

# In-tank Filters

## OFRT850 Series

Flows to 1500 L/min (396.3 USgpm)  
Pressures to 10 bar (150 PSI)

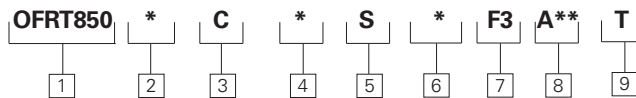


### Features and Benefits

- High efficiency filter elements with superior dirt-holding capacity designed for return lines and installed semi-immersed or totally immersed in a reservoir.
- Excellent pressure drop characteristics.
- Indicators ordered separately.
- Bowl length options for design flexibility.
- Easy element changes.
- Bypass valve prevents excessive pressure drop and prevents element collapse and release of retained contaminant's back into hydraulic system.
- Designed to comply with ISO standards

### DESIGN SPECIFICATIONS

<b>Rated flow:</b>	Length 1	650 L/min (171.7 USgpm)
	Length 2	1000 L/min (264.2 USgpm)
	Length 3	1200 L/min (317.0 USgpm)
	Length 4	1500 L/min (396.3 USgpm)
<b>Fluid compatibility:</b>	Compatible with most petroleum oil, water glycol, oil-in-water and water-in-oil fluids, Optional seals available for phosphate esters.	
<b>Temp range:</b>	-25°C to 110°C (-13°F to 230°F)	
<b>Pressure rating:</b>	Operating	10 bar (150 PSI)
	Fatigue	10 bar (150 PSI)
<b>Material:</b>	Head	Die Cast Aluminum
	Cover	Steel
<b>Dry weight:</b> (Approximate)	Length 1	30 kg. (66.14 lbs.)
	Length 2	34 kg. (74.96 lbs.)
	Length 3	37 kg. (81.57 lbs.)
	Length 4	41 kg. (90.39 lbs.)



### OFRT 850 Series Filter and Element Model Code

**Sample model code:**  
OFRT8501COSAF3A06T

#### [1] Filter Series - OFRT 850

#### [2] Assembly Length

mm (inch)  
**1** - 572 (22.5)  
**2** - 787 (31.0)  
**3** - 1067 (42.0)  
**4** - 1332 (52.4)

#### [3] Bypass Options

**C** - Bypass set at 25 PSI cracking pressure

#### [4] Diffuser Options

**O** - No diffuser  
**D** - With diffuser

#### [5] Breather Options

**S** - No breather

#### [6] Seal Material

**A** - Buna-N  
**V** - Viton-A

#### [7] Port Options

**F3** - DN 100 PN 10/16 3" SAE/Metric Bolt Holes

#### [8] Fluid Cleanliness Rating Target fluid

Code	cleanliness level
<b>A06</b>	18/16/14 or better
<b>A10</b>	20/18/15 or better

#### [9] Indicator Options

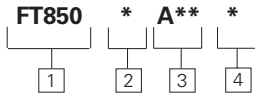
**T** - No Indicator (plug), No Connector

*Items not in bold are non-standard and may have a longer lead time*

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### Element model code

Sample model code:

FT8502A06A

**1** Filter Element - FT 850

**2** Element Length

- mm (inch)
- 1** - 388 (15.2)
  - 2** - 603 (23.7)
  - 3** - 883 (34.7)
  - 4** - 1148 (45.2)

**3** Fluid Cleanliness Rating

Code Target fluid cleanliness level

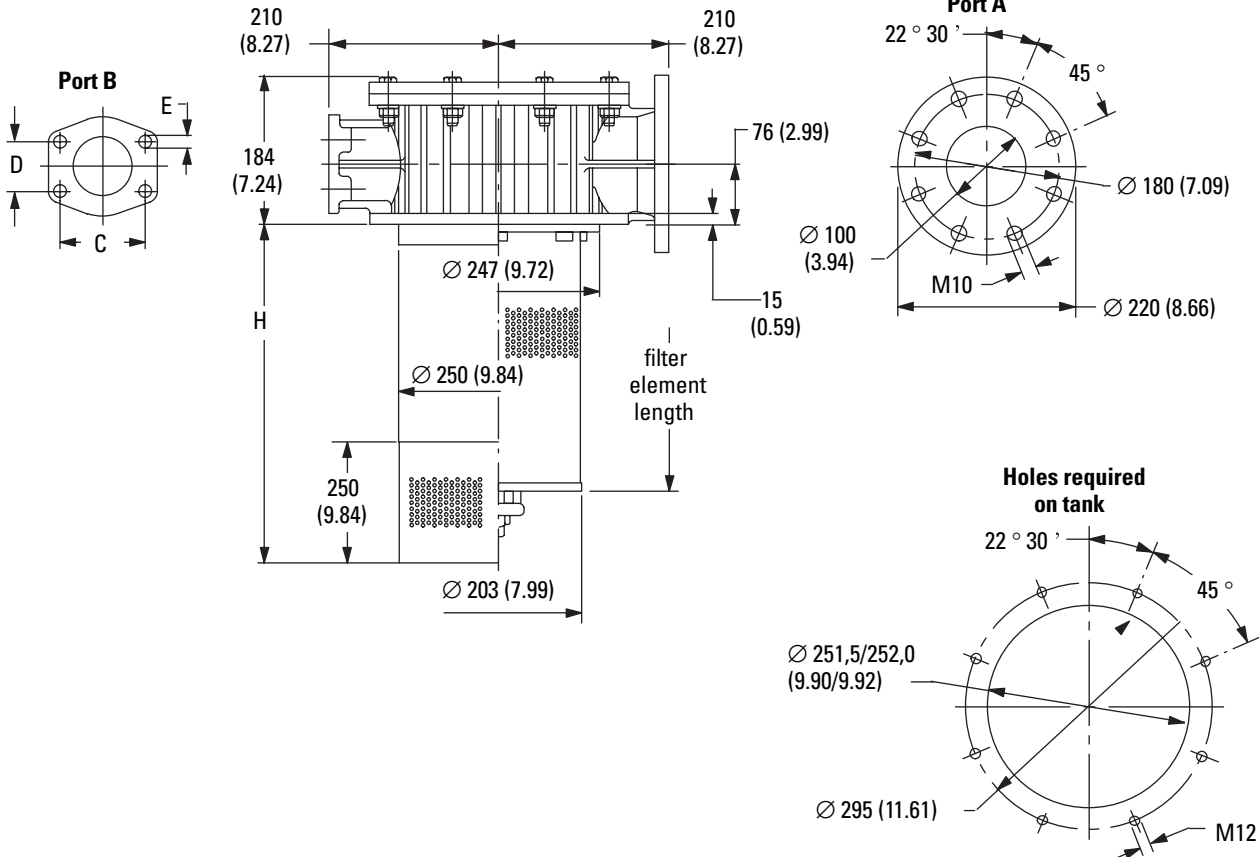
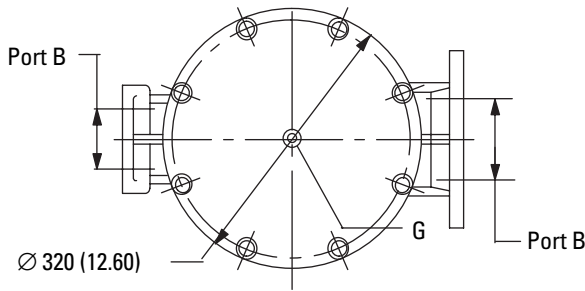
- A06** 18/16/14 or better
- A10** 20/18/15 or better

**4** Seal Material

- A** - Buna-N
- V** - Viton-A

### Housing Dimensions

mm (inch)



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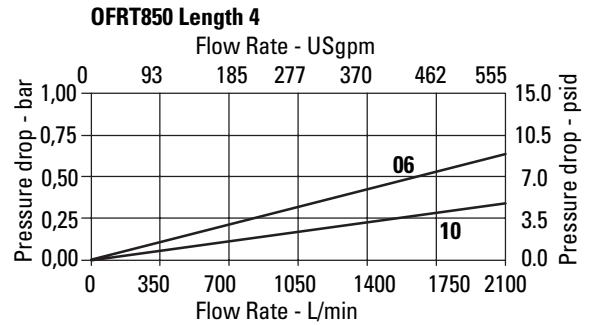
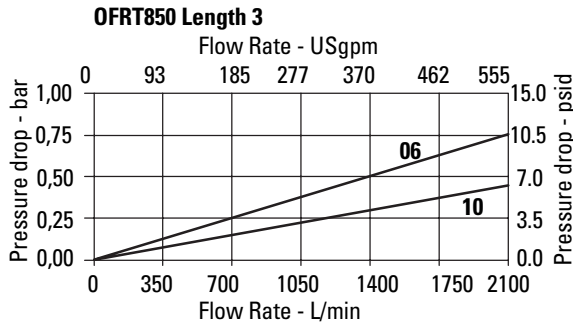
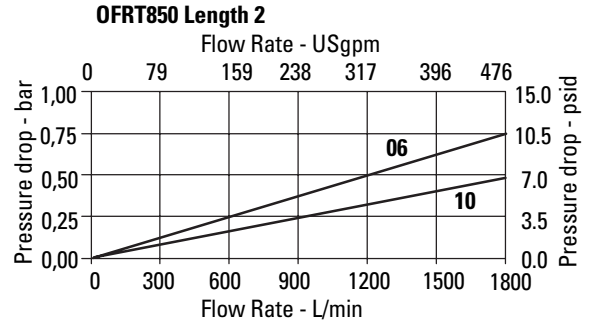
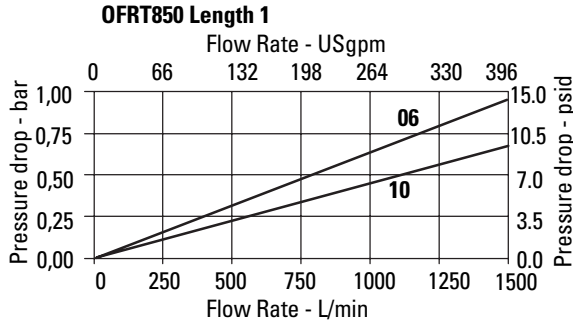
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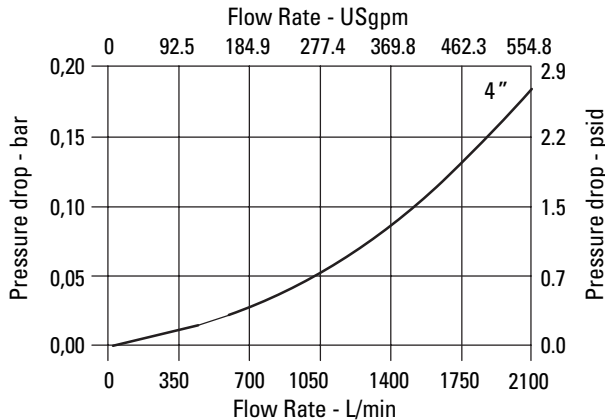
### Flow Data

#### Element Flow Data



#### Housing/Bypass Valve Flow Data

##### Housing



##### Bypass Valve

Based on mineral oil with density of 0,86 kg/dm<sup>3</sup>.  
ΔP varies proportionally to density.

