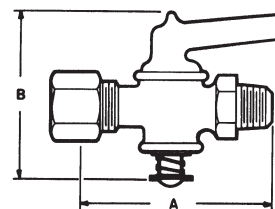
- Order using indicated part number
- Part number indicates style and size
- Compression valves are complete with nut and sleeve

NOTES

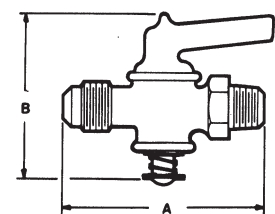
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- Configurations and dimensions are subject to change without notice.

VALVE COMPRESSION TO MALE PIPE

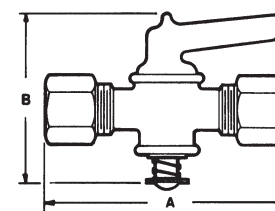
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
27CC	1/4	1/8	1.80	1.84
227CC	1/4	1/4	1.87	1.84
57CC	3/8	1/4	1.88	1.63
557CC	3/8	3/8	2.02	2.14


VALVE FLARE TO MPT

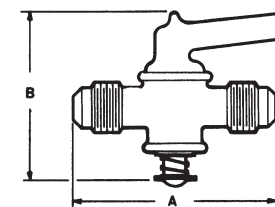
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
27SAE	1/4	1/8	2.04	1.68
227SAE	1/4	1/4	1.95	1.84
57SAE	3/8	1/4	2.11	1.60
557SAE	3/8	3/8	2.21	2.10
67SAE	1/2	3/8	2.35	2.10


VALVE COMPRESSION TO COMPRESSION

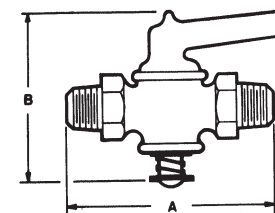
PART NUMBER	O.D. TUBE	A	B
28CC	1/4	2.11	1.67
30CC	5/16	2.12	1.79
58CC	3/8	2.23	1.65
68CC	1/2	2.78	2.10


VALVE FLARE TO FLARE

PART NUMBER	O.D. TUBE	A	B
28SAE	1/4	1.90	1.86
30SAE	5/16	1.94	1.79
58SAE	3/8	2.13	2.31
68SAE	1/2	2.44	2.33

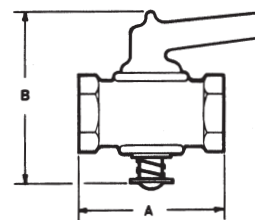

VALVE MPT TO MPT

PART NUMBER	PIPE THREAD	A	B
76PC	1/8X1/8	1.75	1.50
77PC	1/4X1/4	1.94	1.62
78PC	3/8X3/8	2.54	1.80

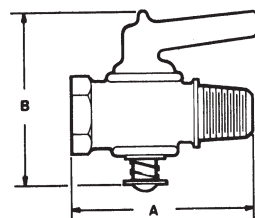


VALVE FPT TO FPT

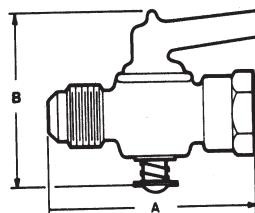
PART NUMBER	PIPE THREAD	A	B
31PC	1/8X1/8	1.46	1.68
32PC	1/4X1/4	1.71	1.62
40PC	3/8X3/8	1.63	1.88
80PC	1/2X1/2	2.04	2.75
120PC	3/4X3/4	2.39	3.22


VALVE FPT TO MPT

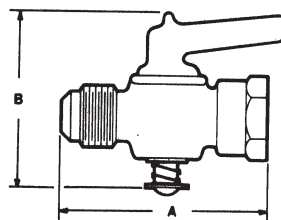
PART NUMBER	PIPE THREAD	A	B
48PC	1/8X1/8	1.72	1.62
49PC	1/4X1/4	1.84	1.62
50PC	3/8X3/8	1.32	2.30


VALVE FLARE TO FPT

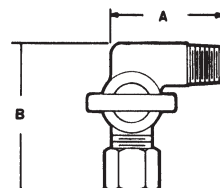
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
161SAE	3/8	1/2	2.28	2.33
163SAE	3/8	3/8	2.21	2.21
164SAE	1/2	1/2	2.36	2.30
166SAE	1/2	3/4	2.42	2.06
167SAE	5/8	3/4	2.50	2.10


VALVE SPACE HEATER, 9/16-24 THREAD TO FPT

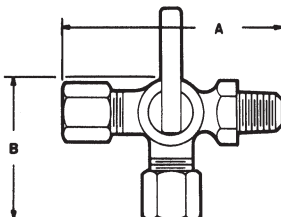
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
161CT	3/8	1/2	2.21	1.51

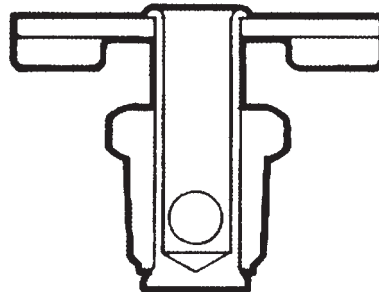

PILOT VALVE 90° COMPRESSION TO MPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
89CCB	1/4	1/8	1.14	1.54


THREE WAY VALVE COMPRESSION TO MPT TO COMPRESSION

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
60CC	1/4X1/4	1/8	2.28	1.53





CONSTRUCTION

- Brass bodies and cad plated steel handles as applicable
- Metal to metal seat
- internal and external seats as indicated

APPLICATIONS

- Use with copper, aluminum, steel, hose or plastic tubing where applicable.
- Used for low pressures
- Excellent where a quick on and off feature is desired
- Accurate machining and adequate wall thicknesses make these drain cocks highly dependable

ORDERING INFORMATION

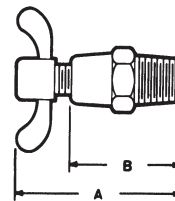
- Order using indicated part number
- Part number indicates style and size
- Compression valves are complete with nut and sleeve

NOTES

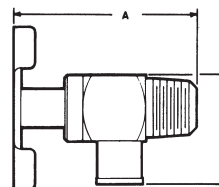
- Current price list represents in stock cataloged items
- Non-stock items and special parts are available on a quotation basis
- Configurations and dimensions are subject to change without notice

NEEDLE DRAIN COCK TO MPT

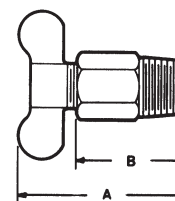
PART NUMBER	PIPE THREAD	A	B
200D	1/8	1.31	.96
201D	1/4	1.66	1.24
202D	3/8	1.30	1.12


NEEDLE DRAIN COCK WITH HOSE BIBB

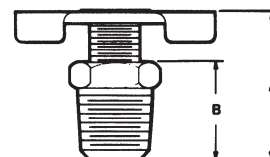
PART NUMBER	HOSE	PIPE THREAD	A	B
201DH	3/8	1/4	1.28	.94


NEEDLE DRAIN COCK INTERNAL SEAT

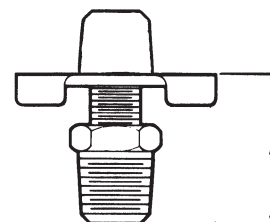
PART NUMBER	PIPE THREAD	A	B
300D	1/8	1.25	.73
301D	1/4	1.25	.73


NEEDLE DRAIN COCK EXTERNAL SEAT

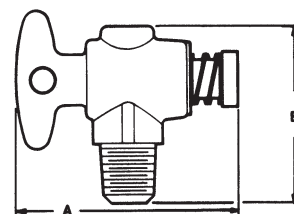
PART NUMBER	PIPE THREAD	A	B
320D	1/8	.88	.54
321D	1/4	1.06	.68
322D	3/8	1.25	.79


NEEDLE DRAIN COCK WITH EXTENSION EXTERNAL SEAT

PART NUMBER	PIPE THREAD	A
421D	1/4	1.50

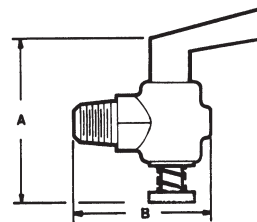

T HANDLE DRAIN VALVE

PART NUMBER	PIPE THREAD	A	B
37D	1/8	1.79	1.40
38D	1/4	1.92	1.54

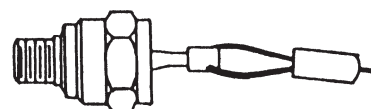


DRAIN VALVE, LEVER HANDLE

PART NUMBER	PIPE THREAD	A	B
41D	1/8	1.79	1.43
42D	1/4	1.84	1.50
43D	3/8	2.18	1.75
44D	1/2	2.12	1.99

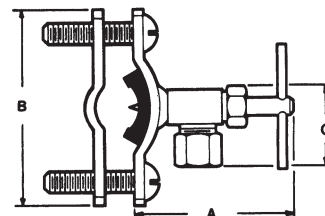

DRAIN VALVE WITH FIXED CABLE

PART NUMBER	O.D. TUBE	PIPE THREAD
327-4	1/4	48" CABLE
327-5	1/4	60" CABLE


SELF TAPPING VALVE WITH SADDLE

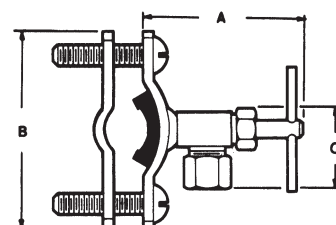
CLAMP FOR USE WITH 3/8 O.D. THROUGH 1.315 O.D. TUBE OR PIPE

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
104HV-ST	1/4	1/8	1.80	2.35	.95

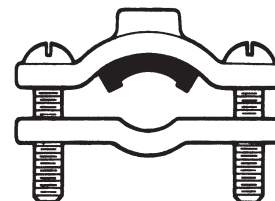

SADDLE VALVE WITH BRASS OR STEEL SADDLE

CLAMP FOR USE WITH 3/8 O.D. THROUGH 1.315 O.D. TUBE OR PIPE

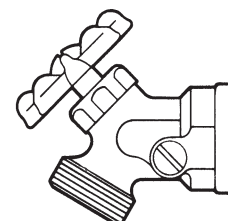
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
104HV-B	1/4	1/8	1.94	1.69	1.05
104HV-S	1/4	1/8	2.03	2.38	1.03
204HV-B	5/16	1/8	2.03	1.69	1.04


BRASS SADDLE ONLY TAPPED 1/8 FPT

PART NUMBER	PIPE THREAD	A	B
109SC-B	1/8	2.05	1.00


EVAPORATIVE COOLER VALVE TAPPED 1/8"

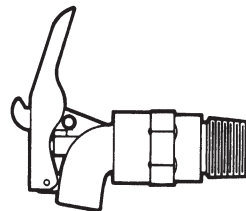
PART NUMBER	HOSE	PIPE THREAD
EV-12A	3/4	1/8



BARREL FAUCET SELF CLOSING

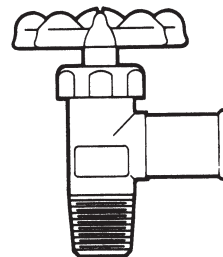
ZINC BODY, NYLON SEAT

PART NUMBER	PIPE THREAD
G261	3/4



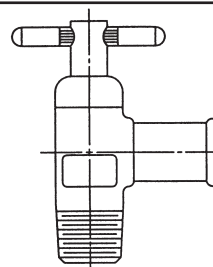
HOSE VALVE TO MPT

PART NUMBER	I.D. HOSE	PIPE THREAD
HV1-6C	3/8	3/8
HV1-8C	1/2	3/8
HV1-10C	5/8	3/8
HV1-10D	5/8	1/2
HV1-12C	3/4	3/8
HV1-12D	3/4	1/2



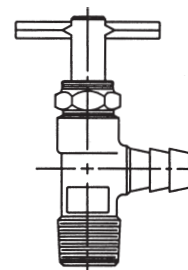
HOSE VALVE TO MPT WITH PIN HANDLE

PART NUMBER	I.D. HOSE	PIPE THREAD
HV1-PH-10C	5/8	3/8



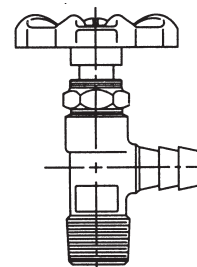
HOSE BARB VALVE TO MPT, PIN HANDLE

PART NUMBER	I.D. HOSE	PIPE THREAD
HBPHV-6C	3/8	3/8



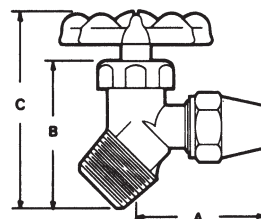
HOSE BARB VALVE TO MPT, ROUND HANDLE

PART NUMBER	I.D. HOSE	PIPE THREAD
HBV-6C	3/8	3/8

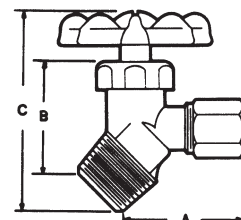


OIL TANK VALVE FLARE TO MPT

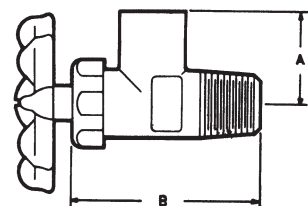
PART NUMBER	O.D. PIPE	PIPE THREAD	A	B	C
5818X8	3/8	1/2	1.12	1.94	2.63
5818X12	3/8	3/4	1.12	1.99	2.72
3416X12	1/2	3/4	1.25	2.56	3.31


OIL TANK VALVE COMPRESSION TO MPT

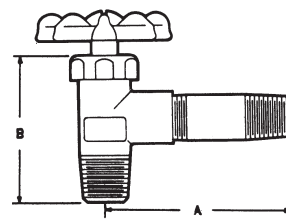
PART NUMBER	O.D. PIPE	PIPE THREAD	A	B	C
5818CCX8	3/8	1/2	.94	1.88	2.56
5818CCX12	3/8	3/4	.94	1.94	2.63


OIL TANK VALVE MPT TO FPT

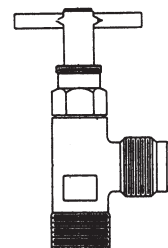
PART NUMBER	MALE PIPE	FEMALE PIPE	A	B
1W-66	3/8	3/8	2.75	1.17
1W-86	1/2	3/8	2.75	1.17
1W-88	1/2	1/2	2.75	1.17


OIL TANK VALVE MPT TO MPT WITH 3-1/2" EXTENSION

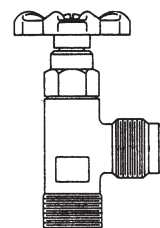
PART NUMBER	MALE PIPE	FEMALE PIPE	A	B
2W-68	1/2	3/8	2.75	1.17


TRUCK VALVE FLARE TO MPT, 90°

PART NUMBER	I.D. HOSE	PIPE THREAD
5818PHX6X90	3/8	3/8

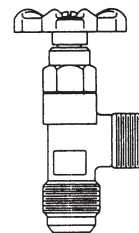

TRUCK VALVE FLARE TO MPT, 90°

PART NUMBER	I.D. HOSE	PIPE THREAD
7814X8X90	5/8	1/2

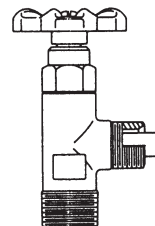


TRUCK VALVE MPT TO FLARE

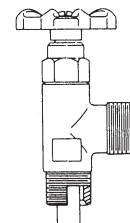
PART NUMBER	I.D. HOSE	PIPE THREAD
7814X8X90X1	5/8	1/2

**TRUCK VALVE TUBE WITH SUPPORT TO MPT**

PART NUMBER	TUBE	PIPE THREAD
408NAB-8D	1/2	1/2

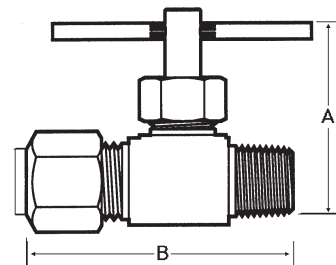
**TRUCK VALVE MPT TO TUBE WITH SUPPORT**

PART NUMBER	TUBE	PIPE THREAD
410NAB-8D	1/2	1/2

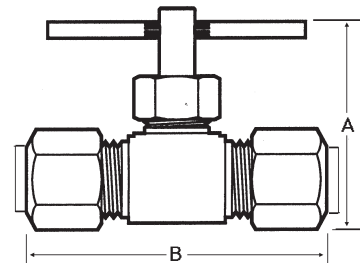


NEEDLE VALVE A-LIGN TO MPT

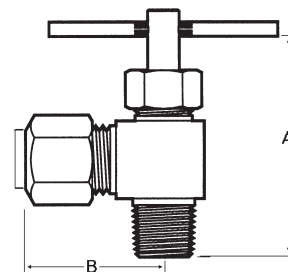
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
9101CP	1/4	1/8	1.50	1.50
9102CP	5/16	1/8	1.50	1.50
9143CP	3/8	1/4	1.80	1.80

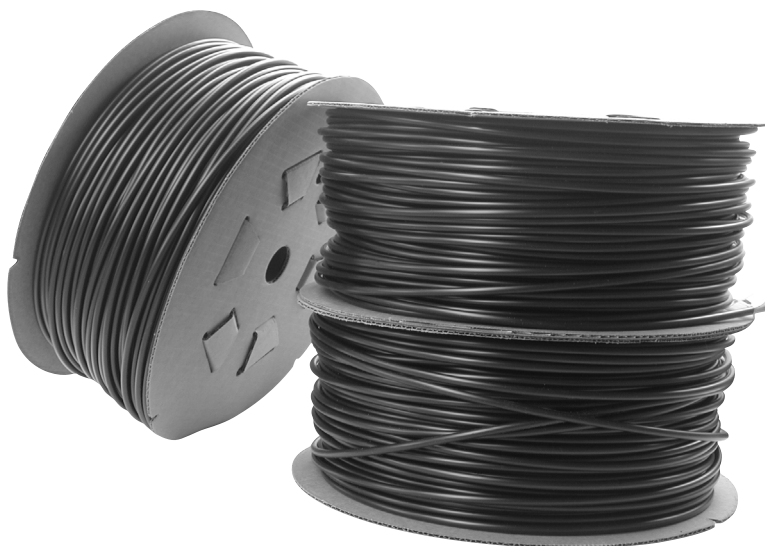

NEEDLE VALVE A-LIGN TO A-LIGN

PART NUMBER	O.D. TUBE	A	B
9106CC	1/4	1.30	1.80
9107CC	5/16	1.20	1.70
9113CC	3/8	1.90	1.80


NEEDLE VALVE A-LIGN TO MPT

PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
9103CC	1/4	1/8	1.80	.80
9203CC	5/16	1/8	1.80	.90
9303CC	3/8	1/4	2.20	1.00





CHARACTERISTICS – POLYETHYLENE TUBING

- Low density polyethylene tubing has a wide range of uses in industrial and agricultural applications in pneumatic lines, instrumentation systems and water lines.
- Good chemical resistance to alkali, dilute acids, solvents, ammonia gas, ammonium hydroxide and calcium salts.
- Virgin materials are used in manufacture, Approved by FDA.
- Natural color supplied as standard. Black is recommended to improve durability in sunlight (ultraviolet radiation). Other colors are available.

POLYETHYLENE TUBING

PART NUMBER	LENGTH	O.D.	WALL	I.D.	MN. BURST PRESSURE AT 70°	MIN. BEND RADIUS	WEIGHT POUNDS PER 100'
31440	500' Reel	1/4	.040	.170	300	1"	1.1
31562	500' Reel	5/16	.062	.188	375	1-1/8"	2.0
31662	500' Reel	3/8	.062	.250	200	1-1/4"	2.5
30862	100' Coil	1/2	.062	.375	225	2-1/2"	3.5

Colors: Above part numbers are supplied as natural (white). Additional colors are available by adding a suffix for the required color. Black (BK), Red (RD), Green (GN), Yellow (YW), Blue (BL).

Example: 31440RD is a 1/4 O.D. 500" Reel Red.



Racks hold up to 10 tubes in an orderly fashion. Frequently used on instrumentation panels where space is normally limited. Provides ease of maintenance and identification, constructed from polyethylene, rack can be easily cut to accommodate required number of tubes.

PART NUMBER		
AFTR 1404	For 1/4 O.D. Tubing	Lips fasten rack to base with screws also offers longitudinal grooves for channel mounts
AFTR 1606	For 3/8 O.D. Tubing	Lips fasten rack to base with screws also offers longitudinal grooves for channel mounts
AFTR 2404	For 1/4 O.D. Tubing	For less than 10 tubes, rack is cut two positions beyond last clip desired.
AFTR 2608	For 1/2 O.D. Tubing	Holds up to 6 tubes with lips and grooves



CONSTRUCTION

- Precision engineered tubing tools
- Individually packaged as indicated
- Designed for years of rugged service

APPLICATIONS

- For every cutting or flaring requirement

ORDERING INFORMATION

- Order using indicated part number

NOTES

- Current price list represents in stock catalogued items
- Configurations and dimensions are subject to change without notice

**AF20274
HEAVY DUTY TUBE CUTTER**

1/8 - 1-1/8 O.D. TUBE CUTTER (4 - 28 mm, 1/8 - 1 nom)

The Heavy Duty pattern cutter employs interchangeable cutter and constructor wheels making them the most versatile for copper, brass, aluminum, steel and stainless steel tube work. Other features include enclosed feed protecting the screw from dirt and damage/flare cut-off grooved rollers minimizing tube waste/spare wheel under the foldaway reamer/satin finished nickel-chrome plated rugged aluminum alloy body with a "balanced feel."



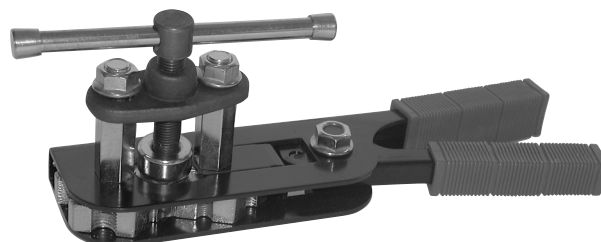
**AF20307
TUBE CUTTER**

A razor sharp blade easily cuts plastic tubing and other types of non-wire reinforced hose.



**AF21200
PLIER / CLAMPING TYPE
3/16, 1/4, 5/16, 3/8, 1/2, 5/8 O.D.
SINGLE FLARING TOOL (1/8, 1/4, 3/8, 1/2 nom)**

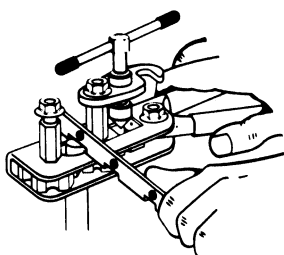
The Plier clamping type 45° flaring tool is a one piece unit featuring rotating hex hardened steel die blocks to securely clamp 6 o.d. tube size (3/16 - 5/8). A heavy duty tool for soft copper, aluminum, brass and steel tube which has gained popularity in the automotive and plumbing trades. Tool is finished in black with plastic handle grips.)



STPE 1



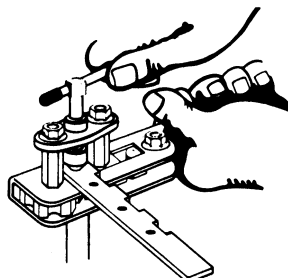
TUBE SET HEIGHT GAUGE



STEP 2



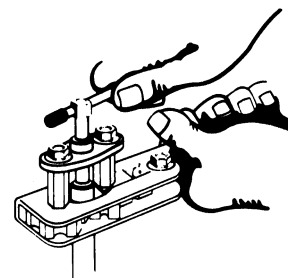
PREFORM DOUBLE FLARE



STEP 3



COMPLETE FLARE

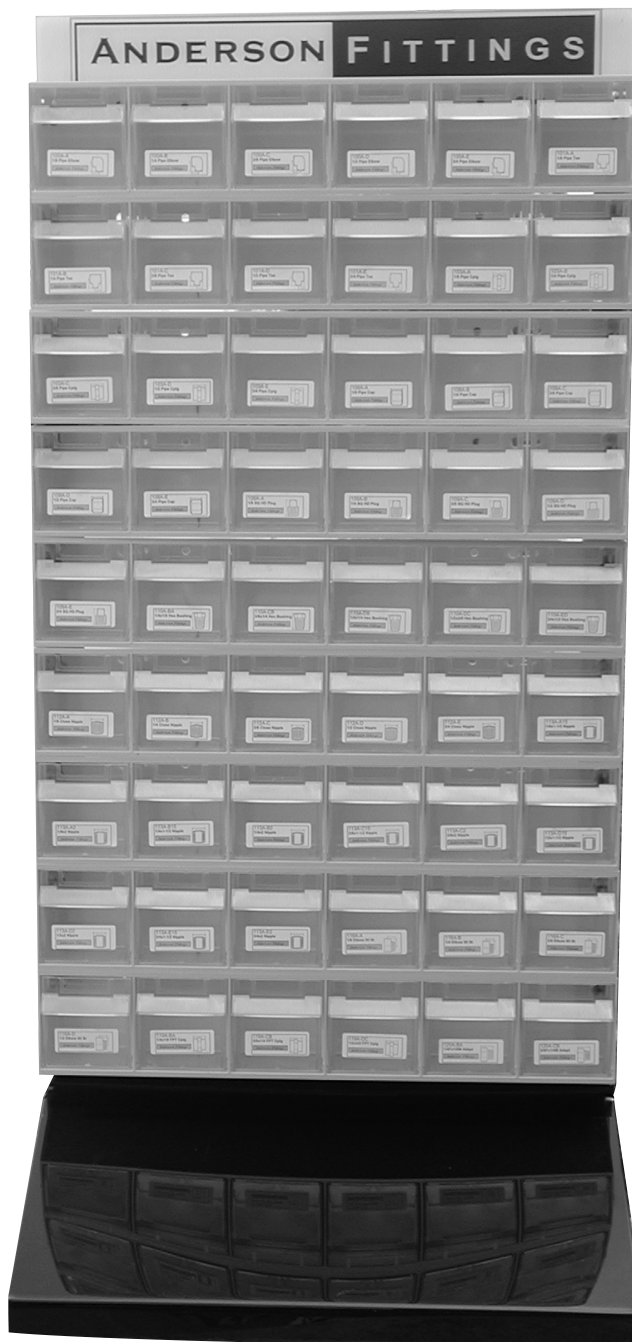


The **FC-1** Telescoping Fitting Cabinet contains 54 tilt bin drawers which attach to a sturdy steel framework and acrylic base.

Its rugged construction will withstand the punishment of a repair shop or production operation.

In a retail environment, its attractive style will help increase sales as a point-of-purchase display.

Cabinet dimensions are 24" wide x 16" deep x 54" high.



Anderson Fittings Brass Fitting Drawer Compartments are designed with portability in mind. Their sturdy steel construction with durable plastic compartments make storage convenient and repairs easily accomplished.

Refer to pages 153-154 for **ANDERFIT-KIT** Assortments.



DS16C

Measures 13-3/4L x 9-3/4W x 2-1/4D



DL20C

Measures 18-1/2L x 12-1/4W x 3-1/8D

NOT PICTURED

DL16C

Measures 18-1/4L x 12W x 3-1/8D

FA-1 Assortment

This assortment contains 108 of the most popular flare, compression, pipe and inverted flare fittings in the product offering. **(Designed for use with (2) FC-1 tilt bin fitting cabinets which must be ordered as separate items).**

PART NO.	QTY.	PART NO.	QTY.	PART NO.	QTY.
100A-A	10	60A-3	100	E2-6	5
100A-B	5	60A-4	100	E3-6C	10
100A-C	10	60A-5	100	E3-6D	5
101A-A	10	60A-6	100	E3-8D	5
101A-B	10	60A-8	100	N1-4	25
101A-C	5	60A-10	100	N1-5	25
103A-A	5	61A-2	25	N1-6	25
103A-B	5	61A-3	50	N1-8	25
103A-C	5	61A-4	50	N1-10	25
109A-A	25	61A-5	50	N5-4	10
109A-B	25	61A-6	50	N5-6	10
109A-C	10	61A-8	50	N5-8	10
110A-BA	25	61A-10	50	N5-10	5
110A-CA	10	62A-44	25	P2-4	10
110A-CB	10	62A-66	25	P2-6	10
110A-DB	10	62A-1010	10	P2-8	10
110A-DC	10	64A-44	10	P2-10	5
112A-A	10	64A-66	10	T2-4	10
112A-B	10	66A-4A	10	T2-6	10
112A-C	5	66A-B	10	U1-4A	10
119A-BA	10	68A-2A	10	U1-4B	10
119A-CB	5	68A-3A	10	U1-6B	10
120A-AA	5	68A-4A	10	U1-6C	10
120A-BA	10	68A-4B	10	U1-6D	10
120A-CB	5	68A-5A	10	U1-8D	10
122A-A	10	68A-6B	10	U1-10D	10
122A-B	10	68A-6C	10	U2-6	10
122A-C	5	68A-6D	10	U2-8	10
320D	10	68A-10D	10	U3-6C	10
321D	10	68A-14E	5	U3-6D	10
411B-4	25	69A-6C	10	U3-8D	10
481-4A	25	69A-10D	10	U3-10D	10
481-5A	25	E1-4A	10	US4-4	5
481-6B	10	E1-5A	10	US4-6	5
481-8C	5	E1-6B	10	US4-8	5
60A-2	100	E1-6C	10	US4-10	5

FA-4 Assortment

This assortment contains 105 of the fastest moving flare and compression fittings in the product offering. It is ideally set up for the repair shop or initial distribution stock. **(Designed for use with (2) FC-1 tilt bin fitting cabinets which must be ordered as separate items.)**

PART NO.	QTY.	PART NO.	QTY.	PART NO.	QTY.
E1-4A	10	U1-8E	5	62A-33	10
E1-4B	10	U1-10D	10	62A-44	25
E1-5A	10	U2-4	10	62A-55	10
E1-6B	10	U2-6	10	62A-66	25
E1-6C	10	U2-8	10	62A-88	10
E1-6D	5	U2-10	5	62A-1010	10
E2-6	5	U3-6B	10	64A-44	10
E2-8	5	U3-6C	10	64A-66	10
E3-6C	10	U3-6D	10	64A-88	5
E3-6D	5	U3-8C	10	65A-44	10
E3-8D	5	U3-8D	10	65A-66	10
N1-4	25	U3-10D	10	65A-88	5
N1-5	25	US4-4	5	66A-6D	10
N1-6	25	US4-6	5	66A-8D	10
N1-8	25	US4-8	5	68A-2A	10
N1-10	25	US4-10	5	68A-3A	10
N5-4	10	60A-2	100	68A-4A	10
N5-6	10	60A-3	100	68A-4B	10
N5-8	10	60A-4	100	68A-5A	10
N5-10	5	60A-5	100	68A-6B	10
P2-4	10	60A-6	100	68A-6C	10
P2-6	10	60A-8	100	68A-6D	10
P2-8	10	60A-10	100	68A-8C	10
P2-10	5	60A-12	50	68A-8D	10
T2-4	10	60A-14	50	68A-10D	10
T2-6	10	61A-2	25	68A-14E	5
T2-8	5	61A-3	50	69A-4A	10
T2-10	5	61A-4	50	69A-4B	10
U1-4A	10	61A-5	50	69A-6B	10
U1-4B	10	61A-6	50	69A-6C	10
U1-6B	10	61A-8	50	69A-8C	10
U1-6C	10	61A-10	50	69A-8D	10
U1-6D	10	61A-12	10	69A-10D	10
U1-8C	10	61A-14	10	72A-4A	10
U1-8D	10	62A-22	10	72A-6B	10

FA-5 Assortment

This assortment contains 51 of the fastest moving flare items in the product offering in sizes ranging from 1/4 OD through 5/8 OD. **(Designed for use with (1) FC-1 tilt bin fitting cabinet which must be ordered as a separate item).**

PART NO.	QTY.	PART NO.	QTY.
E1-4A	10	T2-8	5
E1-4B	10	T2-10	5
E1-5A	10	U1-4A	10
E1-6B	10	U1-4B	10
E1-6C	10	U1-6B	10
E1-6D	10	U1-6C	10
E2-6	5	U1-6D	10
E2-8	5	U1-8C	10
E3-6C	10	U1-8D	10
E3-6D	5	U1-8E	5
E3-8D	5	U1-10D	10
N1-4	25	U2-4	10
N1-5	25	U2-6	10
N1-6	25	U2-8	10
N1-8	25	U2-10	5
N1-10	25	U3-6B	10
N5-4	10	U3-6C	10
N5-6	10	U3-6D	10
N5-8	10	U3-8C	10
N5-10	5	U3-8D	10
P2-4	10	U3-10D	10
P2-6	10	US4-4	5
P2-8	10	US4-6	5
P2-10	5	US4-8	5
T2-4	10	US4-10	5
T2-6	10		

FA-6 Assortment

This assortment contains 54 of the most popular moving compression fittings in the product offering in sizes 1/8 OD through 7/8 OD. **(Designed for use with (1) FC-1 tilt bin fitting cabinet which must be ordered as a separate item).**

PART NO.	QTY.	PART NO.	QTY.
60A-2	100	64A-88	5
60A-3	100	65A-44	10
60A-4	100	65A-66	10
60A-5	100	65A-88	5
60A-6	100	66A-6D	10
60A-8	100	66A-8D	10
60A-10	100	68A-2A	10
60A-12	50	68A-3A	10
60A-14	50	68A-4A	10
61A-2	50	68A-4B	10
61A-3	50	68A-5A	10
61A-4	50	68A-6B	10
61A-5	50	68A-6C	10
61A-6	50	68A-6D	10
61A-8	50	68A-8C	10
61A-10	50	68A-8D	10
61A-12	10	68A-10D	10
61A-14	10	68A-14E	5
62A-22	10	69A-4A	10
62A-33	10	69A-4B	10
62A-44	25	69A-6B	10
62A-55	10	69A-6C	10
62A-66	25	69A-8C	10
62A-88	10	69A-8D	10
62A-1010	10	69A-10D	10
64A-44	10	72A-4A	10
64A-66	10	72A-6B	10

FA-7GH Assortment

Garden hose assortment contains the most popular fittings required for hose repair. **(Designed for use with (1) FC-1 tilt bin fitting cabinet which must be ordered as a separate item).**

PART NO.	QTY.	PART NO.	QTY.
GHN1	10	201GH-8E	10
GHN1-H	5	201GH-10E	10
GHN5	10	201GH-12E	10
GHN5-H	5	202GHS-88	5
GHN5-TA	5	202GHS-1010	5
GH-W	30	202GHS-1212	5
5A-12D	10	209GHS-8E	10
5A-12E	10	209GHS-10E	10
5AS-12D	20	209GHS-12E	10
5AS-12E	20	201GH-8EX	5
18A-12D	10	201GH-10EX	5
18A-12E	10	201GH-12EX	5
19A-12C	5	209GHS-8EX	5
19A-12D	20	209GHS-10EX	5
19AF-12DE	20	209GHS-12EX	3
20A-12D	10	W1-B	5
20A-12E	10	W1-C	5
21A-12	5	W1-6	5
22A-12	10	W1-8	5
22AS-12E	20	ECD-D	5
23A-12	10		

FA-1-3A Assortment

Ideally suited for the small parts jobber in the farm and automotive market, this assortment contains the most popular hose barbs, drain cocks, pipe fittings and inverted flares in the product offering. **(Designed for use with (1) FC-1 tilt bin fitting cabinets which must be ordered as separate items).**

PART NO.	QTY.	PART NO.	QTY.	PART NO.	QTY.
100A-A	10	113A-B15	10	41IP-4	10
101A-A	10	113A-B2	10	41IS-4	25
101A-B	10	116A-A	5	41IS-6	25
103A-A	5	116A-B	5	42I-4	10
103A-B	5	116A-C	5	42I-6	10
109A-A	25	121A-A	25	48I-4A	10
109A-B	25	121A-B	25	48I-4B	10
109A-C	10	121A-C	10	48I-5A	25
109A-D	5	201A-4A	25	48I-5B	10
110A-BA	25	201A-5A	25	48I-6B	10
110A-CB	10	201A-5B	25	49I-4A	10
110A-DB	10	201A-6A	10	49I-5A	10
110A-DC	10	201A-6B	25	49I-5B	10
112A-A	10	201D	5	94I-4A	5
112A-B	10	320D	10	HEI-4A	5
112A-C	5	321D	10	HEI-5B	5
113A-A15	10	41IB-4	25	HEI-6A	5
113A-A2	10	41IB-6	25	HEI-6B	5

FA-8BP Assortment

This pipe fitting assortment will serve the needs of the plumber, containing 105 of the fastest moving tees, unions, couplings, adapters, bushings, nipples and plugs to make any repair easy. **(Designed for use with (2) FC-1 tilt bin fitting cabinets which must be ordered as a separate item.)**

PART NO.	QTY.	PART NO.	QTY.	PART NO.	QTY.
100A-A	10	110A-EA	5	119A-DB	5
100A-B	5	110A-EB	5	119A-DC	5
100A-C	10	110A-EC	5	119A-ED	2
100A-D	5	110A-ED	5	120A-AA	10
100A-E	5	110A-FB	5	120A-BA	10
101A-A	10	110A-FC	5	120A-CA	5
101A-B	10	110A-FD	5	120A-CB	5
101A-C	5	110A-FE	5	120A-CC	5
101A-D	5	111A-A	10	120A-DB	5
101A-E	5	111A-B	10	120A-DC	5
102A-A	5	111A-C	5	120A-ED	2
102A-B	5	111A-D	5	121A-A	25
102A-C	5	112A-A	10	121A-B	25
102A-D	5	112A-B	10	121A-C	10
103A-A	5	112A-C	5	121A-D	5
103A-B	5	112A-D	5	121A-E	5
103A-C	5	112A-E	5	122A-A	10
103A-D	5	113A-A15	10	122A-B	10
103A-E	2	113A-A2	10	122A-C	5
108A-A	10	113A-B15	10	122A-D	5
108A-B	10	113A-B2	10	122A-E	5
108A-C	10	113A-C15	5	123A-BA	10
108A-D	5	113A-C2	10	123A-CA	5
108A-E	5	113A-D15	10	123A-CB	5
109A-A	25	113A-D2	10	123A-DB	5
109A-B	25	113A-E15	5	123A-DC	5
109A-C	10	113A-E2	5	123A-ED	2
109A-D	5	116A-A	5	124A-A	10
109A-E	5	116A-B	5	124A-B	10
110A-BA	25	116A-C	5	124A-C	5
110A-CA	10	116A-D	5	124A-D	5
110A-CB	10	116A-E	2	127A-A	10
110A-DA	10	119A-BA	10	127A-B	5
110A-DB	10	119A-CA	5	127A-C	5
110A-DC	10	119A-CB	5	127A-D	5

FA-9HB Assortment

Contains the most popular moving hose barbs, grip-on barbs and double barbs in the product offering. **(Designed for use with (1) FC-1 tilt bin fitting cabinet which must be ordered as separate item).**

PART NO.	QTY.	PART NO.	QTY.
201A-4A	25	HE1-4A	5
201A-4B	25	HE1-6B	5
201A-5B	25	HE1-8C	5
201A-6B	25	HE1-10D	5
201A-6C	10	HBT2-4	5
201A-6D	5	HBT2-6	5
201A-8C	10	301-42	10
201A-8D	5	301-44	10
201A-10D	5	301-64	10
201A-12D	5	304-44	10
201A-12E	5	304-66	5
209A-4A	25	304-88	5
209A-4B	10	309-44	10
209A-5A	10	309-68	5
209A-5B	10	309-88	10
209A-6A	10	62DB-4	10
209A-6B	10	62DB-6	10
209A-6C	10	64DB-4	5
209A-8C	10	64DB-6	5
209A-8D	5	65DB-4	5
HM-4	10	65DB-6	5
HM-5	5	68DB-4A	10
HM-6	5	68DB-6B	10
HM-8	5	69DB-4A	10
209ASF-44	10	69DB-6B	10
209ASF-46	10	72DB-4A	25
209ASF-66	10	72DB-6B	5

FA-52NAB

Contains a wide variety of dot approved airbrake fittings for use with nylon tubing. Sizes range from 1/4"-3/4". Ideally suited for service work required in repair shops and in fleets. **(Designed for use with (1) FC-1 tilt bin fitting cabinet which must be ordered as a separate item.)** For further detail on nylon air brake fittings see catalog pages 32-37.

PART NO.	QTY.	PART NO.	QTY.	PART NO.	QTY.
60NAB-4	25	66NAB-6A	5	69NAB-6D	5
60NAB-6	25	66NAB-6B	5	69NAB-8C	2
60NAB-8	25	66NAB-6C	5	69NAB-8D	2
60NAB-10	10	68NAB-4A	10	69NAB-10C	2
60NAB-12	5	68NAB-4B	10	69NAB-10D	2
61NAB-4	25	68NAB-6B	5	70NAB-6B	5
61NAB-6	25	68NAB-6C	5	70NAB-6C	5
61NAB-8	25	68NAB-6D	5	70NAB-6D	5
61NAB-10	10	68NAB-8C	2	71NAB-6B	5
61NAB-12	5	68NAB-8D	2	71NAB-6C	5
62NAB-4	10	68NAB-10C	2	71NAB-8C	2
62NAB-6	5	68NAB-10D	2	72NAB-6B	5
62NAB-8	2	69NAB-4A	10	72NAB-6C	5
62NAB-10	2	69NAB-4B	10	72NAB-8C	2
62NAB-12	2	69NAB-6A	5	72NAB-8D	2
64NAB-4	10	69NAB-6B	5	79NAB-6B	5
64NAB-6	5	69NAB-6C	5	79NAB-6C	5
64NAB-8	2				

FA-52CAB

Contains a wide variety of dot approved airbrake fittings for use with copper tubing. Sizes range from 1/4"-3/4". Service work will be readily accomplished with this offering. **(Designed for use with (1) FC-1 tilt bin fitting cabinet which must be ordered as a separate item.)** For further detail on copper air brake fittings see catalog pages 27-31.

PART NO.	QTY.	PART NO.	QTY.	PART NO.	QTY.
260A-4	25	266A-6A	5	269A-6D	5
260A-6	25	266A-6B	5	269A-8C	2
260A-8	25	266A-6C	5	269A-8D	2
260A-10	10	268A-4A	10	269A-10C	2
260A-12	5	268A-4B	10	269A-10D	2
261A-4	25	268A-6B	5	270A-6B	5
261A-6	25	268A-6C	5	270A-6C	5
261A-8	25	268A-6D	5	270A-8D	5
261A-10	10	268A-8C	2	271A-6B	5
261A-12	5	268A-8D	2	271A-6C	5
262A-4	10	268A-10C	2	271A-8C	2
262A-6	5	268A-10D	2	272A-6B	5
262A-8	2	269A-4A	10	272A-6C	5
262A-10	2	269A-4B	10	272A-8C	2
262A-12	2	269A-6A	5	272A-8D	2
264A-44	10	269A-6B	5	279A-6B	5
264A-66	5	269A-6C	5	279A-6C	5
264A-88	2				

FA-NAB-20

Contains 20 of the fastest moving nylon air brake fittings. For further detail on nylon air brake fittings see catalog pages 32-36. **Includes DL20C Compartment.**

PART NO.	QTY.	PART NO.	QTY.
60NAB-4	10	64NAB-6	2
60NAB-6	10	64NAB-8	1
60NAB-8	5	68NAB-4A	5
61NAB-4	10	68NAB-4B	5
61NAB-6	10	68NAB-6B	5
61NAB-8	5	68NAB-6C	5
62NAB-4	5	69NAB-4A	5
62NAB-6	2	69NAB-4B	5
62NAB-8	2	69NAB-6B	2
64NAB-4	2	69NAB-6C	2

FA-NAB-16

Contains 16 of the fastest moving nylon air brake fittings. For further detail on nylon air brake fittings see catalog pages 32-36. **Includes DL16C Compartment.**

PART NO.	QTY.	PART NO.	QTY.
60NAB-4	10	68NAB-4A	5
60NAB-6	10	68NAB-4B	5
61NAB-4	10	68NAB-6B	5
61NAB-6	10	68NAB-6C	5
62NAB-4	5	69NAB-4A	5
62NAB-6	2	69NAB-4B	5
64NAB-4	2	69NAB-6B	2
64NAB-6	2	69NAB-6C	2

FA-CAB-20

Contains 20 of the fastest moving copper air brake fittings. For further detail on copper air brake fittings see catalog pages 27-31. **Includes DL20C Compartment.**

PART NO.	QTY.	PART NO.	QTY.
260A-4	10	264A-66	2
260A-6	10	264A-88	1
260A-8	5	268A-4A	5
261A-4	10	268A-4B	5
261A-6	10	268A-6B	5
261A-8	5	268A-6C	5
262A-4	5	269A-4A	5
262A-6	2	269A-4B	5
262A-8	2	269A-6B	2
264A-A4	2	269A-6C	2

FA-CAB-16

Contains 16 of the fastest moving copper air brake fittings. For further detail on copper air brake fittings see catalog pages 27-31. **Includes DL16C Compartment.**

PART NO.	QTY.	PART NO.	QTY.
260A-4	10	268A-4A	5
260A-6	10	268A-4B	5
261A-4	10	268A-6B	5
261A-6	10	268A-6C	5
262A-4	5	269A-4A	5
262A-6	2	269A-4B	5
264A-4	2	269A-6B	2
264A-6	2	269A-6C	2

FA-NIPAC-20

Contains 20 of the fastest moving nickel poly push fittings. For further detail on nickel poly push fittings see catalog pages 73-78. **Includes DL20C Compartment.**

PART NO.	QTY.	PART NO.	QTY.
262PPNI-4	5	268PPNI-6B	5
262PPNI-6	5	268PPNI-6C	5
262PPNI-8	2	268PPNI-8C	2
264PPNI-4	5	269PPSNI-4A	5
264PPNI-6	5	269PPSNI-4B	5
264PPNI-8	2	269PPSNI-6B	5
266PPNI-4B	5	269PPSNI-6C	5
266PPNI-6B	5	269PPSNI-8C	5
268PPNI-4A	5	272PPSNI-4A	5
268PPNI-4B	5	272PPSNI-6B	5

FA-NIPAC-16

Contains 16 of the fastest moving nickel poly push fittings. For further detail on nickel poly push fittings see catalog pages 73-78. **Includes DS16C Compartment.**

PART NO.	QTY.	PART NO.	QTY.
262PPNI-4	5	268PPNI-6B	5
262PPNI-6	5	268PPNI-6C	5
264PPNI-4	5	269PPSNI-4A	5
264PPNI-6	5	269PPSNI-4B	5
266PPNI-4B	5	269PPSNI-6B	5
266PPNI-6B	5	269PPSNI-6C	5
268PPNI-4A	5	272PPSNI-4A	5
268PPNI-4B	5	272PPSNI-6B	5

FA-ACTPAC-20

Contains 20 of the fastest moving acetal plastic fittings. For further detail on acetal poly push fittings see catalog pages 79-91. **Includes DL20C Compartment.**

PART NO.	QTY.	PART NO.	QTY.
462ACT-4	5	468ACT-6B	5
462ACT-6	5	468ACT-6C	5
462ACT-8	2	468ACT-8C	2
464ACT-4	5	469ACT-4A	5
464ACT-6	5	469ACT-4B	5
464ACT-8	2	469ACT-6B	5
466ACT-4A	5	469ACT-6C	5
466ACT-6B	5	469ACT-8C	2
468ACT-4A	5	472ACTS-4A	5
468ACT-4B	5	472ACTS-6B	5

FA-ACTPAC-16

Contains 16 of the fastest moving acetal plastic fittings. For further detail on acetal poly push fittings see catalog pages 79-91. **Includes DL16C Compartment.**

PART NO.	QTY.	PART NO.	QTY.
462ACT-4	5	468ACT-6B	5
462ACT-6	5	468ACT-6C	5
464ACT-4	5	469ACT-4A	5
464ACT-6	5	469ACT-4B	5
466ACT-4A	5	469ACT-6B	5
466ACT-6B	5	469ACT-6C	5
468ACT-4A	5	472ACTS-4A	5
468ACT-4B	5	472ACTS-6B	5

FA-DB16

Contains 16 of the fastest moving double barb fittings. For further detail on double barb fittings see catalog pages 92-96. **Includes DS16C Compartment.**

PART NO.	QTY.	PART NO.	QTY.
62DB-4	10	68DB-6B	10
62DB-6	10	69DB-4A	10
62DB-8	5	69DB-4B	10
64DB-4	10	69DB-6B	10
64DB-6	10	69DB-8C	5
64DB-8	5	70DB-4A	10
68DB-4A	10	70DB-6B	10
68DB-4B	10	72DB-4A	10



DS16C

Measures 13-3/4L x 9-3/4W x 2-1/4D



DL20C

Measures 18-1/2L x 12-1/4W x 3-1/8D

NOT PICTURED

DL16C

Measures 18-1/4L x 12W x 3-1/8D

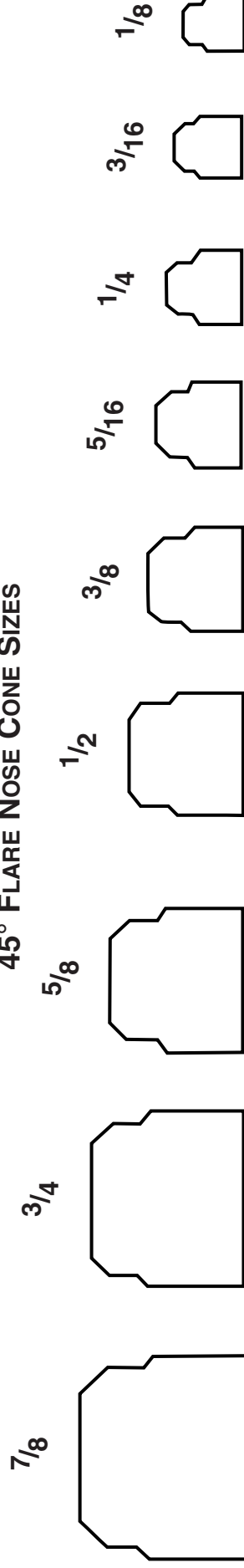
NOTES

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PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE
100A-	102	143CP	129	266PP	69	31440	144	49NV	129	71DB	95
100A-45-	102	161A	53	266PPDOT	38	31562	144	49PC	136	71NAB	35
100AF-	102	161CT	136	266PPNI	74	31662	144	50I	26	72A	58
101A-	102	161SAE	136	268A	29	31NV	129	50PC	136	72DB	95
101AF-	102	163SAE	136	268PF	65	31PC	136	557CC	135	72DBC	95
101CP	129	164SAE	136	268PP	69	320D	138	557CSD	132	72NAB	36
101CP-4	129	166SAE	136	268PPDOT	39	321D	138	557SD	132	76A	59
102A-	103	167SAE	136	268PPNI	74	322D	138	57CC	135	76DB	95
102AF-	103	181A	62	269A	30	327	139	57SCD	132	76PC	135
102CP	129	188A	62	269PF	66	32NV	129	57SAE	135	77DB	96
103-4CC	129	189A	62	269PP	70	32PC	136	57SD	132	77PC	135
103A-	103	18A	114	269PPDOT	39	32SD	132	5818CCX	141	77SD	132
103AH-	103	19A	114	269PPNI	75	3416X	141	5818PHX	141	7814X	141
103CC	129	19AF	114	269PPS	70	360A	43	5818X	141	78PC	135
103SAE	129	1W	141	269PPSDOT	39	361A	43	58CC	135	79NAB	36
103SD-	133	200D	138	269PPSNI	75	362A	43	58CSD	132	80PC	136
104A-	103	201A	118	270A	30	368A	43	58SAE	135	81LB	59
104HV-	139	201AB	122	270PF	66	371A	43	58SD	132	83DB	96
104SAE	130	201AH	118	270PP	70	378A	43	59A	33	84DB	96
105SAE	130	201BF	121	270PPDOT	40	37D	138	5A	113	89CCB	136
106CC	130	201D	138	271A	30	388A	44	5AS	113	9101CP	143
106SAE	130	201DH	138	271PF	66	38D	138	60A	52	9102CP	143
107CC	130	201GH	115	271PPS	71	408NAB	142	60AE	52	9103CC	143
108A-	103	201NY	123	271PPSDOT	40	40PC	136	60AH	52	9106CC	143
108MP	130	202D	138	271PPSNI	76	40SD	132	60AP	52	9107CC	143
108SAE	130	202GHS	116	272A	30	410NAB	142	60CC	136	9113CC	143
108SD-	133	203CC	129	272PF	66	41AS	14	60NAB	33	9143CP	143
109A-	104	203SAE	129	272PPS	71	41D	139	61A	52	9203CC	143
109AS-	104	204HV	139	272PPSDOT	40	41IB	24	61AH	52	9303CC	143
109CS-	104	204SAE	129	272PPSNI	76	41IP	24	61NAB	33	94I	26
109SC-	139	209A	119	277PF	67	41IS	24	62A	53	953PPNI	77
110A-	104	209AS	119	279A	31	421D	138	62ATS	53	958PPNI	78
110AH-	105	209ASF	120	279PPDOT	40	42D	139	62BH	53	961A	46
110FB-	104	209GHS	116	27CC	135	42I	24	62DB	93	962A	46
110MP	130	209LWA	122	27SAE	135	43D	139	62DBC	93	962ATS	46
110SAE	130	209NY	123	280PP	71	44D	139	62DBH	93	962BH	46
111A-	105	209RWA	122	281PP	71	44I	24	62DBHC	93	963A	46
112A-	105	20A	114	282PF	67	462ACT	80	62NAB	33	964A	47
113A-	105	21A	114	282PFT	67	462PRY	80	62NABH	33	965A	47
113CC	130	227CC	135	282PP	71	464ACT	80	63A	54	966A	47
113RB-	106	227CSD	132	283PP	72	464PRY	80	64A	54	966AS	48
114SD	133	227SAE	135	283PPNI	77	465ACT	80	64AF	54	968A	48
115SAE	130	227SD	132	284PP	72	465ACTS	81	64DB	93	96945A	48
115SD	133	22A	114	285PP	72	465PRY	80	64NAB	34	969A	49
116A-	107	22AS	114	286PP	72	466ACT	81	65A	54	970A	49
116AF-	107	23A	115	286PPNI	77	466PRY	81	65AF	54	971A	49
116AL-	107	256PF	64	28CC	135	468ACT	81	65DB	94	972A	50
116AL-	107	260A	28	28SAE	135	468PRY	81	65NAB	34	976A	50
116AM-	107	260PF	64	28SD	132	469ACT	82	66A	54	AF20274	147
116AMF-	107	260PFB	64	2W	141	469PRY	82	66AS	55	AF20307	147
117A-	108	261A	28	300D	138	46I	25	66ATS	55	AF21200	147
119A-	108	261PF	64	300PPNI	78	46WH	115	66DB	94	AFBC	90
119AH-	108	261PFB	64	301	98	471ACTS	82	66NAB	34	AFLOC	89
120A-	108	261PFN	64	301D	138	472ACTS	83	67DB	94	AFTR	145
120AH-	109	262A	28	302	98	473ACT	83	67SAE	135	B1	10
120PC	136	262BH	28	303	98	483ACT	83	67SD	132	B2	10
121A-	109	262BHPPDOT	38	303ACC	129	484ACT	83	68A	55	BCAR	88
121AS-	109	262PF	65	303CC	129	486ACT	84	68ATS	56	C1	10
122A-	109	262PFC	65	303SAE	129	486PRY	84	68CC	135	C2	10
122AH	109	262PP	69	304	98	487ACT	84	68CSD	132	CKV462ACT	88
122AS	120	262PPDOT	38	305	99	488ACT	84	68DB	94	CV462ACT	86
122LWA	122	262PPNI	74	306	99	488PRY	84	68NAB	34	CV465ACT	86
122RWA	122	264A	28	307	99	489ACT	84	68SAE	135	CV466ACT	86
123A	110	264PF	65	308	99	48I	25	68SD	132	CV468ACT	87
123AH	110	264PP	69	30862	144	48NV	129	6945A	56	DE3	10
124A	110	264PPDOT	38	309	99	48PC	136	69A	57	DL16C	149
127A	110	264PPNI	74	3099	100	48WH	115	69AF	57	DL20C	149
127S	110	265A	29	30CC	135	490ACT	85	69DB	94	DS16C	149
128A	111	265PP	69	30SAE	135	491ACT	85	69NAB	35	E1	11
129A	44	265PPDOT	38	310	100	492ACT	85	70A	57	E1-45	12
129A-	111	265PPNI	74	310PPNI	78	493ACT	85	70DB	95	E1F	11
129AS	44	266A	29	311PF	67	494ACT	85	70NAB	35	E2	12
129AS	111	266PF	65	312PF	67	49I	25	71A	58	E3	13
										E3F	13
										E4	13
										ECD-D	115
										ER2	12
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										ES4	13
										EV-12A	139
										FA	150
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										G261	140
										GHN1	113
										GHN1H	113
										GHN5	113
										GHN5H	113
										GHW	116
										HBPHV	140
										HBT2	121
										HBV	140
										HE1	120
										HE1-45	121
										HM	121
										HMNY	123
										HV1	140
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										HV466ACT	87
										HV468ACT	87
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										N1	14
										N2	14
										N4	15
										N5	15
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										POL	126
										RE1	21
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										RT2	21
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										RU2	22
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										SCAR	88
										T1	16
										T1F	16
										T2	16
										T2F	16
										T3	17
										T4	18
										T9	111
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										TS	21
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										U3	19
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										U5	20
										U5CC	59
										U6C	59
										U6CC	60
										U6CF	60
										U6C-FF	60
										U6FC	60
										UR2	19
										UR3	19
										US3	20
										US4	20
										W1	113
										WFACT	89

45° FLARE NOSE CONE SIZES



MALE PIPE THREAD PROFILES

