

# Excess Flow Valves

15EF Series: 15,000 psig (1034 bar)

20EF Series: 20,000 psig (1379 bar)

60EF Series: 60,000 psig (4137 bar)



Fittings
Tubing
Quick Couplings
Line Filters
Valves
Sour Service Products
Subsea Valves
Tools and Installation Instructions
Technical Information

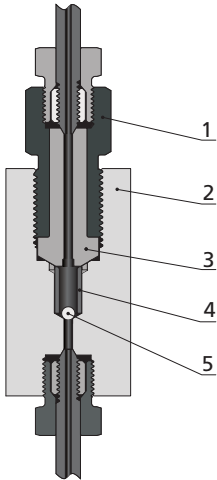
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### Features

- ⦿ Working temperature range:
  - 15EF Series (NPT ends): -110°F to 400°F (-79°C to 204°C)
  - 15EF Series (DFF ends): -110°F to 800°F (-79°C to 427°C)
  - 20EF and 60EF Series: -110°F to 1200°F (-79°C to 649°C)
- ⦿ Protect pressure gauges and pressure instruments from sudden surges in flow or venting in the event of line failure
- ⦿ Equalize the pressure across the ball, and the ball will drop and reset automatically
- ⦿ The valve must be installed in vertical position with arrow on valve body pointing up
- ⦿ Valve body made of high tensile 316 stainless steel for maximum wear and corrosion resistance
- ⦿ Optional materials of cover and ball for longer life

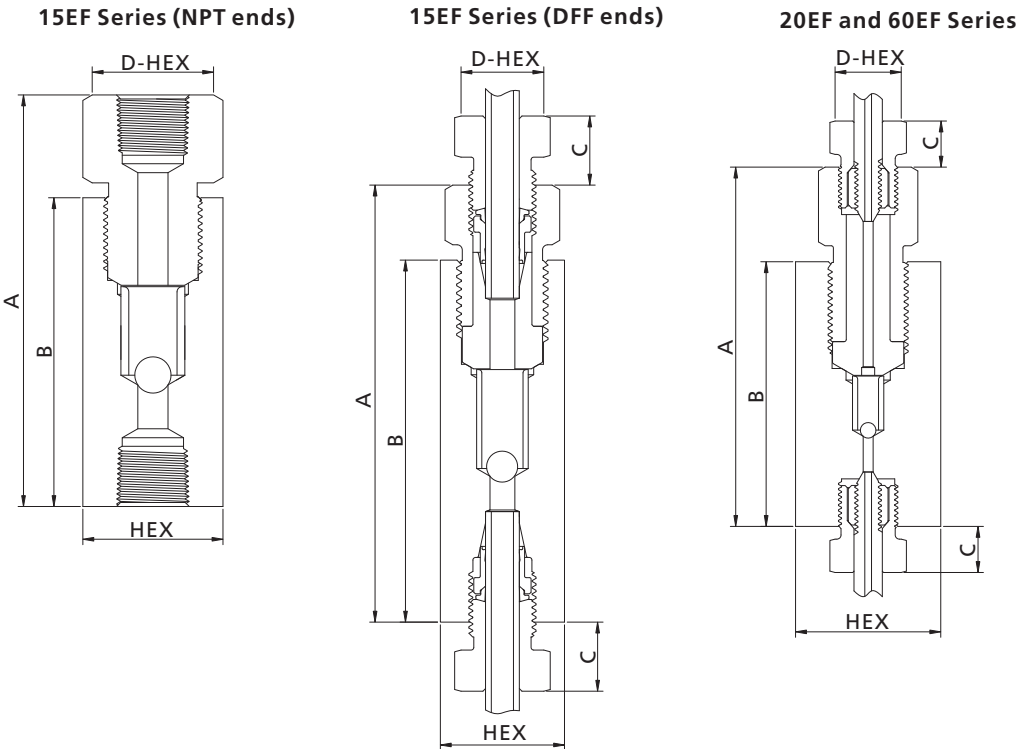
### Standard Materials of Construction



Item	Component	Material Grade
1	Cover Gland	316 SS
2	<i>Valve Body</i>	<i>316 SS</i>
3	<i>Cover</i>	<i>316 SS</i>
4	<i>Sleeve</i>	<i>316 SS</i>
5	<i>Ball</i>	<i>Stainless Steel</i>
	Lubricant	Molybdenum Disulfide/Fluorinated-based

*Wetted components listed in italics.*

### Ordering Information and Dimensions

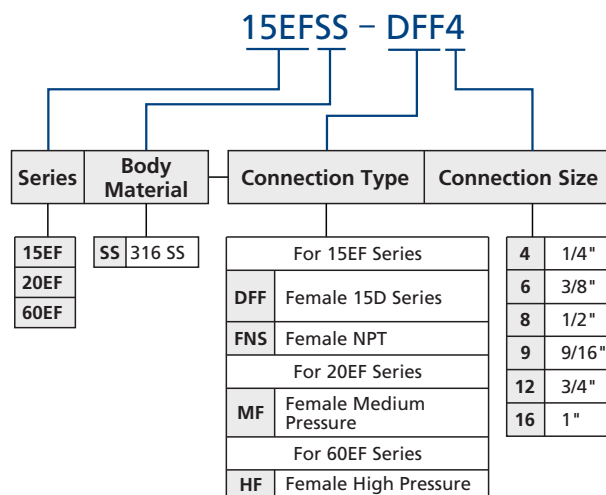


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Ordering Number	Connection	Orifice in. (mm)	Dimensions, in. (mm)					Working Pressure psig (bar)
			A	B	C	D - HEX	HEX	
15EFSS-DFF4	DFF4	0.188 (4.78)	3.35 (85)	2.72 (69.2)	0.52 (13.3)	0.63 (16.0)	0.81 (20.6)	15,000 (1034)
15EFSS-DFF6	DFF6	0.250 (6.35)	3.72 (94.6)	3.13 (79.6)	0.53 (13.5)	0.75 (19.1)	1.00 (25.4)	15,000 (1034)
15EFSS-DFF8	DFF8	0.375 (9.53)	4.41 (112.0)	3.68 (93.5)	0.60 (15.3)	0.93 (23.6)	1.38 (35.1)	15,000 (1034)
15EFSS-FNS4	FNS4	0.12 (3.05)	3.30 (83.8)	2.38 (60.3)	/	0.94 (23.8)	0.94 (23.8)	15,000 (1034)
15EFSS-FNS6	FNS6	0.22 (5.59)	3.95 (100.3)	2.88 (73.2)	/	1.13 (28.6)	1.13 (28.6)	15,000 (1034)
15EFSS-FNS8	FNS8	0.36 (9.12)	5.07 (128.9)	3.88 (98.6)	/	1.38 (34.9)	1.38 (34.9)	15,000 (1034)
20EFSS-MF4	MF4	0.125 (3.18)	2.94 (74.7)	2.50 (63.5)	0.38 (9.7)	0.50 (12.7)	0.81 (20.6)	20,000 (1379)
20EFSS-MF6	MF6	0.218 (5.54)	3.12 (79.3)	2.62 (66.6)	0.44 (11.2)	0.62 (15.8)	1.00 (25.4)	20,000 (1379)
20EFSS-MF9	MF9	0.359 (9.12)	4.18 (106.2)	3.50 (88.9)	0.55 (14.0)	0.94 (23.9)	1.38 (35.1)	20,000 (1379)
20EFSS-MF12	MF12	0.516 (13.11)	5.50 (139.7)	4.75 (120.7)	0.60 (15.2)	1.19 (30.2)	1.75 (44.5)	20,000 (1379)
20EFSS-MF16	MF16	0.688 (17.48)	6.91 (175.6)	5.75 (146.1)	0.74 (18.8)	1.38 (35.1)	2.12 (53.9)	20,000 (1379)
60EFSS-HF4	HF4	0.094 (2.39)	3.38 (85.9)	2.50 (63.5)	0.47 (11.9)	0.63 (16.0)	1.18 (30.0)	60,000 (4137)
60EFSS-HF6	HF6	0.125 (3.18)	3.86 (98.1)	2.80 (71.1)	0.61 (15.5)	0.81 (20.6)	1.18 (30.0)	60,000 (4137)
60EFSS-HF9	HF9	0.187 (4.75)	4.62 (117.4)	3.38 (85.9)	0.95 (24.1)	1.19 (30.16)	1.50 (38.1)	60,000 (4137)

NOTE: All 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 15D Series and Medium/High Pressure connections, please see **Connection Information** on I-02.

2. "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.