

Pressure Filters

HF3P Series

Flows to 570 L/min (150 USgpm)
Pressures to 410 bar (6000 PSI)



Features and Benefits

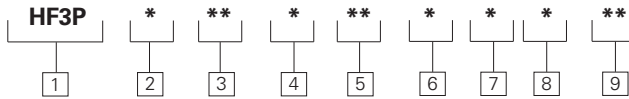
- Designed to comply with ANSI specifications and ISO cleanliness standards.
- Visual, electrical, and electrical indicators with lamp options for system design flexibility
- Conforms to HF3 automotive specifications
- Fatigue rated to 6000 PSI for maximum reliability in the most rugged applications
- Reverse flow valve option for hydrostatic transmission applications.
- Multiple filter element lengths for design flexibility.
- High efficiency replacement elements in standard configurations (C-Pak) to meet Target Cleanliness Levels
- High collapse elements available for non-bypass applications.

HF3P Series Filter and Element Model Code

Sample model code:
HF3P1SB4LNB2C05

DESIGN SPECIFICATIONS

Rated flow:	Length 1	106 L/min (28 USgpm)
	Length 2	208 L/min (55 USgpm)
	Length 4	344 L/min (91 USgpm)
	Length 5	454 L/min (120 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:	-26°C to +121°C (-15°F to +250°F)	
Pressure rating:	Operating	280 bar (4000 PSI)
	Fatigue	410 bar (6000 PSI)
Material:	Head	Ductile iron
	Bowl	Carbon Steel
Dry weight: (Approximate)	Length 1	20,3 kg (44.8lbs)
	Length 2	22,5 kg (49.5lbs)
	Length 4	28,5 kg (62.9lbs)
	Length 5	43,4 kg (95.7lbs)



1 Filter Series - HF3P

2 Element Collapse Rating

- 1 - 250 PSI Low Collapse
4 - 3000 PSI High Collapse

3 Port Options

- BB - G1 to ISO 228
BD - G1-1/2 to ISO 228
ME - 1-1/2" SAE 4 bolt Flange
Code 61 (M12 x 1.75)
MJ - 2" SAE 4 bolt Flange
Code 61 (M12 x 1.75)
MU - 2" SAE 4 bolt Flange
Code 62 (M20 x 2.5)
SB - 1.312 - 12 UN SAE-16
str. Thd. (1" tube)
SD - 1.875 - 12 UN SAE-24
str. Thd. (1-1/2" tube)
FE - 1 1/2" SAE 4 bolt Flange
Code 61 (UNC)
FJ - 2" SAE 4 bolt Flange
Code 61 (UNC)
FU - 2" SAE 4 bolt Flange
Code 62 (UNC)

4 Valve Options

- 1 - Non-Bypass
4 - Bypass set at 43 PSI
cracking pressure
6 - Bypass set at 90 PSI
cracking pressure
8 - Reverse Flow Valve
Non-Bypass*
9 - Reverse Flow Valve 43 PSI
Bypass*

* Reverse flow bypass available with BD,
MU, SD and FU ports only.

5 Indicator Options

- AN** - Visual 70 PSI,
No Connector
JN - No Indicator (plug),
No Connector
KN - Visual 15 PSI,
No Connector
LN - Visual 30 PSI,
No Connector
ON - Visual 115 PSI,
No Connector
RB - Electrical 30 PSI,
Brad Harrison
RH - Electrical 30 PSI,
Hirshman
RJ - Electrical 30 PSI,
Hirshman w 24 volt light
RK - Electrical 30 PSI,
Hirshman w 115 volt light
RL - Electrical 30 PSI,
Hirshman w 230 volt light
TB - Electrical 115 PSI,
Brad Harrison
TH - Electrical 115 PSI,
Hirshman
TJ - Electrical 115 PSI,
Hirshman w 24 volt light
TK - Electrical 115 PSI,
Hirshman w 115 volt light
TL - Electrical 115 PSI,
Hirshman w 230 volt light
UB - Electrical 70 PSI,
Brad Harrison
UH - Electrical 70 PSI,
Hirshman
UJ - Electrical 70 PSI,
Hirshman w 24 volt light

- UK** - Electrical 70 PSI,
Hirshman w 115 volt light
UL - Electrical 70 PSI,
Hirshman w 230 volt light

6 Seal Material

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

7 Assembly Length

- mm (inch)
1 - 230 (9.1)
2 - 293 (11.5)
4 - 414 (16.3)
5 - 569 (22.4)

8 Element Construction

- C** - 250 PSI Low Collapse
H - 3000 PSI High Collapse

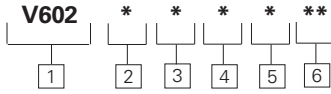
9 Fluid Cleanliness Rating

Code	Target fluid cleanliness level
03	16/14/12 or better
05	18/16/14 or better
10	20/18/15 or better
20	22/19/16 or better

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V602 Element Model Code

Sample model code:
V6021B1C03

1 Filter element

V602 - For use with HF3P, HF3PS and OFR30 series filters

2 Element collapse rating

1 - 250 PSI Collapse
4 - 3000 PSI High Collapse
NOTE: Use 1 only with bypass valve. Eaton's low collapse ratings have improved from 150 to 250 PSI

3 Seal material

B - Buna-N
V - Viton-A

4 Element length

mm (inch)
1 - 101 (4)
2 - 203 (8)*
4 - 330 (13)
5 - 406 (16)
*HF3

5 Element construction

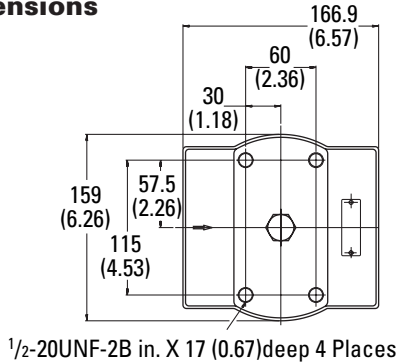
C - C-Pak (grade 3, 5, 10, 20)
H - H-Pak (grade 3, 5, 10)

6 Fluid cleanliness rating

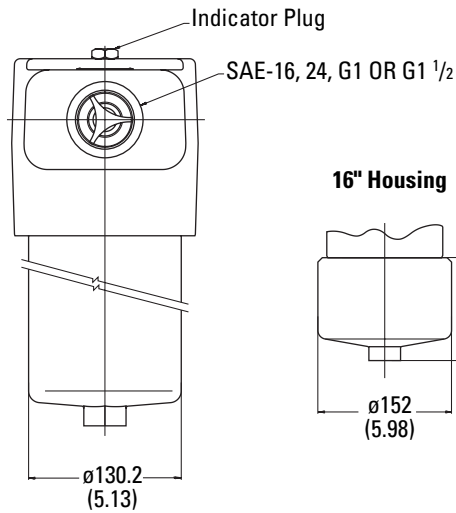
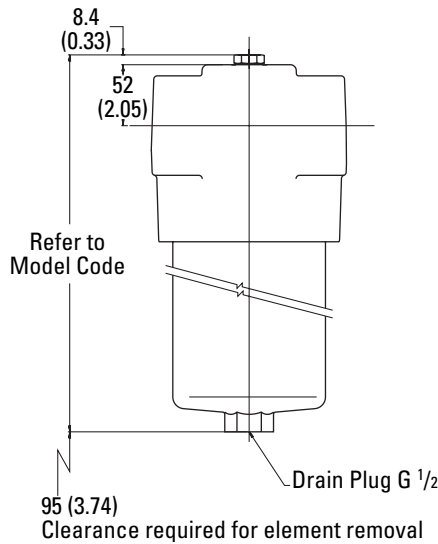
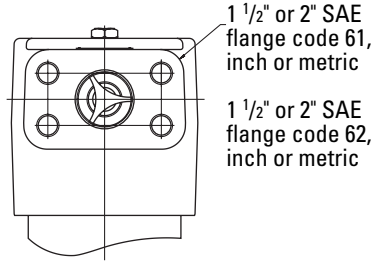
Code	Target fluid cleanliness level
03	16/14/12 or better
05	18/16/14 or better
10	20/18/15 or better
20	22/19/16 or better

Housing Dimensions

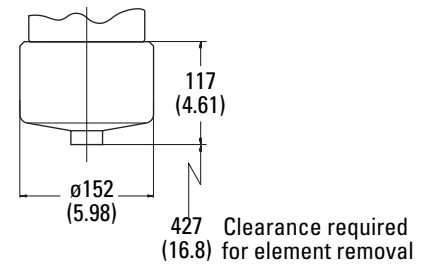
mm (inch)



Inlet & Outlet Porting

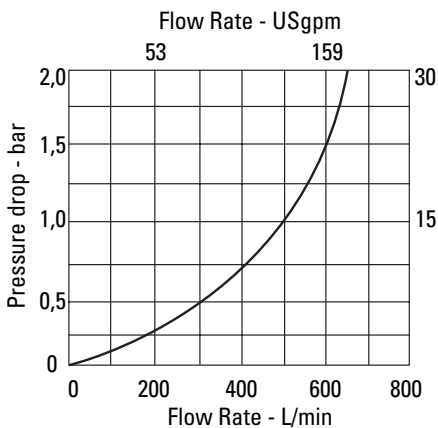


16" Housing

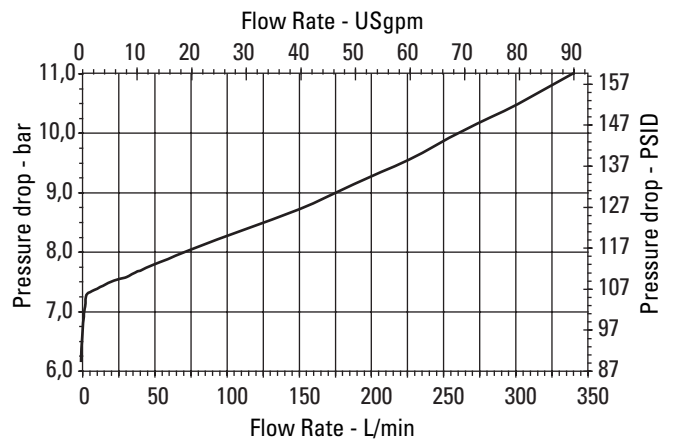


Housing/Bypass Valve Flow Data

Housing



Bypass Valve



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

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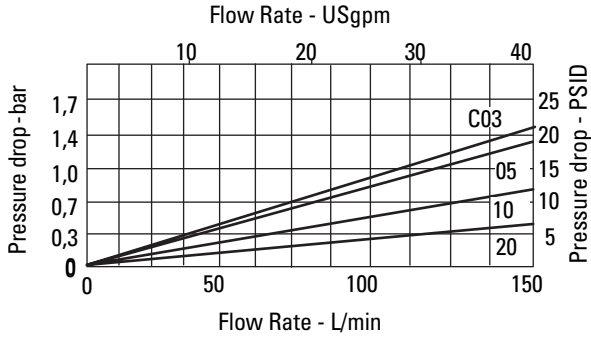
Flow Data

Flow versus pressure drop:

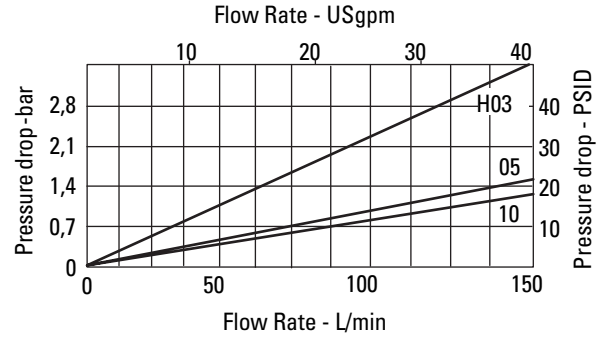
150 SUS (32 cSt) oil with specific gravity of ≤ 0.9

Element Flow Data

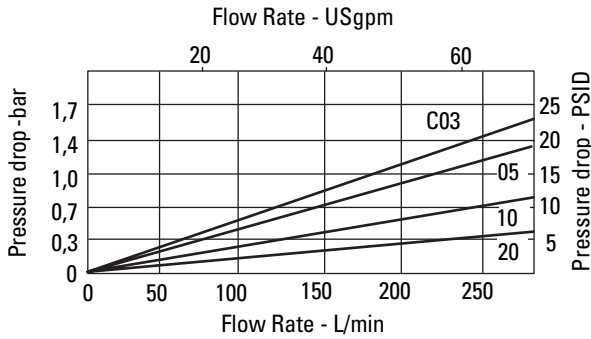
HF3P C-Pak Length 1



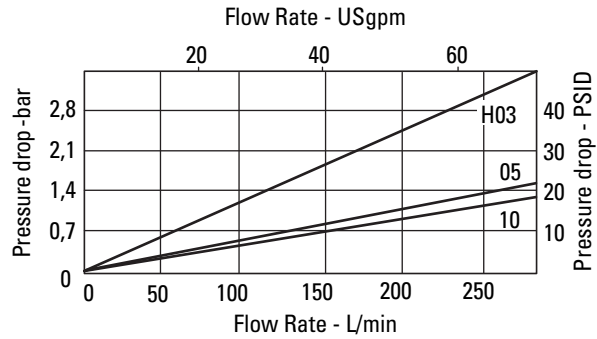
HF3P H-Pak Length 1



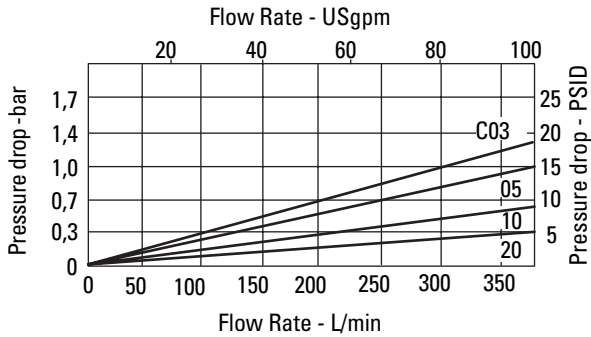
HF3P C-Pak Length 2



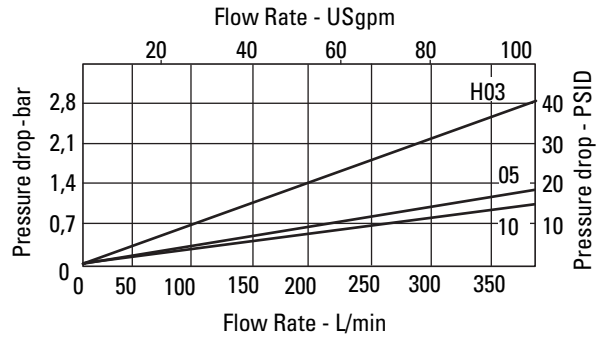
HF3P H-Pak Length 2



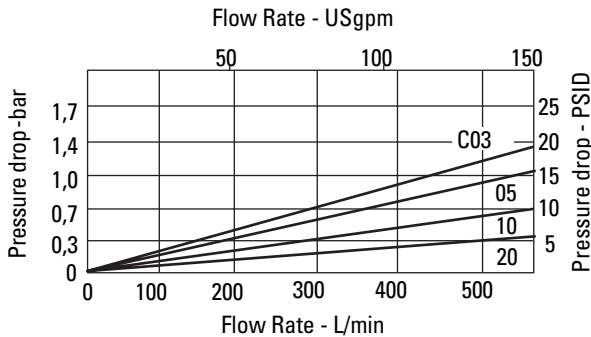
HF3P C-Pak Length 4



HF3P H-Pak Length 4



HF3P C-Pak Length 5



HF3P H-Pak Length 5

