

## D.O.T. PUSH-IN TUBE FITTINGS

**Meets D.O.T. FMVSS 571.106  
SAE J1131 Air Brake System  
Requirements**

### Benefits for Cost Savings & Engineering Project

- **Fast assembly:** No tools required. Simply push tubing in. Saves up to 75% of assembly time compared to standard air compression fittings. No loose parts to handle.
- **Fast disconnect:** Hold the collet collar with two fingers and pull out tube. No tools required.
- **Reusable:** Can be connected and disconnected several times.
- **Reliable sealing:** Using recommended tubing, full sealing is guaranteed.
- **Versatility:** Buna N O'ring standar. Viton and others available per request. Secure Tube Retention. Pulling on tubing only serves to tighten the connection.
- **Pre-Applied Teflon®** based pipe sealant on all male pipe threads, saving customer additional labor.
- **Full Flow Design,** provides more flow area than conventional fittings with internal tube supports even in the swivels.

DOT Fittings are constructed with an all brass captive eyelet which allows for maximum flow. The brass captive eyelet with extended length is floating and has a machined top end radius for easy installation of tubing. All male threads have a pre-applied Teflon\* based pipe sealant to provide for easy assembly and leak proof seal.

• **Materials:**

- CA360 Brass
- "O" Ring: Buna - Nitrile (90 Durometer)
- EP (Ethylene Propylene)

• **Working Pressures & Temperature Ranges:**

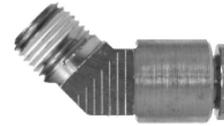
- Vacuum to 750 PSI
- 40° to 200° Fahrenheit

• **Ordering Options:**

The following options are available only by customer request and may be subject to minimum run quantities for ordering.

- \*Viton "O" Ring seals
- Electroless Nickel Plating
- Metric DQ Dot "One-Push" tube fittings with BSPT threads
- Manifolds with DQ DOT One Push Cartridges.

### MALE 45° ELBOW



AQ54DOT  
279 PTMS  
1880  
DQ54DOT

Part #	Tube O.D.	Pipe Thread
823-04-02DOT-PI	1/4	1/8
823-04-04DOT-PI	1/4	1/4
823-06-02DOT-PI	3/8	1/8
823-06-04DOT-PI	3/8	1/4
823-06-06DOT-PI	3/8	3/8
823-06-08DOT-PI	3/8	1/2
823-08-04DOT-PI	1/2	1/4
823-08-06DOT-PI	1/2	3/8
823-08-08DOT-PI	1/2	1/2
823-10-08DOT-PI	5/8	1/2
823-10-06DOT-PI	5/8	3/8
823-12-08DOT-PI	3/4	1/2
823-12-12DOT-PI	3/4	3/4

### MALE 45° SWIVEL ELBOW



AQ54DOTS  
279 PMT  
1880  
DQ54DOTS

Part #	Tube O.D.	Pipe Thread
823-04-02DOTPIR	1/4	1/8
823-04-04DOTPIR	1/4	1/4
823-06-02DOTPIR	3/8	1/8
823-06-04DOTPIR	3/8	1/4
823-06-06DOTPIR	3/8	3/8
823-08-04DOTPIR	1/2	1/4
823-08-06DOTPIR	1/2	3/8
823-08-08DOTPIR	1/2	1/2
823-10-08DOTPIR	5/8	1/2

### PLUG



1829  
DQ59DOT

Part #	A Tube
806-53DOT-PI	5/32
806-04DOT-PI	1/4
806-06DOT-PI	3/8
806-08DOT-PI	1/2

*Fitting Pictures are for reference only.  
Please contact us if specific style is needed.*



### UNION



AQ62DOT  
162 PL  
1862  
DQ62DOT

Part #	Tube O.D.
815-53-53DOT-PI	5/32
815-04-04DOT-PI	1/4
815-06-06DOT-PI	3/8
815-08-08DOT-PI	1/2
815-10-10DOT-PI	5/8
815-12-12DOT-PI	3/4

### UNION TEE



AQ64DOT  
164 PL  
1864  
DQ64DOT

Part #	Tube O.D.
824-53DOT-PI	5/32
824-04DOT-PI	1/4
824-06DOT-PI	3/8
824-08DOT-PI	1/2
824-12DOT-PI	3/4

### UNION ELBOW



AQ65DOT  
165 PL  
1865  
DQ65DOT

Part #	Tube O.D.
821-53DOT-PI	5/32
821-04-04DOT-PI	1/4
821-06-06DOT-PI	3/8
821-08-08DOT-PI	1/2

Spec sheet is available upon request.

### FEMALE CONNECTOR



AQ66DOT  
166 PL  
1866  
DQ66DOT

Part #	Tube O.D.	Pipe Thread
854-53-02DOT-PI	5/32	1/8
854-04-02DOT-PI	1/4	1/8
854-04-04DOT-PI	1/4	1/4
854-05-02DOT-PI	5/16	1/8
854-06-02DOT-PI	3/8	1/8
854-06-04DOT-PI	3/8	1/4
854-06-06DOT-PI	3/8	3/8
854-08-04DOT-PI	1/2	1/4
854-08-06DOT-PI	1/2	3/8
854-08-08DOT-PI	1/2	1/2

### MALE CONNECTOR



AQ68DOT  
168 PL  
1868  
DQ68DOT

Part #	Tube O.D.	Pipe Thread
816-53-32DOT-PI	5/32	10/32
816-53-01DOT-PI	5/32	1/16
816-53-02DOT-PI	5/32	1/8
816-03-02DOT-PI	3/16	1/8
816-04-32DOT-PI	1/4	10/32
816-04-02DOT-PI	1/4	1/8
816-04-04DOT-PI	1/4	1/4
816-04-06DOT-PI	1/4	3/8
816-06-02DOT-PI	3/8	1/8
816-06-04DOT-PI	3/8	1/4
816-06-06DOT-PI	3/8	3/8
816-06-08DOT-PI	3/8	1/2
816-08-04DOT-PI	1/2	1/4
816-08-06DOT-PI	1/2	3/8
816-08-08DOT-PI	1/2	1/2
816-10-06DOT-PI	5/8	3/8
816-10-08DOT-PI	5/8	1/2
816-12-08DOT-PI	3/4	1/2
816-12-12DOT-PI	3/4	3/4

### MALE ELBOW



AQ69DOT  
169 PLNS  
1869  
DQ69DOT

Part #	Tube O.D.	Pipe Thread
822-53-01DOT-PI	5/32	1/16
822-53-02DOT-PI	5/32	1/8
822-03-02DOT-PI	3/16	1/8
822-04-02DOT-PI	1/4	1/8
822-04-04DOT-PI	1/4	1/4
822-04-06DOT-PI	1/4	3/8
822-06-02DOT-PI	3/8	1/8
822-06-04DOT-PI	3/8	1/4
822-06-06DOT-PI	3/8	3/8
822-06-08DOT-PI	3/8	1/2
822-08-04DOT-PI	1/2	1/4
822-08-06DOT-PI	1/2	3/8
822-08-08DOT-PI	1/2	1/2
822-10-06DOT-PI	5/8	3/8
822-10-08DOT-PI	5/8	1/2
822-12-08DOT-PI	3/4	1/2
822-12-12DOT-PI	3/4	3/4

### MALE SWIVEL ELBOW



AQ69DOTS  
169 PL  
1869  
DQ69DOTS

Part #	Tube O.D.	Pipe Thread
822-53-32DOTPIR	5/32	10/32
822-04-32DOTPIR	1/4	10/32
822-04-02DOTPIR	1/4	1/8
822-02-02DOTPIR	1/4	1/4
822-04-06DOTPIR	1/4	3/8
822-06-02DOTPIR	3/8	1/8
822-06-04DOTPIR	3/8	1/4
822-06-06DOTPIR	3/8	3/8
822-06-08DOTPIR	3/8	1/2
822-08-04DOTPIR	1/2	1/4
822-08-06DOTPIR	1/2	3/8
822-08-08DOTPIR	1/2	1/2
822-10-06DOTPIR	5/8	3/8
822-10-08DOTPIR	5/8	1/2
822-12-08DOTPIR	3/4	1/2
822-12-12DOTPIR	3/4	3/4

### FEMALE ELBOW



AQ70DOTS  
1870  
DQ70DOTS

Part #	Tube O.D.	Pipe Thread
855-53-02DOT-PI	5/32	1/8
855-04-02DOT-PI	1/4	1/8
855-04-04DOT-PI	1/4	1/4
855-04-06DOT-PI	1/4	3/8
855-06-02DOT-PI	3/8	1/8
855-06-04DOT-PI	3/8	1/4
855-06-06DOT-PI	3/8	3/8
855-08-04DOT-PI	1/2	1/4
855-08-06DOT-PI	1/2	3/8
855-08-08DOT-PI	1/2	1/2

### FEMALE SWIVEL ELBOW



AQ70DOTS  
DQ70DOTS

Part #	Tube O.D.	Pipe Thread
855-53-02DOTPIR	5/32	1/8
855-04-02DOTPIR	1/4	1/8
855-04-04DOTPIR	1/4	1/4
855-06-04DOTPIR	3/8	1/4
855-06-06DOTPIR	3/8	3/8

Fitting Pictures are for reference only.  
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**MALE RUN TEE**



AQ71DOTS  
171 PL  
1871  
DQ71DOTS

Part #	Tube O.D.	Pipe Thread
826-53-02DOT-PI	5/32	1/8
826-04-02DOT-PI	1/4	1/8
826-04-04DOT-PI	1/4	1/4
826-06-02DOT-PI	3/8	1/8
826-06-04DOT-PI	3/8	1/4
826-06-06DOT-PI	3/8	3/8
826-06-08DOT-PI	3/8	1/2
826-08-06DOT-PI	1/2	3/8

**MALE SWIVEL RUN TEE**



AQ71DOTS  
171 PL  
1871  
DQ71DOTS

Part #	Tube O.D.	Pipe Thread
826-53-02DOTPIR	5/32	1/8
826-04-02DOTPIR	1/4	1/8
826-04-04DOTPIR	1/4	1/4
826-06-04DOTPIR	3/8	1/4
826-06-06DOTPIR	3/8	3/8
826-08-04DOTPIR	1/2	1/4
826-08-06DOTPIR	1/2	3/8
826-08-08DOTPIR	1/2	1/2

**MALE BRANCH TEE**



AQ72DOT  
172 PL  
1872  
DQ72DOT

Part #	Tube O.D.	Pipe Thread
825-53-02DOT-PI	5/32	1/8
825-03-02DOT-PI	3/16	1/8
825-04-02DOT-PI	1/4	1/8
825-04-04DOT-PI	1/4	1/4
825-04-06DOT-PI	1/4	3/8
825-06-02DOT-PI	3/8	1/8
825-06-04DOT-PI	3/8	1/4
825-06-06DOT-PI	3/8	3/8
825-08-04DOT-PI	1/2	1/4
825-08-06DOT-PI	1/2	3/8
825-08-08DOT-PI	1/2	1/2

**MALE SWIVEL BRANCH TEE**



AQ72DOTS  
172 PL  
1872  
DQ72DOTS

Part #	Tube O.D.	Pipe Thread
825-53-32DOTPIR	5/32	10/32
825-53-02DOTPIR	5/32	1/8
825-04-32DOTPIR	1/4	10/32
825-04-02DOTPIR	1/4	1/8
825-04-04DOTPIR	1/4	1/4
825-04-06DOTPIR	1/4	3/8
825-06-02DOTPIR	3/8	1/8
825-06-04DOTPIR	3/8	1/4
825-06-06DOTPIR	3/8	3/8
825-08-04DOTPIR	1/2	1/4
825-08-06DOTPIR	1/2	3/8
825-08-08DOTPIR	1/2	1/2

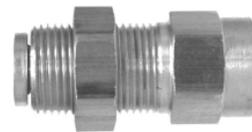
**BULKHEAD UNION**



AQ82DOT  
62PLBH  
1874  
DQ82DOT

Part #	Tube O.D.
832-04-04DOT-PI	1/4
832-06-06DOT-PI	3/8
832-08-08DOT-PI	1/2
832-10-10DOT-PI	5/8

**FEMALE BULKHEAD UNION**



AQ86DOT  
1873  
DQ86DOT

Part #	Tube O.D.	Pipe Thread
860402	1/4	1/8
860404	1/4	1/4
860604	3/8	1/4
860606	3/8	3/8
860808	1/2	1/2

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**Brass**

