**CONSTRUCTION**

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

**ADVANTAGES**

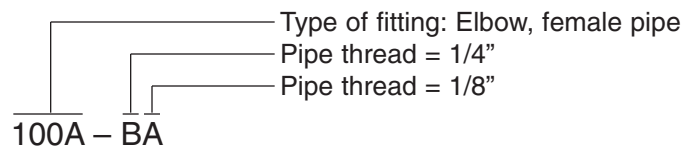
- Large range of styles and sizes
- Some shapes are offered in either extruded or forged patterns

**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.**

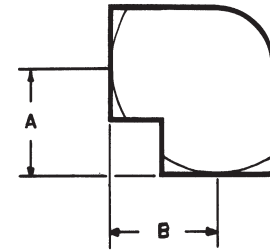
**NOTES**

- 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**

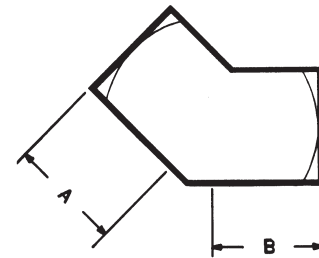
REF SAE 130238

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**

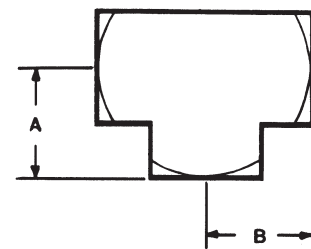
PART NUMBER	PIPE THREAD	A	B
100-45A-A	1/8	.46	.46
100-45A-B	1/4	.64	.64
100-45A-C	3/8	.61	.61



**101A TEE FPT ALL ENDS**

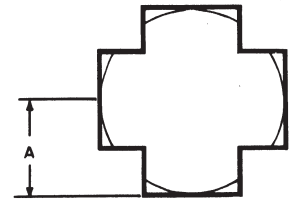
REF SAE 130438

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**

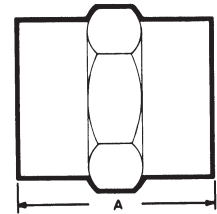
PART NUMBER	PIPE THREAD	A
102A-A	1/8	.65
102AF-A	1/8	.52
102A-B	1/4	.78
102AF-B	1/4	.66
102A-C	3/8	.98
102AF-C	3/8	.82
102A-D*	1/2	1.08
102A-E*	3/4	1.18



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

**103A COUPLING FPT TO FPT**

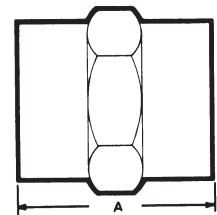
PART NUMBER	PIPE THREAD	A	HEX
103A-A	1/8	.75	1/2
103A-B	1/4	.88	5/8
103A-C	3/8	1.00	13/16
103A-D	1/2	1.19	15/16
103A-E	3/4	1.19	1-1/4



**103AH COUPLING FPT TO FPT**

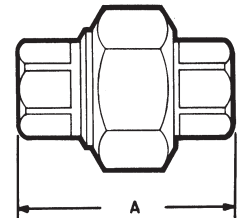
REF SAE 130138

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**

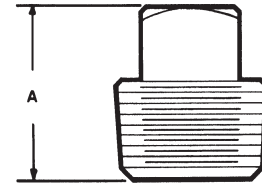
PART NUMBER	PIPE THREAD	A	HEX
108A-A	1/8	.47	9/16
108A-B	1/4	.59	11/16
108A-C	3/8	.69	13/16
108A-D	1/2	.78	15/16
108A-E	3/4	.94	1-1/4



**109A SQUARE HEAD PLUG CORED**

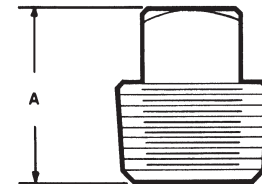
PART NUMBER	PIPE THREAD	A
109A-A*	1/8	.58
109A-B*	1/4	.70
109A-C*	3/8	.73
109A-D	1/2	.93
109A-E	3/4	1.00
109A-F	1	1.20

\*SUPPLIED AS SOLID



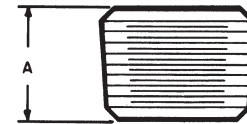
**109AS SQUARE HEAD PLUG SOLID**

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



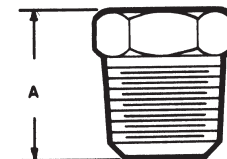
**110FB FACE BUSHING**

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



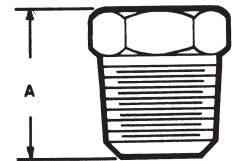
110A HEX BUSHING CONTINUED

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

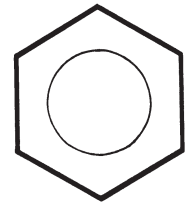
REF SAE 130140

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



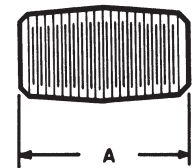
111A LOCK NUT

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



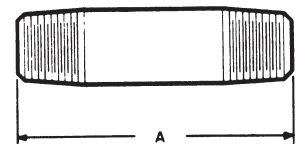
112A CLOSE NIPPLE

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

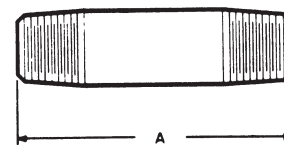


**113A LONG NIPPLE (YELLOW) CONTINUED**

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

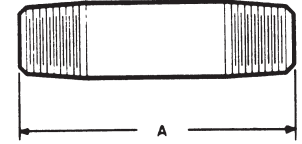
**113RB LONG NIPPLE (RED)**

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**

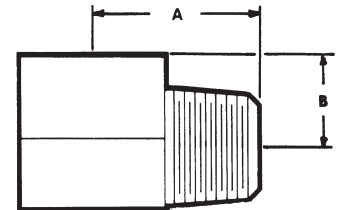
PART NUMBER	PIPE THREAD	A
113RB-A6	1/8	6
113RB-B6	1/4	6
113RB-C6	3/8	6
113RB-D6	1/2	6
113RB-E6	3/4	6
113RB-A7	1/8	7
113RB-B7	1/4	7
113RB-C7	3/8	7
113RB-D7	1/2	7
113RB-E7	3/4	7



**116A STREET ELBOW**

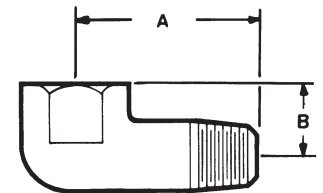
REF SAE 130239

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



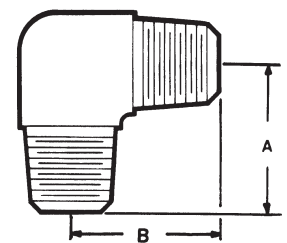
**116AL STREET ELBOW LONG PATTERN**

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



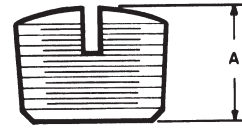
**116AM MALE ELBOW**

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



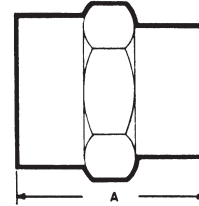
**117A SLOTTED PLUG**

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**

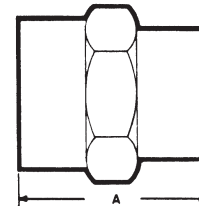
PART NUMBER	PIPE THREAD	A	HEX
119A-BA	1/4X1/8	.94	5/8
119A-CA	3/8X1/8	1.00	3/4
119A-CB	3/8X1/4	1.00	13/16
119A-DA	1/2X1/8	1.19	15/16
119A-DB	1/2X1/4	1.19	15/16
119A-DC	1/2X3/8	1.19	15/16
119A-ED	3/4X1/2	1.19	1-1/4



**119HA REDUCER FPT TO FPT**

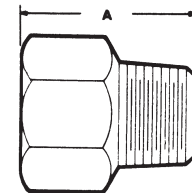
REF SAE 130138

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

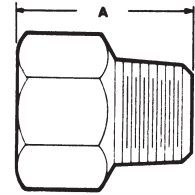




120AH ADAPTER FPT TO MPT

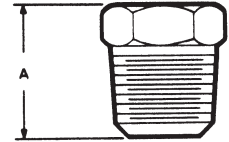
REF SAE 130139

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



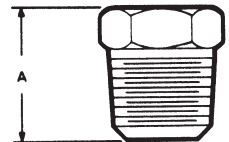
121A HEX HEAD PLUG CORED

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



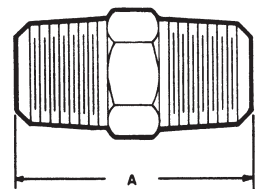
121AS HEX HEAD PLUG SOLID

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

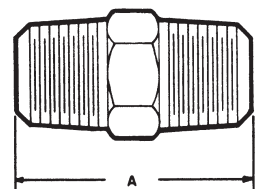
PART NUMBER	PIPE THREAD	A	HEX
122A-A	1/8	.91	7/16
122A-B	1/4	1.12	9/16
122A-C	3/8	1.25	11/16
122A-D	1/2	1.50	7/8
122A-E	3/4	1.56	1-1/16



122AH HEX NIPPLE

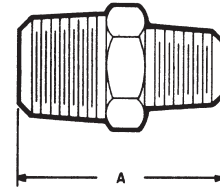
REF SAE 130137

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

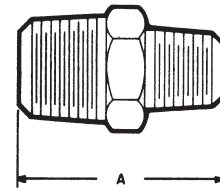
PART NUMBER	PIPE THREAD	A	HEX
123A-BA	1/4X1/8	1.00	9/16
123A-CA	3/8X1/8	1.11	11/16
123A-CB	3/8X1/4	1.19	11/16
123A-DB	1/2X1/4	1.34	7/8
123A-DC	1/2X3/8	1.41	7/8
123A-ED	3/4X1/2	1.50	1-1/16



123AH HEX REDUCING NIPPLE

REF SAE 130137

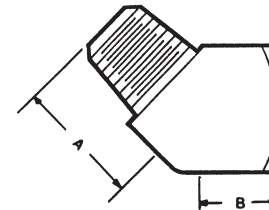
PART NUMBER	PIPE THREAD	A	HEX
123AH-BA	1/4X1/8	1.18	9/16
123AH-CA	3/8X1/8	1.21	11/16
123AH-CB	3/8X1/4	1.40	11/16
123AH-DB	1/2X1/4	1.62	7/8
123AH-DC	1/2X3/8	1.62	7/8



124A STREET ELBOW 45°

REF SAE 130339

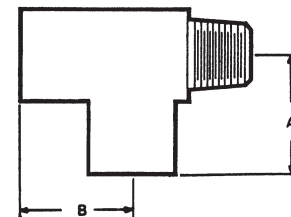
PART NUMBER	PIPE THREAD	A	B
124A-A	1/8	.38	.50
124A-B	1/4	.74	.55
124A-C	3/8	.78	.56
124A-D	1/2	.98	.74



127A STREET TEE FPT TO MPT TO FPT

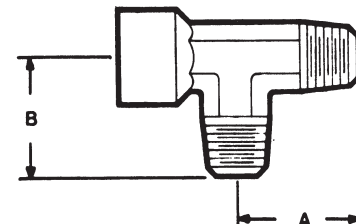
REF SAE 130424

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

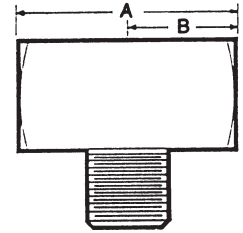


ITEMS FOLLOWED BY AN ASTERISK (\*) WILL BE SUPPLIED AS A FORGING

**T9 BRANCH TEE FPT TO FPT TO MPT**

REF SAE 130425

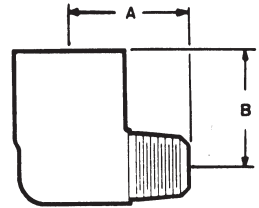
PART NUMBER	PIPE THREAD	A	B
T9-222*	1/8	.62	.31
T9-444*	1/4	1.50	.75
T9-666*	3/8	1.60	.80
T9-888*	1/2	2.14	1.07



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

