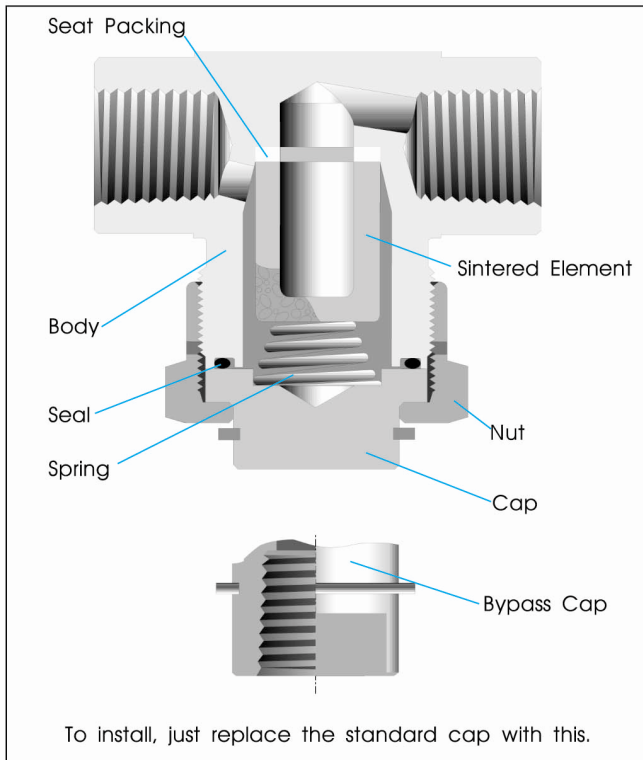


Hy-PRO[®] FT Series

Micron Tee Filters

Catalog No. H-F100
Jan. 1999



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 Filtration Area:**
1.73 sq. in. (0.0011 sq. meter) for all sizes.

Filter Element and Cv

Element Micron Rating	Filtered Particle Size	Cv
1	1 micron	0.01
10	10 micron	0.02
50	50 micron	0.11
100	100 micron	0.30
150	150 micron	0.42

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 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.

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 recommendable 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.

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**

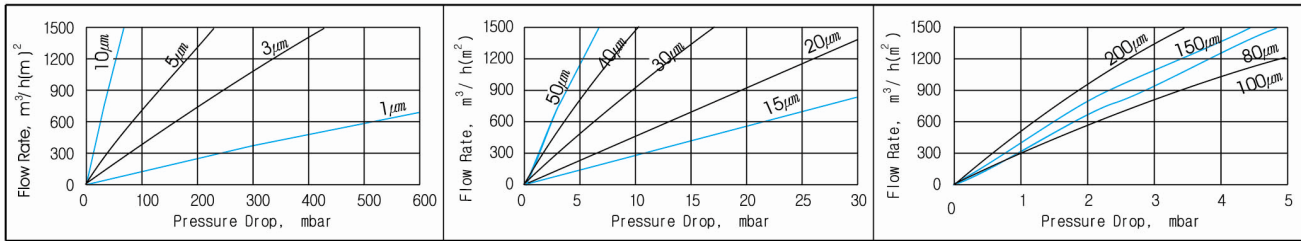
Materials of Construction

Description	Material / ASTM Specification	
Body	SS 316 / A182	Brass / B16
Cap	SS 316 / A276	Brass / B16
Bypass Cap	SS 316 / A276	Brass / B16
Nut	SS 316 / A276	Brass / B16
Sintered Element	316 Stainless Steel	
Seat Packing	PTFE	
Seal	Viton	
Spring	SS 302	



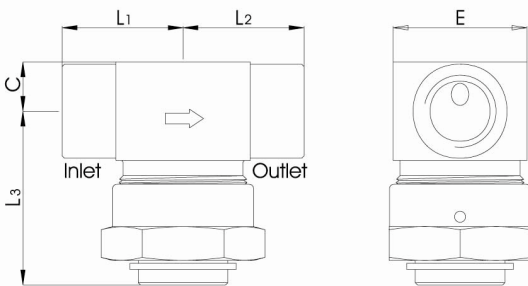
하이록코리아
HY-LOK CORPORATION

Pressure Drop vs Flow Rate of Air



Please note the above Flow Rate is elements' co-efficient in cubic meters per hour per square meter. To get the flow rate of FT series filter, find the flow rate in the graph and then multiply it with effective filtration area on previous page.

Table of Dimensions



Basic Part No.	Orifice	End Connections		Dimensions				
		Inlet	Outlet	L ₁	L ₂	L ₃	C	E
FT	F -2N-	1/8" Female NPT	1/8" Female NPT	25.0	25.0	38.8	11.0	28.5
	M -4N-	1/4" Male NPT	1/4" Male NPT	25.5	25.5	38.8	11.0	28.5
	F -4N-	1/4" Female NPT	1/4" Female NPT	27.0	27.0	38.8	11.0	28.5
	F -6N-	3/8" Female NPT	3/8" Female NPT	27.0	27.0	41.0	12.7	28.5
	F -8N-	1/2" Female NPT	1/2" Female NPT	31.0	31.0	44.0	15.8	31.75

All dimensions are in millimeters.

Ordering Information

<div style="background-color: #0070C0; color: white; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">FT</div> <p>Filter Type Designator</p>	<div style="background-color: #0070C0; color: white; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">F</div> <p>End Connection Designator</p> <ul style="list-style-type: none"> • M : Both End Male Pipe Thread • F : oth End Female Pipe Thread 	<div style="background-color: #0070C0; color: white; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">B</div> <p>Bypass Cap Designator</p> <ul style="list-style-type: none"> • Nil : Without • B : With 	<div style="background-color: #0070C0; color: white; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">4N</div> <p>Size Designator</p> <ul style="list-style-type: none"> • NPT (ISO/BSP) 	<div style="background-color: #0070C0; color: white; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">10</div> <p>Filter Element Designator</p> <ul style="list-style-type: none"> • 1 : 1 micron • 10 : 10 micron • 50 : 50 micron • 100 : 100 micron • 150 : 150 micron 	<div style="background-color: #0070C0; color: white; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">S316</div> <p>Body Material Designator</p> <ul style="list-style-type: none"> • S316 : 316 Stainless Steel • BRAS : Brass
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Spares

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

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

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

SAFETY in FILTER SELECTION

For proper, safe, trouble-free installation, operation and maintenance of fluid systems, material compatibility, pressure / temperature ratings, and application details must be considered in the selection of filter. Improper selection or employment of products described in this catalogue can cause personal injury or property losses. It is the responsibility of system designer and user to select and use the products for their specific applications.



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