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## OFPH Series Filters



### Features and Benefits

- Designed to comply with ANSI specifications and ISO cleanliness standards.
- Visual, electrical, and electrical indicators with lamp options for system design flexibility.
- Fully serviceable without tools.
- Zero leak by-pass valve construction.
- Wide range of element lengths for maximum design flexibility.
- High efficiency replacement elements in standard configurations (H-Pak) to meet Target Cleanliness Levels.
- High collapse elements available for non-bypass applications.

Flows to 22 L/min  
(6 USgpm)

Pressures to 310 bar  
(4500 PSI)

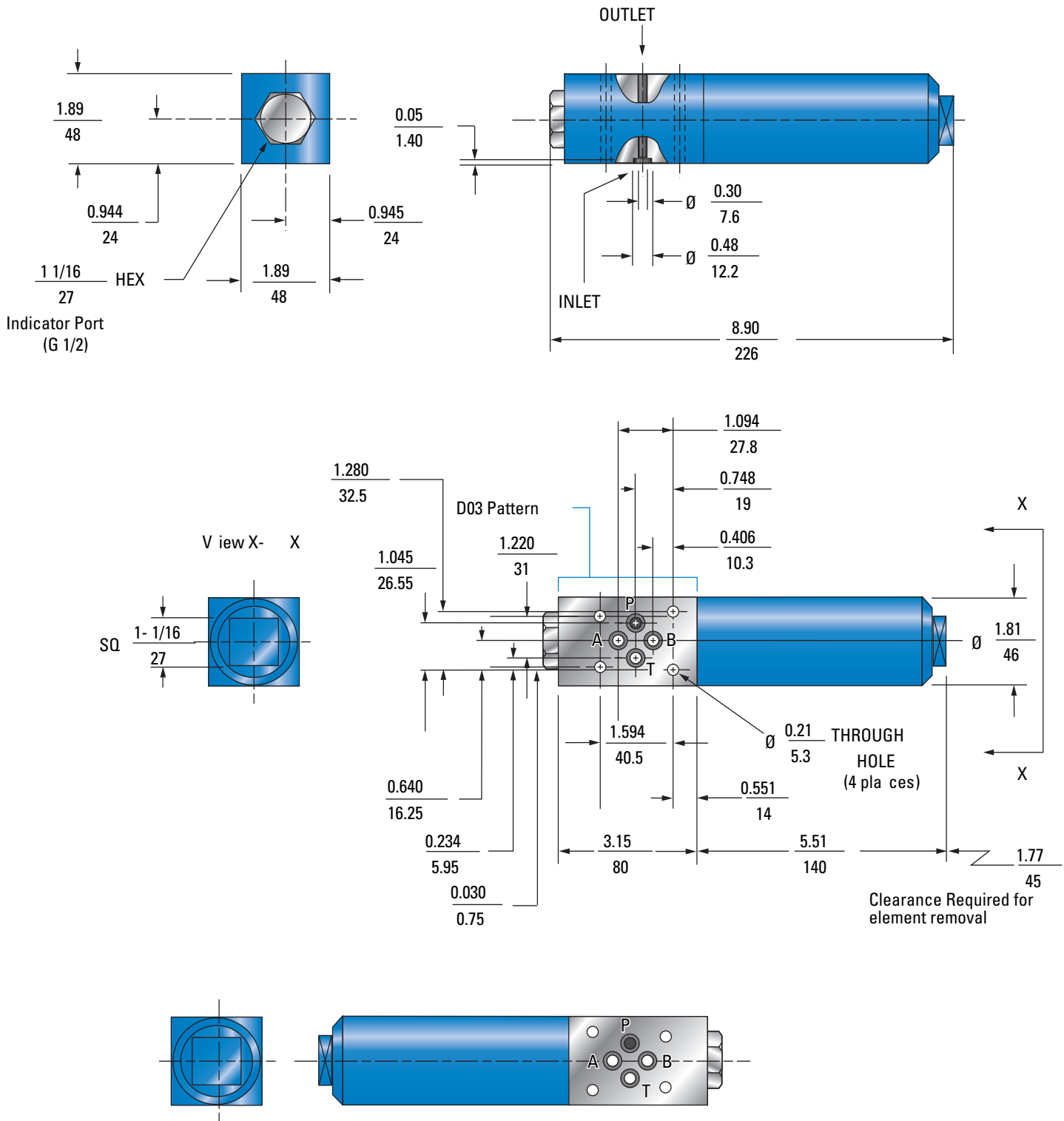
### DESIGN SPECIFICATIONS

<b>Application:</b>	Designed to mount directly underneath D03, D05 and CETOP Valves. The fluid is filtered prior to entering the valve "P" (Pressure) Port.		
<b>Rated flow:</b>	<b>OFPH030 3.7" element:</b>	23 L/min (6 USgpm)	
	<b>OFPH051 3.5" element:</b>	45 L/min (12 USgpm)	
	<b>OFPH052 6" element:</b>	53 L/min (14 USgpm)	
<b>Element collapse pressure</b>	<b>H element:</b>	210 bar (3000 psi)	
<b>Filter body</b>	<b>Max. pressure:</b>	465 bar (6750 psi)	
	<b>Min. burst pressure:</b>	1400 bar (20,300 psi)	
<b>Fatigue test:</b>	Body subjected to pressure impulses from 0 to 276 bar (0 to 4000 psi); withstood 1 million cycles.		
<b>Material:</b>	<b>Head Bowl</b>	Ductile Iron Carbon Steel	<b>Element media:</b> Glass microfiber <b>Seals:</b> Nitrile (Buna-N)
<b>Housing &amp; Element Compatibility:</b>	Compatible with most petroleum oil, water glycol, oil-in-water and water-in-oil fluids. Optional seals available for phosphate esters.		
<b>Micron rating</b>	<b>03 code:</b>	3 micron	<b>10 code:</b> 10 micron
	<b>05 code:</b>	5 micron	
<b>Temp range:</b>	26°C to +121°C (-15°F to +250°F)		
<b>Dry weight: (Approximate)</b>	<b>OFPH030 3.7" element:</b>	5.3 kg (2.4 lbs)	
	<b>OFPH051 3.5" element:</b>	10.8 kg (4.9 lbs)	
	<b>OFPH052 6" element:</b>	12.6 kg (5.7 lbs)	
<b>Pressure rating:</b>	<b>Operating Proof Burst Fatigue</b>	414 bar (4500 psi) 621 bar (6090 psi) 465 bar (6750 psi) 276 bar (4000 psi)	

# Dimensions

## OFPH Housing

mm (inch)

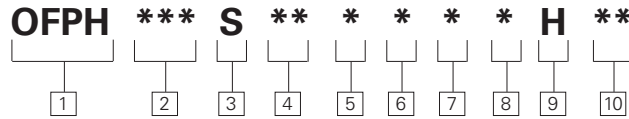


# Model Codes

## OFPH Series Filter Model Codes

Sample model code:

OFPH-031-S-A1-0-K-B-3-H-03



**1 Filter Series**  
OFPH - Pressure line filter

**2 Bowl length**  
031 - OFPH031 (D03) 3.7"  
051 - OFPH051 (D05) 3.5"  
052 - OFPH052 (D05) 6"

**3 Integral bypass valve**  
S - Without bypass valve

**4 Port options**  
A1 - Modular stacking,  
Bowl Side A  
B2 - Modular stacking,  
Bowl Side B

**5 Indicator options**  
**First designator - indicator type**  
A - Visual 70 psi  
O - Visual 115 psi  
T - Electrical 115 psi  
U - Electrical 70 psi  
J - No indicator

**6 Second designator -  
Electrical receptical**  
B - Brad Harrison  
H - Hirshman  
K - Hirshman w/24 volt light  
J - Hirshman w/115 volt light  
L - Hirshman w/230 volt light  
N - No connector - use with  
visual indicators and "J"

**7 Seals**  
B - Nitrile (Buna-N)  
V - Vitron†  
† Viton is a registered trademark of E.I.DuPont

**8 Length**

Element	Assembly
3 - OFPH031	101mm (3.7") 226mm (8.9")
5 - OFPH051	203mm (3.5") 254mm (10")
6 - OFPH052	330mm (6") 325mm (12.8")

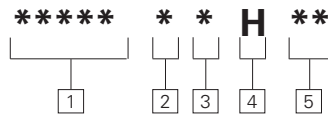
**9 Element series  
(collapse pressure)**  
H - 210 bar (3045 psi)  
- Omit for housing only

**10 Fluid cleanliness rating**  
03 - 16/14/12 or better  
05 - 18/16/14 or better  
10 - 20/18/15 or better

## V0603, V0604 and V0114 Series Replacement Element Model Codes

Sample model code:

V0603-B-3-H-03



**1 Element series**  
V0603 - For use with OFPH031  
series filters  
V0604 - For use with OFPH051  
series filters  
V0114 - For use with OFPH052  
series filters

**2 Seals**  
B - Nitrile (Buna-N)  
V - Vitron

**3 Element length**  
3 - OFPH031 3.7 in (V0603 only)  
5 - OFPH051 3.5 in (V0604 only)  
6 - OFPH052 6 in (V0114 only)

**4 Element collapse pressure**  
H - 210 bar (3045 psi)

**5 Fluid cleanliness rating**  
03 - 16/14/12 or better  
05 - 18/16/14 or better  
10 - 20/18/15 or better

### FP SERIES DESIGN SPECIFICATIONS

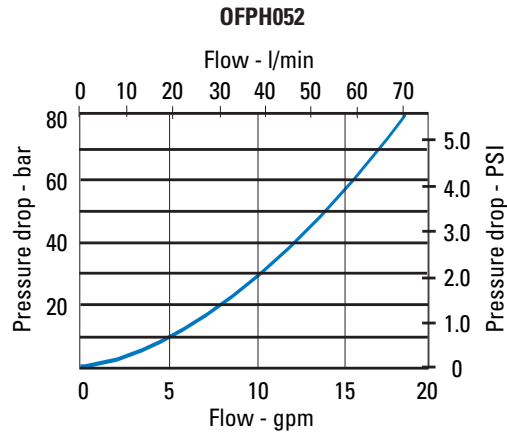
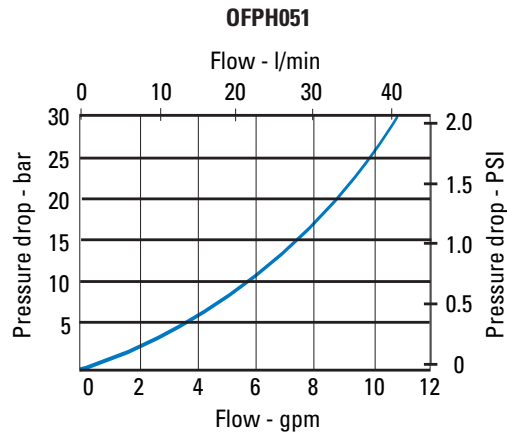
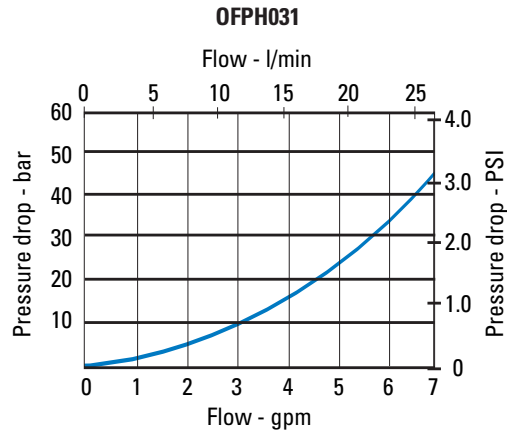
<b>Rated flow:</b>	Length 3	23 L/min (6 USgpm)
	Length 5	45 L/min (12 USgpm)
	Length 6	53 L/min (14 USgpm)
<b>Housing &amp; Element Compatibility:</b>	Compatible with most petroleum oil, oil-in-water and water-in-oil fluids. Optional seals available for phosphate esters.	
<b>Temp range:</b>	-25°C to +120°C (-15°F to +250°F)	
<b>Construction:</b>	C-Pak	

# OFPH Series Housing and Filter Element Flow Data

mm (inch)

Flow versus pressure drop:  
150 SUS (32 cSt) oil with  
specific gravity of <0.9

## Element Flow Curves



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