

# High Pressure Fitting

High pressure fittings and dedicated accessories for high pressure connections with STS316 material and simple structural design



## Features

- 3 types of body (Elbow, Tee, Cross Type)
- Excellent corrosion resistance required at high pressure due to use of cold-formed stainless steel 316 material
- Leak-resistant Cone and Thread Connection
- Operating temperature range: -423°F(-252°C) to 1200°F(649°C)
- Used for various pressures (up to 150,000 psi) as fittings in chemical, refining, research, oil, and gas industries

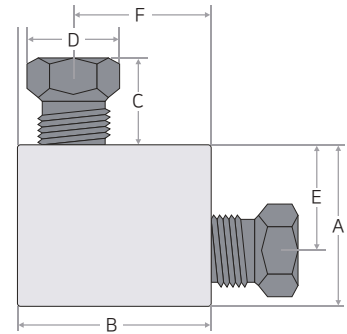
| Pressure Rating | Tube Size | Fitting   |           |           | Fitting Accessory |          |           |
|-----------------|-----------|-----------|-----------|-----------|-------------------|----------|-----------|
|                 |           | Elbow     | Tee       | Cross     | Gland             | Sleeve   | Collar    |
| 15,000 psi      | 1/8"      | FT15ES02  | FT15TS02  | FT15CS02  | FA15GS02          | FA15SS02 |           |
|                 | 1/4"      | FT15ES04  | FT15TS04  | FT15CS04  | FA15GS04          | FA15SS04 |           |
|                 | 3/8"      | FT15ES06  | FT15TS06  | FT15CS06  | FA15GS06          | FA15SS06 |           |
| 10,000 psi      | 1/2"      | FT10ES08  | FT10TS08  | FT10CS08  | FA10GS08          | FA10SS08 |           |
| 20,000 psi      | 1/4"      | FT20ES04  | FT20TS04  | FT20CS04  | FA20GS04          |          | FA20RS04  |
|                 | 3/8"      | FT20ES06  | FT20TS06  | FT20CS06  | FA20GS06          |          | FA20RS06  |
|                 | 9/16"     | FT20ES09  | FT20TS09  | FT20CS09  | FA20GS09          |          | FA20RS09  |
|                 | 3/4"      | FT20ES12  | FT20TS12  | FT20CS12  | FA20GS12          |          | FA20RS12  |
|                 | 1"        | FT20ES16  | FT20TS16  | FT20CS16  | FA20GS16          |          | FA20RS16  |
| 30,000 psi      | 1/8"      | FT30ES02  | FT30TS02  | FT30CS02  | FA30GS02          |          | FA30RS02  |
|                 | 1"        | FT30ES16  | FT30TS16  | FT30CS16  | FA30GS16          |          | FA30RS16  |
| 60,000 psi      | 1/4"      | FT60ES04  | FT60TS04  | FT60CS04  | FA60GS04          |          | FA60RS04  |
|                 | 3/8"      | FT60ES06  | FT60TS06  | FT60CS06  | FA60GS06          |          | FA60RS06  |
|                 | 9/16"     | FT60ES09  | FT60TS09  | FT60CS09  | FA60GS09          |          | FA60RS09  |
| 100,000 psi     | 1/4"      | FT100ES04 | FT100TS04 | FT100CS04 | FA100GS04         |          | FA100RS04 |
|                 | 3/8"      | FT100ES06 | FT100TS06 | FT100CS06 | FA100GS06         |          | FA100RS06 |
|                 | 9/16"     | FT100ES09 | FT100TS09 | FT100CS09 | FA100GS09         |          | FA100RS09 |
| 150,000 psi     | 3/8"      | FT150ES06 | FT150TS06 | FT150CS06 | FA150GS06         |          | FA150RS06 |

| Anti-Vibration | Tube Size | Elbow       | Tee         | Cross       | Gland       | Collar      | Collet      |
|----------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|
| 20,000 psi     | 1/4"      | FT20ES04-AV | FT20TS04-AV | FT20CS04-AV | FA20GS04-AV | FA20RS04-AV | FA20TS04-AV |
|                | 3/8"      | FT20ES06-AV | FT20TS06-AV | FT20CS06-AV | FA20GS06-AV | FA20RS06-AV | FA20TS06-AV |
|                | 9/16"     | FT20ES09-AV | FT20TS09-AV | FT20CS09-AV | FA20GS09-AV | FA20RS09-AV | FA20TS09-AV |
|                | 3/4"      | FT20ES12-AV | FT20TS12-AV | FT20CS12-AV | FA20GS12-AV | FA20RS12-AV | FA20TS12-AV |
|                | 1"        | FT20ES16-AV | FT20TS16-AV | FT20CS16-AV | FA20GS16-AV | FA20RS16-AV | FA20TS16-AV |
| 60,000 psi     | 1/4"      | FT60ES04-AV | FT60TS04-AV | FT60CS04-AV | FA60GS04-AV | FA60RS04-AV | FA60TS04-AV |
|                | 3/8"      | FT60ES06-AV | FT60TS06-AV | FT60CS06-AV | FA60GS06-AV | FA60RS06-AV | FA60TS06-AV |
|                | 9/16"     | FT60ES09-AV | FT60TS09-AV | FT60CS09-AV | FA60GS09-AV | FA60RS09-AV | FA60TS09-AV |

## Elbow Type

(Unit : mm)

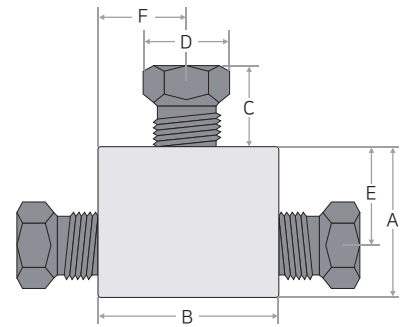
| Catalog No | Pressure Rating | Port Type | Tube Size | Orifice Size | Dimensions |      |       |        |      |      | Block Thickness |
|------------|-----------------|-----------|-----------|--------------|------------|------|-------|--------|------|------|-----------------|
|            |                 |           |           |              | A          | B    | C     | D(HEX) | E    | F    |                 |
| FT15ES02   | 15,000          | H1502     | 1/8"      | 1.4          | 25         | 25   | 12.2  | 12     | 19   | 18   | 15.5            |
| FT15ES04   |                 | H1504     | 1/4"      | 4            | 35         | 35   | 12.2  | 16     | 25   | 25   | 20              |
| FT15ES06   |                 | H1506     | 3/8"      | 5.5          | 35         | 35   | 14    | 19     | 25   | 25   | 20              |
| FT10ES08   | 10,000          | H1008     | 1/2"      | 8.5          | 45         | 45   | 16.3  | 25.4   | 31.5 | 31.5 | 25              |
| FT20ES04   |                 | H2004     | 1/4"      | 2.8          | 28.5       | 28.5 | 13.8  | 12     | 19   | 19   | 16              |
| FT20ES06   |                 | H2006     | 3/8"      | 5.2          | 35         | 35   | 14.2  | 16     | 25   | 25   | 20              |
| FT20ES09   | 20,000          | H2009     | 9/16"     | 7.9          | 45         | 45   | 19.3  | 22     | 31.5 | 31.5 | 25              |
| FT20ES12   |                 | H2012     | 3/4"      | 13           | 57         | 57   | 19.3  | 28     | 38   | 38   | 35              |
| FT20ES16   |                 | H2016     | 1"        | 17.5         | 76         | 76   | 21.7  | 35     | 52.5 | 52.5 | 45              |
| FT30ES02   | 30,000          | H3002     | 1/8"      | 1.16         | 28         | 28   | 8.7   | 13     | 19   | 19   | 20              |
| FT30ES16   |                 | H3016     | 1"        | 11.1         | 76         | 76   | 21.7  | 35     | 52.5 | 52.5 | 45              |
| FT60ES04   | 60,000          | H6004     | 1/4"      | 2.4          | 35         | 35   | 12.83 | 16     | 22.5 | 22.5 | 25              |
| FT60ES06   |                 | H6006     | 3/8"      | 3.2          | 38         | 45   | 18.6  | 20     | 25   | 31.5 | 25              |
| FT60ES09   |                 | H6009     | 9/16"     | 4.8          | 47.5       | 67   | 21.66 | 30     | 28.5 | 48   | 38              |
| FT100ES04  | 100,000         | H10004    | 1/4"      | 2.4          | 44.5       | 44.5 | 14.4  | 16     | 31.5 | 31.5 | 25              |
| FT100ES06  |                 | H10006    | 3/8"      | 2.4          | 54         | 76.2 | 18.11 | 20.6   | 38.1 | 38.1 | 35              |
| FT100ES09  |                 | H10009    | 9/16"     | 4.8          | 47.5       | 67   | 21.66 | 30     | 28.5 | 48   | 38              |
| FT150ES06  | 150,000         | H15006    | 3/8"      | 2.4          | 60         | 60   | 18.3  | 20.6   | 45   | 45   | 38              |



## Tee Type

(Unit : mm)

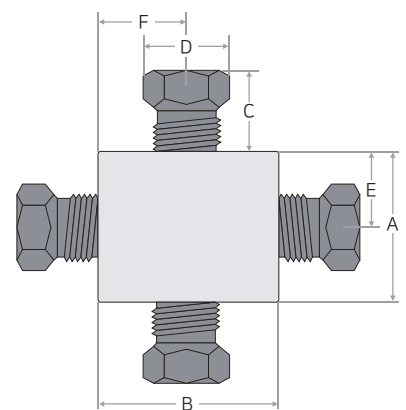
| Catalog No | Pressure Rating | Port Type | Tube Size | Orifice Size | Dimensions |      |       |        |      |       | Block Thickness |
|------------|-----------------|-----------|-----------|--------------|------------|------|-------|--------|------|-------|-----------------|
|            |                 |           |           |              | A          | B    | C     | D(HEX) | E    | F     |                 |
| FT15TS02   | 15,000          | H1502     | 1/8"      | 1.4          | 25         | 38   | 12.2  | 12     | 19   | 19    | 15.5            |
| FT15TS04   |                 | H1504     | 1/4"      | 4            | 35         | 50   | 12.2  | 16     | 25   | 25    | 20              |
| FT15TS06   |                 | H1506     | 3/8"      | 5.5          | 35         | 50   | 14    | 19     | 25   | 25    | 20              |
| FT10TS08   | 10,000          | H1008     | 1/2"      | 8.5          | 45         | 63   | 16.3  | 25.4   | 31.5 | 31.5  | 25              |
| FT20TS04   |                 | H2004     | 1/4"      | 2.8          | 28.5       | 38   | 13.8  | 12     | 19   | 19    | 16              |
| FT20TS06   |                 | H2006     | 3/8"      | 5.2          | 35         | 50   | 14.2  | 16     | 25   | 25    | 20              |
| FT20TS09   | 20,000          | H2009     | 9/16"     | 7.9          | 45         | 63   | 19.3  | 22     | 31.5 | 31.5  | 25              |
| FT20TS12   |                 | H2012     | 3/4"      | 13           | 57         | 76   | 19.3  | 28     | 38   | 38    | 35              |
| FT20TS16   |                 | H2016     | 1"        | 17.5         | 76         | 105  | 21.7  | 35     | 52.5 | 52.5  | 45              |
| FT30TS02   | 30,000          | H3002     | 1/8"      | 1.16         | 38         | 28   | 8.7   | 13     | 19   | 19    | 20              |
| FT30TS16   |                 | H3016     | 1"        | 11.1         | 76         | 105  | 21.7  | 35     | 52.5 | 52.5  | 45              |
| FT60TS04   | 60,000          | H6004     | 1/4"      | 2.4          | 35         | 50   | 12.83 | 16     | 22.5 | 25    | 25              |
| FT60TS06   |                 | H6006     | 3/8"      | 3.2          | 40         | 50   | 18.6  | 20     | 27   | 25    | 25              |
| FT60TS09   |                 | H6009     | 9/16"     | 4.8          | 54         | 67   | 21.66 | 30     | 35   | 33.25 | 38              |
| FT100TS04  | 100,000         | H10004    | 1/4"      | 2.4          | 63         | 44.5 | 14.4  | 16     | 31.5 | 31.5  | 25              |
| FT100TS06  |                 | H10006    | 3/8"      | 2.4          | 54         | 76.2 | 18.11 | 20.6   | 38.1 | 38.1  | 35              |
| FT100TS09  |                 | H10009    | 9/16"     | 4.8          | 54         | 67   | 21.66 | 30     | 35   | 33.5  | 38              |
| FT150TS06  | 150,000         | H15006    | 3/8"      | 2.4          | 60         | 90   | 18.3  | 20.6   | 45   | 45    | 38              |



## Cross Type

(Unit : mm)

| Catalog No | Pressure Rating | Port Type | Tube Size | Orifice Size | Dimensions |      |       |        |       |      | Block Thickness |
|------------|-----------------|-----------|-----------|--------------|------------|------|-------|--------|-------|------|-----------------|
|            |                 |           |           |              | A          | B    | C     | D(HEX) | E     | F    |                 |
| FT15CS02   | 15,000          | H1502     | 1/8"      | 1.4          | 38         | 38   | 12.2  | 12     | 19    | 19   | 15.5            |
| FT15CS04   |                 | H1504     | 1/4"      | 4            | 50         | 50   | 12.2  | 16     | 25    | 25   | 20              |
| FT15CS06   |                 | H1506     | 3/8"      | 5.5          | 50         | 50   | 14    | 19     | 25    | 25   | 20              |
| FT10CS08   | 10,000          | H1008     | 1/2"      | 8.5          | 63         | 63   | 16.3  | 25.4   | 31.5  | 31.5 | 25              |
| FT20CS04   |                 | H2004     | 1/4"      | 2.8          | 38         | 38   | 13.8  | 12     | 19    | 19   | 16              |
| FT20CS06   |                 | H2006     | 3/8"      | 5.2          | 50         | 50   | 14.2  | 16     | 25    | 25   | 20              |
| FT20CS09   | 20,000          | H2009     | 9/16"     | 7.9          | 63         | 63   | 19.3  | 22     | 31.5  | 31.5 | 25              |
| FT20CS12   |                 | H2012     | 3/4"      | 13           | 76         | 76   | 19.3  | 28     | 38    | 38   | 35              |
| FT20ES16   |                 | H2016     | 1"        | 17.5         | 105        | 105  | 21.7  | 35     | 52.5  | 52.5 | 45              |
| FT30CS02   | 30,000          | H3002     | 1/8"      | 1.16         | 38         | 38   | 8.7   | 13     | 19    | 19   | 20              |
| FT30CS16   |                 | H3016     | 1"        | 11.1         | 105        | 105  | 21.7  | 35     | 52.5  | 52.5 | 45              |
| FT60CS04   | 60,000          | H6004     | 1/4"      | 2.4          | 38         | 50   | 12.83 | 16     | 19    | 25   | 25              |
| FT60CS06   |                 | H6006     | 3/8"      | 3.2          | 50         | 54   | 18.6  | 20     | 25    | 27   | 25              |
| FT60CS09   |                 | H6009     | 9/16"     | 4.8          | 67         | 70   | 21.66 | 30     | 33.25 | 35   | 38              |
| FT100CS04  | 100,000         | H10004    | 1/4"      | 2.4          | 63         | 63   | 14.4  | 16     | 31.5  | 31.5 | 25              |
| FT100CS06  |                 | H10006    | 3/8"      | 2.4          | 76.2       | 76.2 | 18.11 | 20.6   | 38.1  | 38.1 | 35              |
| FT100CS09  |                 | H10009    | 9/16"     | 4.8          | 67         | 70   | 21.66 | 30     | 33.5  | 35   | 38              |
| FT150CS06  | 150,000         | H15006    | 3/8"      | 2.4          | 90         | 90   | 18.3  | 20.6   | 45    | 45   | 38              |



All dimensions are for reference only and may differ from the actual size.  
NPT, PT standard and specification production possible.  
(please contact customer service center)