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Catalog No. H-F100
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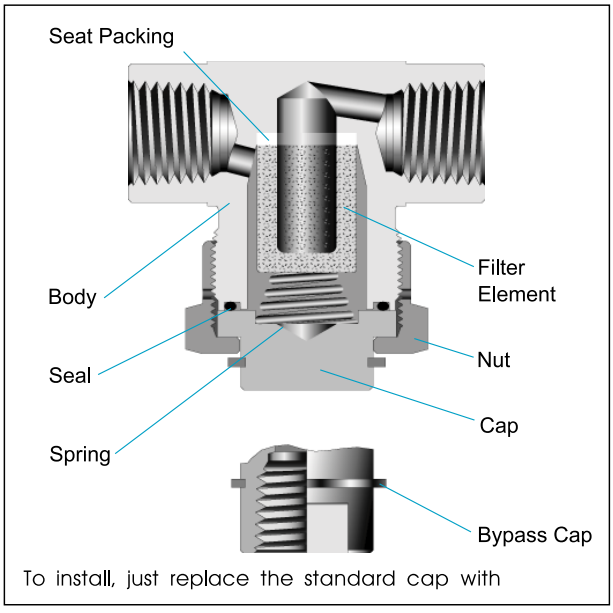
Micron Tee Filters

FT Series



To install, just replace the standard cap with

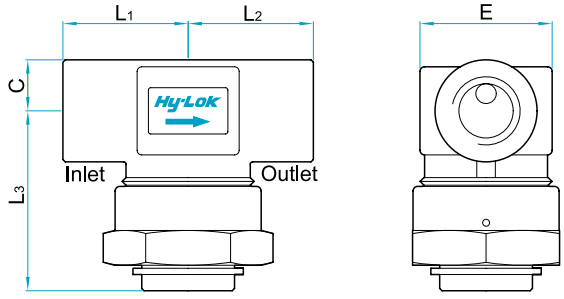


Table of Dimensions

Basic Part No.			Orifice	End Connections	Dimensions				
				Inlet & Outlet	L_1	L_2	L_3	C	E
FT	H	-4T-	4.4	1/4" Hy-Lok	33.0	33.0	38.8	11.0	28.5
	H	-6T-		3/8" HY-LOk	36.2	36.2			
	H	-8T-		1/2" HY-LOk	38.7	38.7			
	F	-2N-		1/8in Female NPT	25.0	25.0			
	M	-4N-		1/4" Male NPT	25.5	25.5			
	F	-4N-		1/4" Female NPT	27.0	27.0			
	F	-6N-		3/8" Female NPT			41.0	12.7	
	F	-8N-		1/2" Female NPT	31.0	31.0	44.0	15.8	31.75

All dimensions are in millimeters.

Features

- **SS316 body** material as standard
- **Replacement of filter elements** with body in line
- **Compact and robust** integral union bonnet design
- **Particle trapping for clean fluid**

Technical Data

- **Maximum Operating Pressure:**
  6000 psig @ 70°F(21°C)for Stainless Steel
  3000 psig @ 70°F(21°C)for Brass
- **Operating Temperature:** -60°F to 400°F (-51°C to 204°C)
- **Effective Filteration Area:**
  1.73 sq. in. (0.0011 sq. meter) for all sizes.

Materials of Construction

Description	Material / ASTM Specification	
Bady	316 SS / A479 or A182	Brass / B16
Cap	316 SS / A479	
Bypass Cap		
Nut		
Filter Element	316 SS Sintered	
Seat Packing	PTFE	
Seal	FKM	
Spring	304 SS	

Operation and Filter Replacement

The filter element, which is made of sintered stainless steel, is porous and has lots of tiny holes. The particles bigger than the holes are not allowed to pass through, hence clean fluid. After certain period, the holes may be blocked by particles and pressure drop will increase. This depends upon the total flow through elements and cleanliness of upstream flow. The element needs to be replaced for clean fluid with minimum pressure drop.

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How to Replace the Element

1. Bleed the line to remove system pressure.
2. Unscrew the nut while holding the body steady with back-up wrench.
3. Remove the nut, cap, spring, and seal all together.
4. Remove the element out of the body and pull out the seat packing with care. It is recommeneded to replace the seat packing and seal at the same time.
5. Clean metal parts if necessary.
6. Insert new element into tapered bore with smooth faced tool until it seats firmly.
7. Put the seal back in place.
8. Place the spring on the cap and retighten the nut.

Bypass Cap

For sampling and purging, bypass cap is available with 1/4" female NPT threaded port.

Spares

For maintenance and changeover to bypass, the following spares are available.

Part No.	Description	Q'ty / Pack
KFT - F	Filter	1 pc
KFT - P	Seat Packing	1 pc
KFT - S	Seal	1 pc
KFT - B	Bypass Cap	1 pc

Flow Data at 70°F(20°C)

Nominal Element Pore Size ㎛	Inlet Pressure, psig (bar)			Pressure Drop, psig (bar)		
	5 (0.34)	10 (0.69)	15 (1.03)	5 (0.34)	10 (0.69)	20 (1.38)
	Air Flow, std L/min (std ft³/min)			Water Flow, std L/min (U.S. gal/min)		
1	4.912 (0.173)	10.365 (0.366)	19.374 (0.684)	0.186 (0.041)	0.459 (0.101)	0.755 (0.166)
10	34.980 (1.235)	67.370 (2.379)	135.621 (4.790)	1.091 (0.240)	2.078 (0.457)	3.910 (0.860)
50	129.576 (4.576)	201.463 (7.115)	344.391 (12.163)	3.678 (0.809)	6.560 (1.443)	10.956 (2.410)
100	191.289 (6.756)	297.406 (10.503)	390.251 (13.782)	5.905 (1.299)	8.978 (1.975)	13.183 (2.900)
150	207.061 (7.313)	320.133 (11.306)	418.016 (14.763)	6.051 (1.331)	9.406 (2.069)	14.052 (3.091)

Ordering Information

VFT — F — B — 4N — 10 — S316

Series Designator
- V : Valve
- FT : Tee Filter

End Connection Designator
- M : Both End Male Pipe Thread
- F : Both End Female Pipe Thread
- H : Both End Hy-Lok Tube Fitting

Bypass Cap Designator *
- Nil : Without(Standard)
- B : With

Size Designator

- NPT (ISO/BSP)

Thread(in)	1/8	1/4	3/8	1/2
Designator	2N(R)	4N(R)	6N(R)	8N(R)

- Tube

O.D.(in)	1/4	3/8	1/2
Designator	4T	6T	8T

Filter Element Designator
- 1 : 1 micron
- 10 : 10 micron
- 50 : 50 micron
- 100 : 100 micron
- 150 : 150 micron

Body Material Designator
- S316 : 316 Stainless Steel
- BRAS : Brass

Note * : No designator is reguired for standard e.g. FTF-4N-10-S316

SAFETY in VALVE SELECTION

Proper installation, materials compatibility, operation and maintenance of these valves are the responsibility of the user. The total system design must be taken into consideration to ensure optimal performance and safety.