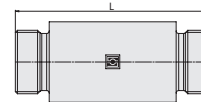
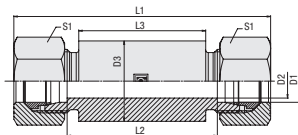


## Straight Bulkhead Weld Fitting Type FI-ES • Series L / S



### Ordering Codes

#### \*FI-ES\*-10\*L\*-W159\*-MS

|                                                                         |                                                                                                                                                                                              |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * Straight Bulkhead Weld Fitting                                        | <b>FI-ES</b>                                                                                                                                                                                 |
| * Outside Tube Diameter D1 (in mm)                                      | <b>-10</b>                                                                                                                                                                                   |
| * Series                                                                | Light Series <b>L</b><br>Heavy Series <b>S</b>                                                                                                                                               |
| * Material Code                                                         | Steel, uncoated/oiled <b>-W161</b><br><br>Fitting body:<br>Steel, uncoated/oiled <b>-W159</b><br>Connecting parts:<br>Steel, zinc/nickel-plated <b>-MSV</b>                                  |
| Please contact STAUFF for alternative materials and surface finishings. |                                                                                                                                                                                              |
| * Assembling / Kitting                                                  | Fitting body only <b>—</b><br><br>Fitting body supplied with cutting rings and union nuts <b>-MS</b><br><br>Fitting body supplied with soft-sealing cutting rings and union nuts <b>-MSV</b> |

### Connecting Parts

|                                                                                     |                                                  |         |
|-------------------------------------------------------------------------------------|--------------------------------------------------|---------|
|  | Cutting Ring<br>Type <b>FI-DS</b>                | Page 26 |
|  | Soft-Sealing Cutting Ring<br>Type <b>FI-WDDS</b> | Page 27 |
|  | Support Sleeve<br>Type <b>FI-VH</b>              | Page 28 |
|  | STAUFF Form Ring<br>Type <b>FI-AR</b>            | Page 30 |
|  | Union Nut<br>Type <b>FI-M</b>                    | Page 31 |
|  | 37° Flared Tube Fitting Set<br>Type <b>FI-AB</b> | Page 35 |

| Series | Tube OD<br>(mm/in)<br>D1 | PN<br>(bar/psi) | Dimensions<br>(mm/in) |      |      |                 |      |      |      | Weight<br>(kg/lbs) ca.<br>per 100 <sup>2</sup> | Ordering Codes <sup>3</sup> |
|--------|--------------------------|-----------------|-----------------------|------|------|-----------------|------|------|------|------------------------------------------------|-----------------------------|
|        |                          |                 | D2                    | D3   | L    | L1 <sup>1</sup> | L2   | L3   | S1   |                                                |                             |
| L      | 6                        | 315             | 4                     | 18   | 70   | 85              | 56   | 50   | 14   | 10,33                                          | FI-ES-06L-W161              |
|        | .24                      | 4568            | .16                   | .71  | 2.76 | 3.35            | 2.20 | 1.97 | .55  | 22.73                                          | FI-ES-08L-W161              |
|        | 8                        | 315             | 6                     | 20   | 70   | 85              | 56   | 50   | 17   | 12,21                                          | FI-ES-10L-W161              |
|        | .31                      | 4568            | .24                   | .79  | 2.76 | 3.35            | 2.20 | 1.97 | .67  | 26.87                                          | FI-ES-12L-W161              |
|        | 10                       | 315             | 8                     | 22   | 72   | 87              | 58   | 50   | 19   | 14,30                                          | FI-ES-15L-W161              |
|        | .39                      | 4568            | .31                   | .87  | 2.83 | 3.43            | 2.28 | 1.97 | .75  | 31.46                                          | FI-ES-18L-W161              |
|        | 12                       | 315             | 10                    | 25   | 72   | 87              | 58   | 50   | 22   | 17,75                                          | FI-ES-22L-W161              |
|        | .47                      | 4568            | .39                   | .98  | 2.83 | 3.43            | 2.28 | 1.97 | .87  | 39.05                                          | FI-ES-28L-W161              |
|        | 15                       | 315             | 12                    | 28   | 84   | 100             | 70   | 60   | 27   | 26,69                                          | FI-ES-35L-W161              |
|        | .59                      | 4568            | .47                   | 1.10 | 3.31 | 3.94            | 2.76 | 2.36 | 1.06 | 58.73                                          | FI-ES-42L-W161              |
|        | 18                       | 315             | 15                    | 32   | 84   | 101             | 69   | 60   | 32   | 33,60                                          | FI-ES-06S-W161              |
|        | .71                      | 4568            | .59                   | 1.26 | 3.31 | 3.98            | 2.72 | 2.36 | 1.26 | 73.92                                          | FI-ES-08S-W161              |
|        | 22                       | 160             | 19                    | 36   | 88   | 105             | 73   | 60   | 36   | 39,92                                          | FI-ES-10S-W161              |
|        | .87                      | 2320            | .75                   | 1.42 | 3.46 | 4.13            | 2.87 | 2.36 | 1.42 | 87.83                                          | FI-ES-12S-W161              |
|        | 28                       | 160             | 24                    | 40   | 88   | 106             | 73   | 60   | 41   | 45,18                                          | FI-ES-14S-W161              |
|        | 1.10                     | 2320            | .94                   | 1.57 | 3.46 | 4.17            | 2.87 | 2.36 | 1.61 | 99.40                                          | FI-ES-16S-W161              |
|        | 35                       | 160             | 30                    | 50   | 92   | 114             | 71   | 60   | 50   | 72,80                                          | FI-ES-20S-W161              |
|        | 1.38                     | 2320            | 1.18                  | 1.97 | 3.62 | 4.49            | 2.80 | 2.36 | 1.97 | 160.16                                         | FI-ES-25S-W161              |
|        | 42                       | 160             | 36                    | 60   | 92   | 115             | 70   | 60   | 60   | 100,60                                         | FI-ES-30S-W161              |
|        | 1.65                     | 2320            | 1.42                  | 2.36 | 3.62 | 4.53            | 2.76 | 2.36 | 2.36 | 221.32                                         | FI-ES-38S-W161              |
| S      | 6                        | 630             | 4                     | 20   | 74   | 89              | 60   | 50   | 17   | 13,56                                          | FI-ES-06S-W161              |
|        | .24                      | 9135            | .16                   | .79  | 2.91 | 3.50            | 2.36 | 1.97 | .67  | 29.83                                          | FI-ES-08S-W161              |
|        | 8                        | 630             | 5                     | 22   | 74   | 89              | 60   | 50   | 19   | 16,35                                          | FI-ES-10S-W161              |
|        | .31                      | 9135            | .20                   | .87  | 2.91 | 3.50            | 2.36 | 1.97 | .75  | 35.96                                          | FI-ES-12S-W161              |
|        | 10                       | 630             | 7                     | 25   | 74   | 91              | 59   | 50   | 22   | 20,24                                          | FI-ES-14S-W161              |
|        | .39                      | 9135            | .28                   | .98  | 2.91 | 3.58            | 2.32 | 1.97 | .87  | 44.52                                          | FI-ES-16S-W161              |
|        | 12                       | 630             | 8                     | 28   | 74   | 91              | 59   | 50   | 24   | 25,17                                          | FI-ES-20S-W161              |
|        | .47                      | 9135            | .31                   | 1.10 | 2.91 | 3.58            | 2.32 | 1.97 | .94  | 55.38                                          | FI-ES-25S-W161              |
|        | 14                       | 630             | 10                    | 30   | 88   | 107             | 72   | 60   | 27   | 33,72                                          | FI-ES-30S-W161              |
|        | .55                      | 9135            | .39                   | 1.18 | 3.46 | 4.21            | 2.83 | 2.36 | 1.06 | 74.18                                          | FI-ES-38S-W161              |
|        | 16                       | 400             | 12                    | 35   | 88   | 107             | 71   | 60   | 30   | 44,42                                          | FI-ES-06S-W161              |
|        | .63                      | 5800            | .47                   | 1.38 | 3.46 | 4.21            | 2.80 | 2.36 | 1.18 | 97.72                                          | FI-ES-08S-W161              |
|        | 20                       | 400             | 16                    | 38   | 92   | 114             | 71   | 60   | 36   | 51,50                                          | FI-ES-10S-W161              |
|        | .79                      | 5800            | .63                   | 1.50 | 3.62 | 4.49            | 2.80 | 2.36 | 1.42 | 113.30                                         | FI-ES-12S-W161              |
|        | 25                       | 400             | 20                    | 45   | 96   | 120             | 72   | 60   | 46   | 72,50                                          | FI-ES-14S-W161              |
|        | .98                      | 5800            | .79                   | 1.77 | 3.78 | 4.72            | 2.83 | 2.36 | 1.81 | 159.50                                         | FI-ES-16S-W161              |
|        | 30                       | 400             | 25                    | 50   | 100  | 126             | 73   | 60   | 50   | 87,80                                          | FI-ES-20S-W161              |
|        | 1.18                     | 5800            | .98                   | 1.97 | 3.94 | 4.96            | 2.87 | 2.36 | 1.97 | 193.16                                         | FI-ES-25S-W161              |
|        | 38                       | 315             | 32                    | 60   | 104  | 133             | 72   | 60   | 60   | 125,30                                         | FI-ES-30S-W161              |
|        | 1.50                     | 4568            | 1.26                  | 2.36 | 4.09 | 5.24            | 2.83 | 2.36 | 2.36 | 275.66                                         | FI-ES-38S-W161              |

<sup>1</sup> Approximate dimension in assembled condition.

<sup>2</sup> Weight excluding cutting rings and union nuts.

<sup>3</sup> Standard scope of delivery: Fitting body only.

Please note: The gradual changeover from "Steel, phosphated" to "Steel, uncoated/oiled" as the default surface treatment can temporarily result in mixed deliveries.

