

### **CONSTRUCTION**

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

### **ADVANTAGES**

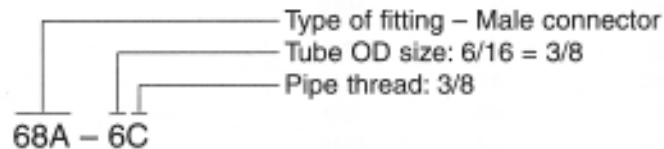
- No flaring, soldering or other special tubing preparation required.
- Low cost
- Wide range of styles and sizes
- Easy assembly

### **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:



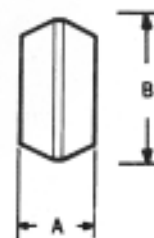
### **NOTES**

- 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**

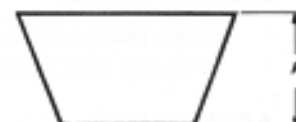
REF SAE 060115

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**

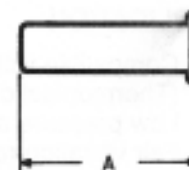
PART NUMBER	O.D. TUBE	A
60AP-4	1/4	.19
60AP-5	5/16	.19
60AP-6	3/8	.19
60AP-8	1/2	.22
60AP-10	5/8	.22



**60AE BRASS INSERT**

FOR USE WITH SOFT TUBING.

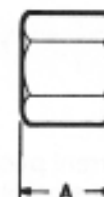
PART NUMBER	O.D. TUBE	A
60AE-4	1/4	.65
60AE-5	5/16	.50
60AE-6	3/8	.54
60AE-8	1/2	.72
60AE-10	5/8	.62



**61A NUT**

REF SAE 060110

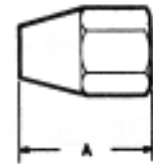
PART NUMBER	O.D. TUBE	A	HEX
61A-2	1/8	.38	3/8
61A-3	3/16	.41	7/16
61A-4	1/4	.44	1/2
61A-5	5/16	.44	9/16
61A-6	3/8	.47	5/8
61A-7	7/16	.50	11/16
61A-8	1/2	.56	3/4
61AH-8	1/2	.62	13/16
61A-10	5/8	.56	7/8
61AH-10	5/8	.62	15/16
61A-12	3/4	.68	1-1/8
61A-14	7/8	.62	1-1/4



161A NUT, LONG

REF SAE 060111

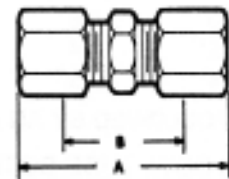
PART NUMBER	O.D. TUBE	A	HEX
161A-2	1/8	.50	3/8
161A-3	3/16	.44	7/16
161A-4	1/4	.75	1/2
161A-5	5/16	.84	9/16
161A-6	3/8	.97	5/8
161A-8	1/2	1.06	13/16
161A-10	5/8	1.19	15/16
161A-12	3/4	1.38	1-3/16



62A UNION TUBE BOTH ENDS

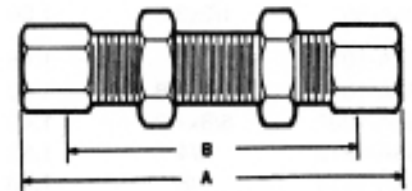
REF SAE 060101BA

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



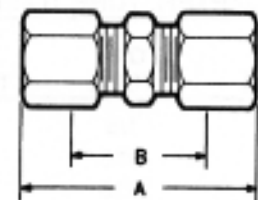
62BH BULKHEAD UNION TUBE BOTH ENDS

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



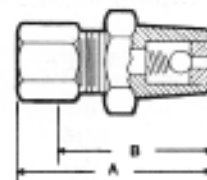
62ATS UNION, DRILLED THRU TUBE BOTH ENDS

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

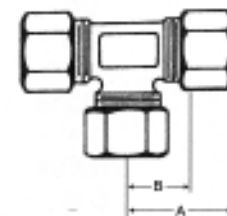
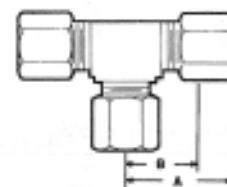
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
63A-4A	1/4	1/8	1.10	.88	7/16
63A-6B	3/8	1/4	1.44	1.16	9/16



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

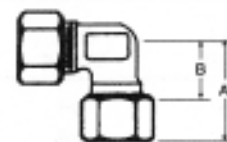
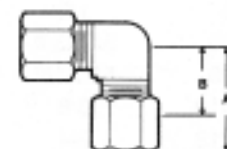


ITEMS FOLLOWED BY AN ASTERISK (\*) WILL BE SUPPLIED AS A FORGING

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

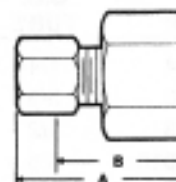


ITEMS FOLLOWED BY AN ASTERISK (\*) WILL BE SUPPLIED AS A FORGING

66A ADAPTER, TUBE TO FPT

REF SAE 060103

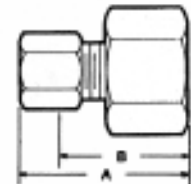
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
66A-2A	1/8	1/8	.95	.75	9/16
66A-3A	3/16	1/8	1.02	.78	9/16
66A-3B	3/16	1/4	1.20	.96	11/16



66A ADAPTER, TUBE TO FPT CONTINUED

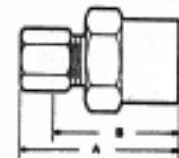
REF SAE 060103

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



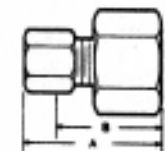
66AS FAUCET ADAPTER, TUBE TO SOLDER

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

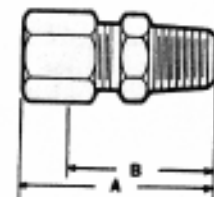
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
66ATS-6D	3/8	1/2	1.34	1.03	7/8
66ATS-8D	1/2	1/2	1.48	1.05	7/8



68A CONNECTOR, TUBE TO MPT

REF SAE 060102BA

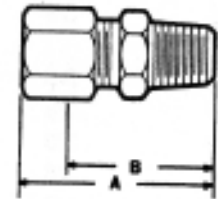
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	HEX
68A-2A	1/8	1/8	.98	.78	7/16
68A-3A	3/16	1/8	1.08	.84	7/16
68A-3B	3/16	1/4	1.27	1.03	9/16
68A-4A	1/4	1/8	1.12	.88	9/16
68A-4B	1/4	1/4	1.21	.97	9/16
68A-4C	1/4	3/8	1.27	1.03	11/16



68A CONNECTOR, TUBE TO MPT CONTINUED

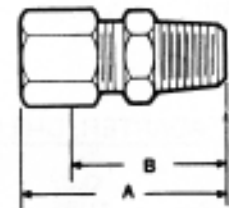
REF SAE 060102BA

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



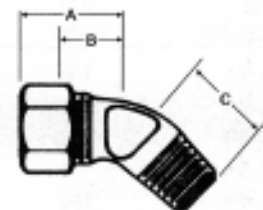
68ATS CONNECTOR, DRILLED THRU TUBE TO MPT

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

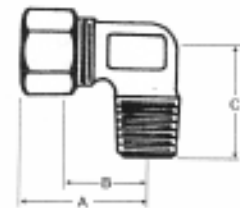
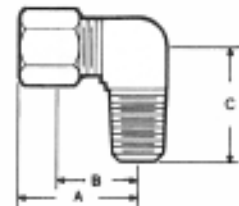


ITEMS FOLLOWED BY AN ASTERISK (\*) WILL BE SUPPLIED AS A FORGING

**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

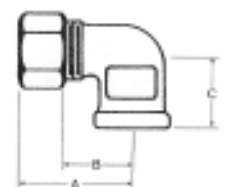
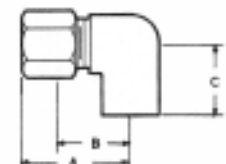


ITEMS FOLLOWED BY AN ASTERISK (\*) WILL BE SUPPLIED AS A FORGING

**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

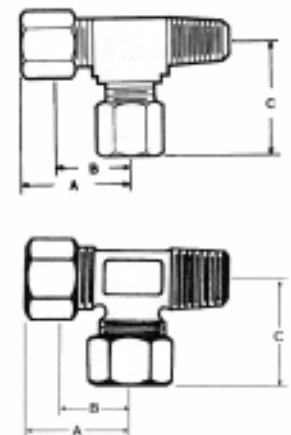
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
70A-6C	3/8	3/8	1.56	1.26	.61
70A-6D	3/8	1/2	1.32	.97	.66
70A-8B*	1/2	1/4	1.82	1.49	.68
70A-8C*	1/2	3/8	1.53	1.19	.66
70A-8D*	1/2	1/2	1.89	1.53	.70
70A-8E*	1/2	3/4	1.89	1.53	.78
70A-10C*	5/8	3/8	1.70	1.20	.80
70A-10D*	5/8	1/2	1.41	1.03	.76
70A-10E*	5/8	3/4	2.12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

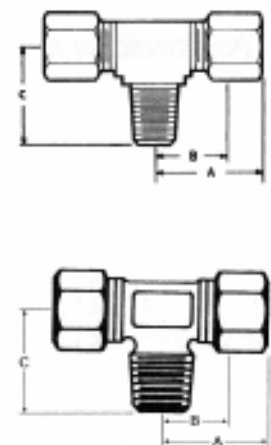


ITEMS FOLLOWED BY AN ASTERISK (\*) WILL BE SUPPLIED AS A FORGING

**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

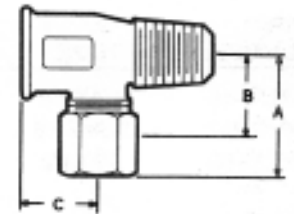


ITEMS FOLLOWED BY AN ASTERISK (\*) WILL BE SUPPLIED AS A FORGING



**76A STREET TEE, FPT TO MPT TO TUBE**

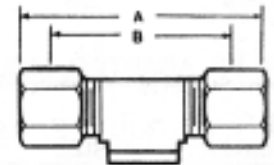
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B	C
76A-2A*	1/8	1/8	.85	.61	.48
76A-4A*	1/4	1/8	.85	.57	.45
76A-4B*	1/4	1/4	.98	.71	.98
76A-6B*	3/8	1/4	1.09	.82	.98



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

**77A FEMALE BRANCH TEE, TUBE TO FPT**

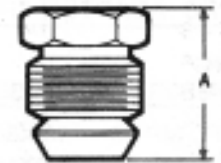
PART NUMBER	O.D. TUBE	PIPE THREAD	A	B
77A-4A*	1/4	1/8	1.70	1.56
77A-4B*	1/4	1/4	1.70	1.57
77A-6A*	3/8	1/8	1.75	1.50
77A-6B*	3/8	1/4	1.90	1.60
77A-6C*	3/8	3/8	1.90	1.60
77A-8A*	1/2	1/8	2.20	1.90
77A-10A*	5/8	1/8	2.50	2.13



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



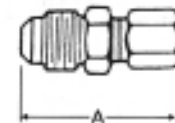
**N5CT COMPRESSION CAP**

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



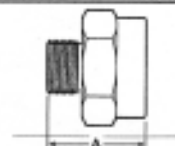
**U5CC ADAPTER, FEMALE FLARE X MALE COMPRESSION**

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



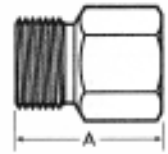
**U6C-CL ADAPTER, MALE COMPRESSION TO CLOSET**

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



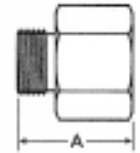
**U6CC ADAPTER, MALE COMPRESSION TO FEMALE COMPRESSION**

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



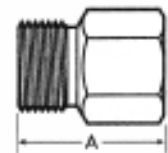
**U6CF ADAPTER, MALE COMPRESSION TO FAUCET**

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

