



# Screw to connect heavy duty couplings



## FSC Series



### INTRODUCTION

Holmbury's FSC Series flat faced screw to connect couplings offer a compact, rugged connection to eliminate brinelling. An ideal solution for high pressure pulses and demanding applications.



**PLEASE NOTE** Holmbury FSC range can be interchanged with other brands - use the QR code opposite for further information



### CONSTRUCTION

- Carbon steel with zinc nickel plating (1200 hours with no red rust in salt spray tests)
- Fitted with NBR seals, Polyurethane and PTFE backup ring
- Other seal options available on request

### FEATURES

- Screw to connect design eliminates brinelling
- Integral connect under pressure feature
- Flat faces are easily wiped clean
- Allows for minimal inclusion of air and contaminants during connection
- Flat face design prevents fluid loss during disconnection
- Bidirectional flow
- Locking Pin option available on sizes 19 and 25

### ACCESSORIES

- Dust caps, plugs and replacement locking pins are available for the FSC Series

### SPECIFICATIONS

- Operating temperatures (With NBR seals): -30°C (-22°F) to 100°C (212°F)

### APPLICATIONS

- Hydraulic attachments
- Hammer circuits
- High pressure pulse applications
- Leak free environments
- Construction plant, mobile equipment, general industrial, mining and agricultural industries
- Agricultural

### FSC PERFORMANCE CHARACTERISTICS

| Body Size                          | FSC10                         | FSC12         | FSC16         | FSC16         | FSC25         |
|------------------------------------|-------------------------------|---------------|---------------|---------------|---------------|
|                                    | Pressure in bar - Flow in LPM |               |               |               |               |
|                                    | Pressure in PSI - Flow in GPM |               |               |               |               |
| Maximum working pressure (Coupled) | 550<br>7975                   | 550<br>7975   | 550<br>7975   | 500<br>7250   | 470<br>6815   |
| Burst pressure (Coupled)           | 1400<br>20300                 | 1400<br>20300 | 1400<br>20300 | 1400<br>20300 | 1300<br>18850 |
| Burst pressure (Male)              | 1400<br>20300                 | 1400<br>20300 | 1400<br>20300 | 1400<br>20300 | 1300<br>18850 |
| Burst pressure (Female)            | 1100<br>15950                 | 1000<br>14500 | 1000<br>14500 | 1050<br>15225 | 1000<br>14500 |
| Rated flow                         | 23<br>6.1                     | 45<br>12      | 74<br>20      | 100<br>26.4   | 189<br>50     |

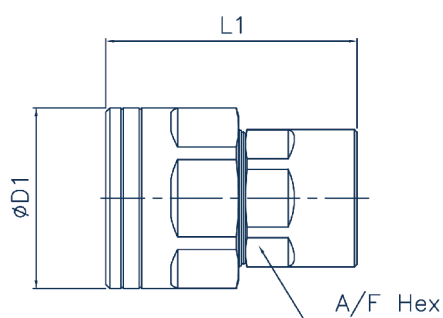
### CAPS/PLUGS/PINS ACCESSORIES

| FEMALE PLUGS | MALE CAPS   |
|--------------|-------------|
| HFT10-F-PLUG | HFT10-M-CAP |
| HFT12-F-PLUG | HFT12-M-CAP |
| HFT16-F-PLUG | HFT16-M-CAP |
| HFT19-F-PLUG | HFT19-M-CAP |
| HFT25-F-PLUG | HFT25-M-CAP |

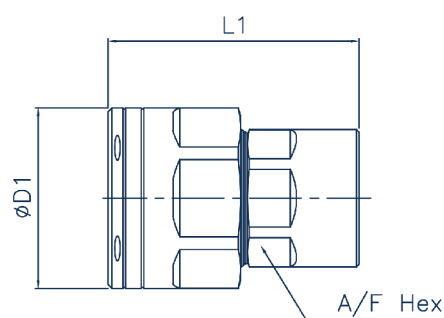
| PINS      |
|-----------|
| FSC-F-PIN |



FSC10 to FSC16  
(Without Locking Pin)



FSC19 & FSC25  
(With Locking Pin)  
Mate with FSC Male  
O Ring MUST be removed



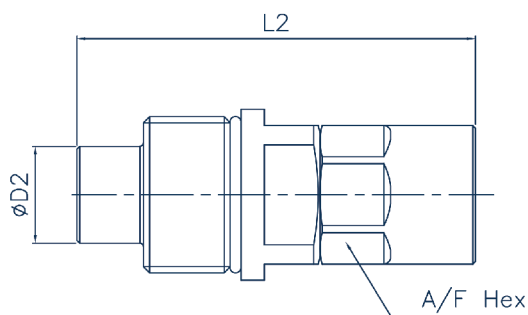
### FSC FEMALE COUPLING

| Body Size       | Part Number    | Thread Size  | D1   |      | L1   |      | A/F  |      |
|-----------------|----------------|--------------|------|------|------|------|------|------|
|                 |                |              | mm   | inch | mm   | inch | mm   | inch |
| <b>10 (3/8)</b> | FSC10-F-06G    | 3/8 BSPP     | 40.0 | 1.57 | 68.5 | 2.70 | 21.0 | 0.83 |
|                 | FSC10-F-06N    | 3/8 NPTF     | 40.0 | 1.57 | 68.2 | 2.69 | 23.8 | 0.94 |
|                 | FSC10-F-08N    | 1/2 NPTF     | 40.0 | 1.57 | 68.8 | 2.71 | 25.4 | 1.00 |
|                 | FSC10-F-08S    | 3/4-16 UNF   | 40.0 | 1.57 | 68.8 | 2.71 | 23.8 | 0.94 |
| <b>12 (1/2)</b> | FSC12-F-08G    | 1/2 BSPP     | 49.2 | 1.94 | 76.4 | 3.01 | 28.5 | 1.12 |
|                 | FSC12-F-08N    | 1/2 NPTF     | 49.2 | 1.94 | 76.4 | 3.01 | 28.5 | 1.12 |
|                 | FSC12-F-12N    | 3/4 NPTF     | 49.2 | 1.94 | 78.3 | 3.08 | 33.3 | 1.31 |
|                 | FSC12-F-12S    | 1 1/16-12 UN | 49.2 | 1.94 | 78.9 | 3.11 | 33.3 | 1.31 |
| <b>16 (5/8)</b> | FSC16-F-12N    | 3/4 NPTF     | 53.9 | 2.12 | 84.3 | 3.32 | 30.0 | 1.18 |
|                 | FSC16-F-12S    | 1 1/16-12 UN | 53.9 | 2.12 | 84.3 | 3.32 | 30.0 | 1.18 |
| <b>19 (3/4)</b> | FSC19-F-12G-LP | 3/4 BSPP     | 58.7 | 2.31 | 88.0 | 3.45 | 31.8 | 1.25 |
|                 | FSC19-F-16N-LP | 1 NPTF       | 58.7 | 2.31 | 91.5 | 3.58 | 34.9 | 1.37 |
|                 | FSC19-F-16S-LP | 1 5/16-12 UN | 58.7 | 2.31 | 89.6 | 3.51 | 34.9 | 1.37 |
| <b>25 (1)</b>   | FSC25-F-16G-LP | 1 BSPP       | 66.7 | 2.63 | 92.7 | 3.65 | 39.7 | 1.56 |
|                 | FSC25-F-20N-LP | 1 1/4 NPTF   | 66.7 | 2.63 | 93.2 | 3.67 | 46.0 | 1.81 |
|                 | FSC25-F-20S-LP | 1 5/8-12 UN  | 66.7 | 2.63 | 92.7 | 3.65 | 42.9 | 1.69 |

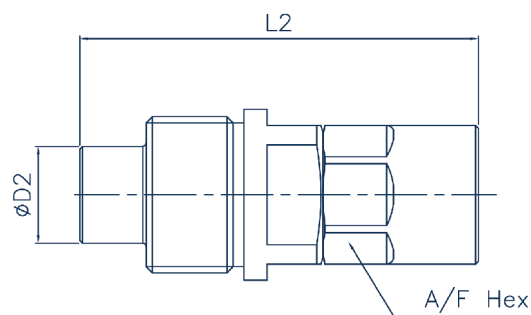
**CAUTION** - Please see installation guide on page 89 of the QRC catalogue



FSC10 to FSC16  
(With O Ring)



FSC19 & FSC25  
(Without O Ring)  
Mate with FSC Female  
with Locking Pin



### FSC MALE COUPLING

| Body Size       | Part Number | Thread Size  | D2   |      | L2    |      | A/F  |      |
|-----------------|-------------|--------------|------|------|-------|------|------|------|
|                 |             |              | mm   | inch | mm    | inch | mm   | inch |
| <b>10 (3/8)</b> | FSC10-M-06G | 3/8 BSPP     | 19.7 | 0.78 | 93.4  | 3.68 | 19.0 | 0.75 |
|                 | FSC10-M-06N | 3/8 NPTF     | 19.7 | 0.78 | 92.7  | 3.65 | 19.0 | 0.75 |
|                 | FSC10-M-08N | 1/2 NPTF     | 19.7 | 0.78 | 94.8  | 3.73 | 25.4 | 1.00 |
|                 | FSC10-M-08S | 3/4-16 UNF   | 19.7 | 0.78 | 95.0  | 3.74 | 23.8 | 0.94 |
| <b>12 (1/2)</b> | FSC12-M-08G | 1/2 BSPP     | 24.5 | 0.96 | 97.5  | 3.84 | 22.2 | 0.87 |
|                 | FSC12-M-08N | 1/2 NPTF     | 24.5 | 0.96 | 96.6  | 3.80 | 30.0 | 1.18 |
|                 | FSC12-M-12N | 3/4 NPTF     | 24.5 | 0.96 | 100.6 | 3.96 | 30.0 | 1.18 |
|                 | FSC12-M-12S | 1 1/16-12 UN | 24.5 | 0.96 | 102.6 | 4.04 | 28.5 | 1.12 |
| <b>16 (5/8)</b> | FSC16-M-12N | 3/4 NPTF     | 26.9 | 1.06 | 124.5 | 4.90 | 30.0 | 1.18 |
|                 | FSC16-M-12S | 1 1/16-12 UN | 26.9 | 1.06 | 126.7 | 4.99 | 31.8 | 1.25 |
| <b>19 (3/4)</b> | FSC19-M-12G | 3/4 BSPP     | 29.9 | 1.17 | 128.3 | 5.02 | 30.0 | 1.18 |
|                 | FSC19-M-16N | 1 NPTF       | 29.9 | 1.17 | 130.5 | 5.11 | 36.5 | 1.44 |
|                 | FSC19-M-16S | 1 5/16-12 UN | 29.9 | 1.17 | 132.3 | 5.18 | 38.1 | 1.50 |
| <b>25 (1)</b>   | FSC25-M-16G | 1 BSPP       | 36.0 | 1.42 | 152.3 | 6.00 | 36.5 | 1.44 |
|                 | FSC25-M-20N | 1 1/4 NPTF   | 36.0 | 1.42 | 150.6 | 5.93 | 46.0 | 1.81 |
|                 | FSC25-M-20S | 1 5/8-12 UN  | 36.0 | 1.42 | 148.1 | 5.83 | 46.0 | 1.81 |

**CAUTION** - Please see installation guide on page 89 of the QRC catalogue