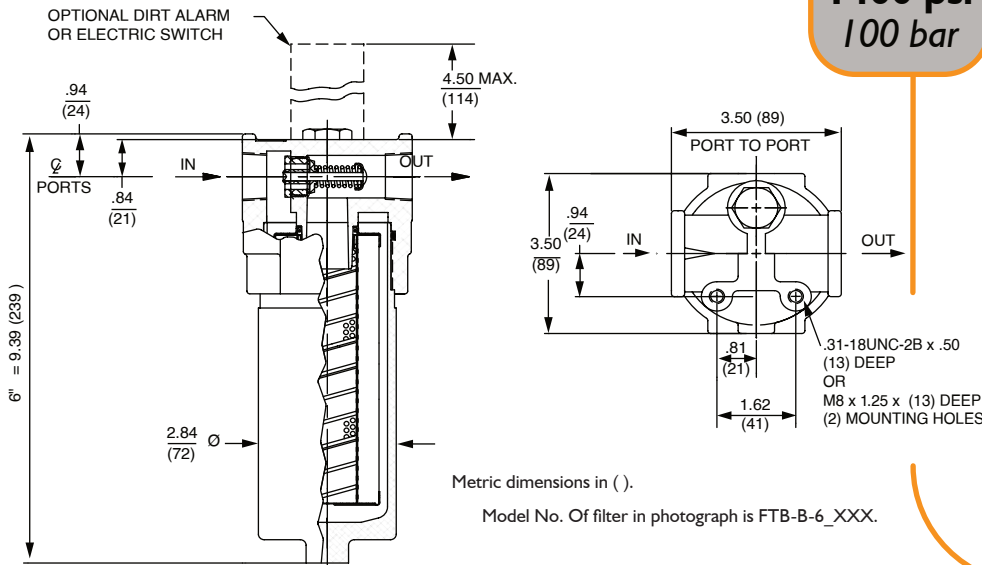


FTB-B-6-XXX

MEDIUM PRESSURE FILTER



Filter Housing Specifications	
Flow Rating	Up to 25 gpm (100 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure	1400 psi (100 bar)
Min. Yield Pressure	4000 psi (276 bar)
Rated Fatigue Pressure	750 psi (52 bar) per NFPA T2.6.1-R1-2005
Temp. Range	-20°F to 225°F (-29°C to 107°C)
Bypass Setting	Cracking: 40 psi (2.8 bar) Full Flow: 55 psi (3.8 bar)
Porting Head	Aluminium
Element Case	Aluminium
Weight of FTB-B-6	3.0 lbs. (1.4kg)
Element Change Clearance	2.75" (70mm)

Fluid Compatibility	
Type Fluid	Appropriate Media
Petroleum Based Fluids	All Paper (E) and Synthetic (Z)
High Water Content	All Z-Media® (synthetic)
Invert Emulsions	10 and 25 µ Z-Media® (synthetic)
Water Glycols	3, 5, 10 and 25 µ Z-Media® (synthetic)
Phosphate Esters	All Z-Media® (synthetic) with H (EPR) seal designation
Skydrol	Z3H.5, Z5H.5, Z10H.5 & Z25H.5

Element Performance Information						
Element	Absolute Rating Per ISO 4572 / NFPA T3.10.8.8			Abs. Rating wrt ISO 16889		Dirt Holding Capacity gm
	Using automated particle counter (APC) calibrated per ISO 4402			Using APC calibrated per ISO 11171		
	$\beta_x \geq 75$	$\beta_x \geq 100$	$\beta_x \geq 200$	$\beta_{x(c)} \geq 200$	$\beta_{x(c)} \geq 1000$	
FTB-6-01	<1.0	<1.0	<1.0	<4.0	4.2	15
FTB-6-03	<1.0	<1.0	<2.0	4.7	5.8	15
FTB-6-05	2.5	3.0	4.0	6.5	7.5	17
FTB-6-10	7.4	8.2	10.0	10.0	12.7	14
FTB-6-25	18.0	20.0	22.5	19.0	24.0	25

Element Collapse Rating: 150 psid (10 bar)
 Flow Direction: Outside In
 Element Nominal Dimensions: 2.0" O.D. X 6.0" (150mm) long

SAME DAY SHIPPING MODEL AVAILABLE!

Features and Benefits

- Smaller, compact version of FTB-B-12-XXX.
- Quick and easy cartridge change outs.
- Available in 12"
- Lightweight at 3lbs
- Various Dirt Alarm® options
- Same day shipment model available

Element Selection

Based on flow Rate

Pressure		Series		Element	Part number		Element Selections are predicted on the use of 150 SUS (32 cSt) petroleum based fluid and a 40psi (2.8 bar) bypass valve.		
To 1400 psi (100 bar)	Z Media			FTB-6-01	FTB-6-01				
				FTB-6-03	FTB-6-03				
				FTB-6-05	FTB-6-05				
				FTB-6-10	FTB-6-10				
				FTB-6-25	FTB-6-25				
Flow		gpm		0	5	10	15	20	25
		(L/min)		0	25	50	75	100	

Shown above are the elements most commonly used in this housing.

Note: Contact factory regarding use of E media in High Water Content, Invert Emulsion and Water Glycol applications.

For more information, refer to Fluid compatibility: Fire Resistant Fluids, pages 19 and 20.

Pressure Drop Information

Based on the Flow Rate and Viscosity

ΔP filter = ΔP housing + ΔP element	ΔP housing	ΔP element
<p>Exercise: Determine ΔP at 15 gpm (57 L/min) for FTB-B-6-FTB-6-03-B12-D5 using 200 SUS (44 cSt) fluid.</p> <p>Solution: ΔP housing = 5 psi [.34 bar] ΔP element = 7 psi [.48 bar]</p> <p>$V f = 100 \text{ SUS (21.3 cSt)} / 150 \text{ SUS (32 cSt)} = .67$</p> <p>$\Delta P$ filter = 5 psi + (7 psi * .67) = 9.7psi</p> <p>OR ΔP filter = .34 bar + (.48 bar * .67) = .66 bar</p>	<p>FTB-B-6 ΔP housing for fluids with specific gravity = 0.86:</p> <p>sp gr = specific gravity</p>	<p>ΔP element = flow x element ΔP factor x viscosity factor</p> <p><i>El. ΔP factors @150 SUS (32 cSt):</i></p> <p>FTB-6-01 1.11 FTB-6-03 .55 FTB-6-05 .50 FTB-6-10 .46 FTB-6-25 .25</p> <p>If working in units of bars & L/min, divide above factor by 54.9.</p> <p><i>Viscosity factor:</i> Divide viscosity by 150 SUS (32 cSt).</p>

Order Guide

FTB-6-

Media
01
03
05
10
25

Seal Material
(OMIT) = Buna N
H = EPR*
V = Viton*

Porting
B12 = ISO 228 G - 3/4
(3/4 - 14 BSPP)

(B12 porting supplied with metric mounting holes)

Dirt Alarm
D5 - Cartridge

Options
Electrical Indicator
(Available on request)