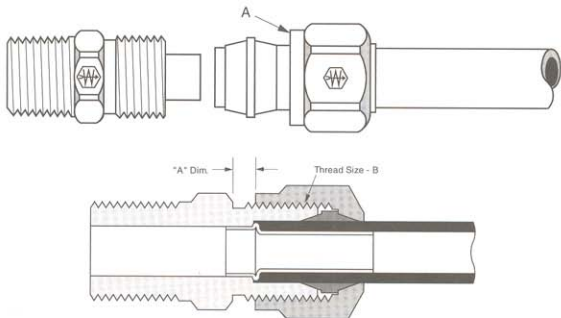


Air Brake - Nylon Tubing

Brass
Fittings

Refer to safety information regarding tubing selection on page 1.



Tube O.D.	1/4	3/8	1/2	5/8	3/4
Thread Size-B	7/16-24	17/32-24	11/16-20	13/16-18	1-18

• Typical Application

Air brake systems except where temperatures exceed +200°F or where battery acid can drip on tubing.

• Pressure

Maximum operating pressure of 150 psi.

• Vibration

Fair resistance.

• Temperature Range

-40°F to +200°F (-40°C to +93°C)

• Material

CA360 Brass.

• Used With

NT100 Nylon Tubing - SAE J844 Type A and B. See page 33 for NT100 Nylon Tubing data.

• Advantages

Easy to assemble (no tube preparation or flaring required.) Built in tube support. May be used with copper tubing by replacing nut, sleeve and insert with long nut and spherical sleeve. Insert should be removed for copper tubing use. See page 97 for details.

• Conformance

Meets specifications and standards of SAE and DOT FMVSS 571.106.

• How to Order

For complete assemblies (body, nuts and sleeves), order by catalog number. Example: 1468x4x4. To order body only (less nut and sleeve), add prefix "B" to catalog number and change "14" to "13". Example: B1368x4x4. Nuts, sleeve and insert can be ordered separately by catalog number.

To order complete assembly with pipe sealant (Seal-A-Thread), add suffix "Z" to catalog number. Example: 1468x4x4Z (special order only).

To order complete assembly with gauge ring, add suffix "K" to catalog number. Example: 1468x4x4K (special order only).

• NOTE

Refer to current price list for availability of cataloged items. Quotations and delivery of non-stock items supplied on request. Configurations and dimensions subject to change without notice. Additional information can be found in SAE J246.

• Assembly Instructions

1. Cut tubing to desired length.
2. Slide nut and then sleeve on tubing. Threaded end of nut "A" must face toward fitting body.
3. Insert tubing into the preassembled fitting. Be sure tubing is bottomed in fitting.
4. Tighten nut to required torque as indicated on chart. Another check on proper assembly is dimension A also noted on chart. A gauge ring also assures installation to specification. See page 96.

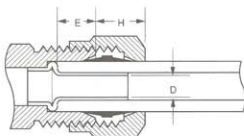
Tube Size	Torque	A Dimension
1/4	85 to 115 in. lbs.	.085/105
3/8	12 to 17 ft. lbs.	.125/.145
1/2	25 to 33 ft. lbs.	.100/.120
5/8	26 to 35 ft. lbs.	.115/.135
3/4	38 to 50 ft. lbs.	.180/.200

Disassembly: Remove nut and pull tubing out of fitting body. INSERT will remain in tubing.

Reassembly: Push tubing and insert into fitting body until it bottoms. Thread nut onto fitting body and torque as in Step 4.

Label Set: FS-900 (adhesive)
CL-16-3 (non-adhesive)

Use with Weatherhead NT100 Air Brake Tubing (SAE J844), see page 33.



*NOTE: H is hand tight dimensions.

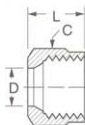
Tube O.D.	E Tube Stop	H*	D
1/4	.20	.32	.133
3/8	.26	.42	.215
1/2	.39	.45	.340
5/8	.39	.48	.398
3/4	.51	.50	.523

Sleeve (Ref. SAE No. 100115)



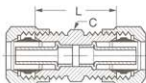
Tube O.D.	Catalog Number	Dia. C	D	L
1/4	1460x4	.359	.256	.30
3/8	1460x6	.479	.384	.39
1/2	1460x8	.625	.509	.43
5/8	1460x10	.745	.635	.48
3/4	1460x12	.922	.760	.53

Nut (Ref. SAE No. 100110)



Tube O.D.	Catalog Number	Hex C	D	L
1/4	1461x4	9/16	.256	.45
3/8	1461x6	5/8	.384	.63
1/2	1461x8	13/16	.509	.72
5/8	1461x10	15/16	.634	.77
3/4	1461x12	1-1/8	.760	.81

Union (Ref. SAE No. 100101BA)



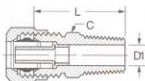
Tube O.D.	Catalog Number	Hex C	L
1/4	1462x4	7/16	.85
3/8	1462x6	9/16	1.10
1/2	1462x8	11/16	1.31
5/8	1462x10	13/16	1.43
3/4	1462x12	1	1.60

Air Brake - Nylon Tubing

**Brass
Fittings**

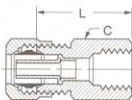
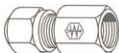
Use with Weatherhead NT100 Air Brake Tubing (SAE J844), see page 33.

Male Connector (Ref. SAE No. 100102BA)



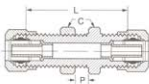
Tube O.D.	Male Pipe Thread	Catalog Number	Hex C	D1	L
1/4	1/16	1468x4x1	7/16	.125	.90
1/4	1/8	1468x4	7/16	.188	.88
1/4	1/4	1468x4x4	9/16	.188	1.09
1/4	3/8	1468x4x6	11/16	.188	1.12
3/8	1/8	1468x6x2	9/16	.188	1.02
3/8	1/4	1468x6	9/16	.312	1.20
3/8	3/8	1468x6x6	11/16	.312	1.23
3/8	1/2	1468x6x8	7/8	.312	1.42
1/2	1/4	1468x8x4	11/16	.312	1.32
1/2	3/8	1468x8	11/16	.406	1.32
1/2	1/2	1468x8x8	7/8	.406	1.51
1/2	3/4	1468x8x12	1-1/16	.406	1.57
5/8	3/8	1468x10x6	13/16	.406	1.38
5/8	1/2	1468x10	7/8	.531	1.57
5/8	3/4	1468x10x12	1-1/16	.750	1.63
3/4	1/2	1468x12	1	.531	1.67
3/4	3/4	1468x12x12	1-1/16	.660	1.70

Female Connector (Ref. SAE No. 100103BA)



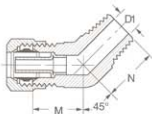
Tube O.D.	Fem. Pipe Thread	Catalog Number	Hex C	L
1/4	1/8	1466x4	9/16	.85
3/8	1/8	1466x6x2*	9/16	1.01
3/8	1/4	1466x6	11/16	1.19
3/8	3/8	1466x6x6	7/8	1.19
1/2	3/8	1466x8	7/8	1.28

Bulkhead Union



Tube O.D.	Catalog Number	Hex C	L	Max. P
1/4	1474x4	9/16	1.38	.25
3/8	1474x6	11/16	1.62	.25
1/2	1474x8*	13/16	1.88	.25
5/8	1474x10*	15/16	2.09	.25

45° Male Elbow (Ref. SAE No. 100302BA)

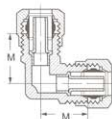


Tube O.D.	Male Pipe Thread	Catalog Number	D1	M	N
1/4	1/8	1480x4	.188	.50	.64
1/4	1/4	1480x4x4	.312	.61	.86
3/8	1/4	1480x6	.312	.72	.86
3/8	3/8	1480x6x6	.406	.76	.95
1/2	1/4	1480x8x4	.312	.85	.95
1/2	3/8	1480x8	.406	.85	.95
1/2	1/2	1480x8x8	.531	.88	1.17
5/8	1/2	1480x10	.531	.94	1.17

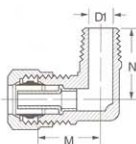
*MTO - Made To Order

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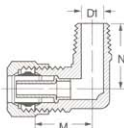
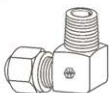
Use with Weatherhead NT100 Air Brake Tubing (SAE J844), see page 33.

Union Elbow
 (Ref. SAE No. 100201BA)


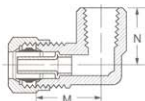
Tube O.D.	Catalog Number	M
1/4	1465x4*	.63
3/8	1465x6*	.80
1/2	1465x8*	.94
5/8	1465x10*	1.10

90° Male Elbow
 (Ref. SAE No. 100202BA)


Tube O.D.	Male Pipe Thread	Catalog Number	D1	M	N
1/4	1/8	1469x4	.188	.63	.67
1/4	1/4	1469x4x4	.312	.69	.88
1/4	3/8	1469x4x6	.406	.74	.87
3/8	1/8	1469x6x2	.188	.73	.75
3/8	1/4	1469x6	.312	.80	.93
3/8	3/8	1469x6x6	.406	.85	.92
3/8	1/2	1469x6x8	.531	.95	1.11
1/2	1/4	1469x8x4	.312	.87	1.00
1/2	3/8	1469x8	.406	.94	1.00
1/2	1/2	1469x8x8	.531	1.04	1.19
5/8	3/8	1469x10x6	.406	1.01	1.06
5/8	1/2	1469x10	.531	1.10	1.25
5/8	3/4	1469x10x12	.750	1.21	1.25
3/4	1/2	1469x12	.531	1.20	1.34

90° Male Elbow - Long
 (Ref. SAE No. 100202BA)


Tube O.D.	Male Pipe Thread	Catalog Number	D1	M	N
3/8	1/4	1469x6L	.312	.80	1.44
1/2	3/8	1469x8L	.406	.94	1.38

90° Female Elbow
 (Ref. SAE No. 100203BA)


Tube O.D.	Fem. Pipe Thread	Catalog Number	M	N
1/4	1/8	1470x4	.70	.54
3/8	1/4	1470x6*	.90	.78
3/8	3/8	1470x6x6*	.95	.78
1/2	3/8	1470x8*	1.04	.83
1/2	1/2	1470x8x8*	1.14	1.02
5/8	1/2	1470x10x10x8*	1.15	1.08

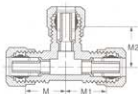
Air Brake – Nylon Tubing

Brass
Fittings

Use with Weatherhead NT100 Air Brake Tubing (SAE J844), see page 33.

Union Tee

(Ref. SAE No. 100401BA)

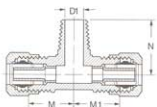


NOTE: Dimensions read left, right, center.

Tube O.D.	Catalog Number	M	M1	M2
1/4	1464x4	.63	.63	.63
1/4x3/8x3/8	1464x4x6x6*	.70	.80	.80
3/8x3/8x1/4	1464x6x6x4	.72	.72	.69
3/8	1464x6	.80	.80	.80
1/2x1/2x3/8	1464x8x8x6	.86	.86	.85
1/2	1464x8	.94	.94	.94

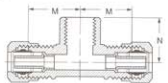
Male Branch Tee

(Ref. SAE No. 100425BA)



Tube O.D.	Male Pipe Thread	Catalog Number	D1	M	M1	N
1/4	1/8	1472x4	.188	.63	.63	.67
3/8x1/4	1/4	1472x6x4x4	.312	.80	.69	.93
3/8	1/8	1472x6x6x2*	.188	.73	.73	.75
3/8	1/4	1472x6	.312	.80	.80	.93
3/8	3/8	1472x6x6x6	.406	.85	.85	.92
1/2x3/8	3/8	1472x8x6x6	.406	.94	.85	1.00
1/2	1/4	1472x8x8x4	.312	.87	.87	1.00
1/2	3/8	1472x8	.406	.94	.94	1.00
5/8	1/4	1472x10x10x4*	.312	1.13	1.13	1.12

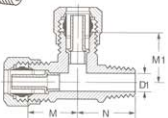
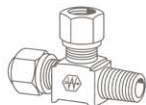
Female Branch Tee



Tube O.D.	Fem. Pipe Thread	Catalog Number	M	N
3/8	1/4	1477x6	.90	.78
1/2	1/4	1477x8x8x4*	.97	.83
5/8	1/4	1477x10x10x4	1.04	.89

Male Run Tee

(Ref. SAE No. 100424BA)

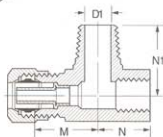
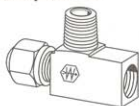


Tube O.D.	Male Pipe Thread	Catalog Number	D1	M	M1	N
1/4	1/8	1471x4	.188	.64	.64	.67
3/8x1/4	1/4	1471x6x4x4	.312	.72	.69	.88
3/8	1/4	1471x6	.312	.80	.80	.93
3/8	3/8	1471x6x6x6	.406	.85	.85	.92
1/2	3/8	1471x8*	.406	.94	.94	1.10

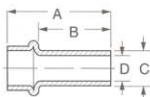
*MTO - Made To Order

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Use with Weatherhead NT100 Air Brake Tubing (SAE J844), see page 33.

Adapter Tee


Tube O.D.	Fem. Pipe Thread	Male Pipe Thread	Catalog Number	D1	M	N	N1
3/8	1/4	1/4	1482x6x4x4*	.312	.88	.75	.94
3/8	1/4	3/8	1482x6x4x6*	.402	.94	.75	1.00

**Insert
(Brass)**


Tube O.D.	Catalog Number	A	B	C	D
1/4	1484x4	.64	.46	.163	.133
3/8	1484x6	.76	.58	.245	.215
1/2	1484x8	.94	.76	.370	.340
5/8	1484x10	1.06	.84	.434	.398
3/4	1484x12	1.21	1.00	.559	.523

Gauge Ring


Tube O.D.	Catalog Number	L
1/4	1485x4	.085/.105
3/8	1485x6	.125/.145
1/2	1485x8	.100/.120
5/8	1485x10	.115/.135
3/4	1485x12	.180/.200

NOTE: Nut screwed to Gauge Ring assures installation to specifications.