VFK

VFK FLUID CONTROL CO.,LTD

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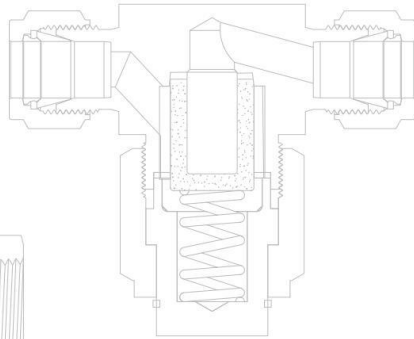
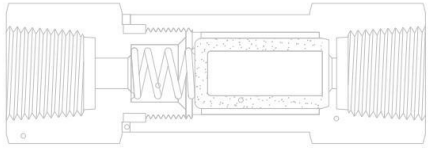
Filters

Climate Control
Electromechanical
Filtration
Fluid & Gas Handling
Hydraulics
Process Control
Sealing & Shielding





VFK

Advanced Fluid Control

Filtration Definitions

- Sintered element: metal powder (alloys are available) is pressed in a die at sufficient pressure that the powder particles adhere at their contact points.
- Strainer element: the strainer is cup-shaped and includes an inner cup-shaped support structure having staggered perforations extending through the surfaces thereof,an outer cup-shaped strainer structure constructed of wire mesh is closely received over the support structure
- Element nominal pore size: the element nominal pore size is normally calculated from the pressure required to cause air to bubble from the largest pore in the filter element when submerged in a test liquid.

Features

Tee-type Filters

66 Series

- Filter element replaceable without removing body from system
- Union bonnet design
- Nominal pore sizes for sintered element: 0.5, 2, 7, 15, 40, 60 and 80μm
- Nominal pore sizes for strainer element: 100, 150, 250 and 450μm
- Maximum working pressure: 6000 psig (414 bar)
- Working temperature: -20F to 900℉ (-29℃ to 482℃)
- Body materials: 316 SS, 316L SS, 304 SS, 304L SS and Brass
- Variety of end connections available

Bypass Filters

66B Series

- Bypass port at filter bottom for the ease of sampling or purging
- Union bonnet design
- Nominal pore sizes for sintered element: 0.5, 2, 7, 15, 40, 60 and 80μm
- Nominal pore sizes for strainer element: 100, 150, 250 and 450μm
- Maximum working pressure: 6000 psig (414 bar)
- Working temperature: -20F to 900℉ (-29℃ to 482℃)
- Body materials: 316 SS, 316L SS, 304 SS, 304L SS and Brass
- Variety of end connections available

In-line Filters

661 Series

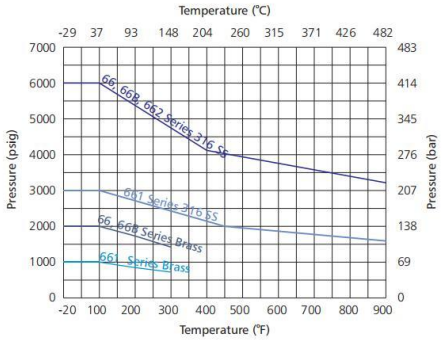
- Compact and space-saving design
- Nominal pore sizes for sintered element: 0.5, 2, 7, 15, 40, 60 and 80μm
- Nominal pore sizes for strainer element: 100, 150, 250 and 450μm
- Maximum working pressure: 3000 psig (207 bar)
- Working temperature: -20F to 900℉ (-29℃ to 482℃)
- Body materials: 316 SS, 316L SS, 304 SS, 304L SS, 321 SS and Brass
- Variety of end connections available

All-welded In-line Filters

662 Series

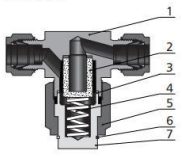
- Large filtration area and high flow coefficient
- All-welded construction for elimination of leakage
- Easy cleaning of filters by backflushing
- Full-penetration weld between body and element
- Nominal pore sizes for sintered element: 0.5, 2, 7, 15, 40, 60 and 80μm
- Maximum working pressure: 6000 psig (414 bar)
- Working temperature: -20F to 900℉ (-29℃ to 482℃)
- Body materials: 316 SS, 316LSS, 304 SS, 304LSS and Brass
- Variety of end connections available

Pressure vs. Temperature

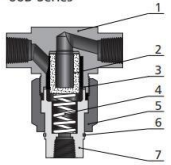


Contact the authorized representative or VFK for curve graph of other materials

66 Series



66B Series



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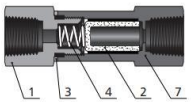

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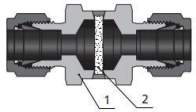


Standard Materials of Construction

Component		Material Grade/ASTM Specification	
		316 SS	Brass
1	Body	316 SS/A479	Brass/B16
2	Element	Sintered 316 SS or strainer 316 SS	Sintered 316 SS or strainer 316 SS
3	Gasket	PTFE/D1710 or silver-plated 316 SS/A240	PTFE/D1710 or aluminum/B209
4	Spring	302 SS/A313	302 SS/A313
5	Bonnet Nut	316 SS/A479	Brass/B16
6	Backup Ring	316 SS/A276	
7	Bonnet	316 SS/A479	Brass/B16

1. 662 Series filters not available in brass
2. Lubricants: molybdenum disulfide-based and silicone-based

Maximum Differential Pressure of Clean Filter at 70°F (20°C)

Series	Maximum Differential Pressure psig (bar)										
	0.5 micron	2 micron	7 micron	15 micron	40 micron	60 micron	80 micron	100 micron	150 micron	250 micron	450 micron
66, 66B, 661	2250 (155.2)	2250 (155.2)	1950 (134.5)	1750 (120.3)	1150 (79.3)	1150 (79.3)	1000 (68.9)	1000 (68.9)	1000 (68.9)	1000 (68.9)	1000 (68.9)
662	600 (41.4)	100 (6.9)	100 (6.9)	100 (6.9)	——	——	——	——	——	——	——

Elements

Nominal Pore Size µm	Pore Size Range µm	Element Type
0.5	0.5 to 2	Sintered
2	1 to 4	
7	5 to 10	
15	11 to 25	
40	35 to 53	
60	50 to 75	
80	70 to 95	
100	——	Strainer
150	——	
250	——	
450	——	

Filtration Area

Series	Orifice in. (mm)	Filtration Area in.^{2}(mm^2)	
		Sintered	Strainer
266, 266B	0.094 (2.04)	1.30 (830)	1.00 (640)
466, 466B	0.172 (4.36)	1.30 (830)	1.00 (640)
666, 666B	0.213 (5.41)	2.00 (1280)	1.70 (1090)
866, 866B	0.250 (6.35)	2.00 (1280)	1.70 (1090)
2661	0.094 (2.39)	0.55 (350)	——
4661	0.187 (4.75)	1.30 (830)	1.00 (640)
6661	0.281 (7.14)	2.00 (1280)	1.70 (1090)
8661	0.406 (10.30)	2.00 (1280)	1.70 (1090)
4FW	0.187 (4.75)	0.44 (283)	——

Flow Data at 70°F (20°C)

66, 66B Series

Pressure Drop to Atmosphere p psig (bar)	2 Series		4 Series		6, 8 Series	
	Water Flow, U.S. gal (L/min)	Air Flow, std ft^3/min (std L/min)	Water Flow, U.S. gal (L/min)	Air Flow, std ft^3/min (std L/min)	Water Flow, U.S. gal (L/min)	Air Flow, std ft^3/min (std L/min)
	0.5 Micron Cv = 0.035		0.5 Micron Cv = 0.035		0.5 Micron Cv = 0.052	
5 (0.34)	0.07 (0.26)	0.40 (11.3)	0.07 (0.26)	0.40 (11.3)	0.11 (0.43)	0.47 (13.3)
10 (0.69)	0.11 (0.42)	0.50 (14.2)	0.11 (0.42)	0.50 (14.2)	0.16 (0.62)	0.74 (21.0)
50 (3.45)	0.25 (0.95)	1.33 (37.7)	0.25 (0.95)	1.33 (37.7)	0.36 (1.38)	1.96 (55.5)
	2 Micron Cv = 0.068		2 Micron Cv = 0.072		2 Micron Cv = 0.096	
5 (0.34)	0.15 (0.56)	0.77 (21.8)	0.16 (0.60)	0.82 (23.2)	0.21 (0.81)	1.09 (30.9)
10 (0.69)	0.22 (0.83)	0.97 (27.5)	0.22 (0.83)	1.02 (28.9)	0.30 (1.14)	1.37 (38.8)
50 (3.45)	0.48 (1.81)	2.58 (73.1)	0.51 (1.93)	2.72 (77.0)	0.67 (2.53)	3.64 (103.1)
	7 Micron Cv = 0.158		7 Micron Cv = 0.165		7 Micron Cv = 0.35	
5 (0.34)	0.35 (1.32)	1.80 (51.0)	0.37 (1.40)	1.88 (53.2)	0.78 (2.96)	4.00 (113.3)
10 (0.69)	0.50 (1.89)	2.25 (63.7)	0.52 (1.96)	2.35 (66.5)	1.10 (4.18)	5.00 (141.6)
50 (3.45)	1.12 (4.22)	5.98 (169.3)	1.16 (4.38)	6.25 (177.0)	2.47 (9.35)	13.30 (376.6)
	15 Micron Cv = 0.19		15 Micron Cv = 0.20		15 Micron Cv = 0.37	
5 (0.34)	0.42 (1.61)	2.16 (61.2)	0.44 (1.66)	2.28 (64.6)	0.82 (3.12)	4.20 (118.9)
10 (0.69)	0.60 (2.27)	2.71 (76.7)	0.63 (2.38)	2.85 (80.7)	0.82 (3.12)	5.28 (149.5)
50 (3.45)	1.34 (5.06)	7.20 (203.9)	1.41 (5.33)	7.58 (214.6)	2.61 (9.88)	14.00 (396.4)
	40 Micron Cv = 0.23		40 Micron Cv = 0.24		40 Micron Cv = 0.42	
5 (0.34)	0.51 (1.94)	2.62 (74.2)	0.54 (2.04)	2.74 (77.6)	0.93 (3.54)	4.80 (135.9)
10 (0.69)	0.73 (2.76)	3.28 (96.8)	0.76 (2.87)	3.42 (96.8)	1.32 (5.02)	6.00 (169.9)
50 (3.45)	1.63 (6.16)	8.74 (247.5)	1.70 (6.42)	9.11 (258.0)	2.96 (11.20)	15.90 (450.2)
	60 Micron Cv = 0.24		60 Micron Cv = 0.25		60 Micron Cv = 0.45	
5 (0.34)	0.54 (2.04)	2.74 (77.6)	0.56 (2.11)	2.85 (80.7)	1.00 (3.78)	5.10 (144.4)
10 (0.69)	0.76 (2.87)	3.42 (96.8)	0.79 (2.98)	3.57 (101.1)	1.42 (5.37)	6.40 (181.2)
50 (3.45)	1.70 (6.42)	9.11 (258.0)	1.77 (6.70)	9.49 (268.7)	3.18 (12.00)	17.00 (481.4)
	80 Micron Cv = 0.25		80 Micron Cv = 0.26		80 Micron Cv = 0.67	
5 (0.34)	0.56 (2.11)	2.85 (80.7)	0.58 (2.19)	2.96 (83.8)	1.49 (5.66)	7.64 (216.3)
10 (0.69)	0.79 (2.98)	3.57 (101.1)	0.82 (3.10)	3.70 (104.8)	2.11 (5.89)	9.55 (270.4)
50 (3.45)	1.77 (6.70)	9.49 (268.7)	1.84 (6.95)	9.80 (277.5)	4.73 (17.90)	25.40 (719.2)
	100 Micron Cv = 0.27		100 Micron Cv = 0.28		100 Micron Cv = 0.72	
5 (0.34)	0.60 (2.27)	3.08 (87.2)	0.62 (2.34)	3.20 (90.6)	1.61 (6.08)	8.20 (232.2)
10 (0.69)	0.85 (3.21)	3.85 (109.0)	0.88 (3.30)	4.00 (113.2)	2.27 (8.61)	10.20 (288.8)
50 (3.45)	1.91 (7.22)	10.20 (288.8)	1.98 (7.48)	5.30 (150.1)	5.09 (19.20)	27.20 (770.2)
	150, 250, 450 Micron Cv = 0.55		150, 250, 450 Micron Cv = 0.58		150, 250, 450 Micron Cv = 0.82	
5 (0.34)	1.23 (4.65)	6.28 (177.8)	1.30 (4.91)	6.60 (186.9)	1.83 (6.93)	9.36 (265.0)
10 (0.69)	1.74 (6.58)	7.85 (222.3)	1.83 (6.91)	8.20 (232.2)	2.59 (9.80)	11.70 (331.3)
50 (3.45)	3.89 (14.70)	20.80 (589.0)	4.10 (15.50)	21.90 (620.1)	5.79 (21.90)	27.20 (770.2)

661 Series

Pressure Drop to Atmosphere p psig (bar)	2 Series		4 Series		6, 8 Series	
	Water Flow, U.S. gal (L/min)	Air Flow, std ft^3/min (std L/min)	Water Flow, U.S. gal (L/min)	Air Flow, std ft^3/min (std L/min)	Water Flow, U.S. gal (L/min)	Air Flow, std ft^3/min (std L/min)
	0.5 Micron Cv = 0.008		0.5 Micron Cv = 0.038		0.5 Micron Cv = 0.187	
5 (0.34)	0.01 (0.03)	0.09 (2.6)	0.08 (0.30)	0.42 (11.9)	0.41 (1.54)	2.09 (59.2)
10 (0.69)	0.02 (0.07)	0.11 (3.1)	0.12 (0.45)	0.52 (14.7)	0.59 (2.23)	2.56 (72.5)
50 (3.45)	0.05 (0.18)	0.30 (8.5)	0.26 (0.98)	1.42 (40.2)	1.32 (4.98)	6.99 (197.9)
	2 Micron Cv = 0.022		2 Micron Cv = 0.106		2 Micron Cv = 0.374	
5 (0.34)	0.04 (0.15)	0.24 (6.8)	0.23 (0.86)	1.18 (33.4)	0.83 (3.13)	4.20 (118.9)
10 (0.69)	0.06 (0.22)	0.30 (8.5)	0.42 (1.58)	1.45 (41.1)	1.18 (4.46)	5.13 (145.3)
50 (3.45)	0.15 (0.56)	0.82 (23.2)	0.74 (2.79)	3.96 (112.1)	2.64 (9.97)	14.00 (396.4)
	7 Micron Cv = 0.028		7 Micron Cv = 0.112		7 Micron Cv = 0.406	
5 (0.34)	0.06 (0.22)	0.31 (8.7)	0.25 (0.94)	1.26 (35.7)	0.90 (3.40)	4.56 (129.1)
10 (0.69)	0.08 (0.30)	0.38 (10.8)	0.35 (1.32)	1.54 (43.6)	1.28 (4.83)	5.57 (157.7)
50 (3.45)	0.19 (0.71)	1.05 (29.7)	0.79 (2.98)	4.20 (118.9)	2.87 (10.80)	15.20 (430.4)
	15 Micron Cv = 0.096		15 Micron Cv = 0.183		15 Micron Cv = 0.515	
5 (0.34)	0.21 (0.79)	1.08 (30.6)	0.40 (1.51)	2.05 (58.0)	1.15 (4.37)	5.78 (163.7)
10 (0.69)	0.30 (1.13)	1.32 (37.4)	0.57 (2.15)	2.50 (70.8)	1.62 (6.12)	7.07 (200.2)
50 (3.45)	0.67 (2.53)	3.60 (101.9)	1.29 (4.87)	6.80 (192.6)	3.64 (13.70)	19.20 (543.7)
	40 Micron Cv = 0.143		40 Micron Cv = 0.294		40 Micron Cv = 0.678	
5 (0.34)	0.32 (1.20)	1.60 (43.7)	0.65 (2.45)	3.30 (93.4)	1.51 (5.70)	7.72 (218.6)
10 (0.69)	0.45 (1.70)	1.95 (55.2)	0.92 (3.47)	4.03 (114.1)	2.14 (8.08)	9.43 (267.0)
50 (3.45)	1.01 (3.81)	5.34 (151.2)	2.07 (7.82)	11.00 (311.5)	4.79 (18.10)	25.70 (727.7)
	60 Micron Cv = 0.168		60 Micron Cv = 0.325		60 Micron Cv = 0.874	
5 (0.34)	0.37 (1.39)	1.89 (53.5)	0.72 (2.72)	3.57 (101.0)	1.95 (7.37)	9.81 (277.8)
10 (0.69)	0.53 (2.00)	2.31 (65.4)	1.02 (3.85)	4.46 (126.3)	2.76 (10.40)	11.90 (337.0)
50 (3.45)	1.18 (4.46)	6.30 (178.4)	2.29 (8.86)	12.10 (342.6)	6.18 (23.30)	32.70 (926.0)
	80 Micron Cv = 0.198		80 Micron Cv = 0.473		80 Micron Cv = 1.106	
5 (0.34)	0.44 (1.66)	2.22 (62.3)	1.05 (3.96)	5.31 (150.4)	2.47 (9.33)	12.40 (351.1)
10 (0.69)	0.62 (2.34)	2.71 (76.7)	1.49 (5.63)	6.49 (183.8)	3.49 (13.10)	15.10 (427.6)
50 (3.45)	1.40 (5.29)	7.41 (209.8)	3.34 (12.60)	17.70 (501.2)	7.82 (29.50)	41.40 (1172.3)
	100 Micron Cv = 0.220		100 Micron Cv = 0.565		100 Micron Cv = 1.218	
5 (0.34)	0.49 (1.85)	2.47 (69.9)	1.26 (4.76)	6.35 (179.8)	2.72 (10.20)	13.60 (385.1)
10 (0.69)	0.69 (2.60)	3.02 (85.5)	1.78 (6.72)	7.76 (219.7)	3.85 (14.50)	16.70 (472.9)
50 (3.45)	1.55 (5.85)	8.25 (233.6)	3.99 (15.00)	21.10 (597.5)	8.61 (32.50)	45.60 (1291.2)
	150, 250, 450 Micron Cv =0.264		150, 250, 450 Micron Cv = 0.780		150, 250, 450 Micron Cv = 2.413	
5 (0.34)	0.59 (2.23)	2.97 (84.1)	1.74 (6.57)	8.70 (246.3)	5.39 (20.30)	27.00 (764.6)
10 (0.69)	0.83 (3.13)	3.63 (102.8)	2.46 (9.29)	10.70 (303.0)	7.63 (28.80)	33.10 (937.3)
50 (3.45)	1.86 (7.03)	9.90 (280.3)	5.51 (20.80)	29.20 (826.9)	17.00 (64.20)	90.30 (2557.0)

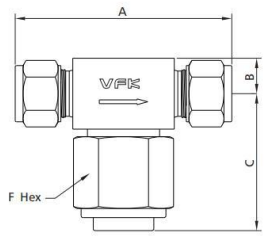
Filters

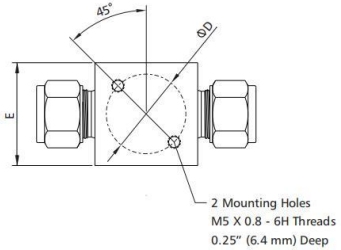
662 Series

Pressure Drop to Atmosphere Δ p psig (bar)	4 Series	
	Water Flow, U.S. gal (L/min)	Air Flow, std ft³/min (std L/min)
	0.5 Micron Cv = 0.008	
5 (0.34)	0.01 (0.03)	0.09 (2.6)
10 (0.69)	0.02 (0.07)	0.11 (3.1)
50 (3.45)	0.05 (0.18)	0.30 (8.5)
	2 Micron Cv = 0.42	
5 (0.34)	0.93 (3.50)	4.72 (133.7)
10 (0.69)	1.32 (4.98)	5.77 (163.4)
50 (3.45)	2.96 (11.10)	15.70 (444.6)
	5 Micron Cv = 0.45	
5 (0.34)	1.00 (3.78)	5.04 (142.7)
10 (0.69)	1.42 (5.36)	6.16 (174.4)
50 (3.45)	3.18 (12.00)	16.80 (475.7)
	15 Micron Cv = 0.76	
5 (0.34)	1.69 (6.22)	8.55 (242.1)
10 (0.69)	2.40 (9.07)	10.40 (294.5)
50 (3.45)	5.37 (20.30)	28.50 (807.0)

Dimensions

66 Series

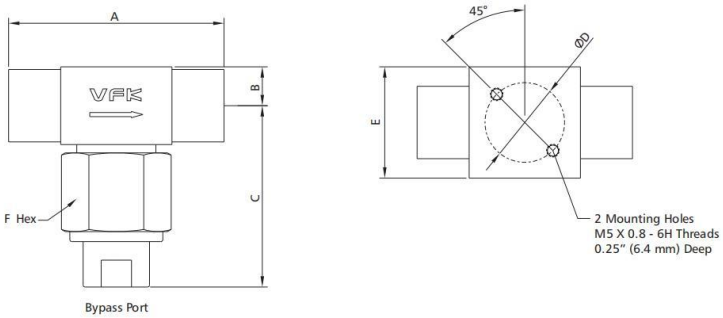




Basic Ordering Number	Connection Type and Size		Element Series	Dimension, in. (mm)					
	Inlet	Outlet		A	B	C	ØD	E	F
□□66-FX2-	1/8" VFK	1/8" VFK	4	2.27 (57.7)	0.38 (9.7)	1.49 (37.8)	1.00 (25.4)	1.00 (25.4)	1 (25.4)
□□66-FX4-	1/4" VFK	1/4" VFK	4	2.47 (62.7)					
□□66-FX6-	3/8" VFK	3/8" VFK	8	2.84 (72.1)	0.46 (11.7)	1.74 (44.2)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)
□□66-FX8-	1/2" VFK	1/2" VFK	8	3.04 (77.2)					
□□66-MX6-	6 mm VFK	6 mm VFK	4	2.46 (62.5)	0.38 (9.7)	1.49 (37.8)	1.00 (25.4)	1.00 (25.4)	1 (25.4)
□□66-MX8-	8 mm VFK	8 mm VFK	8	2.84 (72.1)	0.46 (11.7)	1.74 (44.2)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)
□□66-MX10-	10 mm VFK	10 mm VFK	8	2.86 (72.6)					
□□66-MX12-	12 mm VFK	12 mm VFK	8	3.04 (77.2)					
□□66-TS4-	1/4" TS	1/4" TS	4	1.68 (42.7)	0.38 (9.7)	1.49 (37.8)	1.00 (25.4)	1.00 (25.4)	1 (25.4)
□□66-TS6-	3/8" TS	3/8" TS	4						
□□66-TB4-	1/4" TB	1/4" TB	4						
□□66-TB6-	3/8" TB	3/8" TB	4						
□□66-FN2-	1/8 Female NPT	1/8 Female NPT	4	2.00 (50.8)					
□□66-FN4-	1/4 Female NPT	1/4 Female NPT	4	2.13 (54.1)					
□□66-N4-	1/4 Male NPT	1/4 Male NPT	4						
□□66-N6-	3/8 Male NPT	3/8 Male NPT	8	2.38 (60.5)	0.46 (11.7)	1.74 (44.2)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)
□□66-N8-	1/2 Male NPT	1/2 Male NPT	8	2.75 (69.9)					
□□66-R4-	1/4 Male FR	1/4 Male FR	4	2.30 (58.4)	0.38 (9.7)	1.49 (37.8)	1.00 (25.4)	1.00 (25.4)	1 (25.4)
□□66-R8-	1/2 Male FR	1/2 Male FR	8	2.55 (64.8)	0.46 (11.7)	1.74 (44.2)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)

Mounting holes not available with 1/4 female NPT end connections

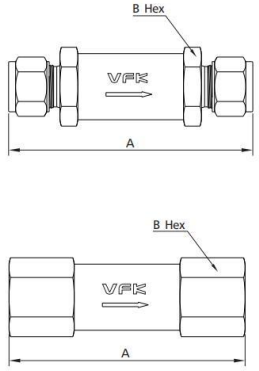
66B Series



Basic Ordering Number	Connection Type and Size		Element Series	Dimension, in. (mm)						
	Inlet	Outlet		A	B	C	ØD	E	F	Bypass Port End Connection
□□66B-FX2-	1/8" VFK	1/8" VFK	4	2.27 (57.7)	0.38 (9.7)	1.98 (50.2)	1.00 (25.4)	1.00 (25.4)	1 (25.4)	FL2
□□66B-FX4-	1/4" VFK	1/4" VFK	4	2.47 (62.7)		2.44 (61.9)				FL4
□□66B-FX6-	3/8" VFK	3/8" VFK	8	2.84 (72.1)	0.46 (11.7)	2.74 (69.1)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)	FL6
□□66B-FX8-	1/2" VFK	1/2" VFK	8	3.04 (77.2)		2.96 (74.2)				FL8
□□66B-MX6-	6 mm VFK	6 mm VFK	4	2.46 (62.5)	0.38 (9.7)	2.44 (61.9)	1.00 (25.4)	1.00 (25.4)	1 (25.4)	FL4
□□66B-MX8-	8 mm VFK	8 mm VFK	8	2.84 (72.1)	0.46 (11.7)	2.74 (69.1)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)	FL6
□□66B-MX10-	10 mm VFK	10 mm VFK	8	2.86 (72.6)		2.96 (74.2)				FL8
□□66B-MX12-	12 mm VFK	12 mm VFK	8	3.04 (77.2)						
□□66B-TS4-	1/4" TS	1/4" TS	4	1.68 (42.7)	0.38 (9.7)	1.83 (56.4)	1.00 (25.4)	1.00 (25.4)	1 (25.4)	TB4
□□66B-TS6-	3/8" TS	3/8" TS	4							
□□66B-TB4-	1/4" TB	1/4" TB	4							
□□66B-TB6-	3/8" TB	3/8" TB	4							
□□66B-FN2-	1/8 Female NPT	1/8 Female NPT	4	2.00 (50.8)		1.71 (43.4)				FNS2
□□66B-FN4-	1/4 Female NPT	1/4 Female NPT	4	2.13 (54.1)						
□□66B-N4-	1/4 Male NPT	1/4 Male NPT	4							
□□66B-N6-	3/8 Male NPT	3/8 Male NPT	8	2.38 (60.5)	0.46 (11.7)	2.00 (50.8)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)	
□□66B-N8-	1/2 Male NPT	1/2 Male NPT	8	2.75 (69.9)						
□□66B-R4-	1/4 Male FR	1/4 Male FR	4	2.38 (60.5)	0.38 (9.7)	2.44 (61.9)	1.00 (25.4)	1.00 (25.4)	1 (25.4)	FL4
□□66B-R8-	1/2 Male FR	1/2 Male FR	8	2.75 (69.9)	0.46 (11.7)	2.96 (74.2)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)	FL8

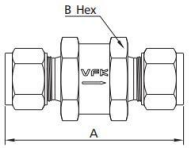
Mounting holes not available with 1/4 female NPT end connections

661 Series



Basic Ordering Number	Connection Type and Size		Element Series	Dimension, in. (mm)	
	Inlet	Outlet		A	B
□□661-FX2-	1/8" VFK	1/8" VFK	2	2.35 (59.7)	9/16 (14.3)
□□661-FX4-	1/4" VFK	1/4" VFK	4	2.95 (74.9)	3/4 (19.0)
□□661-FX6-	3/8" VFK	3/8" VFK	8	3.21 (81.5)	1 (25.4)
□□661-FX8-	1/2" VFK	1/2" VFK	8	3.49 (88.6)	
□□661-MX3-	3 mm VFK	3 mm VFK	2	2.38 (60.5)	9/16 (14.3)
□□661-MX6-	6 mm VFK	6 mm VFK	4	2.96 (75.2)	3/4 (19.0)
□□661-FN2-	1/8 Female NPT	1/8 Female NPT	2	2.16 (54.9)	9/16 (14.3)
□□661-FN4-	1/4 Female NPT	1/4 Female NPT	4	2.87 (72.9)	3/4 (19.0)
□□661-N2-	1/8 Male NPT	1/8 Male NPT	2	1.88 (47.7)	9/16 (14.3)
□□661-N4-	1/4 Male NPT	1/4 Male NPT	4	2.69 (68.3)	3/4 (19.0)
□□661-R2-	1/8 Male FR	1/8 Male FR	2	2.79 (70.8)	
□□661-R4-	1/4 Male FR	1/4 Male FR	4		
□□661-FR2-	1/8 Female BSPT	1/8 Female BSPT	2	2.16 (54.9)	9/16 (14.3)
□□661-FR4-	1/4 Female BSPT	1/4 Female BSPT	4	2.87 (72.9)	3/4 (19.0)
□□661-R2-	1/8 Male BSPT	1/8 Male BSPT	2	1.88 (47.7)	9/16 (14.3)
□□661-R4-	1/4 Male BSPT	1/4 Male BSPT	4	2.69 (68.3)	3/4 (19.0)

FW Series



Basic Ordering Number	Connection Type and Size		Orifice in. (mm)	Dimension, in. (mm)	
	Inlet	Outlet		A	B
□□662-FX4-	1/4" VFK	1/4" VFK	0.187(4.75)	2.15(54.6)	1 (25.4)
□□662-MX6-	6 mm VFK	6 mm VFK			
□□662-FN4-	1/4 Female NPT	1/4 Female NPT	0.453(11.5)	1.57(39.9)	
□□662-N4-	1/4 Male NPT	1/4 Male NPT	0.281(7.14)	1.89(48.0)	
□□662-R4-	1/4 Male FR	1/4 Male FR	0.187(4.75)	2.04(51.8)	

1. VFK means VFK double ferrule tube fittings, FR means metal gasket seal fittings, TS means fractional tube socket weld, TB means fractional tube butt weld.
2. Sizes and types listed are standard. Other sizes and types are available upon request.
3. Dimensions are shown with VFK nuts finger-tightened. All dimensions are for reference only and are subject to change. For dimensions not shown above, please contact the authorized representative or VFK

Filters Ordering Information

SS66B — FX8 MX10 — S — P150 — FX4

A	B	C	D	E	F	G	H	I	J
Body Material	Valve Series	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Element Type	Gasket Material	Element Nominal Pore Size	Bypass Port (for 66B Series Only)
SS	66B	FX	8	MX	10	S	P	S	P

Body Material		Series
SS	316 SS	66
6L	316L SS	66B
S4	304 SS	661
4L	304L SS	662
S1	321 SS	
B	Brass	

Inlet Type	
FN	Female NPT
N	Male NPT
FR	Female BSPT
R	Male BSPT
FM	Female ISO (for RP)
MS	Male ISO (for RG)
FP	Female BSPP (for RP)
BP	Male BSPP (for RG)
FX	Fractional Tube Fitting
MX	Metric Tube Fitting
TS	Fractional Tube Socket Weld
TB	Fractional Tube Butt Weld
MFR	Male FR Fitting

Inlet Size	
2	1/8 (in.)
4	1/4 (in.)
6	3/8 (in.) or 6 mm
8	1/2 (in.) or 8 mm
10	10 mm
12	3/4 (in.) or 12 mm
14	14 mm or M14 x 1.5
16	1 (in.) or 16 mm
18	18 mm
20	1 1/4 (in.) or 20 mm or M20 x 1.5
22	22 mm or M22 x 1.5
25	25 mm

Outlet Type	Outlet Size
	Same as Inlet

Specified in the same way as the inlet type and size

Element Type	
	Sintered
S	Strainer

Gasket Material	
	Silver-plated 316 SS for 66, 66B, 661
P	PTFE-plated 316 SS for 66, 66B, 661
A	Aluminum for 66, 66B, 6

Element Nominal Pore Size	
05	0.5 µm
2	2 µm
7	7 µm
15	15 µm
40	40 µm
60	60 µm
80	80 µm
100	100 µm
150	150 µm
250	250 µm
450	450 µm

Bypass Port (for 66B Series Only)	
	Female NPT 1/8"
FX2	Fractional Tube Fitting 1/8"
FX4	Fractional Tube Fitting 1/4"
TS4	1/4" Tube Socket Weld
FX6	Fractional Tube Fitting 3/8"
FX8	Fractional Tube Fitting 1/2"

1. Standard thread pitch for metric threads are as follows:
   M10 and below: 1 mm
   M12 to M24: 1.5 mm
   M27 and above: 2 mm
   Standard thread pitch should be ignored in the ordering number, others should be specified.

Elements Ordering Information

SS E SN 8 60

A	B	C	D	E
Material	Element	Element Type	Element Series	Outlet Type

A Material	
SS:	316 SS
6L:	316L SS

B Element	
E	Element

C Element Type	
SN	Sintered
ST	Strainer

D Element Series	
4	4
8	8

Standard with 2 (only for sintered)

E Element Nominal Pore Size	
05	0.5 µm
2	2 µm
7	7 µm
15	15 µm
40	40 µm
60	60 µm
80	80 µm
100	100 µm
150	150 µm
250	250 µm
450	450 µm