

SPECIFICATIONS

Applications:

Transportation – air brake systems, air suspensions & cabin controls for trucks, trailers, RVs, buses, transit and rail

Configurations:

Push-in, brass pipe or compression-type
 Economical fixed or convenient swivel design
 Specialty fittings available

Material:

CA 377 brass shapes / CA 360 brass straights

Meets:

DOT FMVSS 571.106 / SAE J1131 / J2494-3
 air brake performance requirements

Tubing:

J844 Air Brake Tubing

Options:

Nickel plating / Different O-ring materials
 (based on application or needs)

Sizes:

5/32" to 3/4"

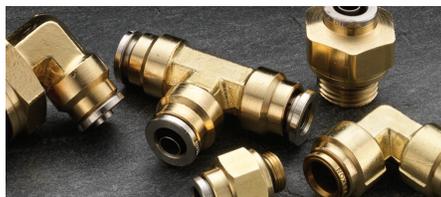
Pressure:

Fittings are designed to handle 200 psi working pressure

Alkon AQ-DOT Push-In Fittings

AQ-DOT push-in fittings provide up to 60% more flow than conventional fittings with internal tube supports and save up to 75% in assembly time.

Alkon AQ-DOT Series meet D.O.T. FMVSS 571.106 Air Brake Performance Requirements; SAE J1131, J2494-1 & J2494-3 Air Brake Performance Requirements.



PRODUCT FEATURES

- ◆ **Positive Seal** - Tube support area beyond "O" ring exceeds that of all competitive products, compensates for bias cut tubing and dramatically reduces troubleshooting time.
- ◆ **Swivel and Fixed Elbows and Tees**
 Convenient swivel threaded fittings that allow close center line installation, eliminating orientation problems. Fixed fittings offer the utmost in economy.
- ◆ **Thread Sealant** - Pre-applied at no charge to all AQ Series male threads. Thread Sealant: Loctite® 516 standard (others available upon request).
- ◆ **Custom Designs** - Alkon offers custom parts on short notice and welcomes these opportunities.

AQ-DOT Customized Fittings

Eliminate leakage paths, reduce inventory items and save assembly labor with Trans-DOT customized fittings.

If you can imagine it, Alkon has the flexibility to deliver. Design assistance is free. Let us help.

Standard (Out of Catalog) and Customized Products

Customized products typically combine other fittings, such as pipe or barbs, with Series AQ push-in fittings. Bodies and straights come in brass and nickel-plated brass. O-ring and thread sealant options are available.



Trans-DOT Push-In Fittings

How to Use Alkon AQ-DOT Push-In Fittings



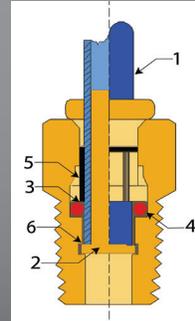
Alkon AQ-DOT push-in fittings are designed for easy use and fast installation.

To connect tube:

Cut the plastic tubing as squarely as possible. Insert the tube into the fitting until you feel the friction as the tube slides past the O-ring. (Using a slight twisting motion while inserting the tube often helps.) Once you feel this friction, continue to push the tube inward until it bottoms firmly against the internal tube stop.

To disconnect tube:

With thumb and forefinger, hold the top of the insert down against the fitting body and, with the other hand, pull out the tubing. No tools are needed.



When tubing (1) is inserted into the fitting, the inside diameter passes over the brass tube support (2). This, combined with the action of the gripper, insures that the air brake hose assembly will safely exceed the tensile requirements of FMVSS-106. The tubing then passes through the gripping teeth (3). The tubing continues beyond the gripping teeth through the inside diameter of

the lubricated "O" ring (4) which seals on the outside diameter of the tubing. The gripping teeth grab the tube. Pulling back on the tube only tightens the grip on the tubing as the insert moves onto the camming surface (5). Pressure through the tube also serves to tighten the grip. The tube bottoms against a positive tube stop (6) in a cavity which keeps tube round to prevent leakage.

Series MAQ-DOT

Metric Air Brake Brass Push-In Fittings Shape Configuration Chart

Use this chart as a guide when placing your order for the Series MAQ-DOT Metric Air Brake Brass Push-In Fittings.

MAQ -DOT - X

SHAPE	TUBE SIZE	SWIVEL	THREAD
62 = Union Connector	4 = 4 mm	Blank = Non Swivel	12 = M12 x 1.5
64 = Union Tee	6 = 6 mm	S = Swivel	16 = M16 x 1.5
68 = Male Connector	8 = 8 mm		22 = M22 x 1.5
69 = Male Elbow	10 = 10 mm		2 = 1/8"
71 = Male Run Tee	12 = 12 mm		4 = 1/4"
72 = Male Branch Tee			6 = 3/8"
82 = Bulkhead Union			8 = 1/2"

THREAD
M = Metric Straight w/ Original Seal
S = Standard NPTF
Blank = Metric BSPT

Series 100 Pipe Fittings

Pressure: 3000 PSI

Material of Shapes: Forged SAE CA377 Brass

Material of Straights: SAE C360 Brass

Meets all SAE brass pipe fittings standards



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