

# ***Kuri Tec***<sup>®</sup>

## ***ENDURE***<sup>™</sup>

### *Air Brake Tubing and Fittings*



***BUILT FOR THE  
LONG HAUL***



**KURIYAMA**  
OF AMERICA, INC.

EDITION 0622



## **ENDURE™**

### **151 Series (Type B), 251 Series (Type A) DOT Air Brake Tubing**

#### **General Applications:**

- Auxiliary air systems
- Trailer air brake systems
- Truck, bus and commercial vehicle air brake systems

**Construction:** Specially designed polyester compounds

**Service Temperature Range:** -40°F (-40°C) to +200°F (+93°C)

#### **Features and Advantages:**

- **Superior Flexibility** – Highly engineered polyester material exhibits improved flexibility versus traditional nylon tubing.
- **Excellent Resistance** – Excellent resistance to abrasion, gasoline, diesel fuel, road salt and deicing compounds.
- **Industry Leading Impact Strength and Vibration Cracking Resistance** – Engineered formulation retains its flexibility and resists impact cracking in both high heat and sub-zero cold weather conditions; providing longer service life than traditional nylon tubing.
- **Exceeds Industry Performance Standards** – Far surpasses traditional nylon tubing for heat aging and heated oil aging, while retaining its superior performance and flexibility over lower temperatures than traditional nylon tubing.
- **Easy Installation** – Greater flexibility allows for easier installation reducing time, effort and installer fatigue.
- **Weather Resistant** – Heat and light stabilized for superior UV resistance and long service life. Resists the cracking that can result from damaging UV light.

#### **Compliances:**

- Meets and exceeds DOT FMVSS 106
- Meets and exceeds performance requirements of SAE J844



Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

### Part Numbering System

**151 BK - 06 x 500**

| Type |                | Color |        | OD Size |       | Length |          |
|------|----------------|-------|--------|---------|-------|--------|----------|
| 251  | Non-Reinforced | BK    | Black  | 02      | 1/8"  | 100    | 100 ft   |
| 151  | Reinforced     | BL    | Blue   | 02.5    | 5/32" | 250    | 250 ft   |
|      |                | GR    | Green  | 03      | 3/16" | 500    | 500 ft   |
|      |                | OR    | Orange | 04      | 1/4"  | 1K     | 1,000 ft |
|      |                | RD    | Red    | 05      | 5/16" | 2K     | 2,000 ft |
|      |                | YE    | Yellow | 06      | 3/8"  |        |          |
|      |                |       |        | 08      | 1/2"  |        |          |
|      |                |       |        | 10      | 5/8"  |        |          |
|      |                |       |        | 12      | 3/4"  |        |          |



### 251 Series (Type A) Endure™ Non-Reinforced Air Brake Tubing

#### Nominal Specifications

| Series Number | Size Code | Nominal OD (in) | Nominal ID (in) | Nominal Wall (in) | Min. Burst Pressure (psi) at 70°F (20°C) | Min. Bend Radius (in) at 70°F (20°C) | Standard Lengths (ft) |      | Package Weight (lbs) |      |
|---------------|-----------|-----------------|-----------------|-------------------|--|--------------------------------------|-----------------------|------|----------------------|------|
|               |           |                 |                 |                   |  |                                      | Spool                 | Coil | Spool                | Coil |
| 251XX         | 02        | 1/8             | 0.079           | 0.023             | 1,000                                    | 0.37                                 | 2,000                 | 100  | 8.0                  | 0.4  |
| 251XX         | 02.5      | 5/32            | 0.092           | 0.032             | 1,200                                    | 0.50                                 | 1,000                 | 100  | 7.0                  | 0.7  |
| 251XX         | 03        | 3/16            | 0.117           | 0.035             | 1,200                                    | 0.75                                 | 1,000                 | 100  | 9.5                  | 1.0  |
| 251XX         | 04        | 1/4             | 0.170           | 0.040             | 1,200                                    | 1.00                                 | 1,000                 | 100  | 14.5                 | 1.5  |
| 251XX         | 05        | 5/16            | 0.232           | 0.040             | 1,000                                    | 1.25                                 | 500                   | 100  | 9.5                  | 1.9  |

**Color Codes (XX):** BK = Black, BL = Blue, GR = Green, OR = Orange, RD = Red, YE = Yellow

### 151 Series (Type B) Endure™ Reinforced Air Brake Tubing

#### Nominal Specifications

| Series Number | Size Code | Nominal OD (in) | Nominal ID (in) | Nominal Wall (in) | Min. Burst Pressure (psi) at 70°F (20°C) | Min. Bend Radius (in) at 70°F (20°C) | Standard Lengths (ft) |      | Package Weight (lbs) |      |
|---------------|-----------|-----------------|-----------------|-------------------|--|--------------------------------------|-----------------------|------|----------------------|------|
|               |           |                 |                 |                   |  |                                      | Spool                 | Coil | Spool                | Coil |
| 151XX         | 06        | 3/8             | 0.251           | 0.062             | 1,400                                    | 1.5                                  | 500                   | 100  | 17.0                 | 3.4  |
| 151XX         | 08        | 1/2             | 0.376           | 0.062             | 950                                      | 2.5                                  | 500                   | 100  | 23.0                 | 4.6  |
| 151XX         | 10        | 5/8             | 0.441           | 0.094             | 900                                      | 3.0                                  | 250                   | 100  | 22.0                 | 8.8  |
| 151XX         | 12        | 3/4             | 0.566           | 0.094             | 850                                      | 3.5                                  | 250                   | 100  | 27.0                 | 10.8 |

**Color Codes (XX):** BK = Black, BL = Blue, GR = Green, OR = Orange, RD = Red, YE = Yellow

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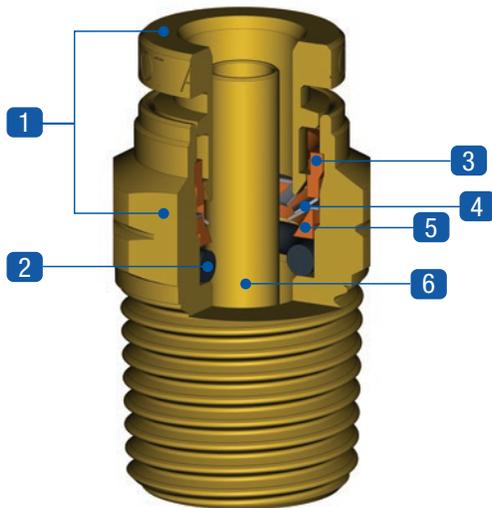
## ENDURE™ Push-To-Connect Fittings

### General Applications:

- Pneumatic circuits for truck and trailers: air suspension, braking systems, transmissions, locking doors and windows, seat adjustment, instrumentation, air conditioning systems, horn, wiper motors, valves, cylinders and accessories.
- Suitable for all air assisted applications except those designed for use between frame and axle or between towed and towing vehicles.

### Construction:

Brass housing with polyethylene holding ring and nitrile (NBR) seals.



- 1 **Body and Release** – Brass UNI EN 12164 CW614N - UNI EN 12165 CW617N
- 2 **Seals** – NBR (Low Temperature)
- 3 **Holding Ring** – Resin (PEI)
- 4 **Gripping Collet** – Stainless Steel AISI 301
- 5 **Protection Ring** – Resin (PEI)
- 6 **Tube** – Tube Support (in)

### Recommended Tubing:

Designed to work with Endure™ Air Brake tubing or other tubing that complies with DOT FMVSS 106 and meets the performance requirements of SAE J844.

**Max. Pressure:** 290 PSI

**Vacuum Rating:** 29 inHg

**Temperature Range:**  
-58°F (-50°C) to +212°F (+100°C)

### Available Fitting Sizes

| Tubing Size | NPTF |      |      |      |      |
|-------------|------|------|------|------|------|
|             | 1/8" | 1/4" | 3/8" | 1/2" | 3/4" |
| 1/4"        | X    | X    | X    |      |      |
| 3/8"        | X    | X    | X    | X    |      |
| 1/2"        |      | X    | X    | X    |      |
| 5/8"        |      |      | X    | X    | X    |
| 3/4"        |      |      |      | X    | X    |

### Part Numbering System

**DOT-BR MC-06 04**

Endure™ DOT

Brass

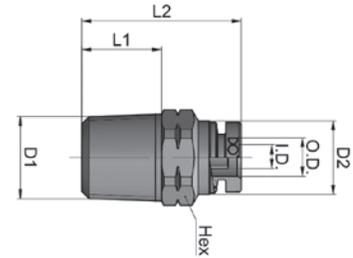
| Fitting Style |                        |
|---------------|------------------------|
| MC            | Male Connector         |
| FC            | Female Connector       |
| ME90          | Male Elbow 90°         |
| ME90S         | Male Elbow 90° Swivel  |
| ME45S         | Male Elbow 45° Swivel  |
| MBTS          | Male Branch Tee Swivel |
| MRTS          | Male Run Tee Swivel    |
| UN            | Union                  |
| BH            | Bulk Head Union        |
| UNE90         | Union Elbow 90°        |
| UNT           | Union Tee              |

| Size: Tube |      |
|------------|------|
| 04         | 1/4" |
| 06         | 3/8" |
| 08         | 1/2" |
| 10         | 5/8" |
| 12         | 3/4" |

| Size: NPT/Tube |      |
|----------------|------|
| 02             | 1/8" |
| 04             | 1/4" |
| 06             | 3/8" |
| 08             | 1/2" |
| 10             | 5/8" |
| 12             | 3/4" |

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### Straight Fittings



#### Male Straight

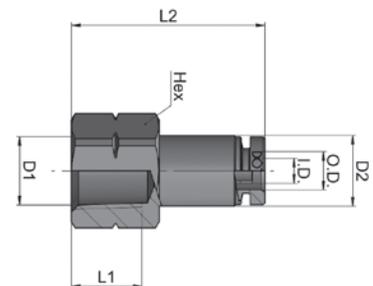
DOT-BRMC Series

#### Nominal Specifications

| Part Number   | Description                 | Tube OD (in) | Tube† ID (in) | D1 NPTF (in) | D2 (in) | L1 (in) | L2 (in) | HEX (in) | Weight Each (lbs) | *Pieces Per Package |
|---------------|-----------------------------|--------------|---------------|--------------|---------|---------|---------|----------|-------------------|---------------------|
| DOT-BRMC-0402 | MALE CONN 1/4 TB X 1/8 NPTF | 1/4          | .165          | 1/8          | 0.472   | .335    | 0.925   | 1/2      | 0.026             | 25                  |
| DOT-BRMC-0404 | MALE CONN 1/4 TB X 1/4 NPTF | 1/4          | .165          | 1/4          | 0.472   | .512    | 1.024   | 9/16     | 0.044             | 25                  |
| DOT-BRMC-0406 | MALE CONN 1/4 TB X 3/8 NPTF | 1/4          | .165          | 3/8          | 0.472   | .512    | 1.063   | 11/16    | 0.074             | 25                  |
| DOT-BRMC-0602 | MALE CONN 3/8 TB X 1/8 NPTF | 3/8          | .244          | 1/8          | 0.630   | .335    | 1.161   | 11/16    | 0.053             | 25                  |
| DOT-BRMC-0604 | MALE CONN 3/8 TB X 1/4 NPTF | 3/8          | .244          | 1/4          | 0.630   | .512    | 1.299   | 11/16    | 0.067             | 25                  |
| DOT-BRMC-0606 | MALE CONN 3/8 TB X 3/8 NPTF | 3/8          | .244          | 3/8          | 0.630   | .512    | 1.043   | 11/16    | 0.063             | 25                  |
| DOT-BRMC-0608 | MALE CONN 3/8 TB X 1/2 NPTF | 3/8          | .244          | 1/2          | 0.630   | .669    | 1.240   | 7/8      | 0.133             | 25                  |
| DOT-BRMC-0804 | MALE CONN 1/2 TB X 1/4 NPTF | 1/2          | .362          | 1/4          | 0.787   | .512    | 1.406   | 13/16    | 0.089             | 25                  |
| DOT-BRMC-0806 | MALE CONN 1/2 TB X 3/8 NPTF | 1/2          | .362          | 3/8          | 0.787   | .512    | 1.209   | 13/16    | 0.077             | 25                  |
| DOT-BRMC-0808 | MALE CONN 1/2 TB X 1/2 NPTF | 1/2          | .362          | 1/2          | 0.787   | .669    | 1.248   | 7/8      | 0.112             | 25                  |
| DOT-BRMC-1006 | MALE CONN 5/8 TB X 3/8 NPTF | 5/8          | .433          | 3/8          | 0.925   | .512    | 1.555   | 1        | 0.156             | 10                  |
| DOT-BRMC-1008 | MALE CONN 5/8 TB X 1/2 NPTF | 5/8          | .433          | 1/2          | 0.925   | .669    | 1.496   | 1        | 0.141             | 10                  |
| DOT-BRMC-1208 | MALE CONN 3/4 TB X 1/2 NPTF | 3/4          | .559          | 1/2          | 1.043   | .669    | 1.791   | 1 1/16   | 0.191             | 10                  |
| DOT-BRMC-1212 | MALE CONN 3/4 TB X 3/4 NPTF | 3/4          | .559          | 3/4          | 1.043   | .669    | 1.535   | 1 1/16   | 0.197             | 10                  |

† Note: The "Tube ID (in)" column heading refers to "Tube Support ID (in)"

\*Only sold in package quantities



#### Female Straight

DOT-BRFC Series

#### Nominal Specifications

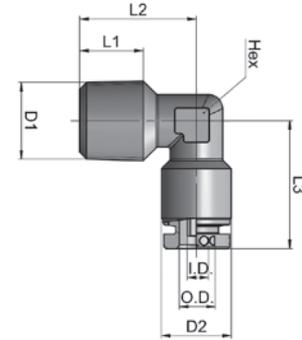
| Part Number   | Description                   | Tube OD (in) | Tube† ID (in) | D1 NPTF (in) | D2 (in) | L1 (in) | L2 (in) | HEX (in) | Weight Each (lbs) | *Pieces Per Package |
|---------------|-------------------------------|--------------|---------------|--------------|---------|---------|---------|----------|-------------------|---------------------|
| DOT-BRFC-0402 | FEMALE CONN 1/4 TB X 1/8 NPTF | 1/4          | .165          | 1/8          | .472    | .335    | 1.122   | 1/2      | 0.035             | 25                  |
| DOT-BRFC-0404 | FEMALE CONN 1/4 TB X 1/4 NPTF | 1/4          | .165          | 1/4          | .472    | .492    | 1.299   | 11/16    | 0.063             | 25                  |
| DOT-BRFC-0604 | FEMALE CONN 3/8 TB X 1/4 NPTF | 3/8          | .244          | 1/4          | .630    | .492    | 1.378   | 11/16    | 0.049             | 25                  |
| DOT-BRFC-0606 | FEMALE CONN 3/8 TB X 3/8 NPTF | 3/8          | .244          | 3/8          | .630    | .492    | 1.378   | 13/16    | 0.089             | 25                  |
| DOT-BRFC-0608 | FEMALE CONN 3/8 TB X 1/2 NPTF | 3/8          | .244          | 1/2          | .630    | .492    | 1.516   | 1        | 0.138             | 25                  |
| DOT-BRFC-0806 | FEMALE CONN 1/2 TB X 3/8 NPTF | 1/2          | .362          | 3/8          | .787    | .472    | 1.445   | 13/16    | 0.116             | 25                  |
| DOT-BRFC-0808 | FEMALE CONN 1/2 TB X 1/2 NPTF | 1/2          | .362          | 1/2          | .787    | .472    | 1.543   | 1        | 0.096             | 25                  |

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## Elbow Fittings



### Male Elbow 90°

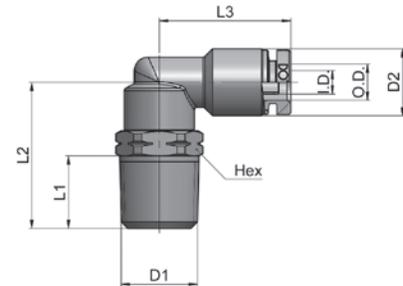
DOT-BRME90 Series

#### Nominal Specifications

| Part Number     | Description                   | Tube OD (in) | Tube† ID (in) | D1 NPTF (in) | D2 (in) | L1 (in) | L2 (in) | L3 (in) | HEX (mm) | Weight Each (lbs) | *Pieces Per Package |
|-----------------|-------------------------------|--------------|---------------|--------------|---------|---------|---------|---------|----------|-------------------|---------------------|
| DOT-BRME90-0402 | MALE ELB 90 1/4 TB X 1/8 NPTF | 1/4          | .165          | 1/8          | .472    | .331    | .630    | 0.866   | 10       | 0.032             | 25                  |
| DOT-BRME90-0404 | MALE ELB 90 1/4 TB X 1/4 NPTF | 1/4          | .165          | 1/4          | .472    | .433    | .787    | 0.866   | 10       | 0.044             | 25                  |
| DOT-BRME90-0604 | MALE ELB 90 3/8 TB X 1/4 NPTF | 3/8          | .244          | 1/4          | .630    | .472    | .886    | 1.024   | 14       | 0.072             | 25                  |
| DOT-BRME90-0606 | MALE ELB 90 3/8 TB X 3/8 NPTF | 3/8          | .244          | 3/8          | .630    | .433    | .886    | 1.024   | 14       | 0.079             | 25                  |

† Note: The “Tube ID (in)” column heading refers to “Tube Support ID (in)”

\*Only sold in package quantities



### Male Elbow 90° Swivel

DOT-BRME90S Series

#### Nominal Specifications

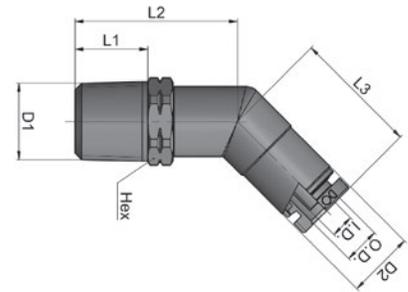
| Part Number      | Description                          | Tube OD (in) | Tube† ID (in) | D1 NPTF (in) | D2 (in) | L1 (in) | L2 (in) | L3 (in) | HEX (in) | Weight Each (lbs) | *Pieces Per Package |
|------------------|--------------------------------------|--------------|---------------|--------------|---------|---------|---------|---------|----------|-------------------|---------------------|
| DOT-BRME90S-0402 | MALE ELB 90 SWIVEL 1/4 TB X 1/8 NPTF | 1/4          | .165          | 1/8          | 0.472   | .335    | 0.835   | 0.925   | 1/2      | 0.046             | 25                  |
| DOT-BRME90S-0404 | MALE ELB 90 SWIVEL 1/4 TB X 1/4 NPTF | 1/4          | .165          | 1/4          | 0.472   | .512    | 1.031   | 0.925   | 9/16     | 0.056             | 25                  |
| DOT-BRME90S-0406 | MALE ELB 90 SWIVEL 1/4 TB X 3/8 NPTF | 1/4          | .165          | 3/8          | 0.472   | .512    | 1.051   | 0.925   | 11/16    | 0.071             | 25                  |
| DOT-BRME90S-0602 | MALE ELB 90 SWIVEL 3/8 TB X 1/8 NPTF | 3/8          | .244          | 1/8          | 0.630   | .335    | 0.945   | 1.063   | 11/16    | 0.091             | 25                  |
| DOT-BRME90S-0604 | MALE ELB 90 SWIVEL 3/8 TB X 1/4 NPTF | 3/8          | .244          | 1/4          | 0.630   | .512    | 1.122   | 1.063   | 11/16    | 0.091             | 25                  |
| DOT-BRME90S-0606 | MALE ELB 90 SWIVEL 3/8 TB X 3/8 NPTF | 3/8          | .244          | 3/8          | 0.630   | .512    | 1.122   | 1.063   | 11/16    | 0.091             | 25                  |
| DOT-BRME90S-0608 | MALE ELB 90 SWIVEL 3/8 TB X 1/2 NPTF | 3/8          | .244          | 1/2          | 0.630   | .669    | 1.339   | 1.063   | 7/8      | 0.091             | 25                  |
| DOT-BRME90S-0804 | MALE ELB 90 SWIVEL 1/2 TB X 1/4 NPTF | 1/2          | .362          | 1/4          | 0.787   | .512    | 1.260   | 1.169   | 13/16    | 0.162             | 25                  |
| DOT-BRME90S-0806 | MALE ELB 90 SWIVEL 1/2 TB X 3/8 NPTF | 1/2          | .362          | 3/8          | 0.787   | .512    | 1.260   | 1.169   | 13/16    | 0.151             | 25                  |
| DOT-BRME90S-0808 | MALE ELB 90 SWIVEL 1/2 TB X 1/2 NPTF | 1/2          | .362          | 1/2          | 0.787   | .669    | 1.437   | 1.169   | 7/8      | 0.181             | 25                  |
| DOT-BRME90S-1008 | MALE ELB 90 SWIVEL 5/8 TB X 1/2 NPTF | 5/8          | .433          | 1/2          | 0.945   | .669    | 1.555   | 1.417   | 7/8      | 0.241             | 10                  |
| DOT-BRME90S-1012 | MALE ELB 90 SWIVEL 5/8 TB X 3/4 NPTF | 5/8          | .433          | 3/4          | 0.945   | .669    | 1.555   | 1.417   | 1 1/16   | 0.275             | 10                  |
| DOT-BRME90S-1208 | MALE ELB 90 SWIVEL 3/4 TB X 1/2 NPTF | 3/4          | .559          | 1/2          | 1.063   | .669    | 1.555   | 1.496   | 7/8      | 0.288             | 10                  |
| DOT-BRME90S-1212 | MALE ELB 90 SWIVEL 3/4 TB X 3/4 NPTF | 3/4          | .559          | 3/4          | 1.063   | .669    | 1.555   | 1.496   | 1 1/16   | 0.325             | 10                  |

† Note: The “Tube ID (in)” column heading refers to “Tube Support ID (in)”

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### Elbow Fittings



### Male Elbow 45° Swivel

DOT-BRME45S Series

#### Nominal Specifications

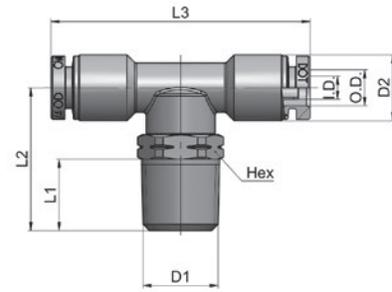
| Part Number      | Description                          | Tube OD (in) | Tube† ID (in) | D1 NPTF (in) | D2 (in) | L1 (in) | L2 (in) | L3 (in) | HEX (in) | Weight Each (lbs) | *Pieces Per Package |
|------------------|--------------------------------------|--------------|---------------|--------------|---------|---------|---------|---------|----------|-------------------|---------------------|
| DOT-BRME45S-0402 | MALE ELB 45 SWIVEL 1/4 TB X 1/8 NPTF | 1/4          | .165          | 1/8          | .472    | .335    | 0.906   | 0.886   | 1/2      | 0.059             | 25                  |
| DOT-BRME45S-0404 | MALE ELB 45 SWIVEL 1/4 TB X 1/4 NPTF | 1/4          | .165          | 1/4          | .472    | .512    | 1.102   | 0.886   | 9/16     | 0.072             | 25                  |
| DOT-BRME45S-0604 | MALE ELB 45 SWIVEL 3/8 TB X 1/4 NPTF | 3/8          | .244          | 1/4          | .630    | .512    | 1.142   | 1.024   | 11/16    | 0.116             | 25                  |
| DOT-BRME45S-0606 | MALE ELB 45 SWIVEL 3/8 TB X 3/8 NPTF | 3/8          | .244          | 3/8          | .630    | .512    | 1.161   | 1.024   | 11/16    | 0.119             | 25                  |
| DOT-BRME45S-0608 | MALE ELB 45 SWIVEL 3/8 TB X 1/2 NPTF | 3/8          | .244          | 1/2          | .630    | .669    | 1.378   | 1.024   | 7/8      | 0.159             | 25                  |
| DOT-BRME45S-0806 | MALE ELB 45 SWIVEL 1/2 TB X 3/8 NPTF | 1/2          | .362          | 3/8          | .787    | .512    | 1.260   | 1.130   | 13/16    | 0.172             | 25                  |
| DOT-BRME45S-0808 | MALE ELB 45 SWIVEL 1/2 TB X 1/2 NPTF | 1/2          | .362          | 1/2          | .787    | .669    | 1.437   | 1.130   | 7/8      | 0.200             | 25                  |

† Note: The "Tube ID (in)" column heading refers to "Tube Support ID (in)"

\*Only sold in package quantities

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## Tee Fittings



### Male Branch Tee Swivel

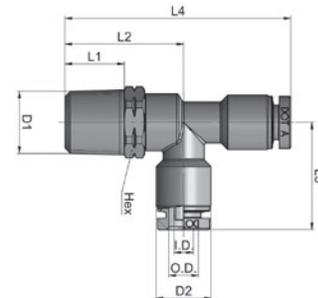
DOT-BRMBTS Series

#### Nominal Specifications

| Part Number     | Description                          | Tube OD (in) | Tube <sup>†</sup> ID (in) | D1 NPTF (in) | D2 (in) | L1 (in) | L2 (in) | L3 (in) | HEX (in) | Weight Each (lbs) | *Pieces Per Package |
|-----------------|--------------------------------------|--------------|---------------------------|--------------|---------|---------|---------|---------|----------|-------------------|---------------------|
| DOT-BRMBTS-0402 | MALE BR TEE SWIVEL 1/4 TB X 1/8 NPTF | 1/4          | .165                      | 1/8          | .472    | .335    | 0.835   | 1.850   | 1/2      | 0.064             | 25                  |
| DOT-BRMBTS-0404 | MALE BR TEE SWIVEL 1/4 TB X 1/4 NPTF | 1/4          | .165                      | 1/4          | .472    | .512    | 1.031   | 1.850   | 9/16     | 0.075             | 25                  |
| DOT-BRMBTS-0406 | MALE BR TEE SWIVEL 1/4 TB X 3/8 NPTF | 1/4          | .165                      | 3/8          | .472    | .512    | 1.051   | 1.850   | 11/16    | 0.091             | 25                  |
| DOT-BRMBTS-0604 | MALE BR TEE SWIVEL 3/8 TB X 1/4 NPTF | 3/8          | .244                      | 1/4          | .630    | .512    | 1.122   | 2.126   | 11/16    | 0.134             | 25                  |
| DOT-BRMBTS-0606 | MALE BR TEE SWIVEL 3/8 TB X 3/8 NPTF | 3/8          | .244                      | 3/8          | .630    | .512    | 1.122   | 2.126   | 11/16    | 0.135             | 25                  |
| DOT-BRMBTS-0608 | MALE BR TEE SWIVEL 3/8 TB X 1/2 NPTF | 3/8          | .244                      | 1/2          | .630    | .669    | 1.339   | 2.126   | 7/8      | 0.178             | 25                  |
| DOT-BRMBTS-0804 | MALE BR TEE SWIVEL 1/2 TB X 1/4 NPTF | 1/2          | .362                      | 1/4          | .787    | .512    | 1.260   | 2.339   | 13/16    | 0.213             | 25                  |
| DOT-BRMBTS-0806 | MALE BR TEE SWIVEL 1/2 TB X 3/8 NPTF | 1/2          | .362                      | 3/8          | .787    | .512    | 1.260   | 2.339   | 13/16    | 0.201             | 25                  |
| DOT-BRMBTS-0808 | MALE BR TEE SWIVEL 1/2 TB X 1/2 NPTF | 1/2          | .362                      | 1/2          | .787    | .669    | 1.437   | 2.339   | 7/8      | 0.228             | 25                  |

† Note: The "Tube ID (in)" column heading refers to "Tube Support ID (in)"

\*Only sold in package quantities



### Male Run Tee Swivel

DOT-BRMRTS Series

#### Nominal Specifications

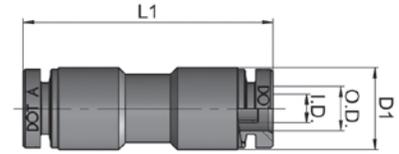
| Part Number     | Description                          | Tube OD (in) | Tube <sup>†</sup> ID (in) | D1 NPTF (in) | D2 (in) | L1 (in) | L2 (in) | L3 (in) | L4 (in) | HEX (in) | Weight Each (lbs) | *Pieces Per Package |
|-----------------|--------------------------------------|--------------|---------------------------|--------------|---------|---------|---------|---------|---------|----------|-------------------|---------------------|
| DOT-BRMRTS-0402 | MALE RN TEE SWIVEL 1/4 TB X 1/8 NPTF | 1/4          | .165                      | 1/8          | .472    | .335    | 0.835   | 0.925   | 1.752   | 1/2      | 0.076             | 25                  |
| DOT-BRMRTS-0404 | MALE RN TEE SWIVEL 1/4 TB X 1/4 NPTF | 1/4          | .165                      | 1/4          | .472    | .512    | 1.031   | 0.925   | 1.949   | 9/16     | 0.074             | 25                  |
| DOT-BRMRTS-0406 | MALE RN TEE SWIVEL 1/4 TB X 3/8 NPTF | 1/4          | .165                      | 3/8          | .472    | .512    | 1.051   | 0.925   | 1.969   | 11/16    | 0.091             | 25                  |
| DOT-BRMRTS-0604 | MALE RN TEE SWIVEL 3/8 TB X 1/4 NPTF | 3/8          | .244                      | 1/4          | .630    | .512    | 1.122   | 1.063   | 2.185   | 11/16    | 0.132             | 25                  |
| DOT-BRMRTS-0606 | MALE RN TEE SWIVEL 3/8 TB X 3/8 NPTF | 3/8          | .244                      | 3/8          | .630    | .512    | 1.122   | 1.063   | 2.185   | 11/16    | 0.135             | 25                  |
| DOT-BRMRTS-0608 | MALE RN TEE SWIVEL 3/8 TB X 1/2 NPTF | 3/8          | .244                      | 1/2          | .630    | .669    | 1.339   | 1.063   | 2.402   | 7/8      | 0.134             | 25                  |
| DOT-BRMRTS-0804 | MALE RN TEE SWIVEL 1/2 TB X 1/4 NPTF | 1/2          | .362                      | 1/4          | .787    | .512    | 1.260   | 1.169   | 2.429   | 13/16    | 0.213             | 25                  |
| DOT-BRMRTS-0806 | MALE RN TEE SWIVEL 1/2 TB X 3/8 NPTF | 1/2          | .362                      | 3/8          | .787    | .512    | 1.260   | 1.169   | 2.429   | 13/16    | 0.199             | 25                  |
| DOT-BRMRTS-0808 | MALE RN TEE SWIVEL 1/2 TB X 1/2 NPTF | 1/2          | .362                      | 1/2          | .787    | .669    | 1.437   | 1.169   | 2.606   | 7/8      | 0.227             | 25                  |

† Note: The "Tube ID (in)" column heading refers to "Tube Support ID (in)"

\*Only sold in package quantities

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### Union Fittings



#### Union

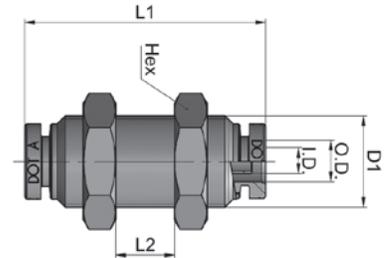
DOT-BRUN Series

#### Nominal Specifications

| Part Number   | Description           | Tube OD (in) | Tube <sup>†</sup> ID (in) | D1 (in) | L1 (in) | Weight Each (lbs) | *Pieces Per Package |
|---------------|-----------------------|--------------|---------------------------|---------|---------|-------------------|---------------------|
| DOT-BRUN-0404 | UNION 1/4 TB X 1/4 TB | 1/4          | .165                      | 0.472   | 1.323   | 0.064             | 25                  |
| DOT-BRUN-0606 | UNION 3/8 TB X 3/8 TB | 3/8          | .244                      | 0.630   | 1.520   | 0.069             | 25                  |
| DOT-BRUN-0808 | UNION 1/2 TB X 1/2 TB | 1/2          | .362                      | 0.787   | 1.709   | 0.201             | 25                  |
| DOT-BRUN-1010 | UNION 5/8 TB X 5/8 TB | 5/8          | .433                      | 0.945   | 2.047   | 0.172             | 10                  |
| DOT-BRUN-1212 | UNION 3/4 TB X 3/4 TB | 3/4          | .559                      | 1.102   | 2.244   | 0.225             | 10                  |

† Note: The “Tube ID (in)” column heading refers to “Tube Support ID (in)”

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#### Bulkhead Union

DOT-BRBH Series

#### Nominal Specifications

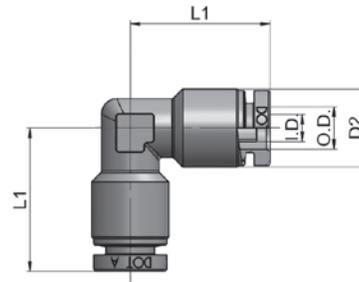
| Part Number   | Description                    | Tube OD (in) | Tube <sup>†</sup> ID (in) | D1 Thread Size (mm) x TP (mm) | L1 (in) | L2 (in) | HEX (mm) | Weight Each (lbs) | *Pieces Per Package |
|---------------|--------------------------------|--------------|---------------------------|-------------------------------|---------|---------|----------|-------------------|---------------------|
| DOT-BRBH-0404 | BULKHEAD UNION 1/4 TB X 1/4 TB | 1/4          | .165                      | M14x1                         | 1.457   | .571    | 18       | 0.039             | 25                  |
| DOT-BRBH-0606 | BULKHEAD UNION 3/8 TB X 3/8 TB | 3/8          | .244                      | M18x1                         | 1.614   | .689    | 22       | 0.131             | 25                  |
| DOT-BRBH-0808 | BULKHEAD UNION 1/2 TB X 1/2 TB | 1/2          | .362                      | M22x1.5                       | 1.709   | .728    | 26       | 0.188             | 25                  |
| DOT-BRBH-1010 | BULKHEAD UNION 5/8 TB X 5/8 TB | 5/8          | .433                      | M26x1.5                       | 2.047   | .866    | 32       | 0.334             | 10                  |

† Note: The “Tube ID (in)” column heading refers to “Tube Support ID (in)”

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## Union Fittings



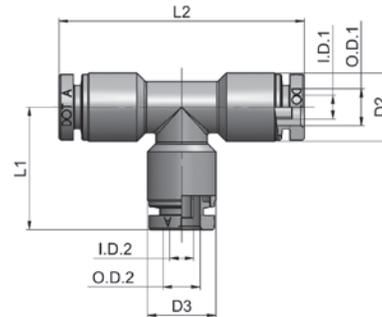
### Union Elbow 90°

DOT-BRUNE90 Series

| Nominal Specifications |                              |              |                           |         |         |                   |                     |
|------------------------|------------------------------|--------------|---------------------------|---------|---------|-------------------|---------------------|
| Part Number            | Description                  | Tube OD (in) | Tube <sup>†</sup> ID (in) | D2 (in) | L1 (in) | Weight Each (lbs) | *Pieces Per Package |
| DOT-BRUNE90-0404       | UNION ELB 90 1/4 TB X 1/4 TB | 1/4          | .165                      | .472    | 0.866   | 0.040             | 25                  |
| DOT-BRUNE90-0606       | UNION ELB 90 3/8 TB X 3/8 TB | 3/8          | .244                      | .630    | 1.024   | 0.084             | 25                  |
| DOT-BRUNE90-0808       | UNION ELB 90 1/2 TB X 1/2 TB | 1/2          | .362                      | .787    | 1.110   | 0.135             | 25                  |
| DOT-BRUNE90-1010       | UNION ELB 90 5/8 TB X 5/8 TB | 5/8          | .433                      | .945    | 1.398   | 0.228             | 10                  |

† Note: The “Tube ID (in)” column heading refers to “Tube Support ID (in)”

\*Only sold in package quantities



### Union Tee

DOT-BRUNT Series

| Nominal Specifications |                           |               |                            |               |                            |         |         |         |         |                   |                     |
|------------------------|---------------------------|---------------|----------------------------|---------------|----------------------------|---------|---------|---------|---------|-------------------|---------------------|
| Part Number            | Description               | Tube OD1 (in) | Tube <sup>†</sup> ID1 (in) | Tube OD2 (in) | Tube <sup>†</sup> ID2 (in) | D2 (in) | D3 (in) | L1 (in) | L2 (in) | Weight Each (lbs) | *Pieces Per Package |
| DOT-BRUNT-0404         | UNION TEE 1/4 TB X 1/4 TB | 1/4           | .165                       | 1/4           | .165                       | .472    | .472    | 0.846   | 1.693   | 0.055             | 25                  |
| DOT-BRUNT-0606         | UNION TEE 3/8 TB X 3/8 TB | 3/8           | .244                       | 3/8           | .244                       | .630    | .630    | 1.004   | 2.008   | 0.116             | 25                  |
| DOT-BRUNT-0604         | UNION TEE 3/8 TB X 1/4 TB | 3/8           | .244                       | 1/4           | .165                       | .630    | .472    | 0.945   | 2.008   | 0.106             | 25                  |
| DOT-BRUNT-0808         | UNION TEE 1/2 TB X 1/2 TB | 1/2           | .362                       | 1/2           | .362                       | .787    | .787    | 1.063   | 2.220   | 0.184             | 25                  |
| DOT-BRUNT-0806         | UNION TEE 1/2 TB X 3/8 TB | 1/2           | .362                       | 3/8           | .244                       | .787    | .630    | 1.102   | 2.220   | 0.178             | 25                  |
| DOT-BRUNT-1010         | UNION TEE 5/8 TB X 5/8 TB | 5/8           | .433                       | 5/8           | .433                       | .945    | .945    | 1.398   | 2.795   | 0.359             | 10                  |

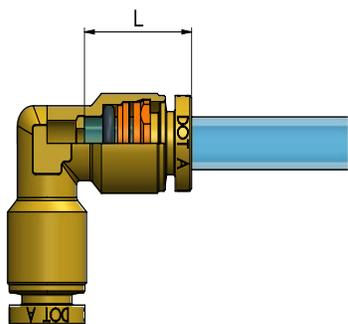
† Note: The “Tube ID (in)” column heading refers to “Tube Support ID (in)”

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### Push-To-Connect Fittings

#### Tube Insertion Depth



| Tube OD | L     |
|---------|-------|
| 1/4"    | .642" |
| 3/8"    | .720" |
| 1/2"    | .775" |
| 5/8"    | .917" |
| 3/4"    | .988" |

#### Assembly Instructions

1. Cut the tube square (with a hose cutter) making sure that there are no burrs and that the tube is round.
2. Insert the tube into the fitting until it bottoms.

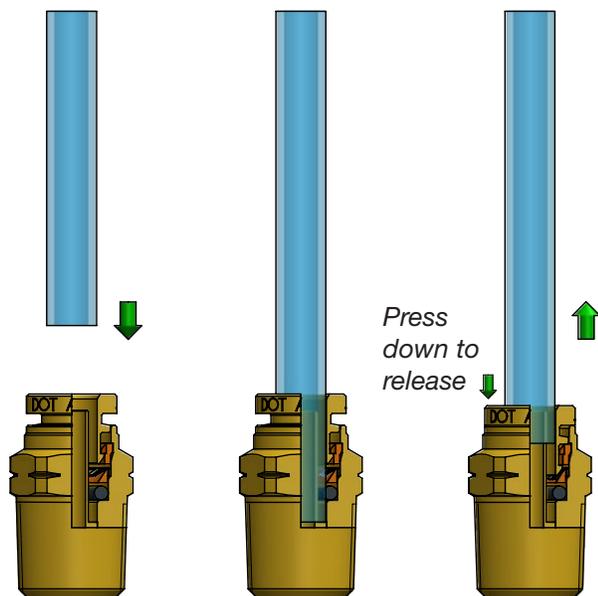
#### Tube release

While pressing on the release ring, pull the tube from the fitting.

**!** Once the tubing is connected to the fitting, make sure that the tubing is not pulled or stretched and that the minimum bend radius stated in the tubing section of this catalog is not exceeded.

To prevent accidental tube release, be certain that nothing comes in contact with the release ring. Any load on the release ring may cause an unwanted disconnection.

To tighten NPTF threads, please refer to the following torque chart.



| Thread                 | Norm Reference       | Tightening Torque (ft - lb) |      |      |      |
|------------------------|----------------------|-----------------------------|------|------|------|
|                        |                      | 1/8"                        | 1/4" | 3/8" | 1/2" |
| NPTF<br>PTFE<br>coated | ANSI/ASME<br>B1.20.3 | 2.58                        | 3.32 | 5.16 | 8.85 |

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