

In-tank Filters

OFRT630 Series

Flows to 480 L/min (126.8 USgpm)
Pressures to 10 bar (150 psi)



Features and Benefits

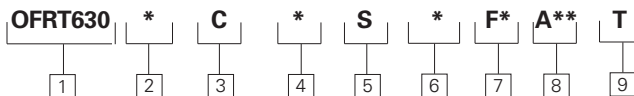
- High efficiency filter elements with superior dirt-holding capacity designed for return lines and installed semi-immersed in a reservoir
- Excellent pressure drop characteristics
- Indicators ordered separately
- Bowl length options for design flexibility
- Easy element changes
- Bypass valve prevents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

OFRT 630 Series Filter and Element Model Code

Sample model code:
OFRT6301COSAF3A06T

DESIGN SPECIFICATIONS

Rated flow:	Length 1	320 L/min (84.5 USgpm)
	Length 2	400 L/min (105.7 USgpm)
	Length 3	440 L/min (116.2 USgpm)
	Length 4	480 L/min (126.8 USgpm)
Fluid compatibility:	Compatible with most petroleum oil, water glycol, oil-in-water and water-in-oil fluids, Optional seals available for phosphate esters.	
Temp range:	-25°C to 110°C (-13°F to 230°F)	
Pressure rating:	Operating	10 bar (150 psi)
	Fatigue	10 bar (150 psi)
Material:	Head	Die Cast Aluminum
	Cover	Aluminum
Dry weight: (Approximate)	Length 1	8,2 kg. (18.1 lbs.)
	Length 2	8,7 kg. (19.2 lbs.)
	Length 3	9,0 kg. (19.8 lbs.)
	Length 4	9,5 kg. (20.9 lbs.)



1 Filter Series - OFRT 630

2 Assembly Length

mm (inch)

1 - 400 (15.7)
2 - 480 (18.8)
3 - 580 (22.8)
4 - 670 (26.4)

Length given does not include diffuser

3 Bypass Options

C - Bypass set at 1.7 bar (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

F1 - 2-1/2 in SAE Flange Code 61 with metric bolts
F2 - 2 in and 2-1/2 in SAE Flange Code 61 with metric bolts (dual)
F3 - 2-1/2 in SAE Flange Code 61 with UNC bolts
F4 - 2 in and 2-1/2 in SAE Flange Code 61 with UNC bolts

8 Fluid Cleanliness Rating Target fluid

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

9 Indicator Options

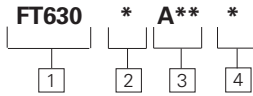
T - No Indicator (plug), No Connector

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

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Element model code

Sample model code:

FT6302A06A

1 Filter Element - FT 630

2 Element Length

- mm (inch)
- 1** - 260 (10.2)
 - 2** - 340 (13.4)
 - 3** - 440 (17.3)
 - 4** - 530 (20.9)

3 Fluid Cleanliness Rating
Target fluid

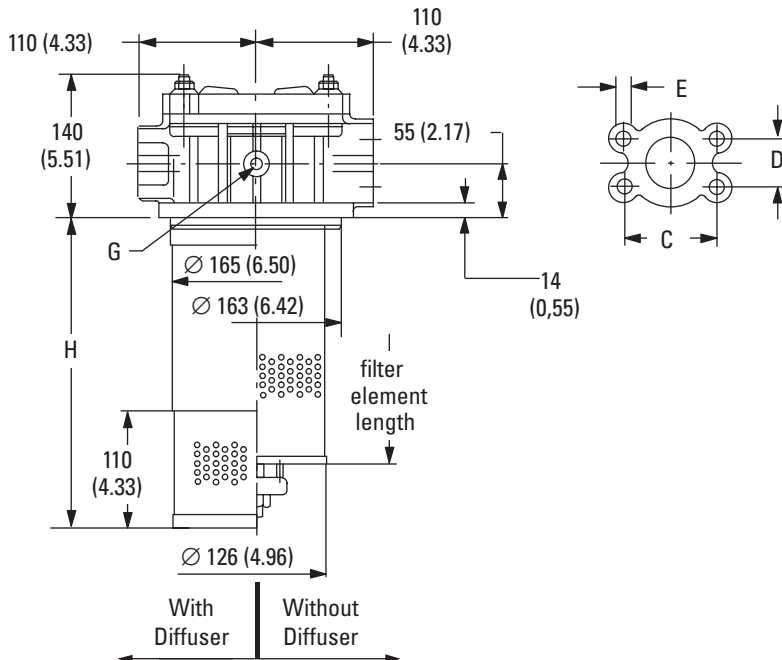
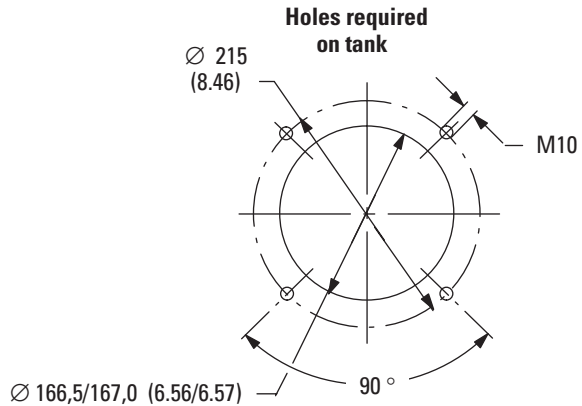
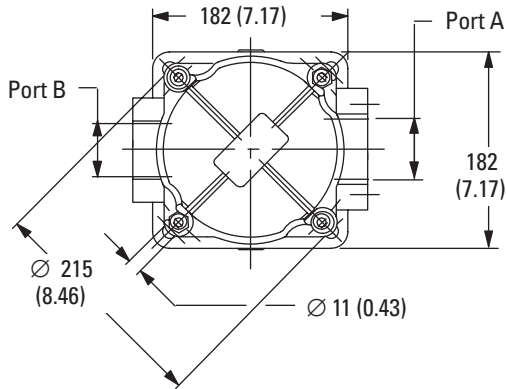
Code	cleanliness level
A06	18/16/14 or better
A10	19/17/14 or better

4 Seal Material

A - Buna-N
V - Viton-A

Housing Dimensions

mm (inch)



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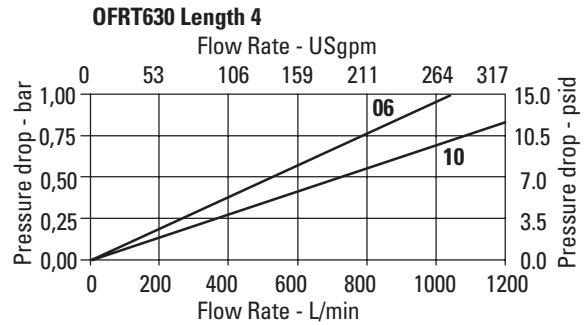
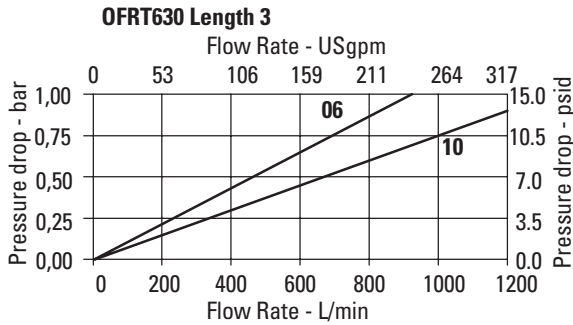
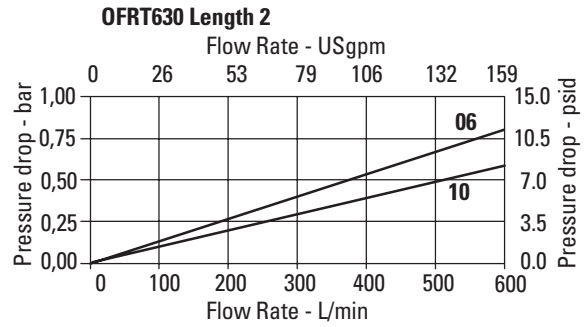
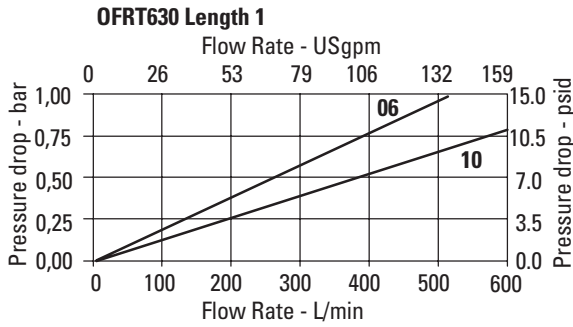
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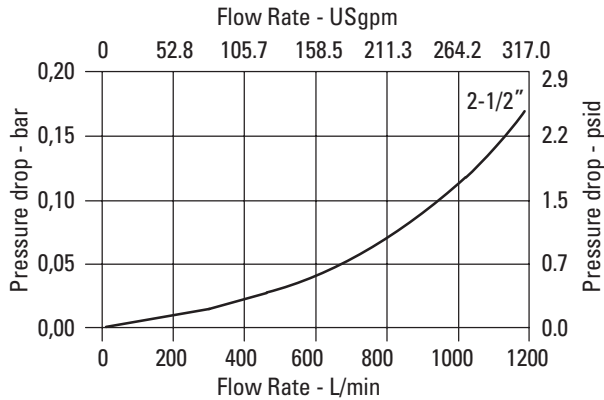
Flow Data

Element Flow Data



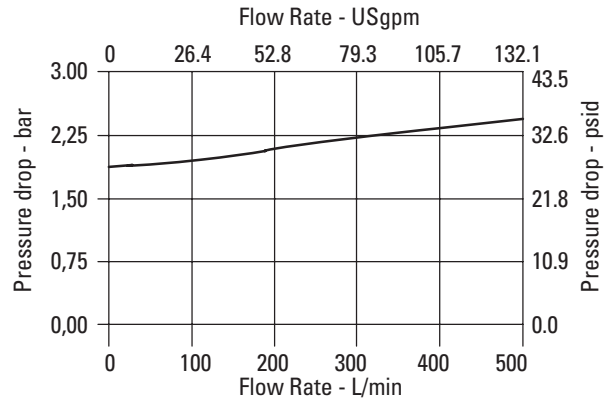
Housing/Bypass Valve Flow Data

Housing



Bypass Valve

Based on mineral oil with density of 0,86 kg/dm³.
ΔP varies proportionally to density.



Sample ΔP Calculation :

OFRT6301COSAF3A06T - Filter assembly having filter element with micron rating code '06' at 300 L/min flow rate using a hydraulic fluid at 46 cSt viscosity & specific gravity (sp.gr.)0.8.

ΔP Assembly	=	ΔP Housing	+	ΔP Element
	=	Housing ΔP from graph x sp.gr.(actual)/0.9	+	Element ΔP valve from from graph(bar/lpm) x [actual cSt / 32] x [Sp.Gr(actual) / 0.9]
	=	0.02 x 0.8/0.9	+	0.6 x 46/32 x 0.8/0.9
	=	0.017	+	0.76
	=	0.77 bar		