

# Check Valves

10C, 10CO Series: 10,000 psig (690 bar)

15C, 15CO Series: 15,000 psig (1034 bar)

20C, 20CO Series: 20,000 psig (1379 bar)

60C, 60CO Series: 60,000 psig (4137 bar)



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Part Number  
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**Ordering Number Description** E-63

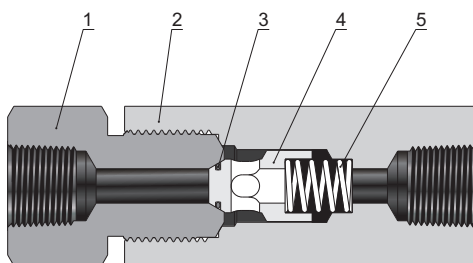
# 10C Series: 10,000 psig (690 bar)

## Pipe O-Ring Check Valves

### Features

- Cracking pressure: 14 psig~26 psig (0.97 bar~1.79 bar)
- Fluorocarbon FKM O-ring for operation from 0°F to 400°F (-17.8°C to 204°C); other materials of O-rings available
- Provide unidirectional flow and tight shut-off for liquids and gases with high reliability. When differential drops below cracking pressure, valve shuts off (not for use as relief valve)
- Resilient O-ring seat design ensures noise-free closing and reliable reverse flow prevention

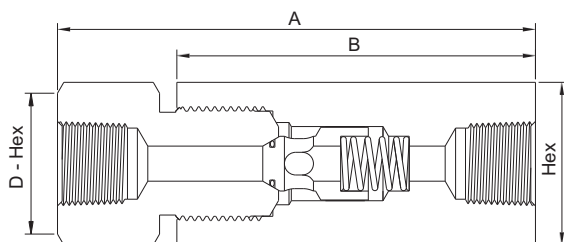
### Standard Materials of Construction



| Item      | Component          | Material Grade                         |
|-----------|--------------------|--|
| 1         | <i>Cover Gland</i> | <i>316 SS</i>                          |
| 2         | <i>Valve Body</i>  | <i>316 SS</i>                          |
| 3         | <i>O-Ring</i>      | <i>Fluorocarbon FKM</i>                |
| 4         | <i>Poppet</i>      | <i>316 SS</i>                          |
| 5         | <i>Spring</i>      | <i>300 Series Stainless Steel</i>      |
| Lubricant |                    | Molybdenum Disulfide/Fluorinated-Based |

Wetted components listed in italics.

### Ordering Information and Dimensions



| Ordering Number | Connection | Orifice in. (mm) | Cv   | Dimensions, in. (mm) |              |             |             | Working Pressure psig (bar) |
|-----------------|------------|------------------|------|----------------------|--------------|-------------|-------------|-----------------------------|
|                 |            |                  |      | A                    | B            | D - Hex     | Hex         |                             |
| 10CSS-FNS12     | FNS12      | 0.52 (13.21)     | 4.70 | 6.11 (155.3)         | 4.75 (120.7) | 1.5 (38.1)  | 1.75 (44.5) | 10,000 (690)                |
| 10CSS-FNS16     | FNS16      | 0.69 (17.53)     | 7.40 | 7.33 (186.2)         | 5.75 (146.1) | 1.75 (44.5) | 1.88 (47.8) | 10,000 (690)                |

Notes: 1. For other pipe connections, please refer to 15C Series Pipe O-Ring Check Valves for details.  
2. Dimensions are for reference only and are subject to change. For dimensions not shown above, please contact FITOK Group or our authorized distributors.

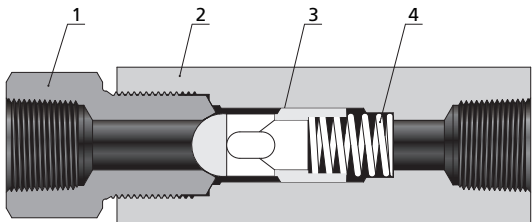
# 10CO Series: 10,000 psig (690 bar)

## Pipe Ball Check Valves

### Features

- Working temperature range: -110°F to 400°F (-79°C to 204°C)
- Prevent reverse flow where leak-tight shut-off is not mandatory (not for use as relief valve)
- An integral design of the ball and poppet to assure positive, in-line seating without "chatter".  
Poppet designed essentially for axial flow with minimum pressure drop
- Optional materials of cover gland and ball poppet for longer life

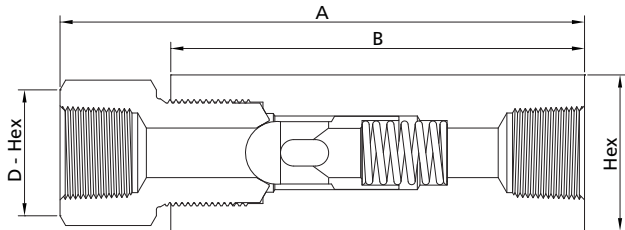
### Standard Materials of Construction



| Item      | Component          | Material Grade                         |
|-----------|--------------------|--|
| 1         | <i>Cover Gland</i> | <i>316 SS</i>                          |
| 2         | <i>Valve Body</i>  | <i>316 SS</i>                          |
| 3         | <i>Ball Poppet</i> | <i>S17400 SS</i>                       |
| 4         | <i>Spring</i>      | <i>300 Series Stainless Steel</i>      |
| Lubricant |                    | Molybdenum Disulfide/Fluorinated-Based |

Wetted components listed in italics.

### Ordering Information and Dimensions



| Ordering Number | Connection | Orifice in. (mm) | Cv   | Dimensions, in. (mm) |              |             |             | Working Pressure psig (bar) |
|-----------------|------------|------------------|------|----------------------|--------------|-------------|-------------|-----------------------------|
|                 |            |                  |      | A                    | B            | D - Hex     | Hex         |                             |
| 10COSS-FNS12    | FNS12      | 0.52 (13.21)     | 4.70 | 6.11 (155.3)         | 4.75 (120.7) | 1.5 (38.1)  | 1.75 (44.5) | 10,000 (690)                |
| 10COSS-FNS16    | FNS16      | 0.69 (17.53)     | 7.40 | 7.33 (186.2)         | 5.75 (146.1) | 1.75 (44.5) | 1.88 (47.8) | 10,000 (690)                |

Notes: 1. For other pipe connections, please refer to 15CO Series Pipe Ball Check Valves for details.  
2. Dimensions are for reference only and are subject to change. For dimensions not shown above, please contact FITOK Group or our authorized distributors.

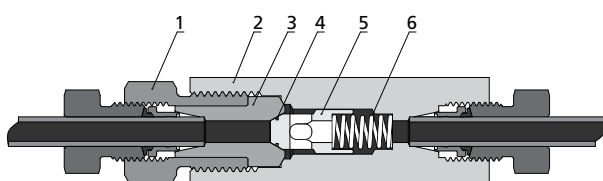
# 15C Series: 15,000 psig (1034 bar)

## O-Ring Check Valves

### Features

- Cracking pressure: 14 psig~26 psig (0.97 bar~1.79 bar)
- Fluorocarbon FKM O-ring for operation from 0°F to 400°F (-17.8°C to 204°C); other materials of O-rings available
- Tubing sizes available in 1/4", 3/8" and 1/2"
- Provide unidirectional flow and tight shut-off for liquids and gases with high reliability. When differential drops below cracking pressure, valve shuts off (not for use as relief valve)
- Resilient O-ring seat design ensures noise-free closing and reliable reverse flow prevention

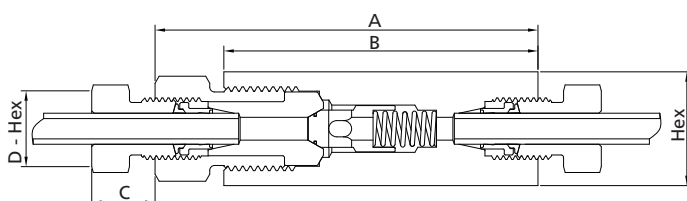
### Standard Materials of Construction



| Item      | Component   | Material Grade                         |
|-----------|-------------|--|
| 1         | Cover Gland | 316 SS                                 |
| 2         | Valve Body  | 316 SS                                 |
| 3         | Cover       | 316SS                                  |
| 4         | O-Ring      | Fluorocarbon FKM                       |
| 5         | Poppet      | 316 SS                                 |
| 6         | Spring      | 300 Series Stainless Steel             |
| Lubricant |             | Molybdenum Disulfide/Fluorinated-Based |

Wetted components listed in italics.

### Ordering Information and Dimensions



| Ordering Number | Connection | Orifice in. (mm) | Cv   | Dimensions, in. (mm) |             |             |             |             | Working Pressure psig (bar) |
|-----------------|------------|------------------|------|----------------------|-------------|-------------|-------------|-------------|-----------------------------|
|                 |            |                  |      | A                    | B           | C           | D - Hex     | Hex         |                             |
| 15CSS-DFF4      | DFF4       | 0.188 (4.78)     | 0.63 | 3.35 (85)            | 2.72 (69.2) | 0.52 (13.3) | 0.63 (16.0) | 0.81 (20.6) | 15,000 (1034)               |
| 15CSS-DFF6      | DFF6       | 0.250 (6.35)     | 1.70 | 3.72 (94.6)          | 3.13 (79.6) | 0.53 (13.5) | 0.75 (19.1) | 1.00 (25.4) | 15,000 (1034)               |
| 15CSS-DFF8      | DFF8       | 0.36 (9.12)      | 2.30 | 4.41 (112.0)         | 3.68 (93.5) | 0.60 (15.3) | 0.93 (23.6) | 1.38 (35.1) | 15,000 (1034)               |

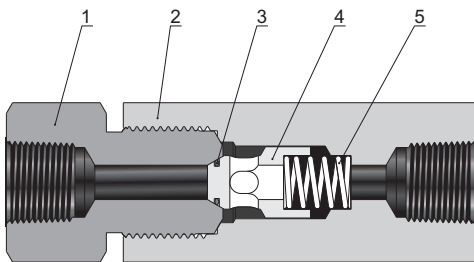
Note: Dimensions are for reference only and are subject to change. For dimensions not shown above, please contact FITOK Group or our authorized distributors.

Pipe O-Ring Check Valves

Features

- Cracking pressure: 14 psig~26 psig (0.97 bar~1.79 bar)
- Fluorocarbon FKM O-ring for operation from 0°F to 400°F (-17.8°C to 204°C);  
other materials of O-rings available
- Provide unidirectional flow and tight shut-off for liquids and gases with high reliability.  
When differential drops below cracking pressure, valve shuts off (not for use as relief valve)
- Resilient O-ring seat design ensures noise-free closing and reliable reverse flow prevention

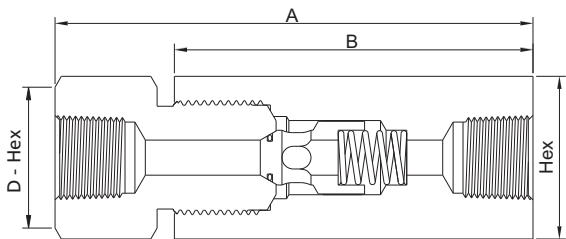
Standard Materials of Construction



| Item      | Component          | Material Grade                         |
|-----------|--------------------|--|
| 1         | <i>Cover Gland</i> | <i>316 SS</i>                          |
| 2         | <i>Valve Body</i>  | <i>316 SS</i>                          |
| 3         | <i>O-Ring</i>      | <i>Fluorocarbon FKM</i>                |
| 4         | <i>Poppet</i>      | <i>316 SS</i>                          |
| 5         | <i>Spring</i>      | <i>300 Series Stainless Steel</i>      |
| Lubricant |                    | Molybdenum Disulfide/Fluorinated-Based |

Wetted components listed in italics.

Ordering Information and Dimensions



| Ordering Number | Connection | Orifice in. (mm) | Cv   | Dimensions, in. (mm) |             |             |             | Working Pressure psig (bar) |
|-----------------|------------|------------------|------|----------------------|-------------|-------------|-------------|-----------------------------|
|                 |            |                  |      | A                    | B           | D - Hex     | Hex         |                             |
| 15CSS-FNS4      | FNS4       | 0.12 (3.05)      | 0.28 | 3.30 (83.8)          | 2.38 (60.3) | 0.94 (23.8) | 0.94 (23.8) | 15,000 (1034)               |
| 15CSS-FNS6      | FNS6       | 0.22 (5.59)      | 0.84 | 3.95 (100.3)         | 2.88 (73.2) | 1.13 (28.6) | 1.13 (28.6) | 15,000 (1034)               |
| 15CSS-FNS8      | FNS8       | 0.36 (9.12)      | 2.30 | 5.07 (128.9)         | 3.88 (98.6) | 1.38 (34.9) | 1.38 (34.9) | 15,000 (1034)               |

Note: Dimensions are for reference only and are subject to change. For dimensions not shown above, please contact FITOK Group or our authorized distributors.

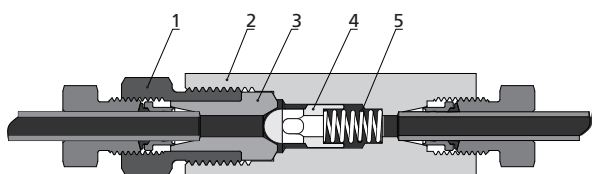
# 15CO Series: 15,000 psig (1034 bar)

## Ball Check Valves

### Features

- Working temperature range: -110°F to 800°F (-79°C to 427°C)
- Tubing sizes available in 1/4", 3/8" and 1/2"
- Prevent reverse flow where leak-tight shut-off is not mandatory (not for use as relief valve)
- An integral design of the ball and poppet to assure positive, in-line seating without "chatter".  
Poppet designed essentially for axial flow with minimum pressure drop
- Optional materials of cover and ball poppet for longer life

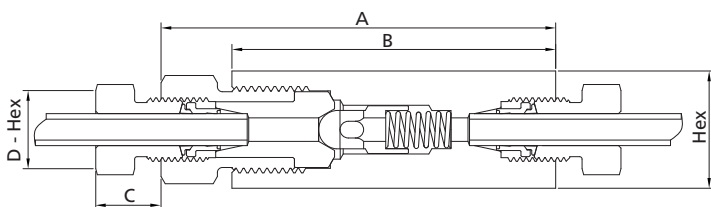
### Standard Materials of Construction



| Item      | Component   | Material Grade                         |
|-----------|-------------|--|
| 1         | Cover Gland | 316 SS                                 |
| 2         | Valve Body  | 316 SS                                 |
| 3         | Cover       | 316 SS                                 |
| 4         | Ball Poppet | S17400 SS                              |
| 5         | Spring      | 300 Series Stainless Steel             |
| Lubricant |             | Molybdenum Disulfide/Fluorinated-Based |

*Wetted components listed in italics.*

### Ordering Information and Dimensions



| Ordering Number | Connection | Orifice in. (mm) | Cv   | Dimensions, in. (mm) |             |             |             |             | Working Pressure psig (bar) |
|-----------------|------------|------------------|------|----------------------|-------------|-------------|-------------|-------------|-----------------------------|
|                 |            |                  |      | A                    | B           | C           | D - Hex     | Hex         |                             |
| 15COSS-DFF4     | DFF4       | 0.188 (4.78)     | 0.63 | 3.35 (85)            | 2.72 (69.2) | 0.52 (13.3) | 0.63 (16.0) | 0.81 (20.6) | 15,000 (1034)               |
| 15COSS-DFF6     | DFF6       | 0.250 (6.35)     | 1.70 | 3.72 (94.6)          | 3.13 (79.6) | 0.53 (13.5) | 0.75 (19.1) | 1.00 (25.4) | 15,000 (1034)               |
| 15COSS-DFF8     | DFF8       | 0.36 (9.12)      | 2.30 | 4.41 (112.0)         | 3.68 (93.5) | 0.60 (15.3) | 0.93 (23.6) | 1.38 (35.1) | 15,000 (1034)               |

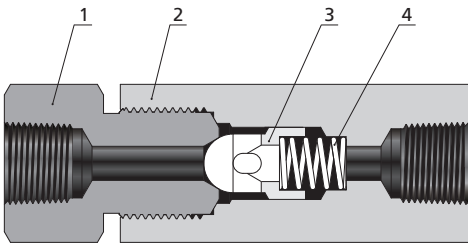
Note: Dimensions are for reference only and are subject to change. For dimensions not shown above, please contact FITOK Group or our authorized distributors.

Pipe Ball Check Valves

Features

- Working temperature range: -110°F to 400°F (-79°C to 204°C)
- Prevent reverse flow where leak-tight shut-off is not mandatory (not for use as relief valve)
- An integral design of the ball and poppet to assure positive, in-line seating without "chatter".  
Poppet is designed essentially for axial flow with minimum pressure drop
- Optional materials of cover gland and ball poppet for longer life

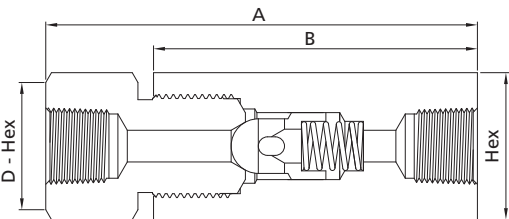
Standard Materials of Construction



| Item      | Component   | Material Grade                         |
|-----------|-------------|--|
| 1         | Cover Gland | 316 SS                                 |
| 2         | Valve Body  | 316 SS                                 |
| 3         | Ball Poppet | S17400 SS                              |
| 4         | Spring      | 300 Series Stainless Steel             |
| Lubricant |             | Molybdenum Disulfide/Fluorinated-Based |

Wetted components listed in italics.

Ordering Information and Dimensions



| Ordering Number | Connection | Orifice in. (mm) | Cv   | Dimensions, in. (mm) |             |             |             | Working Pressure psig (bar) |
|-----------------|------------|------------------|------|----------------------|-------------|-------------|-------------|-----------------------------|
|                 |            |                  |      | A                    | B           | D - Hex     | Hex         |                             |
| 15COSS-FNS4     | FNS4       | 0.12 (3.05)      | 0.28 | 3.30 (83.8)          | 2.38 (60.3) | 0.94 (23.8) | 0.94 (23.8) | 15,000 (1034)               |
| 15COSS-FNS6     | FNS6       | 0.22 (5.59)      | 0.84 | 3.95 (100.3)         | 2.88 (73.2) | 1.13 (28.6) | 1.13 (28.6) | 15,000 (1034)               |
| 15COSS-FNS8     | FNS8       | 0.36 (9.12)      | 2.30 | 5.07 (128.9)         | 3.88 (98.6) | 1.38 (34.9) | 1.38 (34.9) | 15,000 (1034)               |

Note: Dimensions are for reference only and are subject to change. For dimensions not shown above, please contact FITOK Group or our authorized distributors.



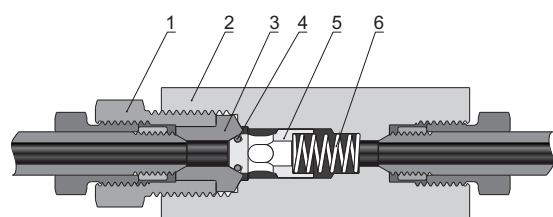
# 20C Series: 20,000 psig (1379 bar)

## O-Ring Check Valves

### Features

- Cracking pressure: 14 psig~26 psig (0.97 bar~1.79 bar)
- Fluorocarbon FKM O-ring for operation from 0°F to 400°F (-17.8°C to 204°C); other materials of O-rings available
- Tubing sizes available from 1/4" to 1"
- Provide unidirectional flow and tight shut-off for liquids and gases with high reliability. When differential drops below cracking pressure, valve shuts off (not for use as relief valve)
- Resilient O-ring seat design ensures noise-free closing and reliable reverse flow prevention

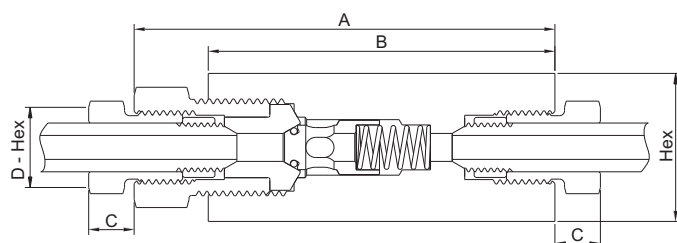
### Standard Materials of Construction



| Item      | Component   | Material Grade                         |
|-----------|-------------|--|
| 1         | Cover Gland | 316 SS                                 |
| 2         | Valve Body  | 316 SS                                 |
| 3         | Cover       | 316 SS                                 |
| 4         | O-Ring      | Fluorocarbon FKM                       |
| 5         | Poppet      | 316 SS                                 |
| 6         | Spring      | 300 Series Stainless Steel             |
| Lubricant |             | Molybdenum Disulfide/Fluorinated-Based |

Wetted components listed in italics.

### Ordering Information and Dimensions



| Ordering Number | Connection | Orifice in. (mm) | Cv   | Dimensions, in. (mm) |              |             |             |             | Working Pressure psig (bar) |
|-----------------|------------|------------------|------|----------------------|--------------|-------------|-------------|-------------|-----------------------------|
|                 |            |                  |      | A                    | B            | C           | D - Hex     | Hex         |                             |
| 20CSS-MF4       | MF4        | 0.125 (3.18)     | 0.28 | 2.94 (74.7)          | 2.50 (63.5)  | 0.38 (9.7)  | 0.50 (12.7) | 0.81 (20.6) | 20,000 (1379)               |
| 20CSS-MF6       | MF6        | 0.218 (5.54)     | 0.84 | 3.12 (79.3)          | 2.62 (66.6)  | 0.44 (11.2) | 0.62 (15.8) | 1.00 (25.4) | 20,000 (1379)               |
| 20CSS-MF9       | MF9        | 0.359 (9.12)     | 2.30 | 4.18 (106.2)         | 3.50 (88.9)  | 0.55 (14.0) | 0.94 (23.9) | 1.38 (35.1) | 20,000 (1379)               |
| 20CSS-MF12      | MF12       | 0.516 (13.11)    | 4.70 | 5.50 (139.7)         | 4.75 (120.7) | 0.60 (15.2) | 1.19 (30.2) | 1.75 (44.5) | 20,000 (1379)               |
| 20CSS-MF16      | MF16       | 0.688 (17.48)    | 7.40 | 6.91 (175.6)         | 5.75 (146.1) | 0.74 (18.8) | 1.38 (35.1) | 2.12 (53.9) | 20,000 (1379)               |

Note: Dimensions are for reference only and are subject to change. For dimensions not shown above, please contact FITOK Group or our authorized distributors.

**FITOK**

Fittings

Tubing

Quick Couplings

Line Filters

Valves

Sour Service Products

Subsea Valves

Part Number Crossover Charts

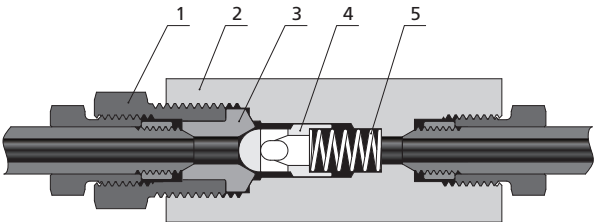
# 20CO Series: 20,000 psig (1379 bar)

## Ball Check Valves

### Features

- Working temperature range: -110°F to 1200°F (-79°C to 649°C)
- Tubing sizes available from 1/4" to 1"
- Prevent reverse flow where leak-tight shut-off is not mandatory (not for use as relief valve)
- An integral design of the ball and poppet to assure positive, in-line seating without "chatter".  
Poppet is designed essentially for axial flow with minimum pressure drop
- Optional materials of cover and ball poppet for longer life

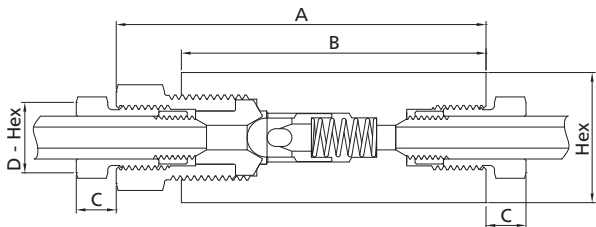
### Standard Materials of Construction



| Item      | Component   | Material Grade                         |
|-----------|-------------|--|
| 1         | Cover Gland | 316 SS                                 |
| 2         | Valve Body  | 316 SS                                 |
| 3         | Cover       | 316 SS                                 |
| 4         | Ball Poppet | S17400 SS                              |
| 5         | Spring      | 300 Series Stainless Steel             |
| Lubricant |             | Molybdenum Disulfide/Fluorinated-Based |

Wetted components listed in italics.

### Ordering Information and Dimensions



| Ordering Number | Connection | Orifice in. (mm) | Cv   | Dimensions, in. (mm) |              |             |             |             | Working Pressure psig (bar) |
|-----------------|------------|------------------|------|----------------------|--------------|-------------|-------------|-------------|-----------------------------|
|                 |            |                  |      | A                    | B            | C           | D - Hex     | Hex         |                             |
| 20COSS-MF4      | MF4        | 0.125 (3.18)     | 0.28 | 2.94 (74.7)          | 2.50 (63.5)  | 0.38 (9.7)  | 0.50 (12.7) | 0.81 (20.6) | 20,000 (1379)               |
| 20COSS-MF6      | MF6        | 0.218 (5.54)     | 0.84 | 3.12 (79.3)          | 2.62 (66.6)  | 0.44 (11.2) | 0.62 (15.8) | 1.00 (25.4) | 20,000 (1379)               |
| 20COSS-MF9      | MF9        | 0.359 (9.12)     | 2.30 | 4.18 (106.2)         | 3.50 (88.9)  | 0.55 (14.0) | 0.94 (23.9) | 1.38 (35.1) | 20,000 (1379)               |
| 20COSS-MF12     | MF12       | 0.516 (13.11)    | 4.70 | 5.50 (139.7)         | 4.75 (120.7) | 0.60 (15.2) | 1.19 (30.2) | 1.75 (44.5) | 20,000 (1379)               |
| 20COSS-MF16     | MF16       | 0.688 (17.48)    | 7.40 | 6.91 (175.6)         | 5.75 (146.1) | 0.74 (18.8) | 1.38 (35.1) | 2.12 (53.9) | 20,000 (1379)               |

Note: Dimensions are for reference only and are subject to change. For dimensions not shown above, please contact FITOK Group or our authorized distributors.

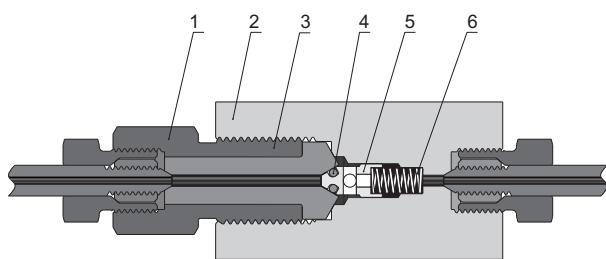
# 60C Series: 60,000 psig (4137 bar)

## O-Ring Check Valves

### Features

- Cracking pressure: 14 psig~26 psig (0.97 bar~1.79 bar)
- Fluorocarbon FKM O-ring for operation from 0°F to 400°F (-17.8°C to 204°C); other materials of O-rings available
- Tubing sizes available from 1/4" to 9/16"
- Provide unidirectional flow and tight shut-off for liquids and gases with high reliability.  
When differential drops below cracking pressure, valve shuts off (not for use as relief valve)
- Resilient O-ring seat design ensures noise-free closing and reliable reverse flow prevention

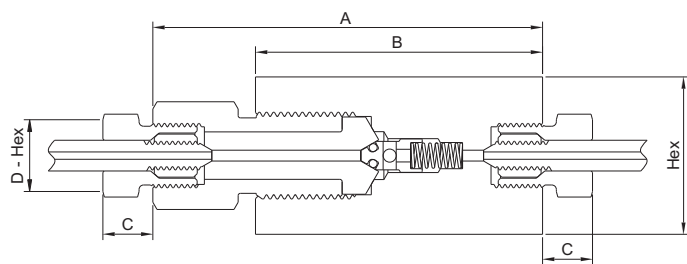
### Standard Materials of Construction



| Item      | Component   | Material Grade                         |
|-----------|-------------|--|
| 1         | Cover Gland | 316 SS                                 |
| 2         | Valve Body  | 316 SS                                 |
| 3         | Cover       | 316 SS                                 |
| 4         | O-Ring      | Fluorocarbon FKM                       |
| 5         | Poppet      | 316 SS                                 |
| 6         | Spring      | 300 Series Stainless Steel             |
| Lubricant |             | Molybdenum Disulfide/Fluorinated-Based |

Wetted components listed in italics.

### Ordering Information and Dimensions



| Ordering Number | Connection | Orifice in. (mm) | Cv   | Dimensions, in. (mm) |             |             |             |             | Working Pressure psig (bar) |
|-----------------|------------|------------------|------|----------------------|-------------|-------------|-------------|-------------|-----------------------------|
|                 |            |                  |      | A                    | B           | C           | D - Hex     | Hex         |                             |
| 60CSS-HF4       | HF4        | 0.094 (2.39)     | 0.15 | 3.38 (85.9)          | 2.50 (63.5) | 0.47 (11.9) | 0.63 (16.0) | 1.18 (30.0) | 60,000 (4137)               |
| 60CSS-HF6       | HF6        | 0.125 (3.18)     | 0.28 | 3.86 (98.1)          | 2.80 (71.1) | 0.61 (15.5) | 0.81 (20.6) | 1.18 (30.0) | 60,000 (4137)               |
| 60CSS-HF9       | HF9        | 0.187 (4.75)     | 0.63 | 4.62 (117.4)         | 3.38 (85.9) | 0.95 (24.1) | 1.12 (28.5) | 1.50 (38.1) | 60,000 (4137)               |

Note: Dimensions are for reference only and are subject to change. For dimensions not shown above, please contact FITOK Group or our authorized distributors.

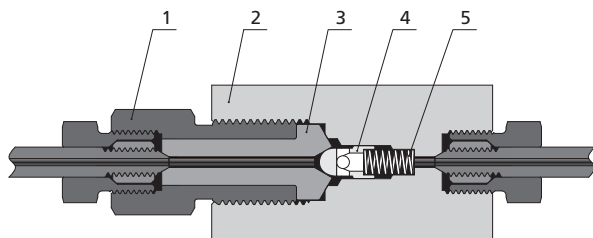
# 60CO Series: 60,000 psig (4137 bar)

## Ball Check Valves

### Features

- Working temperature range: -110°F to 1200°F (-79°C to 649°C)
- Tubing sizes available from 1/4" to 9/16"
- Prevent reverse flow where leak-tight shut-off is not mandatory (not for use as relief valve)
- An integral design of the ball and poppet to assure positive, in-line seating without "chatter".  
Poppet is designed essentially for axial flow with minimum pressure drop
- Optional materials of cover and ball poppet for longer life

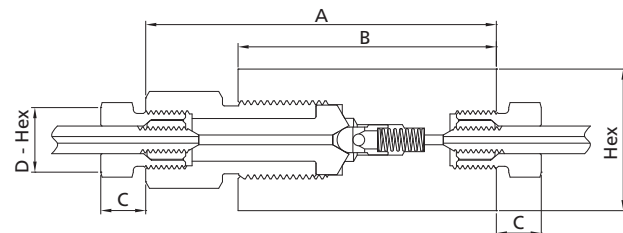
### Standard Materials of Construction



| Item      | Component   | Material Grade                         |
|-----------|-------------|--|
| 1         | Cover Gland | 316 SS                                 |
| 2         | Valve Body  | 316 SS                                 |
| 3         | Cover       | 316 SS                                 |
| 4         | Ball Poppet | S17400 SS                              |
| 5         | Spring      | 300 Series Stainless Steel             |
| Lubricant |             | Molybdenum Disulfide/Fluorinated-Based |

*Wetted components listed in italics.*

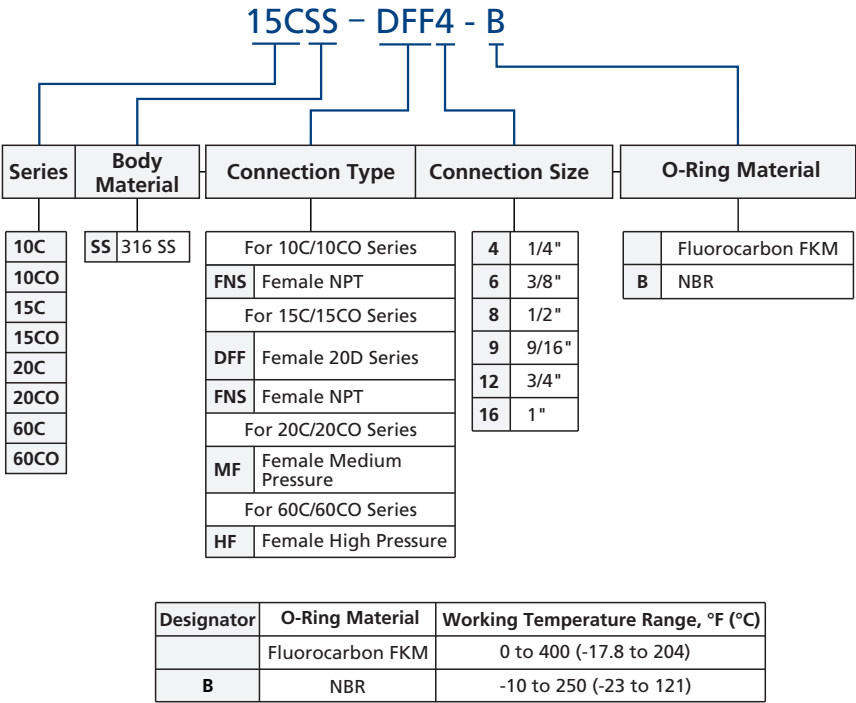
### Ordering Information and Dimensions



| Ordering Number | Connection | Orifice in. (mm) | Cv   | Dimensions, in. (mm) |             |             |              |             | Working Pressure psig (bar) |
|-----------------|------------|------------------|------|----------------------|-------------|-------------|--------------|-------------|-----------------------------|
|                 |            |                  |      | A                    | B           | C           | D - Hex      | Hex         |                             |
| 60COSS-HF4      | HF4        | 0.094 (2.39)     | 0.15 | 3.38 (85.9)          | 2.50 (63.5) | 0.47 (11.9) | 0.63 (16.0)  | 1.18 (30.0) | 60,000 (4137)               |
| 60COSS-HF6      | HF6        | 0.125 (3.18)     | 0.28 | 3.86 (98.1)          | 2.80 (71.1) | 0.61 (15.5) | 0.81 (20.6)  | 1.18 (30.0) | 60,000 (4137)               |
| 60COSS-HF9      | HF9        | 0.187 (4.75)     | 0.63 | 4.62 (117.4)         | 3.38 (85.9) | 0.95 (24.1) | 1.19 (30.16) | 1.50 (38.1) | 60,000 (4137)               |

Note: Dimensions are for reference only and are subject to change. For dimensions not shown above, please contact FITOK Group or our authorized distributors.

# Ordering Number Description



Notes: 1. For more details regarding 20D Series and Medium/High Pressure connections, please see **Connection Information** on A-02.  
2. "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.

|                              |
|------------------------------|
| Fittings                     |
| Tubing                       |
| Quick Couplings              |
| Line Filters                 |
| Valves                       |
| Sour Service Products        |
| Subsea Valves                |
| Part Number Crossover Charts |