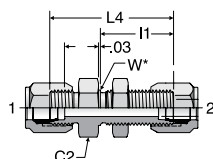


**WBU**

Bulkhead Union  
Flareless / Flareless

SAE 080601



\* W – Bulkhead pilot dia.  
recommended clearance  
hole is +.015 over W dia.

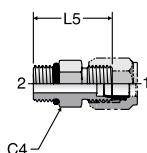
| TUBE<br>FITTING<br>PART # | END SIZE   |            | C2<br>HEX<br>(in.) | I1<br>(in.) | L4<br>(in.) | W<br>(in.) | Max.<br>Bulkhead<br>Thickness | Dynamic<br>Pressure<br>(x 1,000 PSI) |     |
|---------------------------|------------|------------|--------------------|-------------|-------------|------------|-------------------------------|--------------------------------------|-----|
|                           | 1<br>(in.) | 2<br>(in.) |                    |             |             |            |                               | -S                                   | -SS |
| 4 WBU                     | 1/4        | 1/4        | 11/16              | 1.12        | 1.89        | 0.44       | 0.38                          | 6.0                                  | 6.0 |
| 6 WBU                     | 3/8        | 3/8        | 13/16              | 1.17        | 1.98        | 0.56       | 0.40                          | 6.0                                  | 6.0 |
| 8 WBU                     | 1/2        | 1/2        | 1                  | 1.31        | 2.22        | 0.75       | 0.40                          | 5.0                                  | 5.0 |
| 10 WBU                    | 5/8        | 5/8        | 1 1/8              | 1.45        | 2.48        | 0.88       | 0.44                          | 5.0                                  | 5.0 |
| 12 WBU                    | 3/4        | 3/4        | 1 3/8              | 1.56        | 2.72        | 1.06       | 0.44                          | 4.5                                  | 4.5 |
| 16 WBU                    | 1          | 1          | 1 5/8              | 1.56        | 2.72        | 1.31       | 0.44                          | 4.0                                  | 4.0 |

Part comes with the WLN locknut.

**F5BU**

Straight Thread Connector  
Flareless / SAE-ORB

SAE 080120

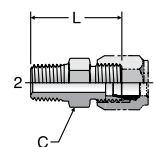


| TUBE<br>FITTING<br>PART # | END SIZE   |                | C4<br>HEX<br>(in.) | L5<br>(in.) | Dynamic<br>Pressure<br>(x 1,000 PSI) |     |
|---------------------------|------------|----------------|--------------------|-------------|--------------------------------------|-----|
|                           | 1<br>(in.) | 2<br>UN/UNF-2A |                    |             | -S                                   | -SS |
| 2 F5BU                    | 1/8        | 5/16 - 24      | 7/16               | 0.99        | 6.0                                  | 6.0 |
| 3 F5BU                    | 3/16       | 3/8 - 24       | 1/2                | 1.05        | 6.0                                  | 6.0 |
| 4 F5BU                    | 1/4        | 7/16 - 20      | 9/16               | 1.13        | 6.0                                  | 6.0 |
| 4-5 F5BU                  | 1/4        | 1/2 - 20       | 5/8                | 1.13        | 6.0                                  | 6.0 |
| 4-6 F5BU                  | 1/4        | 9/16 - 18      | 11/16              | 1.20        | 6.0                                  | 6.0 |
| 5 F5BU                    | 5/16       | 1/2 - 20       | 5/8                | 1.13        | 6.0                                  | 6.0 |
| 6 F5BU                    | 3/8        | 9/16 - 18      | 11/16              | 1.22        | 6.0                                  | 6.0 |
| 6-4 F5BU                  | 3/8        | 7/16 - 20      | 5/8                | 1.19        | 6.0                                  | 6.0 |
| 6-8 F5BU                  | 3/8        | 3/4 - 16       | 7/8                | 1.28        | 6.0                                  | 6.0 |
| 8 F5BU                    | 1/2        | 3/4 - 16       | 7/8                | 1.38        | 5.0                                  | 5.0 |
| 8-6 F5BU                  | 1/2        | 9/16 - 18      | 13/16              | 1.28        | 5.0                                  | 5.0 |
| 8-10 F5BU                 | 1/2        | 7/8 - 14       | 1                  | 1.50        | 5.0                                  | 5.0 |
| 8-12 F5BU                 | 1/2        | 1 1/16 - 12    | 1 1/4              | 1.67        | 4.5                                  | 4.5 |
| 10 F5BU                   | 5/8        | 7/8 - 14       | 1                  | 1.56        | 5.0                                  | 5.0 |
| 10-12 F5BU                | 5/8        | 1 1/16 - 12    | 1 1/4              | 1.73        | 4.5                                  | 4.5 |
| 12 F5BU                   | 3/4        | 1 1/16 - 12    | 1 1/4              | 1.78        | 4.5                                  | 4.5 |
| 12-8 F5BU                 | 3/4        | 3/4 - 16       | 1 1/8              | 1.75        | 4.5                                  | 4.5 |
| 12-16 F5BU                | 3/4        | 1 5/16 - 12    | 1 1/2              | 1.81        | 4.0                                  | 4.0 |
| 16 F5BU                   | 1          | 1 5/16 - 12    | 1 1/2              | 1.81        | 4.0                                  | 4.0 |
| 16-12 F5BU                | 1          | 1 1/16 - 12    | 1 3/8              | 1.81        | 4.0                                  | 4.0 |
| 16-20 F5BU                | 1          | 1 5/8 - 12     | 1 7/8              | 1.91        | 3.0                                  | 3.0 |
| 20 F5BU                   | 1 1/4      | 1 5/8 - 12     | 1 7/8              | 1.91        | 3.0                                  | 3.0 |
| 24 F5BU                   | 1 1/2      | 1 7/8 - 12     | 2 1/8              | 1.97        | 3.0                                  | 3.0 |
| 32 F5BU                   | 2          | 2 1/2 - 12     | 2 3/4              | 2.13        | 2.0                                  | 2.0 |

**FBU**

Male Connector  
Flareless / NPTF

SAE 080102



| TUBE<br>FITTING<br>PART # | END SIZE   |                | C<br>HEX<br>(in.) | L<br>(in.) | Dynamic<br>Pressure<br>(x 1,000 PSI) |     |
|---------------------------|------------|----------------|-------------------|------------|--------------------------------------|-----|
|                           | 1<br>(in.) | 2<br>NPTF      |                   |            | -S                                   | -SS |
| 2 FBU                     | 1/8        | 1/8 - 27       | 7/16              | 1.04       | 6.0                                  | 6.0 |
| 2-4 FBU                   | 1/8        | 1/4 - 18       | 9/16              | 1.24       | 6.0                                  | 6.0 |
| 3 FBU                     | 3/16       | 1/8 - 27       | 7/16              | 1.09       | 6.0                                  | 6.0 |
| 4 FBU                     | 1/4        | 1/8 - 27       | 1/2               | 1.12       | 6.0                                  | 6.0 |
| 4-4 FBU                   | 1/4        | 1/4 - 18       | 9/16              | 1.32       | 6.0                                  | 6.0 |
| 4-6 FBU                   | 1/4        | 3/8 - 18       | 3/4               | 1.33       | 6.0                                  | 6.0 |
| 4-8 FBU                   | 1/4        | 1/2 - 14       | 7/8               | 1.58       | 6.0                                  | 6.0 |
| 5 FBU                     | 5/16       | 1/8 - 27       | 9/16              | 1.12       | 6.0                                  | 6.0 |
| 5-4 FBU                   | 5/16       | 1/4 - 18       | 9/16              | 1.32       | 6.0                                  | 6.0 |
| 6 FBU                     | 3/8        | 1/4 - 18       | 5/8               | 1.34       | 6.0                                  | 6.0 |
| 6-2 FBU                   | 3/8        | 1/8 - 27       | 5/8               | 1.15       | 6.0                                  | 6.0 |
| 6-6 FBU                   | 3/8        | 3/8 - 18       | 3/4               | 1.35       | 6.0                                  | 6.0 |
| 6-8 FBU                   | 3/8        | 1/2 - 14       | 15/16             | 1.60       | 6.0                                  | 6.0 |
| 8 FBU                     | 1/2        | 3/8 - 18       | 13/16             | 1.44       | 5.0                                  | 5.0 |
| 8-4 FBU                   | 1/2        | 1/4 - 18       | 13/16             | 1.44       | 5.0                                  | 5.0 |
| 8-8 FBU                   | 1/2        | 1/2 - 14       | 7/8               | 1.69       | 5.0                                  | 5.0 |
| 8-12 FBU                  | 1/2        | 3/4 - 14       | 1 1/8             | 1.76       | 4.0                                  | 4.0 |
| 10 FBU                    | 5/8        | 1/2 - 14       | 15/16             | 1.75       | 4.5                                  | 4.5 |
| 10-6 FBU                  | 5/8        | 3/8 - 18       | 15/16             | 1.56       | 4.5                                  | 4.5 |
| 10-12 FBU                 | 5/8        | 3/4 - 14       | 1 1/8             | 1.82       | 4.0                                  | 4.0 |
| 12 FBU                    | 3/4        | 3/4 - 14       | 1 1/8             | 1.88       | 4.0                                  | 4.0 |
| 12-8 FBU                  | 3/4        | 1/2 - 14       | 1 1/8             | 1.88       | 4.0                                  | 4.0 |
| 14 FBU                    | 7/8        | 3/4 - 14       | 1 1/4             | 1.88       | 3.0                                  | 3.0 |
| 16 FBU                    | 1          | 1 - 11 1/2     | 1 3/8             | 2.07       | 3.0                                  | 3.0 |
| 16-12 FBU                 | 1          | 3/4 - 14       | 1 3/8             | 1.88       | 3.0                                  | 3.0 |
| 20 FBU                    | 1 1/4      | 1 1/4 - 11 1/2 | 1 11/16           | 2.18       | 2.5                                  | 2.5 |
| 24 FBU                    | 1 1/2      | 1 1/2 - 11 1/2 | 2                 | 2.28       | 2.5                                  | 2.5 |
| 32 FBU                    | 2          | 2 - 11 1/2     | 2 3/4             | 2.46       | 2.0                                  | 2.0 |

All "FBU" fittings include a 30° chamfer for sealing with NPSM swivel type fittings (steel only).

Dimensions and pressures for reference only, subject to change.