



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

Hydraulic & Lubrication System Return-Line Filter Assemblies

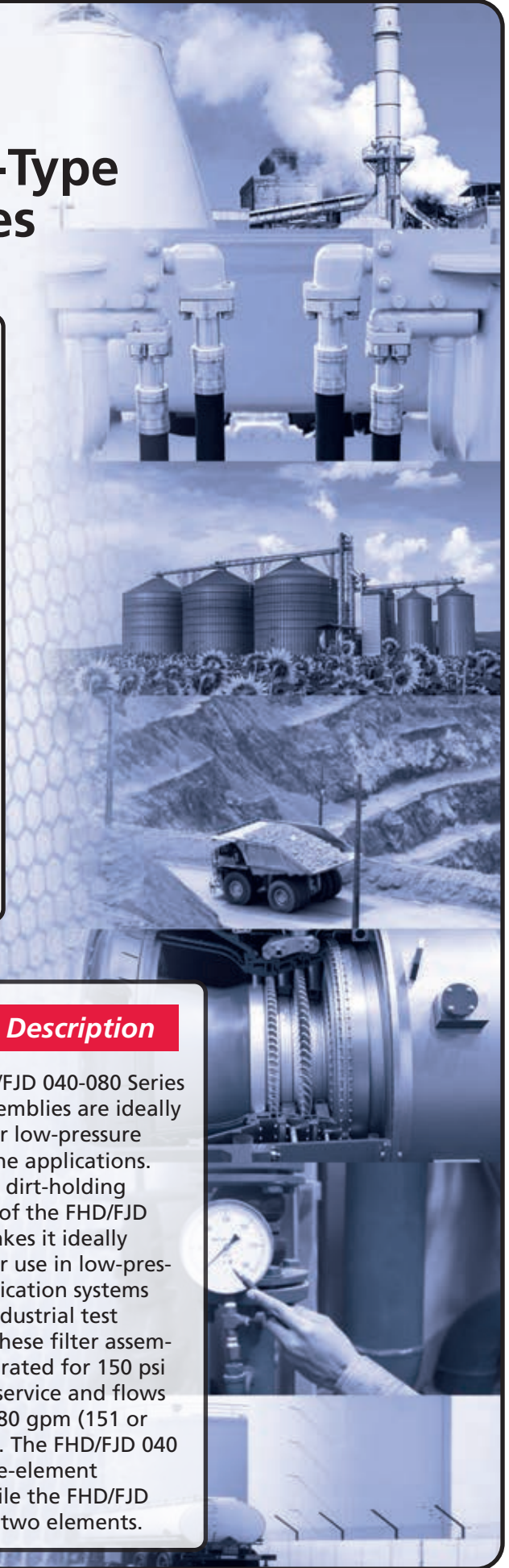


Features

- 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 III[®] media
- 1¼" NPT ports
- FHD series assembly designed for military style AN6236-3 elements

Product Description

The FHD/FJD 040-080 Series filter assemblies are ideally suited for low-pressure return-line applications. The high dirt-holding capacity of the FHD/FJD series makes it ideally suited for use in low-pressure lubrication systems and in industrial 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.



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
 - Clamp: CRES V-BAND Coupling
- **Bypass Options**
 - Bypass Valve Setting: 20 psid (1.4 bar) ±10%

Filtration Rating

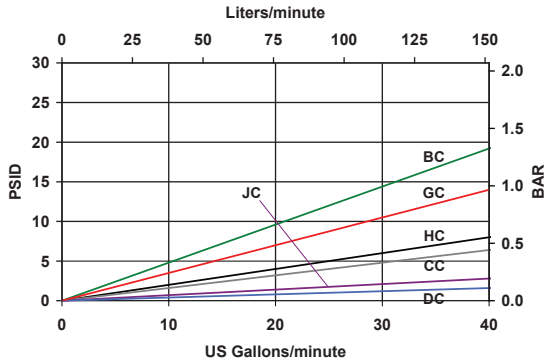
Multipass test results per old ISO 4572 and new ISO 16889 test procedures.
Particle size (x) in microns at which the Beta Ratio (β) is greater than or equal to the indicated value (200 or 1000).

Code	Per ISO 4572	Per ISO 16889	
	$\beta_x \geq 200$	$\beta_{x(c)} \geq 200$	$\beta_{x(c)} \geq 1000$
G	3	5	7
H	6	7	9
K	12	12	15
J	23	21	24

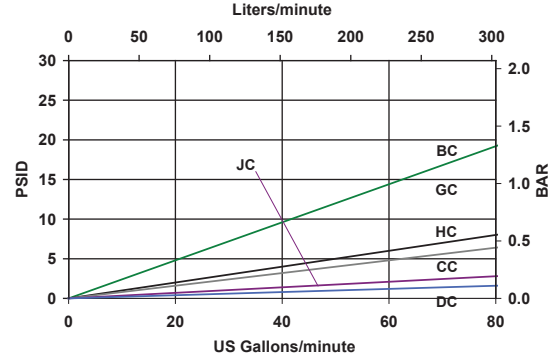
Code	Micron Rating	Media
B	3 μ m	Cellulose
C	10 μ m	Cellulose
D	25 μ m	Cellulose

Flow Rate/Pressure Drop Curves FHD Elements With Housing

FHD 040 Series - Flow vs Pressure Drop

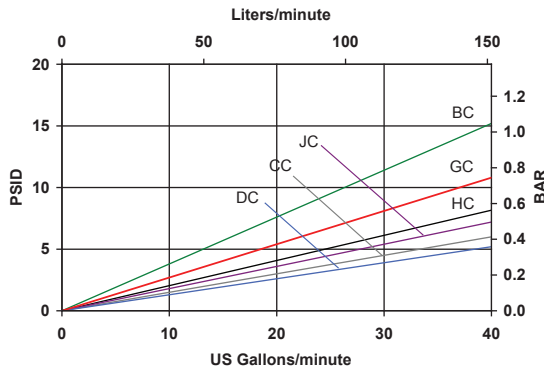


FHD 080 Series - Flow vs Pressure Drop

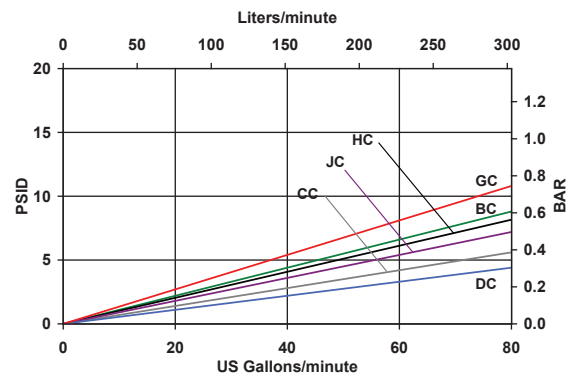


FJD Elements With Housing

FJD 040 Series - Flow vs Pressure Drop



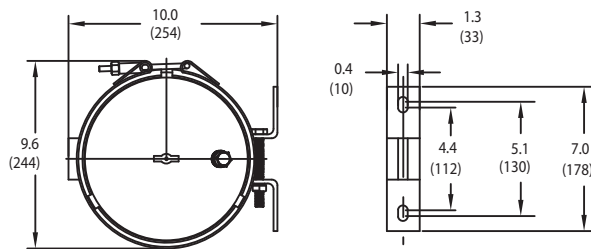
FJD 080 Series - Flow vs Pressure Drop



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 in Inches (mm)

Coupling Assembly

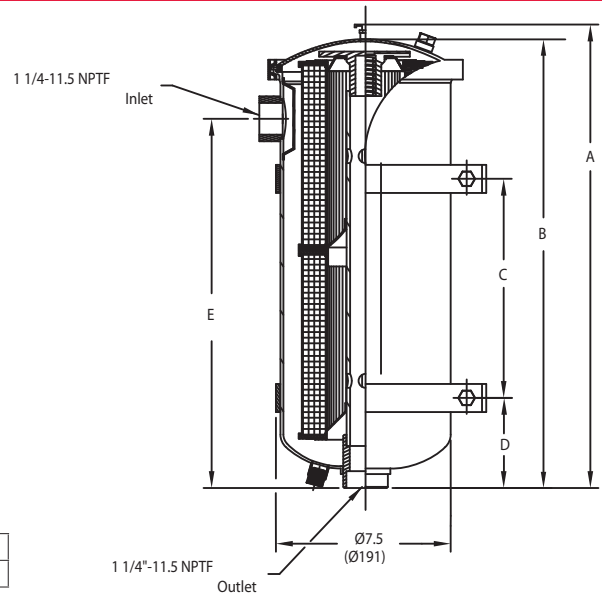


Dimensions

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)

Filter Assembly (Housing & Element) Weight

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



Ordering Information

Assembly:



Table 1 Type

Code
FHD
FJD

Table 3 Filtration Rating

Code	Micron Rating	Media
G	$\beta_{7(c)} \geq 1000$	Glas-Tech III®
H	$\beta_{9(c)} \geq 1000$	Glas-Tech III®
K	$\beta_{15(c)} \geq 1000$	Glas-Tech III®
J	$\beta_{24(c)} \geq 1000$	Glas-Tech III
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	1¼" NPT

Table 7 Gauge Ports

Code	Option
O	None

Table 8 Indicator

Code	Option
N	None

Table 9 Bypass

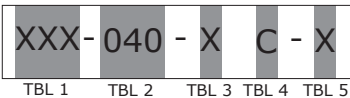
Code	Option
B	20 psid (1.4 bar) \pm 10%
N	None

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:



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 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 III®	FHD-040-GC	FJD-040-GC-B
H	$\beta_{9(c)} \geq 1000$	Glas-Tech III®	FHD-040-HC	FJD-040-HC-B
K	$\beta_{15(c)} \geq 1000$	Glas-Tech III®	FHD-040-KC	FJD-040-KC-B
J	$\beta_{24(c)} \geq 1000$	Glas-Tech III®	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 4 Collapse

Code	Collapse Rating
C	75 psid (5 bar)

Table 2 Size

Code	Nominal Flow
040	40 gpm (151 lpm)

Table 5 Seals

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

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

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

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