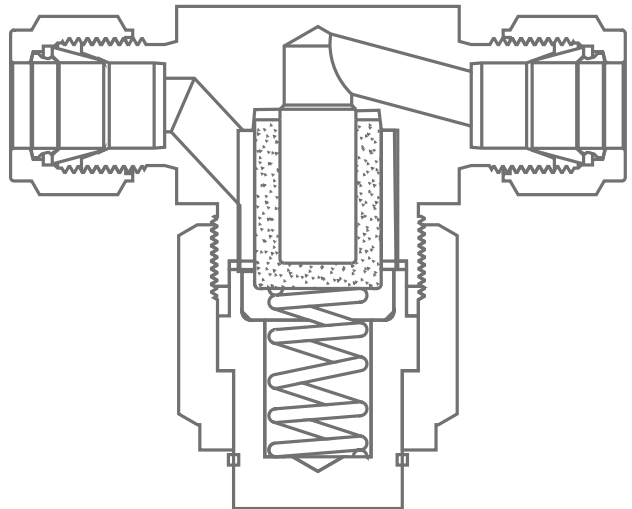




Instrument Vavles and Fittings

Filters



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

In-line Filters

1F 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 900F (-29°C to 482°C)
- ⦿ Body materials: 316 SS, 316L SS, 304 SS, 304L SS, 321 SS and Brass
- ⦿ Variety of end connections available

Tee-type Filters

2F 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 900F (-29°C to 482°C)
- ⦿ Body materials: 316 SS, 316L SS, 304 SS, 304L SS and Brass
- ⦿ Variety of end connections available

Bypass Filters

3F Series

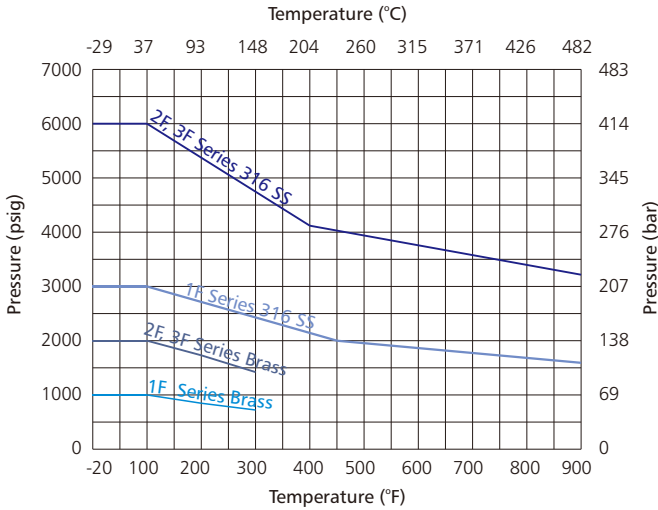
- ⦿ Bypass port at filter bottom for the ease of sampling or purging
- ⦿ Union bonnet design
- ⦿ Nominal pore sizes for sintered element: 0.5, 2, 7, 15, 40, 60 and 80µm
- ⦿ Nominal pore sizes for strainer element: 100, 150, 250 and 450µm
- ⦿ Maximum working pressure: 6000 psig (414 bar)
- ⦿ Working temperature: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

All-welded In-line Filters

4F Series

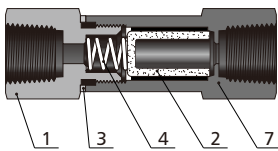
- ⦿ Large filtration area and high flow coefficient
- ⦿ All-welded construction for elimination of leakage
- ⦿ Easy cleaning of filters by backflushing
- ⦿ Full-penetration weld between body and element
- ⦿ Nominal pore sizes for sintered element: 0.5, 2, 7, 15, 40, 60 and 80µm
- ⦿ Maximum working pressure: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

Pressure vs. Temperature

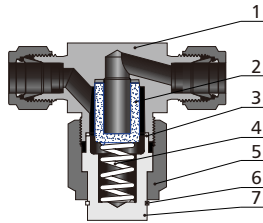


Contact the authorized representative or KUN-LOK for curve graph of other materials

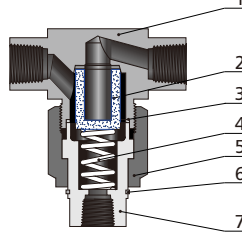
1F Series



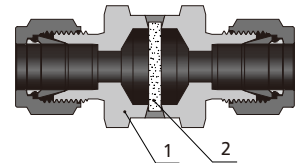
2F Series



3F Series



4F Series



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. 4F 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
1F, 2F, 3F	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)
4F	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
2F, 3F	0.094 (2.04)	1.30 (830)	1.00 (640)
2F, 3F	0.172 (4.36)	1.30 (830)	1.00 (640)
2F, 3F	0.213 (5.41)	2.00 (1280)	1.70 (1090)
2F, 3F	0.250 (6.35)	2.00 (1280)	1.70 (1090)
1F	0.094 (2.39)	0.55 (350)	—
1F	0.187 (4.75)	1.30 (830)	1.00 (640)
1F	0.281 (7.14)	2.00 (1280)	1.70 (1090)
1F	0.406 (10.30)	2.00 (1280)	1.70 (1090)
4F	0.187 (4.75)	0.44 (283)	—

Flow Data at 70°F (20°C)

2F, 3F 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)

1F Series

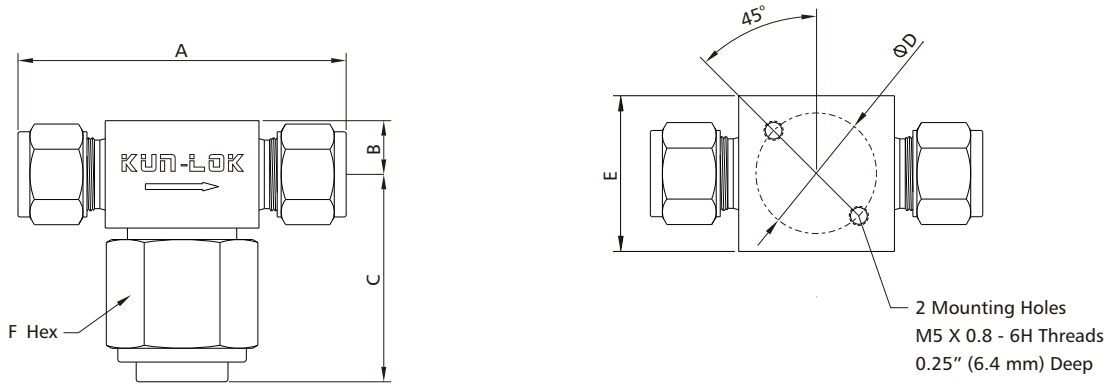
Pressure Drop to Atmosphere p psig (bar)	2 Series		4 Series		6, 8 Series	
	Water Flow, U.S. gal (L/min)	Air Flow, std ft ³ /min (std L/min)	Water Flow, U.S. gal (L/min)	Air Flow, std ft ³ /min (std L/min)	Water Flow, U.S. gal (L/min)	Air Flow, std ft ³ /min (std L/min)
	0.5 Micron Cv = 0.008		0.5 Micron 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)

4F Series

Pressure Drop to Atmosphere Δp psig (bar)	4 Series	
	Water Flow, U.S. gal (L/min)	Air Flow, std ft ³ /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

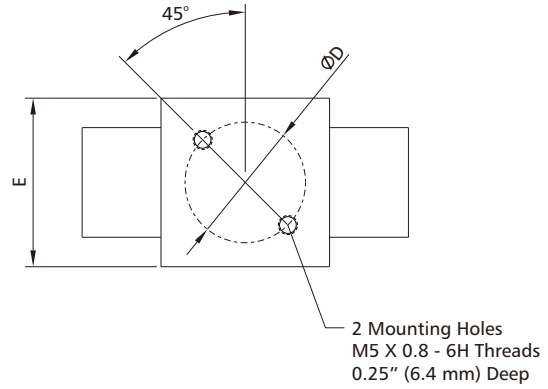
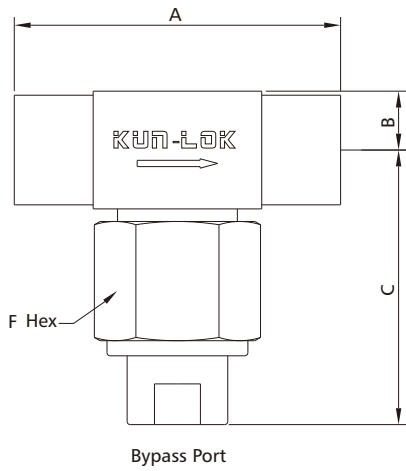
2F Series



Basic Ordering Number	Connection Type and Size		Element Series	Dimension, in. (mm)					
	Inlet	Outlet		A	B	C	ØD	E	F
□□2F4-F1-	1/8" KUN-LOK	1/8" KUN-LOK	4	2.27 (57.7)	0.38 (9.7)	1.49 (37.8)	1.00 (25.4)	1.00 (25.4)	1 (25.4)
□□2F4-F2-	1/4" KUN-LOK	1/4" KUN-LOK	4	2.47 (62.7)					
□□2F8-F3-	3/8" KUN-LOK	3/8" KUN-LOK	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)
□□2F8-F4-	1/2" KUN-LOK	1/2" KUN-LOK	8	3.04 (77.2)					
□□2F4-M6-	6 mm KUN-LOK	6 mm KUN-LOK	4	2.46 (62.5)	0.38 (9.7)	1.49 (37.8)	1.00 (25.4)	1.00 (25.4)	1 (25.4)
□□2F8-M8-	8 mm KUN-LOK	8 mm KUN-LOK	8	2.84 (72.1)					
□□2F8-M10-	10 mm KUN-LOK	10 mm KUN-LOK	8	2.86 (72.6)	0.46 (11.7)	1.74 (44.2)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)
□□2F8-M12-	12 mm KUN-LOK	12 mm KUN-LOK	8	3.04 (77.2)					
□□2F4-TS2-	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)
□□2F4-TS3-	3/8" TS	3/8" TS	4						
□□2F4-TB2-	1/4" TB	1/4" TB	4						
□□2F4-TB3-	3/8" TB	3/8" TB	4						
□□2F4-FN1-	1/8 Female NPT	1/8 Female NPT	4	2.00 (50.8)	2.13 (54.1)				
□□2F4-FN2-	1/4 Female NPT	1/4 Female NPT	4						
□□2F4-N2-	1/4 Male NPT	1/4 Male NPT	4		0.46 (11.7)	1.74 (44.2)	1.13 (28.7)	1.13 (28.7)	1 1/8 (28.6)
□□2F8-N3-	3/8 Male NPT	3/8 Male NPT	8	2.38 (60.5)					
□□2F8-N4-	1/2 Male NPT	1/2 Male NPT	8	2.75 (69.9)					
□□2F4-R2-	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)
□□2F8-R4-	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

3F Series

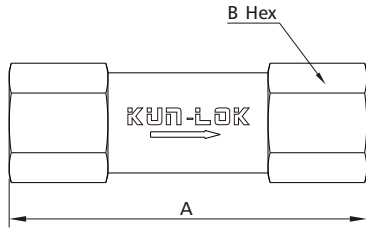
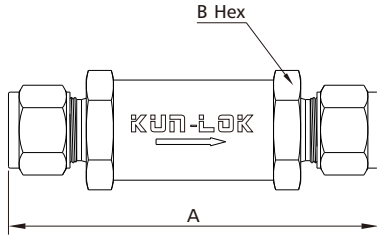


Basic Ordering Number	Connection Type and Size		Element Series	Dimension, in. (mm)						
	Inlet	Outlet		A	B	C	ØD	E	F	Bypass Port End Connection
□□3F4-F1-	1/8" KUN-LOK	1/8" KUN-LOK	4	2.27 (57.7)	0.38 (9.7)	1.98 (50.2)	1.00 (25.4)	1.00 (25.4)	1 (25.4)	FK2
□□3F4-F2-	1/4" KUN-LOK	1/4" KUN-LOK	4	2.47 (62.7)		2.44 (61.9)				
□□3F8-F3-	3/8" KUN-LOK	3/8" KUN-LOK	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)	FK6
□□3F8-F4-	1/2" KUN-LOK	1/2" KUN-LOK	8	3.04 (77.2)		2.96 (74.2)				
□□3F4-M6-	6 mm KUN-LOK	6 mm KUN-LOK	4	2.46 (62.5)	0.38 (9.7)	2.44 (61.9)	1.00 (25.4)	1.00 (25.4)	1 (25.4)	FK4
□□3F8-M8-	8 mm KUN-LOK	8 mm KUN-LOK	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)	FK6
□□3F8-M10-	10 mm KUN-LOK	10 mm KUN-LOK	8	2.86 (72.6)		2.96 (74.2)				
□□3F8-M12-	12 mm KUN-LOK	12 mm KUN-LOK	8	3.04 (77.2)	0.38 (9.7)	1.83 (56.4)	1.00 (25.4)	1.00 (25.4)	1 (25.4)	TB4
□□3F4-TS2-	1/4" TS	1/4" TS	4	1.68 (42.7)						
□□3F4-TS3-	3/8" TS	3/8" TS	4							
□□3F4-TB2-	1/4" TB	1/4" TB	4							
□□3F4-TB3-	3/8" TB	3/8" TB	4	2.00 (50.8)	1.71 (43.4)	1.00 (25.4)	1.00 (25.4)	1 (25.4)	FNS2	
□□3F4-FN1-	1/8 Female NPT	1/8 Female NPT	4							
□□3F4-FN2-	1/4 Female NPT	1/4 Female NPT	4							
□□3F4-N2-	1/4 Male NPT	1/4 Male NPT	4	2.13 (54.1)	1.71 (43.4)	1.00 (25.4)	1.00 (25.4)	1 (25.4)	FNS2	
□□3F8-N3-	3/8 Male NPT	3/8 Male NPT	8							2.38 (60.5)
□□3F8-N4-	1/2 Male NPT	1/2 Male NPT	8	2.75 (69.9)	0.46 (11.7)	2.44 (61.9)	1.00 (25.4)	1.00 (25.4)	1 (25.4)	FK4
□□3F4-R2-	1/4 Male FR	1/4 Male FR	4	2.38 (60.5)						
□□3F8-R4-	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)	FK8

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

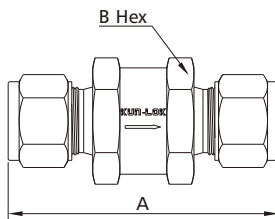


1F Series



Basic Ordering Number	Connection Type and Size		Element Series	Dimension, in. (mm)	
	Inlet	Outlet		A	B
□□1F2-F1-	1/8" KUN-LOK	1/8" KUN-LOK	2	2.35 (59.7)	9/16 (14.3)
□□1F4-F2-	1/4" KUN-LOK	1/4" KUN-LOK	4	2.95 (74.9)	3/4 (19.0)
□□1F8-F3-	3/8" KUN-LOK	3/8" KUN-LOK	8	3.21 (81.5)	1 (25.4)
□□1F8-F4-	1/2" KUN-LOK	1/2" KUN-LOK	8	3.49 (88.6)	
□□1F2-M3-	3 mm KUN-LOK	3 mm KUN-LOK	2	2.38 (60.5)	9/16 (14.3)
□□1F4-M6-	6 mm KUN-LOK	6 mm KUN-LOK	4	2.96 (75.2)	3/4 (19.0)
□□1F2-F1-	1/8 Female NPT	1/8 Female NPT	2	2.16 (54.9)	9/16 (14.3)
□□1F4-F2-	1/4 Female NPT	1/4 Female NPT	4	2.87 (72.9)	3/4 (19.0)
□□1F2-N1-	1/8 Male NPT	1/8 Male NPT	2	1.88 (47.7)	9/16 (14.3)
□□1F4-N2-	1/4 Male NPT	1/4 Male NPT	4	2.69 (68.3)	3/4 (19.0)
□□1F2-R1-	1/8 Male FR	1/8 Male FR	2	2.79 (70.8)	
□□1F4-R2-	1/4 Male FR	1/4 Male FR	4		
□□1F2-FR1-	1/8 Female BSPT	1/8 Female BSPT	2	2.16 (54.9)	9/16 (14.3)
□□1F4-FR2-	1/4 Female BSPT	1/4 Female BSPT	4	2.87 (72.9)	3/4 (19.0)
□□1F2-R1-	1/8 Male BSPT	1/8 Male BSPT	2	1.88 (47.7)	9/16 (14.3)
□□1F4-R2-	1/4 Male BSPT	1/4 Male BSPT	4	2.69 (68.3)	3/4 (19.0)

4F Series

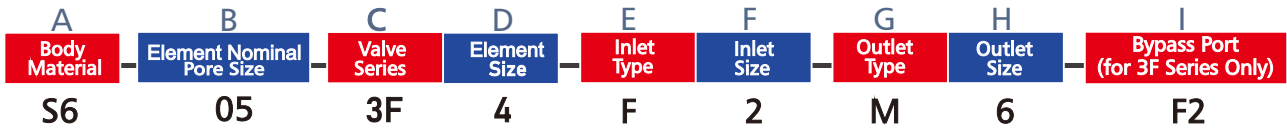


Basic Ordering Number	Connection Type and Size		Orifice in. (mm)	Dimension, in. (mm)	
	Inlet	Outlet		A	B
□□4F1-F2-	1/4" KUN-LOK	1/4" KUN-LOK	0.187(4.75)	2.15(54.6)	1 (25.4)
□□4F1-M6-	6 mm KUN-LOK	6 mm KUN-LOK			
□□4F1-FN2-	1/4 Female NPT	1/4 Female NPT	0.453(11.5)	1.57(39.9)	
□□4F1-N2-	1/4 Male NPT	1/4 Male NPT	0.281(7.14)	1.89(48.0)	
□□4F1-R2-	1/4 Male FR	1/4 Male FR	0.187(4.75)	2.04(51.8)	

1. KUN-LOK means KUN-LOK 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 KUN-LOK 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 KUN-LOK

Filters Ordering Information

S6-100-3F 4-F2-M6-F1



A Body Material	
S6	316 SS
6L	316L SS
S4	304 SS
4L	304L SS
S1	321 SS
B	Brass
4L	304L SS
S1	321 SS
B	Brass

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

C Valve Series	
1F	In-line
2F	T-type
3F	Bypass
4F	All-weld

D Element Size	
2	2
4	4
8	8

E 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)
F	Fractional Tube Fitting
M	Metric Tube Fitting
TS	Fractional Tube Socket Weld
TB	Fractional Tube Butt Weld
MFR	Male FR Fitting

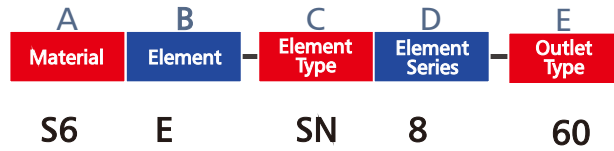
F Inlet Size	
1	1/8 (in.)
2	1/4 (in.)
3	3/8 (in.) or 3 mm
4	1/2 (in.)
6	3/4 (in.) or 6 mm
8	1 (in.) or 8 mm
10	10 mm
12	12 mm
14	14 mm or M14 x 1.5
16	16 mm
18	18 mm
20	20 mm or M20 x 1.5
22	22 mm or M22 x 1.5
25	25 mm

G Outlet Type	
	Same as Inlet
Specified in the same way as the inlet type	

H Outlet Size	
	Same as Inlet
Specified in the same way as the inlet type	

I Bypass Port (for 3F Series Only)	
	Female NPT 1/8"
F1	Fractional Tube Fitting 1/8"
F2	Fractional Tube Fitting 1/4"
F3	Fractional Tube Fitting 3/8"
F4	Fractional Tube Fitting 1/2"

Elements Ordering Information



A

Material	
S6	316 SS
6L	316L SS

B

Element	
E	Element

C

Element Type	
SN	Sintered
ST	Strainer

D

Element Series	
Standard with 2 (only for sintered)	
4	4
8	8

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

KUN-LOK Fluid Technology (Shanghai) Co.,Ltd
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