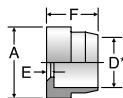


**TL**

Braze Sleeve for Inch Tubing  
ORFS Silver Braze Sleeve

SAE 520115



| TUBE<br>FITTING<br>PART # | END<br>SIZE<br>(in.) | A<br>DIA<br>(in.) | D*<br>(in.) | E<br>(in.) | F<br>(in.) | STANDARD<br>MATERIAL<br>FROM STOCK |     |
|---------------------------|----------------------|-------------------|-------------|------------|------------|------------------------------------|-----|
|                           |                      |                   |             |            |            | -S                                 | -SS |
| 4 TL                      | 1/4                  | 0.50              | 0.26        | 0.04       | 0.37       | •                                  | •   |
| 6 TL                      | 3/8                  | 0.62              | 0.38        | 0.04       | 0.37       | •                                  | •   |
| 8 TL                      | 1/2                  | 0.75              | 0.51        | 0.04       | 0.37       | •                                  | •   |
| 10 TL                     | 5/8                  | 0.92              | 0.63        | 0.06       | 0.41       | •                                  | •   |
| 12 TL                     | 3/4                  | 1.10              | 0.76        | 0.06       | 0.55       | •                                  | •   |
| 14 TL**                   | 7/8                  | 1.22              | 0.88        | 0.06       | 0.55       | •                                  | •   |
| 16 TL                     | 1                    | 1.35              | 1.01        | 0.06       | 0.61       | •                                  | •   |
| 20 TL                     | 1 1/4                | 1.60              | 1.26        | 0.06       | 0.61       | •                                  | •   |
| 24 TL                     | 1 1/2                | 1.91              | 1.51        | 0.06       | 0.61       | •                                  | •   |
| 32 TL**                   | 2                    | 2.41              | 2.01        | 0.06       | 0.65       | •                                  | •   |

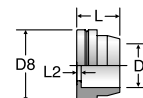
Unplated part, oil dipped for corrosion protection.

\* D is for silver brazing.

\*\* Sizes 14 and 32 are not included in SAE J1453.

**TL (Metric)**

Braze Sleeve for Metric Tubing  
ORFS Silver Braze Sleeve

ISO 8434-3 BRSL  
SAE 5201M15

| TUBE<br>FITTING<br>PART # | USED<br>WITH<br>FITTING<br>SIZE | D*<br>END<br>SIZE<br>(mm) | D8<br>DIA<br>(mm) | L<br>(mm) | L2<br>(mm) | STANDARD<br>MATERIAL<br>FROM STOCK |     |
|---------------------------|---------------------------------|---------------------------|-------------------|-----------|------------|------------------------------------|-----|
|                           |                                 |                           |                   |           |            | -S                                 | -SS |
| TLS6                      | -4                              | 6                         | 12.8              | 9.5       | 1          | •                                  | •   |
| TLS8                      | -6                              | 8                         | 15.8              | 9.5       | 1          | •                                  | •   |
| TLS10                     | -6                              | 10                        | 15.8              | 9.5       | 1          | •                                  | •   |
| TLS12                     | -8                              | 12                        | 18.9              | 9.5       | 1          | •                                  | •   |
| TLS16                     | -10                             | 16                        | 23.5              | 10.5      | 1.5        | •                                  | •   |
| TLS20                     | -12                             | 20                        | 27.9              | 14        | 1.5        | •                                  | •   |
| TLS25                     | -16                             | 25                        | 34.2              | 15.5      | 1.5        | •                                  | •   |
| TLS30                     | -20                             | 30                        | 40.6              | 15.5      | 1.5        | •                                  | •   |
| TLS38                     | -24                             | 38                        | 48.5              | 15.5      | 1.5        | •                                  | •   |

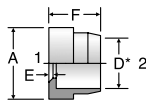
Unplated part, oil dipped for corrosion protection.

\* D is for silver brazing.

**TL-Reducer**

Reducer Sleeve  
ORFS Silver Braze Sleeve Reducer

SAE 520115



| TUBE<br>FITTING<br>PART # | END SIZE   |            | A<br>(in.) | D*<br>(in.) | E<br>(in.) | F<br>(in.) | STANDARD<br>MATERIAL<br>FROM STOCK |     |
|---------------------------|------------|------------|------------|-------------|------------|------------|------------------------------------|-----|
|                           | 1<br>(in.) | 2<br>(in.) |            |             |            |            | -S                                 | -SS |
| 6-4 TL                    | 3/8        | 1/4        | 0.62       | 0.26        | 0.08       | 0.41       | •                                  | •   |
| 8-4 TL                    | 1/2        | 1/4        | 0.75       | 0.26        | 0.14       | 0.47       | •                                  | •   |
| 8-6 TL                    | 1/2        | 3/8        | 0.75       | 0.38        | 0.14       | 0.47       | •                                  | •   |
| 10-4 TL                   | 5/8        | 1/4        | 0.92       | 0.26        | 0.20       | 0.53       | •                                  | •   |
| 10-6 TL                   | 5/8        | 3/8        | 0.92       | 0.38        | 0.20       | 0.53       | •                                  | •   |
| 10-8 TL                   | 5/8        | 1/2        | 0.92       | 0.51        | 0.20       | 0.53       | •                                  | •   |
| 12-4 TL                   | 3/4        | 1/4        | 1.10       | 0.26        | 0.24       | 0.57       | •                                  | •   |
| 12-6 TL                   | 3/4        | 3/8        | 1.10       | 0.38        | 0.24       | 0.57       | •                                  | •   |
| 12-8 TL                   | 3/4        | 1/2        | 1.10       | 0.51        | 0.24       | 0.57       | •                                  | •   |
| 12-10 TL                  | 3/4        | 5/8        | 1.10       | 0.63        | 0.24       | 0.57       | •                                  | •   |
| 12-14 TL**                | 3/4        | 7/8        | 1.10       | 0.88        | 0.06       | 0.65       | •                                  | •   |
| 16-8 TL                   | 1          | 1/2        | 1.35       | 0.51        | 0.28       | 0.61       | •                                  | •   |
| 16-10 TL                  | 1          | 5/8        | 1.35       | 0.63        | 0.28       | 0.61       | •                                  | •   |
| 16-12 TL                  | 1          | 3/4        | 1.35       | 0.76        | 0.18       | 0.67       | •                                  | •   |
| 16-14 TL                  | 1          | 7/8        | 1.35       | 0.88        | 0.12       | 0.67       | •                                  | •   |
| 20-12 TL                  | 1 1/4      | 3/4        | 1.60       | 0.76        | 0.28       | 0.77       | •                                  | •   |
| 20-16 TL                  | 1 1/4      | 1          | 1.60       | 1.01        | 0.28       | 0.83       | •                                  | •   |
| 24-16 TL                  | 1 1/2      | 1          | 1.91       | 1.01        | 0.28       | 0.83       | •                                  | •   |
| 24-20 TL                  | 1 1/2      | 1 1/4      | 1.91       | 1.26        | 0.28       | 0.83       | •                                  | •   |

Unplated part, oil dipped for corrosion protection.

\* D is for silver brazing.

\*\* 12-14 TL must be assembled with 12-14 BL.

Dimensions and pressures for reference only, subject to change.

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