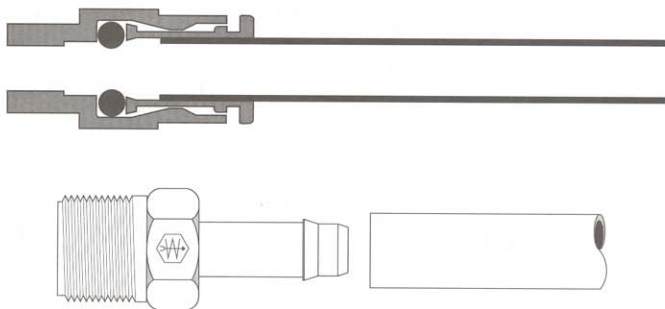


Refer to safety information regarding tubing selection on page 1.



#### • Typical Application

Air brake systems except where temperatures exceed +200°F or where battery acid can drip on tubing. Not for fuel, water or oil.

#### • Pressure

Vacuum to 150 psi.

#### • Vibration

Moderate vibration resistance.

#### • Material

CA360 Brass (Body & Collet), EP (Ethylene Propylene) - O-ring.

#### • Used With

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

#### • Temperature Range

-40°F to +200°F (-40°C to +93°C)

#### • Advantages

Easy, fast assembly, one-piece fitting, reusable Field Serviceable (See collet repair kits, page 58).

#### • Conformance

Meets D.O.T. FMVSS 571.106 and SAE J1131 air brake system performance requirements.

#### • How to Order

Order individually by catalog number (parts are standard with thread sealant).

#### • 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 J2494.

#### • Assembly Instructions

See following page.

#### • Cartridge Information

**Encapsulated** – For insertion into single bore cavity in substitution for pipe thread ports. Meets proposed SAE specifications for encapsulated press in style Air Brake fittings. Note: Weatherhead Encapsulated Cartridges are specifically designed for installation into a thermoplastic (Nylon/Glass filled Nylon/Acetal) or a soft metal (Aluminum/Brass) cavity. For cavity dimensions contact 1-800-336-5005.

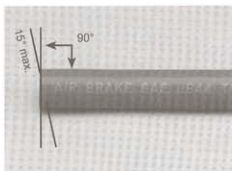
**Four-Step Cartridge** – When you clean sheet a component design, the Four-Step Cartridge is an economical substitute for the encapsulated design. Special order only.

Select the design that is right for you. For applications where manifolds (manufactured from aluminum, plastic and brass) and air tanks (manufactured from steel and plastic composites) are used, contact Weatherhead Technical Support at 1-800-776-3262 for quotes based on your specific requirements and volumes.

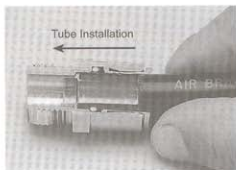
Label Set: **FS-3300** (adhesive)  
**CL-503** (non-adhesive)

**Assembly**

1. Using a tube cutter, make a square cut edge (maximum 15° cutting angle allowed).



2. Insert tubing straight into fitting until a solid stop is felt. The tubing grip and seal (on O-ring) is now accomplished.

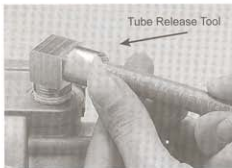


3. Gently tug on tubing to ensure tubing is secure.

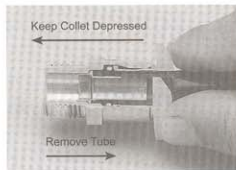


**Disassembly**

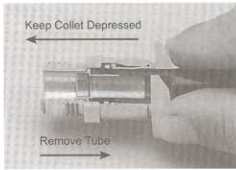
1. Check to be sure there isn't any air pressure.



2. Depress collet head using fingers or Weatherhead® tube-release tool to release grip on tubing.



3. With the collet depressed, pull the tubing from the fitting.

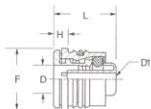


# Quick > Connect® Air Brake

**Brass  
Fittings**

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

## Encapsulated Cartridge

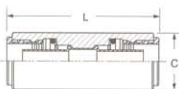


**NOTE:** For design installation reference page 83 under Encapsulated heading.

Tube O.D.	Catalog Number	Dia F	L	D1	D	H
5/32	1861x2.5	.38	.62	.12	.165	.17
3/16	1861x3	.44	.62	.12	.195	.16
1/4	1861x4	.56	.65	.13	.263	.17
3/8	1861x6	.69	.81	.22	.388	.19
1/2	1861x8	.81	.83	.34	.513	.19
5/8	1861x10	.97	.99	.40	.638	.24
3/4	1861x12	1.12	.99	.52	.763	.24

## Union

(Ref. SAE No. AA0101)

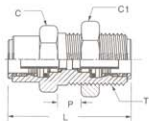


**NOTE:** Joins tubing

Tube O.D.	Catalog Number	Dia C	L
5/32	1862x2.5	.44	1.41
3/16	1862x3	.44	1.62
1/4	1862x4	.53	1.62
3/8	1862x6	.69	1.94
1/2	1862x8	.83	1.96
5/8	1862x10	.96	2.51

## Quick Connect Bulkhead Union

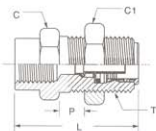
(Ref. SAE No. AA0601)



Tube O.D.	Tread T	Catalog Number	Hex C	Hex C1	L	Max P
1/4	9/16-24	1874x4x4	5/8	11/16	1.62	.47
3/8	3/4-16	1874x6x6	7/8	15/16	1.96	.66
1/2	7/8-14	1874x8x8	1	1	2.00	.83
5/8	1-14	1874x10x10	1	1-1/4	2.42	1.00

## Female Bulkhead Union

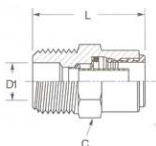
(Ref. SAE No. AA0603)



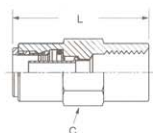
Tube O.D.	Thread T	Female Pipe Thread	Catalog Number	Hex C	Hex C1	L
1/4	9/16-24	1/4	1873x4x4	5/8	11/16	1.45
3/8	3/4-16	3/8	1873x6x6	7/8	15/16	1.59
1/2	1-14	1/2	1873x8x8	1	1-1/4	1.97

BRASS

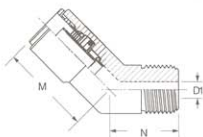
Use with Weatherhead NT100 Air Brake Tubing (SAE J844), see page 33.

**Male Connector**  
 (Ref. SAE No. AA0102)


Tube O.D.	Male Pipe Thread	Catalog Number	Hex C	D1	L
5/32	1/16	1868x2.5x1	3/8	.09	.92
5/32	1/8	1868x2.5	7/16	.25	.92
3/16	1/8	1868x3	1/2	.25	.92
1/4	1/8	1868x4	9/16	.19	.95
1/4	1/4	1868x4x4	9/16	.34	1.18
1/4	3/8	1868x4x6	11/16	.41	1.17
3/8	1/8	1868x6x2	11/16	.19	1.33
3/8	1/4	1868x6	11/16	.31	1.29
3/8	3/8	1868x6x6	11/16	.41	1.27
3/8	1/2	1868x6x8	7/8	.53	1.47
1/2	1/4	1868x8x4	13/16	.31	1.46
1/2	3/8	1868x8	13/16	.41	1.35
1/2	1/2	1868x8x8	7/8	.53	1.50
5/8	3/8	1868x10x6	1	.41	1.72
5/8	1/2	1868x10	1	.53	1.71
3/4	1/2	1868x12	1-1/16	.53	1.72

**Female Connector**  
 (Ref. SAE No. AA0103)


Tube O.D.	Female Pipe Thread	Catalog Number	Hex C	L
1/4	1/8	1866x4	9/16	1.33
1/4	1/4	1866x4x4	11/16	1.58
3/8	1/8	1866x6x2	11/16	1.45
3/8	1/4	1866x6	11/16	1.69
3/8	3/8	1866x6x6	13/16	1.75
1/2	1/4	1866x8x4	13/16	1.66
1/2	3/8	1866x8	13/16	1.73
1/2	1/2	1866x8x8	1	1.97

**45° Male Elbow**  
 (Ref. SAE No. AA0302)


Tube O.D.	Male Pipe Thread	Catalog Number	D1	M	N
1/4	1/8	1880x4	.19	.95	.59
1/4	1/4	1880x4x4	.31	.95	.59
3/8	1/8	1880x6x2	.25	1.05	.48
3/8	1/4	1880x6	.31	1.05	.69
3/8	3/8	1880x6x6	.41	1.10	.63
3/8	1/2	1880x6x8	.53	1.20	.70
1/2	1/4	1880x8x4	.31	1.20	.87
1/2	3/8	1880x8	.41	1.10	.73
1/2	1/2	1880x8x8	.53	1.10	.76
5/8	3/8	1880x10x6	.41	1.25	.82
5/8	1/2	1880x10	.53	1.39	.90
3/4	1/2	1880x12	.53	1.26	.98

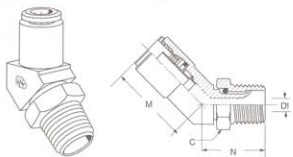
# Quick > Connect<sup>®</sup> Air Brake

**Brass  
Fittings**

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

## 45° Elbow - Swivel Male

(Ref. SAE No. AA03DD)

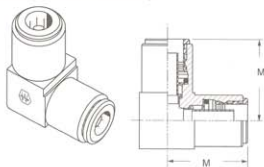


NOTE: Swivel for installation purposes only.

Tube O.D.	Male Pipe Thread	Catalog Number	D1	M	N	Hex C
1/4	1/8	1880x4S	.13	.82	.60	7/16
1/4	1/4	1880x4x4S	.22	.98	.60	9/16
3/8	1/8	1880x6x2S	.13	1.20	.68	7/16
3/8	1/4	1880x6S	.22	1.20	.82	9/16
3/8	3/8	1880x6x6S	.30	1.20	.97	11/16
1/2	1/4	1880x8x4S	.22	1.20	1.20	9/16
1/2	3/8	1880x8S	.30	1.04	1.07	11/16
1/2	1/2	1880x8x8S	.42	1.08	1.22	7/8

## 90° Union Elbow

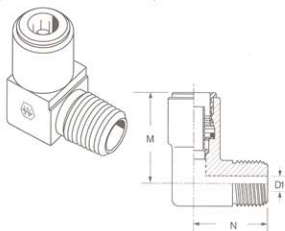
(Ref. SAE No. AA0201)



Tube O.D.	Catalog Number	M
1/4	1865x4	.93
3/8	1865x6	1.15
1/2	1865x8	1.24

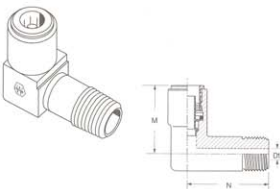
## 90° Male Elbow

(Ref. SAE No. AA0302)



Tube O.D.	Male Pipe Thread	Catalog Number	D1	M	N
5/32	1/16	1869x2.5x1	.13	.75	.59
5/32	1/8	1869x2.5	.19	.75	.59
3/16	1/8	1869x3	.19	.84	.69
1/4	1/8	1869x4	.19	.92	.68
1/4	1/4	1869x4x4	.31	.92	.81
1/4	3/8	1869x4x6	.41	1.03	.82
3/8	1/8	1869x6x2	.19	1.08	.80
3/8	1/4	1869x6	.31	1.13	.96
3/8	3/8	1869x6x6	.41	1.20	.99
3/8	1/2	1869x6x8	.53	1.27	1.07
1/2	1/4	1869x8x4	.31	1.23	1.00
1/2	3/8	1869x8	.41	1.25	.98
1/2	1/2	1869x8x8	.53	1.25	1.11
5/8	3/8	1869x10x6	.41	1.44	1.09
5/8	1/2	1869x10	.53	1.48	1.22

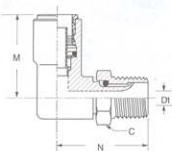
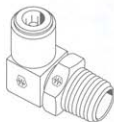
## 90° Male Elbow Long



Tube O.D.	Male Pipe Thread	Catalog Number	D1	M	N
3/8	1/4	1869x6L	.31	1.21	1.55

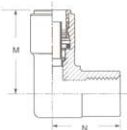
BRASS

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

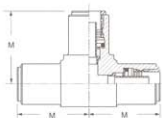
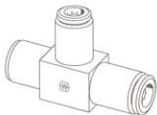
**90° Swivel Male Elbow**  
 (Ref. SAE No. AA02DD)


NOTE: Swivel for installation purposes only.

Tube O.D.	Male Pipe Thread	Catalog Number	D1	M	N	Hex C
1/4	1/8	1869x4S	.13	.89	.88	7/16
1/4	1/4	1869x4x4S	.22	.99	1.06	9/16
1/4	3/8	1869x4x6S	.30	.98	1.06	11/16
3/8	1/8	1869x6x2S	.13	1.03	.97	7/16
3/8	1/4	1869x6S	.22	1.10	1.14	9/16
3/8	3/8	1869x6x6S	.30	1.12	1.15	11/16
3/8	1/2	1869x6x8S	.42	1.18	1.40	7/8
1/2	1/4	1869x8x4S	.22	1.08	1.20	9/16
1/2	3/8	1869x8S	.30	1.13	1.27	11/16
1/2	1/2	1869x8x8S	.42	1.20	1.47	7/8
5/8	3/8	1869x10x6S	.42	1.35	1.34	11/16
5/8	1/2	1869x10S	.42	1.38	1.54	7/8

**90° Female Elbow**  
 (Ref. SAE No. AA0203)


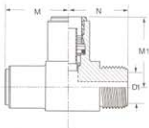
Tube O.D.	Female Pipe Thread	Catalog Number	M	N
1/4	1/8	1870x4	1.03	.83
1/4	1/4	1870x4x4	1.04	.78
3/8	1/8	1870x6x2	1.13	.96
3/8	1/4	1870x6	1.28	1.09
3/8	3/8	1870x6x6	1.21	1.07
1/2	1/4	1870x8x4	1.25	1.11
1/2	3/8	1870x8	1.22	1.11
1/2	1/2	1870x8x8	1.33	1.07

**Union Tee**  
 (Ref. SAE No. AA0401)


Tube O.D.	Catalog Number	M
1/4	1864x4	.93
3/8	1864x6	1.15
1/2	1864x8	1.22

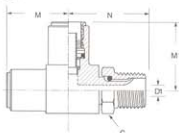
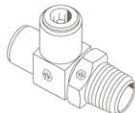
Use with Weatherhead NT100 Air Brake Tubing (SAE J844), see page 33.

### Male Run Tee (Ref. SAE No. AA0424)



Tube O.D.	Male Pipe Thread	Catalog Number	D1	M	M1	N
1/4	1/8	1871x4	.19	.93	.93	.64
1/4	1/4	1871x4x4	.19	.93	.94	.82
3/8	1/4	1871x6	.31	1.14	1.14	.91
3/8	3/8	1871x6x6	.41	1.15	1.15	.91
3/8x1/4	1/4	1871x6x4x4	.31	1.14	1.07	.96
3/8	1/2	1871x6x8	.53	1.09	1.08	1.11
1/2	3/8	1871x8	.41	1.09	1.10	1.22

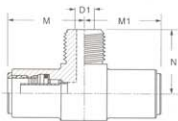
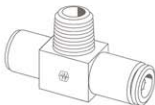
### Swivel Male Run Tee (Ref. SAE No. AA04EE)



NOTE: Swivel for installation purposes only.

Tube O.D.	Male Pipe Thread	Catalog Number	D1	M	M1	N	Hex C
1/4	1/8	1871x4S	.13	.92	.92	.82	7/16
1/4	1/4	1871x4x4S	.22	.93	.92	1.07	9/16
3/8	1/4	1871x6S	.22	1.15	1.15	1.20	9/16
3/8	3/8	1871x6x6S	.30	1.15	1.15	1.20	11/16
1/2	1/4	1871x8x4S	.22	1.21	1.18	1.22	9/16
1/2	3/8	1871x8S	.30	1.21	1.23	1.34	11/16
1/2	1/2	1871x8x8S	.42	1.21	1.19	1.42	7/8

### Male Branch Tee (Ref. SAE No. AA0425)

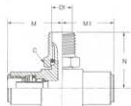
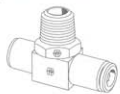


Tube O.D.	Male Pipe Thread	Catalog Number	D1	M	M1	N
3/16	1/8	1872x3	.19	.75	.74	.64
1/4	1/8	1872x4	.19	.93	.93	.64
1/4	1/4	1872x4x4	.19	.93	.93	.82
3/8	1/4	1872x6	.31	1.15	1.15	.91
3/8	3/8	1872x6x6	.31	1.15	1.15	.92
1/2	1/4	1872x8x4	.31	1.22	1.22	.98
1/2	3/8	1872x8	.41	1.24	1.24	.99
1/2	1/2	1872x8x8	.53	1.22	1.22	1.12

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

## Swivel Male Branch Tee

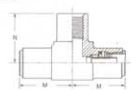
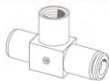
(Ref. SAE No. AA04FF)



NOTE: Swivel for installation purposes only.

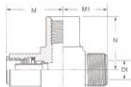
Tube O.D.	Male Pipe Thread	Catalog Number	D1	M	M1	N	Hex C
1/4	1/8	1872x4S	.13	.93	.93	.80	7/16
1/4	1/4	1872x4x4S	.22	.93	.93	1.04	9/16
3/8	1/8	1872x6x2S	.13	1.15	1.15	.94	7/16
3/8	1/4	1872x6S	.22	1.15	1.15	1.14	9/16
3/8	3/8	1872x6x6S	.30	1.15	1.15	1.17	11/16
1/2	1/4	1872x8x4S	.22	1.23	1.23	1.21	9/16
1/2	3/8	1872x8S	.30	1.24	1.24	1.24	11/16
1/2	1/2	1872x8x8S	.42	1.21	1.19	1.42	7/8

## Female Branch Tee



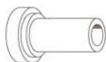
Tube O.D.	Female Pipe Thread	Catalog Number	M	N
3/8	1/4	1877x6	1.16	.78

## Adapter Tee



Tube O.D.	Male Pipe Thread	Female Pipe Thread	Catalog Number	D1	M	N	M1
3/8	3/8	1/4	1883x6x6x4	.41	1.28	1.00	.95

## Plugs, Pressure (Nylon)



Tube O.D.	Catalog Number
1/4	1829x4
3/8	1829x6
1/2	1829x8



## 1800T • Collet Service Tool

The Collet Service Tool, made from sturdy plated steel, is designed to assist in field servicing O-Rings of Q-CAB® fittings. Use the half moon radius section to pry up and remove the collet and use the movable piano wire to remove the O-Ring. Notches are used to mark the tubing with insertion depth in five tubing sizes.



## 1800TRK • Tube Release Kit

The 1800TRK tube release kit is designed to ease the removal of tubing from Q-CAB® fittings. The individual tools are manufactured of a sturdy engineering plastic. All six tube sizes currently offered in Q-CAB® can be serviced with the five tools that make up the 1800TRK kit.

Tube O.D.	Repair Kit Part #
5/32	1800Kx2.5
3/16	1800Kx3
1/4	1800Kx4
3/8	1800Kx6
1/2	1800Kx8
5/8	1800Kx10
3/4	1800Kx12

## Collet Repair Kits

Consisting of a replacement collet and a replacement o-ring, the collet repair kits provide an opportunity to repair damaged Q-CAB® Fittings.