



*A more robust
and reliable
filter assembly*

FHD/FJD 040-080 Series L-Type Hydraulic Filter Assemblies

Hydraulic & Lubrication System Return-Line Filter Assemblies

Features

- 150 psi (10 bar) operating pressure
- 40 and 80 gpm (151 & 303 lpm) nominal flow rates
- Elements available with $\beta_{x(c)} \geq 1,000$ Glas-Tech® media
- 1¼" NPT ports
- FHD series assembly designed for military style AN6236-3 elements

Technical Data

Pressure & Temperature Rating

Operating Pressure:	150 psi (10 bar)
Proof Pressure:	225 psi (16 bar)
Burst Pressure:	400 psi (28 bar)
Operating Temperature:	-40°F to +250°F (-40°C to +121°C)

Materials of Construction

Cover:	Steel
Case:	Steel

Bypass Options

Bypass Valve Setting:	20 psid (1.4 bar) ±10%
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Product Description

The FHD/FJD 040-080 Series filter assemblies are ideally suited for low pressure return-line applications. Due to the high dirt holding capacity the FHD/FJD series is ideally suited for use in low pressure lubrication systems as well as in industrial and military test stands. These filter assemblies are rated for 150 psi (10 bar) service and flows to 40 or 80 gpm (151 or 303 lpm). The FHD/FJD 040 is a single element filter while the FHD/FJD 080 uses two elements.

Filter Assembly (Housing & Element) Weight

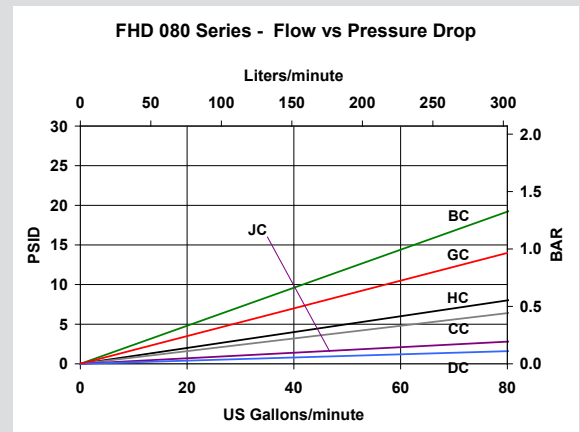
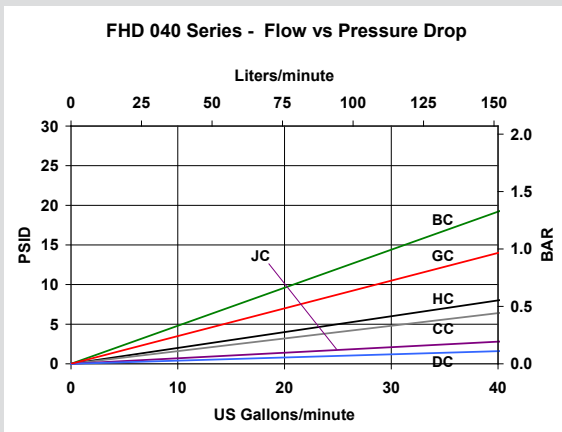
Size	040	080
Weight	19 lbs (8.6kg)	30 lbs (13.6kg)



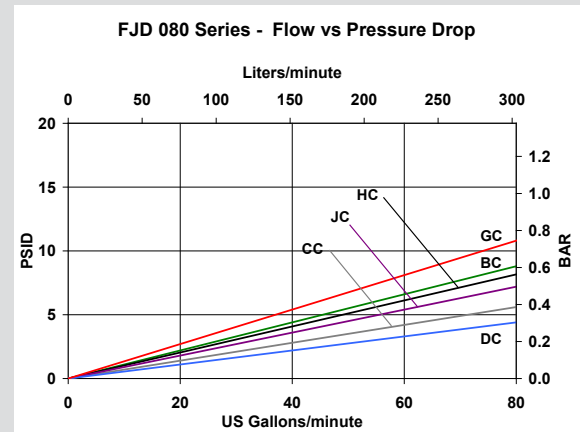
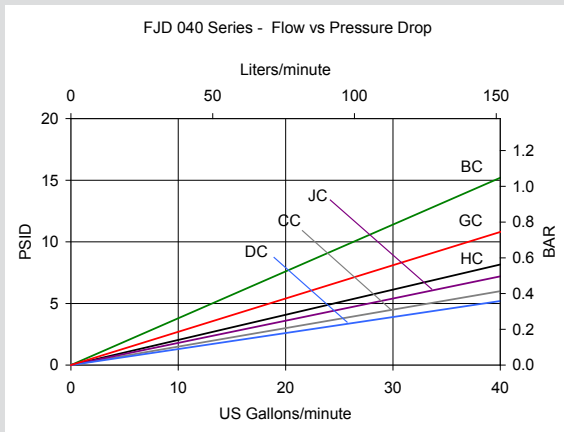
Filtration Rating			
Multipass Test results per old ISO 4572 and new ISO 16889 test procedures			
Particle size (x) in microns at which the Beta Ratio (β) is greater than or equal to the indicated value (200 or 1000).			
	Per ISO 4572	Per ISO 16889	
Code	$\beta_x \geq 200$	$\beta_{x(c)} \geq 200$	$\beta_{x(c)} \geq 1000$
G	3	5	7
H	6	7	9
K	12	12	15
J	23	21	24

Code	Micron Rating	Media
B	3 μm	Cellulose
C	10 μm	Cellulose
D	25 μm	Cellulose

Flow Rate/Pressure Drop Curves FHD Elements with Housing



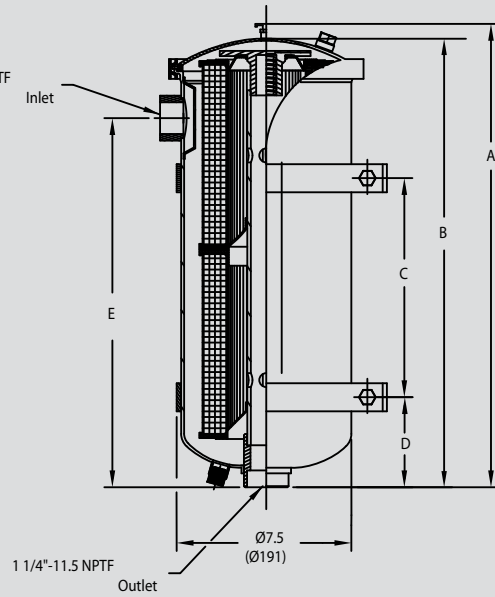
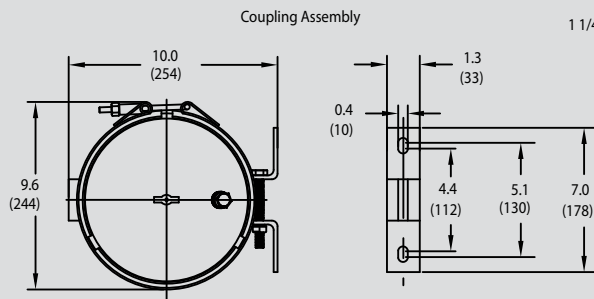
FJD Elements with Housing



Pressure drop curves are for clean elements using 150 SUS (32 cSt) petroleum base hydraulic fluid of 0.9 S.G.
 Filter Assembly ΔP = Housing ΔP + Element ΔP

Dimensions*

* Dimensions in inches (mm)

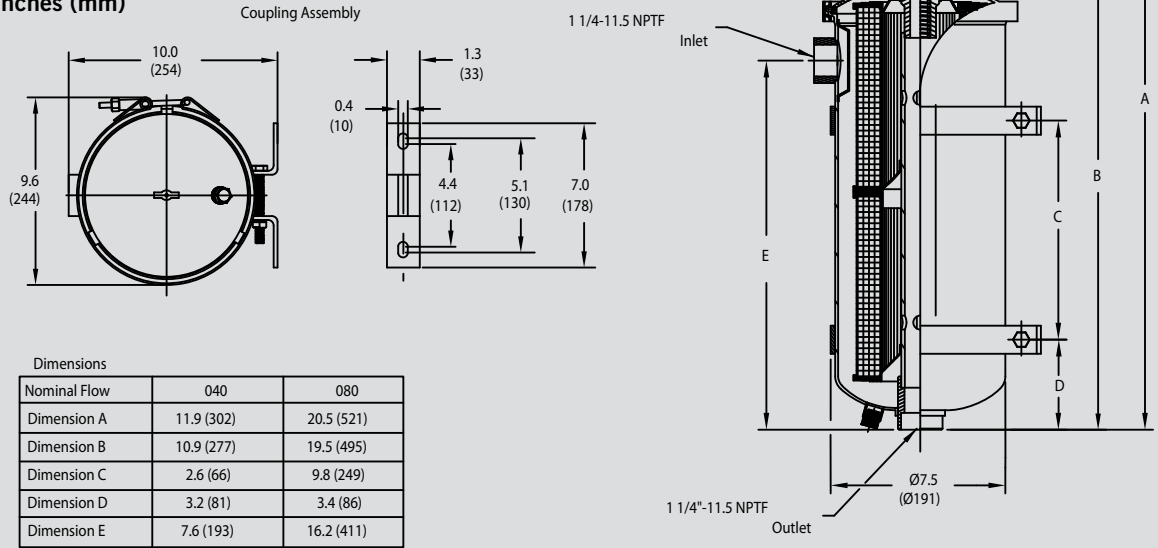


Dimensions

Nominal Flow	040	080
Dimension A	11.9 (302)	20.5 (521)
Dimension B	10.9 (277)	19.5 (495)
Dimension C	2.6 (66)	9.8 (249)
Dimension D	3.2 (81)	3.4 (86)
Dimension E	7.6 (193)	16.2 (411)

Dimensions*

* Dimensions in inches (mm)



Dimensions		040	080
Nominal Flow		040	080
Dimension A		11.9 (302)	20.5 (521)
Dimension B		10.9 (277)	19.5 (495)
Dimension C		2.6 (66)	9.8 (249)
Dimension D		3.2 (81)	3.4 (86)
Dimension E		7.6 (193)	16.2 (411)

Ordering Information

Assembly:

XXXXXX - X X - X X X X X X

TBL 1 TBL 2 TBL 3 TBL 4 TBL 5 TBL 6 TBL 7 TBL 8 TBL 9 TBL 10

Table 1 Type

Code
FHD
FJD

Table 3 Filtration Rating

Code	Micron Rating	Media
G	$\beta_{7(c)} \geq 1000$	Glas-Tech
H	$\beta_{9(c)} \geq 1000$	Glas-Tech
K	$\beta_{15(c)} \geq 1000$	Glas-Tech
J	$\beta_{24(c)} \geq 1000$	Glas-Tech
B	3 μm	Cellulose
C	10 μm	Cellulose
D	25 μm	Cellulose
N	No Filter Element	

Table 4 Collapse

Code	Collapse Rating
C	75 psid (5bar)
N	No Element

Table 5 Seals

Code	Material
B	Buna
*V	Viton®
*E	Ethylene Propylene

* FHD Only

Table 2 Size

Code	Nominal Flow
040	40 gpm (151 lpm)
080	80 gpm (303 lpm)

Table 6 Port

Code	Option
F	1 1/4" NPT

Table 7 Gauge Ports

Code	Option
O	None

Table 8 Indicator

Code	Option
N	None

Table 9 Bypass

Code	Option
B	20 psid (1.4 bar) \pm 10%
N	None

Table 10 Drain Port

Code	Option
D	Drain Port Only
W	Vent, Fill & Drain Port

Note: Fill & drain ports are 5/8"-18 thread

Element:

XXX - XXX - X X - X
TBL 1 TBL 2 TBL 3 TBL 4 TBL 5

Element Ordering Instructions:

Utilize the codes in tables 1 through 5 to assemble a PTI part number or pick a replacement part number from the Replacement Element columns in Table 3

Note: FHD080 & FJD080 Filter Assemblies require two (2) FHD-040 or FJD-040 Elements.

Table 4 Collapse

Code	Collapse Rating
C	75 psid (5 bar)

Table 1 Type

Code
FHD
FJD

Table 3 Filtration Rating

Code	Micron Rating	Media	Replacement Element Part # FHD-040/080*	Replacement Element Part # FJD-040/080*
G	$\beta_{7(c)} \geq 1000$	Glas-Tech	FHD-040-GC	FJD-040-GC-B
H	$\beta_{9(c)} \geq 1000$	Glas-Tech	FHD-040-HC	FJD-040-HC-B
K	$\beta_{15(c)} \geq 1000$	Glas-Tech	FHD-040-KC	FJD-040-KC-B
J	$\beta_{24(c)} \geq 1000$	Glas-Tech	FHD-040-JC	FJD-040-JC-B
B	3 μm	Cellulose	FHD-040-BC	FJD-040-BC-B
C	10 μm	Cellulose	30316-20**	FJD-040-CC-B
D	25 μm	Cellulose	50241	FJD-040-DC-B

Table 5 Seals

Code	Material
B	Buna
***V	Viton®
***E	Ethylene Propylene

*** Available Only On FHD Series
FJD Series Includes Seals
FHD Series Does Not Include Seals
Viton® is a registered trademark of DuPont Performance Elastomers

** For assemblies with Ethylene Propylene or Viton® seals use element P/N 7516361



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