



Global Filtration Technology

Tank Top Filters

FT Series

Applications for FT series

- Scissors Lifts
- Fork Lifts
- Industrial Power Units
- Off-highway
- Turf Equipment
- Aerial Lift
- Confined Installation Areas

The rugged all metal design FT with options for a fill port, breather, and dipstick provides multifunctional capability in a compact package. This relates to reduced space and lower costs due to the elimination of sight gauges, fill ports, and reservoir breathers. The FT series is ideal for low flow, return line applications where both space and filtration performance are critical.



Features

Cover

- Cast aluminum is lightweight and durable.

Gauge

- Color-coded face indicates when element should be serviced.

Breather Assembly (Optional)

- Integral to the filter, this option protects the system from airborne contaminants. This feature along with the fill port option can eliminate the need for a standard filler/breather cap.

Bowl

- Can be removed during element service, allowing for removal of sediment.

Bowl Adapter (Optional)

- Optional connection permits the use of extensions to prevent aeration of fluid and improve system performance.

Fill Port (Optional)

- Optional port allows for filling of system fluid through the filter. This insures clean fluid is supplied to system efficiently with no mess.

Dipstick (Optional)

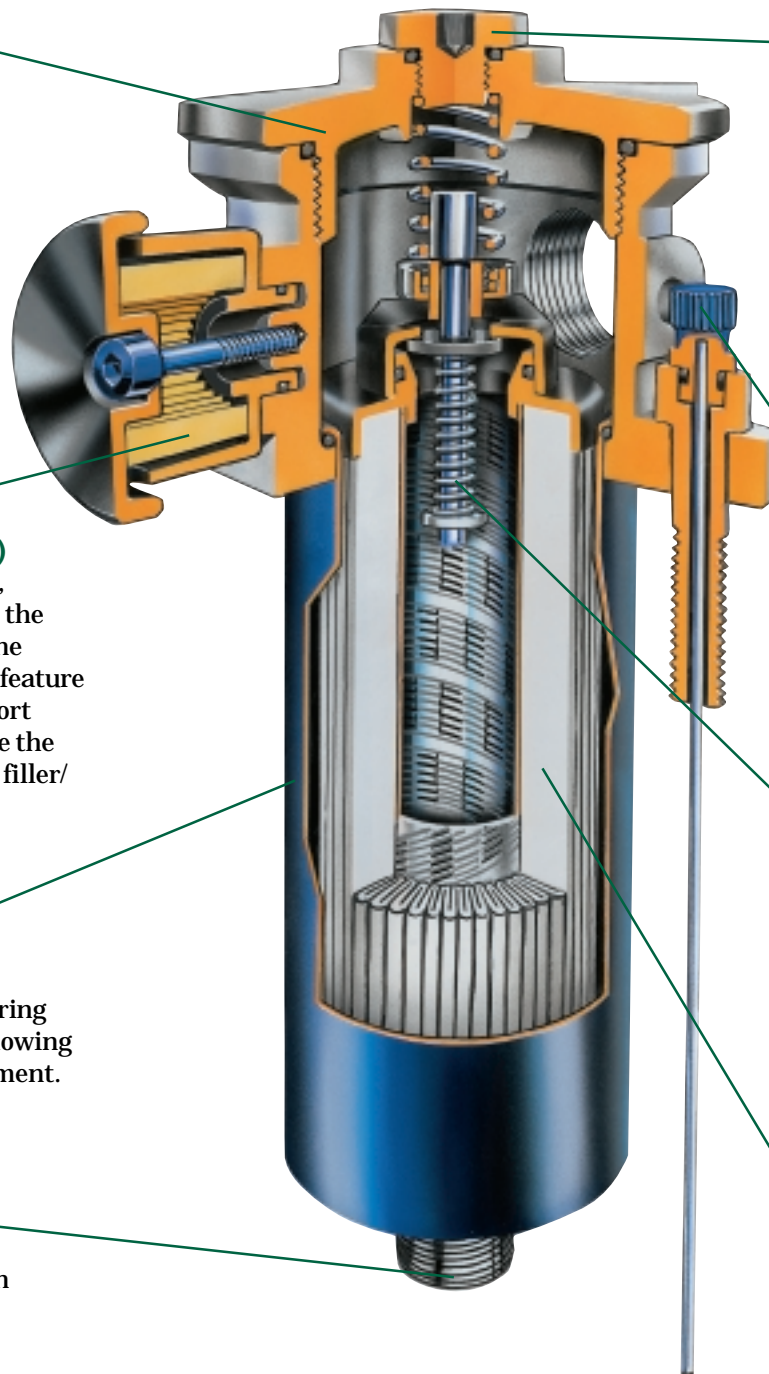
- Allows for fluid level monitoring without the need for additional accessories.

Bypass Assembly

- Full flow bypass protects element from over pressurization. Bypass location allows for inspection during routine element service.

Element

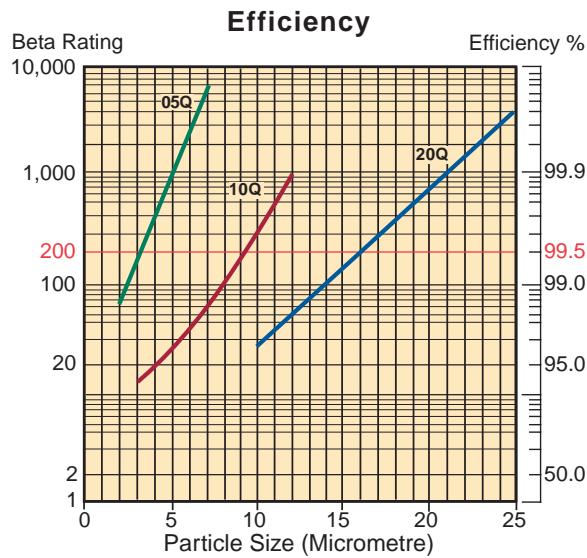
- High capacity, high efficiency Microglass III elements provide maximum service life with consistent removal efficiency.



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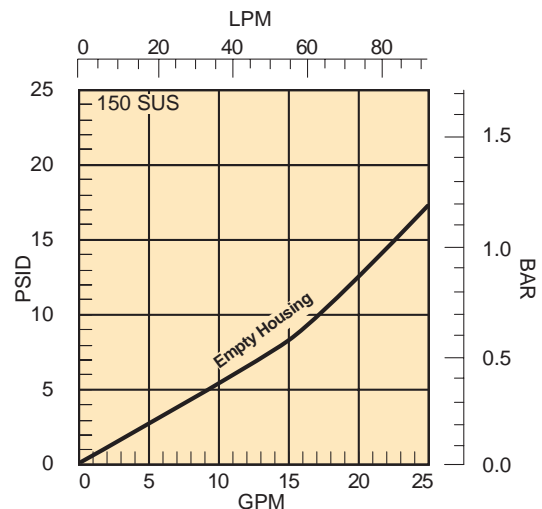
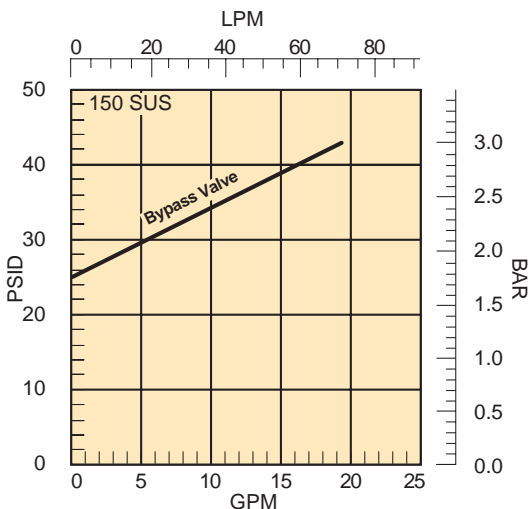
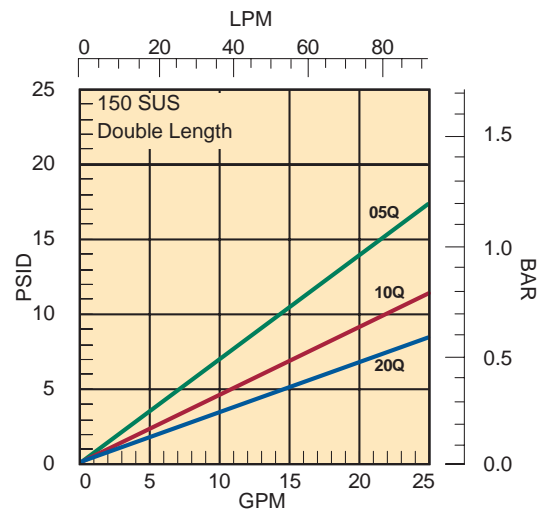
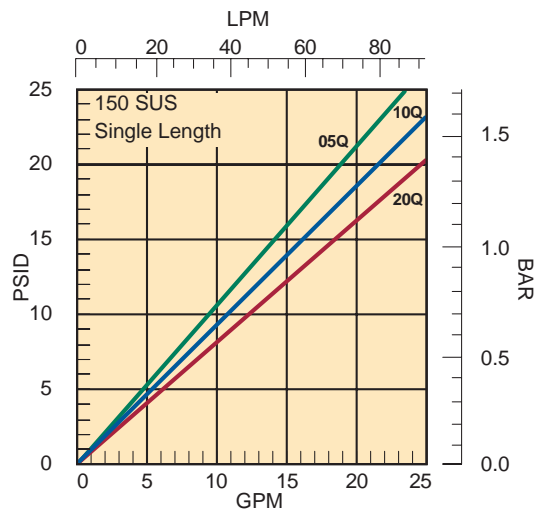
FTA Element Performance



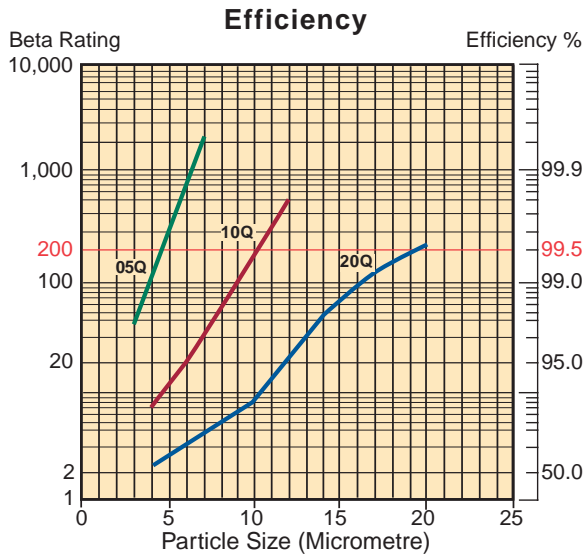
Capacity (grams)

MODEL FTA		
Media Code	Single Length	Double Length
20Q	3.8	7.4
10Q	3.5	9.5
05Q	3.3	9.0

Flow vs. Pressure Loss



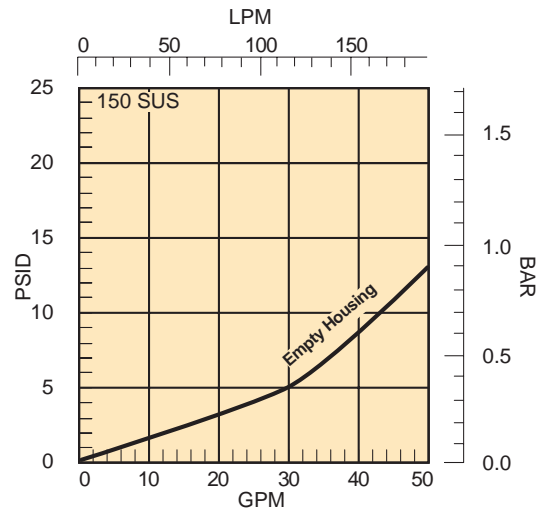
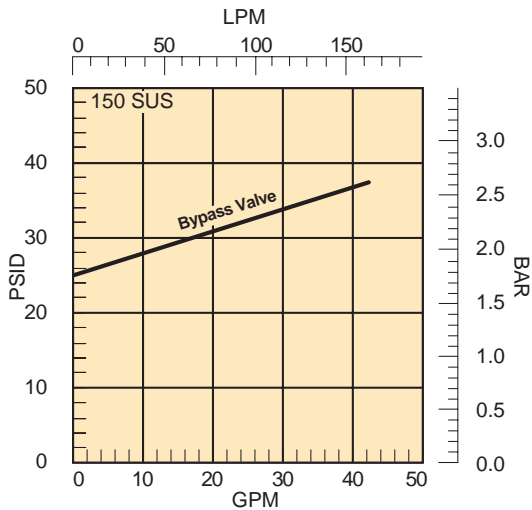
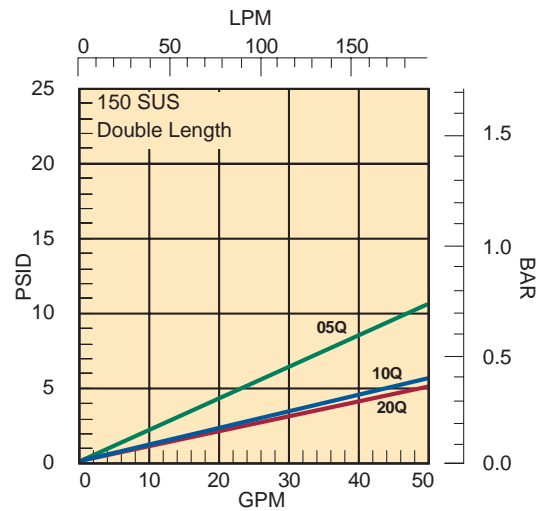
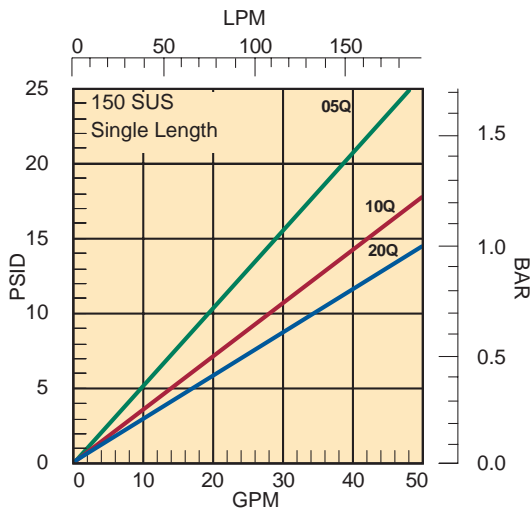
FTB Element Performance



Capacity (grams)

MODEL FTB		
Media Code	Single Length	Double Length
20Q	14.9	29.1
10Q	14.8	29.0
05Q	14.7	28.9

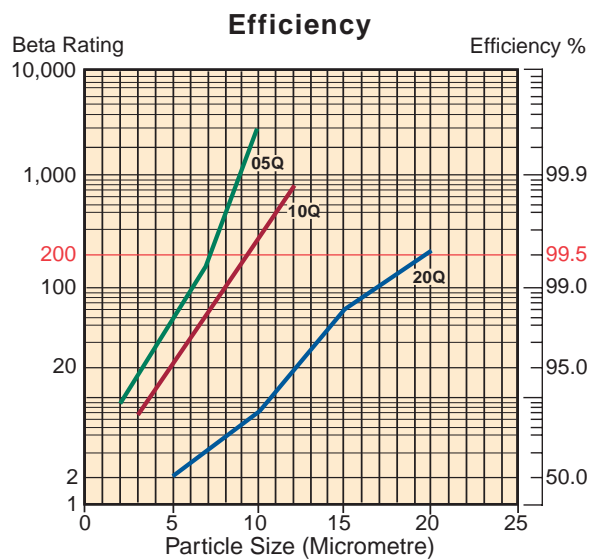
Flow vs. Pressure Loss



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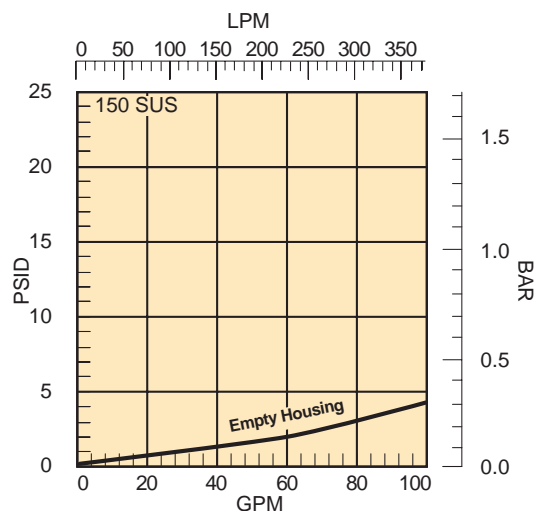
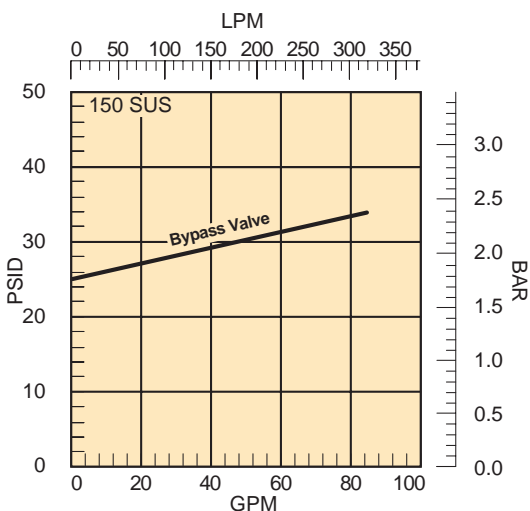
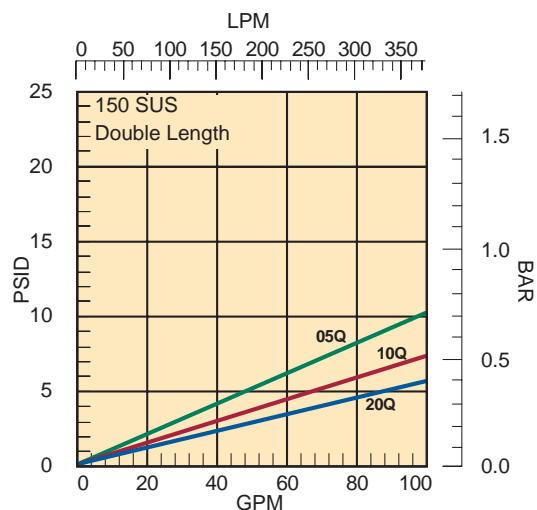
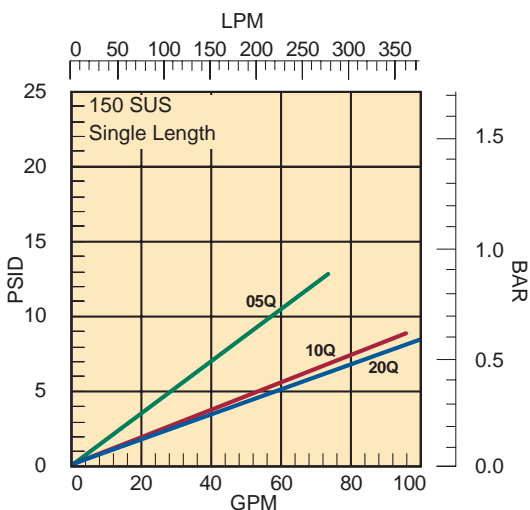
FTC Element Performance



Capacity (grams)

MODEL FTC		
Media Code	Single Length	Double Length
20Q	50.7	85.0
10Q	50.5	84.7
05Q	50.3	82.8

Flow vs. Pressure Loss



Specifications: FTA, FTB, FTC Series

Pressure Ratings:

Maximum Allowable Operating Pressure (MAOP): 150 psi (10.3 bar)
 Rated Fatigue Pressure: 100 psi (6.9 bar)
 Design Safety Factor: 2:1

Operating Temperatures:

-22°F (-30°C) to 230°F (110°C)

Element Collapse Rating:

Standard: 150 psi (10.3 bar)

Materials:

Head: aluminum
 Cover: aluminum
 Bowl: mild steel (FTA & FTB), aluminum (FTC)

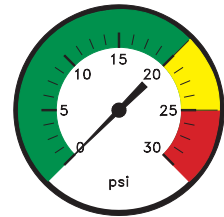
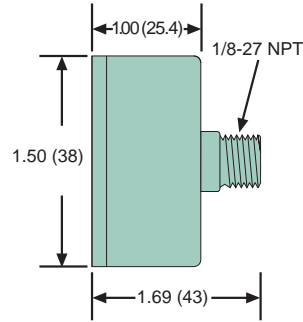
Breather:

5 micron cellulose

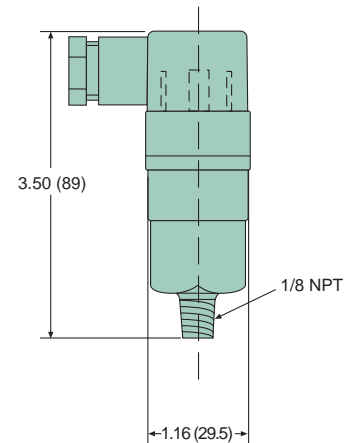
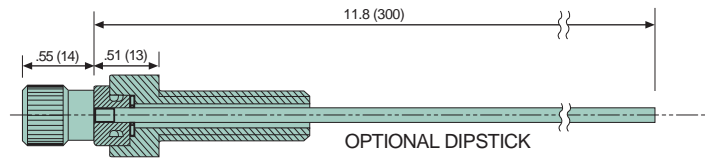
Sipping Weights (approximate):

Model	Single length	Double length
FTA	1.5 lbs. (0.7 kg)	1.8 lbs. (0.8 kg)
FTB	2.9 lbs. (1.3 kg)	3.5 lbs. (1.6 kg)
FTC	6.4 lbs. (2.9 kg)	8.0 lbs. (3.6 kg)

Element Condition Indicators:

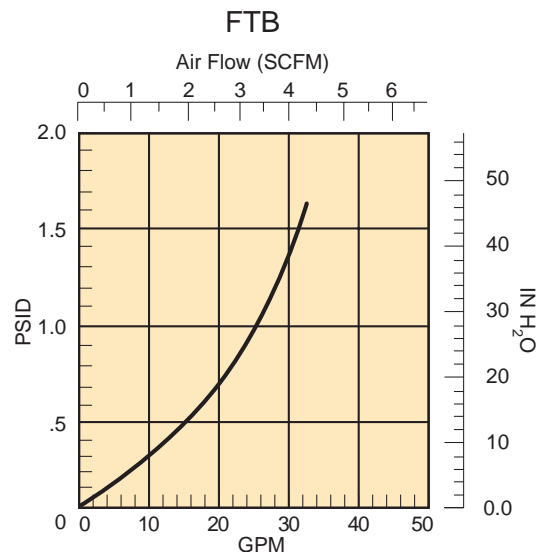
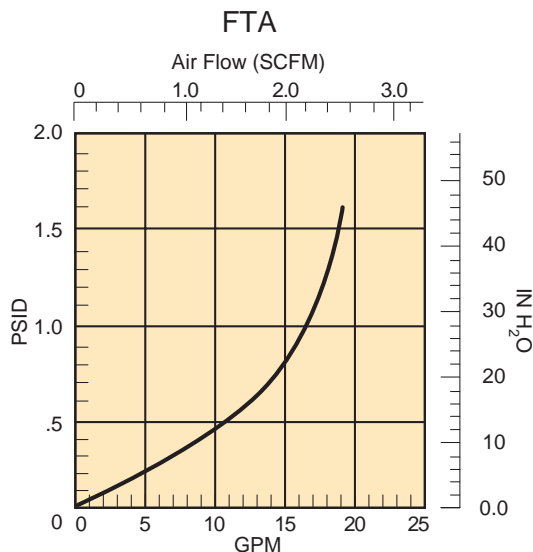


"G" Option Pressure Gauge (0-30 psi color coded)



Linear Measure: inch (millimeter)

Breather Performance

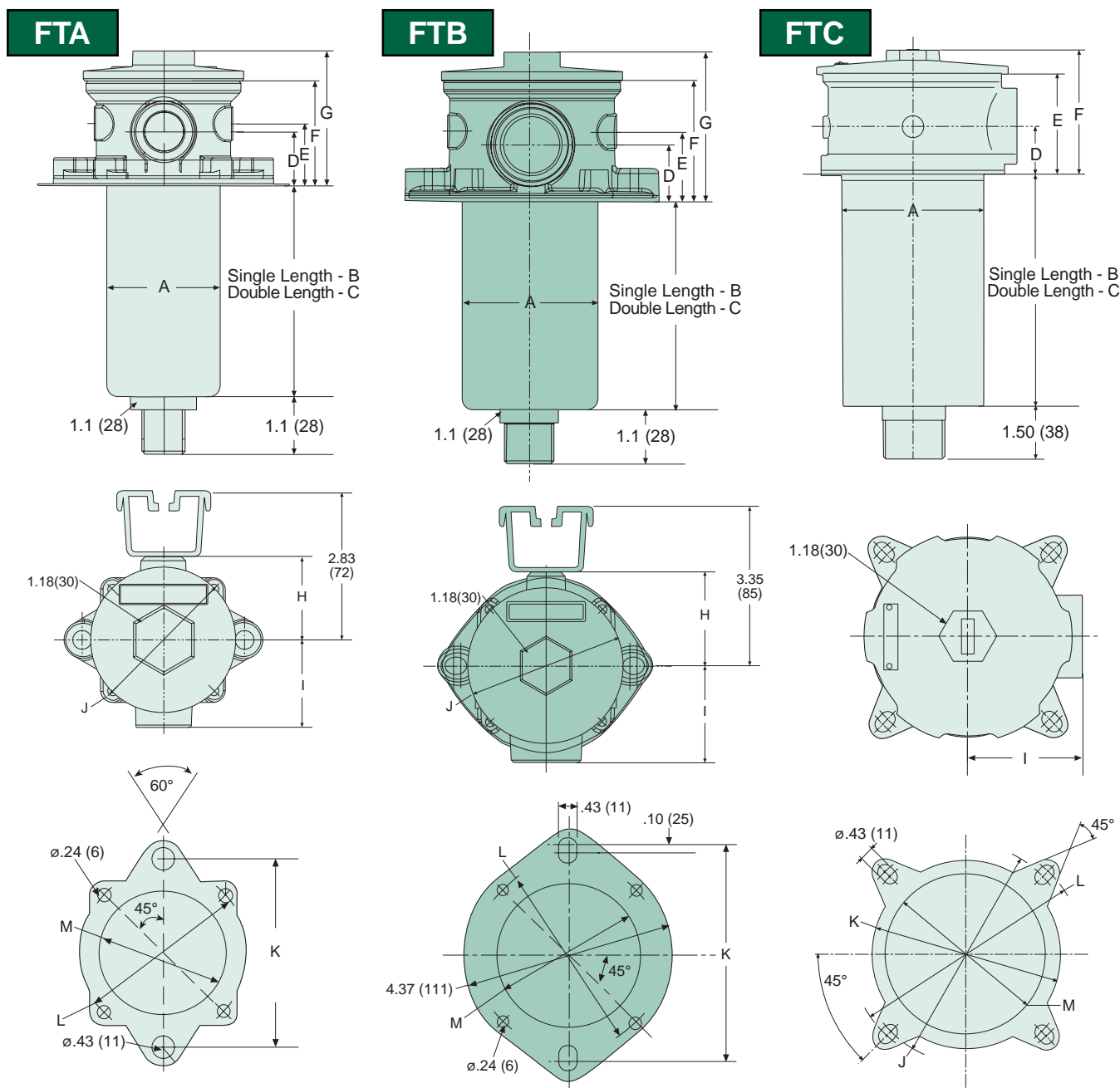


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Installation

Dimensions are in (mm)	A	B	C	D	E	F	G	H	I	J	K	L	M
FTA	2.19 (55.5)	4.13 (105)	7.91 (201)	1.02 (26)	1.18 (30)	2.00 (51)	2.60 (66)	1.77 (45)	1.87 (47.5)	3.11 (.74)	3.46 (88)	3.07 (78)	2.36 (60)
FTB	2.87 (73)	4.41 (112)	8.74 (222)	1.22 (31)	1.50 (38)	2.56 (65)	3.19 (81)	2.32 (59)	2.38 (60.5)	3.86 (98)	4.53 (115)	3.94 (100)	2.95 (75)
FTC	4.25 (108)	6.69 (170)	11.38 (289)	1.50 (38)	3.11 (79)	3.90 (99)	N/A	N/A	3.23 (82)	6.50 (165)	5.59 (142)	6.89 (175)	4.72 (120)



Element Service (Hydraulic)

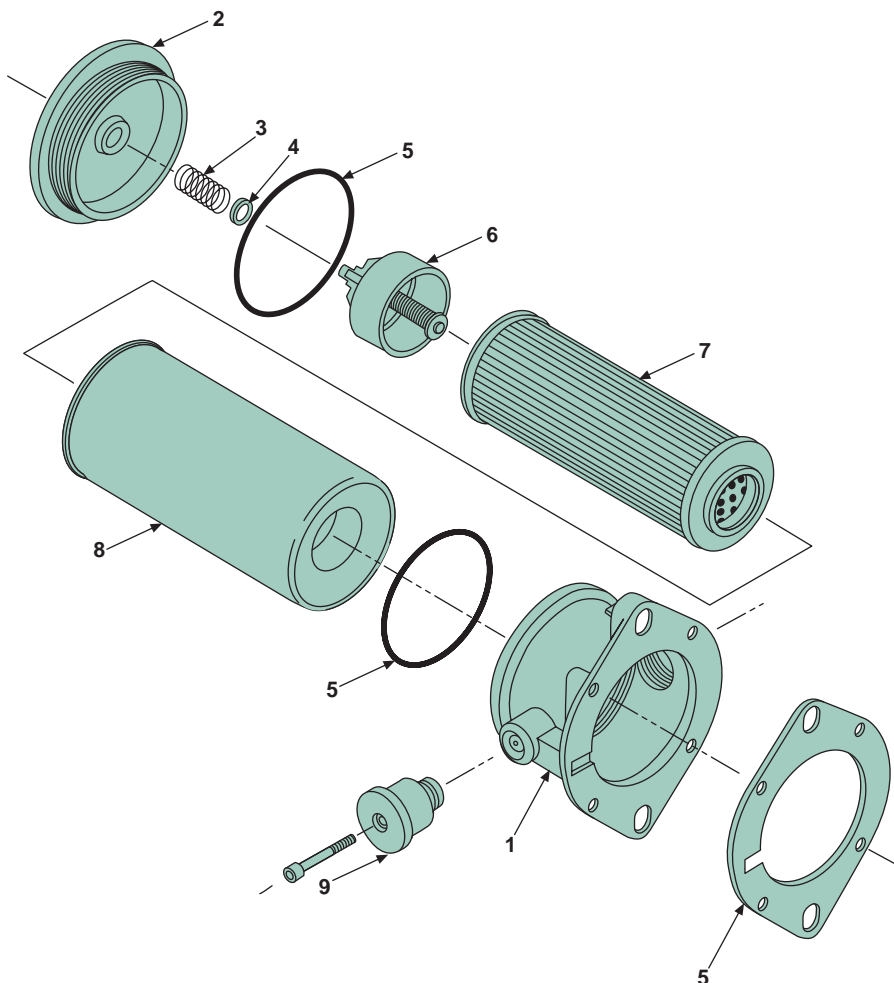
1. Stop the system's power unit.
2. Rotate the cover counter clockwise and remove.
3. Element and bowl are removable through the head by using the element pull tab.
4. Discard the element and clean the inside of the bowl.
5. Check the integrity of the bowl o-ring and replace if necessary.
6. Insert new element assembly into bowl and place into head, be sure element and bowl are seated securely.
7. Check integrity of the cover o-ring and replace if necessary.
8. Center the cover spring over the bypass assembly and rotate the cover clockwise until handtight.

Parts List

Index	Description	FTA	FTB	FTC
1	Head	Consult Factory		
2	Cover Without Fill Port	102770-001	102772-001	101768
	Cover With Fill Port	Consult Factory		
3	Spring	10152325	10152325	10152325
4	Spring Retainer	101789	101789	101789
5	Seal Kit			
	Seal Kit - Nitrile	FTS-0001	FTS-0003	FTS-0005
	Seal Kit - Fluorocarbon	FTS-0002	FTS-0004	FTS-0006
6	Bypass Assembly	S02101	S02102	S02103
7	Element	See How To Order Page		
8	Bowl			
	Single Length	102812-001	102812-002	929716
	Double Length	102812-003	102812-004	929717
9	Breather Replacement Kit	FTS-0011	FTS-0011	NA
Not Shown	Bowl Adapter	FTS-0012	FTS-0013	NA
Not Shown	Fill Port	FTS-0015	FTS-0015	NA
Not Shown	Dipstick	FTS-0014	FTS-0014	FTS-0014
Not Shown	Gauge - 25 psi	934237	934237	934237
Not Shown	Pressure Switch - 25 psi	926923	926923	926923
Not Shown	Gauge Adapter	935266	935266	NA

Element Service (Breather)

1. Stop the system's power unit.
2. Loosen socket hood cap screw (SHCS).
3. Discard complete breather assembly and replace.
4. Rotate SHCS clockwise until handtight.



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HOW TO ORDER:

Select the desired symbol (in the correct position) to construct a model code.

Example:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9
FTA	1	A	20Q	P	25	N8	X	Design number assigned by Parker

BOX 1: Basic Assembly	
Symbol	Description
FTA	15 gpm (57 L/MIN)
FTB	40 gpm (151 L/MIN)
FTC	80 gpm (303 L/MIN)

BOX 2: Bowl/Element Length	
Symbol	Description
1	Single Length
2	Double Length

BOX 3: Seals	
Symbol	Description
A	Nitrile
B	Fluoroelastomer

BOX 4: Element Media	
Symbol	Description
05Q	Microglass III
10Q	Microglass III
20Q	Microglass III

BOX 5: Indicator	
Symbol	Description
N	None
P	Plugged
V	Visual Pressure Gauge
E	Electrical Pressure Switch

BOX 6: Bypass	
Symbol	Description
25	25 PSID (1.7bar)

BOX 7: Ports	
Symbol	Description
	FTA
N8	½" NPT
M18	M18, ISO6149
S8	SAE8
	FTB
N16	1" NPT
M33	M33, ISO6149
S16	SAE16
	FTC
N24	1½" NPT
M42	M42, ISO6149
S24	SAE24

BOX 8: Modifications	
Symbol	Description
X	None
Y	All (Breather, Fill Port, Bowl Adaptor)
A	Breather Only
B	Fill Port Only
C	Bowl Adaptor Only
D	Fill Port & Bowl Adaptor
E	Fill Port & Breather
F	Breather & Bowl Adaptor
Note: All modifications apply to FTA and FTB only, for FTC use X	

BOX 9: Design Number	
Applied to the filter by Parker Hydraulic Filter Division. Use the full model code, including the design number when ordering replacement parts.	

Replacement Elements (Fluorocarbon Seals)						
Media	FTA	FTA	FTB	FTB	FTC	FTC
	Single Length	Double Length	Single Length	Double Length	Single Length	Double Length
05Q	FTAE1B05Q	FTAE2B05Q	FTBE1B05Q	FTBE2B05Q	FTCE1B05Q	FTCE2B05Q
10Q	FTAE1B10Q	FTAE2B10Q	FTBE1B10Q	FTBE2B10Q	FTCE1B10Q	FTCE2B10Q
20Q	FTAE1B20Q	FTAE2B20Q	FTBE1B20Q	FTBE2B20Q	FTCE1B20Q	FTCE2B20Q

Please note the bolded options reflect standard options with a reduced lead-time. Consult factory on all other lead-time options.