• Up to 435 PSI (30 bar)
• Flow rates up to 634 GPM (2400 l/m)
• Unique adapter flange available
FJV-183 Series
Low Pressure Filter Assemblies

Housing Features
• Flows to 634 gpm (2400 lpm)
  Depending on pipe size, consult factory
• Port size: 4" side in – side out; Adapter
  plates available for other port sizes

Notes and Specifications
Maximum working pressure:
435 psi (30 bar)
Proof pressure: 653 psi (45 bar)
Burst pressure: 1740 psi (120 bar)
Pulsed pressure fatigue test:
1,000,000 cycles with pressure from
0 to 435 psi (30 bar)
Temperature rating:
From 13°F (-25°C) to 230°F (110°C)
Materials of Construction:
Head and body: Anodized black aluminum
Seal material: NBR (standard) FPM (optional)

Weights:
FJV-183-S (standard length): 55 lbs (25.1 kg)
FJV-183-E (extended length): 74 lbs (33.5 kg)
Volumes:
FJV-183-S: 4 gal (15 dm³)
FJV-183-E: 7.4 gal (28 dm³)
Bypass valve:
Opening pressure 50 psi (3.5 bar) ± 10%
Other opening pressures available.
Consult factory.
Filter element collapse pressure:
290 psi (20 bar)
Flow direction: Out to in
Compatibility (to ISO 2943)
• Housings compatible with: Mineral oils,
synthetic fluid, aqueous emulsions,
water and glycol
• The filter elements are compatible with:
Mineral oils, synthetic fluid, aqueous
emulsions, water and glycol
• NBR seals series A, compatible with:
Mineral oils, synthetic fluid, aqueous
emulsions, water and glycol
• FPM seals series V, compatible with:
Synthetic fluids type HS-HFDR-HFDS-HFDU

Pressure Drop Versus Flow (ISO 3968)

Notes: Test fluid: mineral oil (S.G. of .86)
Available with Full Range of Filter Elements

Coreless
- Micro-fiberglass (SWIFTGLASS™)

Cored
- Micro-fiberglass (SWIFTGLASS™)
- Wire mesh (SWIFTMESH™)
- Wire cloth (SWIFTMESH™)

Unique Adapter Flange Available —
Reduces standard 4" opening. Custom flanges available upon request, consult factory.

1" NPT adapter shown
### Ordering Information for Standard Low Pressure Filter Assemblies

<table>
<thead>
<tr>
<th>FJV</th>
<th>183 Series</th>
<th>Housing Length</th>
<th>Standpipe</th>
<th>Bypass</th>
<th>Port Size</th>
<th>Seal</th>
<th>Options</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4&quot; (101.1 mm)</td>
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<tr>
<td>S=</td>
<td>STANDARD</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E=</td>
<td>EXTENDED</td>
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</tr>
<tr>
<td>OMIT</td>
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<tr>
<td>SP=</td>
<td>WITH STANDPIPE</td>
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<tr>
<td>B=</td>
<td>51 PSI ± 10% (3.5 bar) ± 10%</td>
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<tr>
<td>V=</td>
<td>FKM</td>
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</tr>
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</tr>
<tr>
<td>F=</td>
<td>ADAPTER PLATE*</td>
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<td></td>
</tr>
</tbody>
</table>

* Consult factory to specify port size.

**Example:**

**FJV-183-E-SP-B-4-B-F**  
This would be the part number for an extended length Series 183 Filter Assembly, with standpipe for coreless elements, a bypass indicator, 4" port, Nitrile seals with adapter plate.

### Ordering Information for Low Pressure Elements

<table>
<thead>
<tr>
<th>SF</th>
<th>Series</th>
<th>Length</th>
<th>Micron</th>
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<tbody>
<tr>
<td>8300</td>
<td>Standard Capacity</td>
<td>16</td>
<td>01um= SWIFTGLASS™ 1 MICRON</td>
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<tr>
<td>8310</td>
<td>Deep Pleat-High Capacity</td>
<td>39</td>
<td>03um= SWIFTGLASS™ 3 MICRON</td>
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<tr>
<td>8314</td>
<td>Coreless</td>
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<td>06um= SWIFTGLASS™ 6 MICRON</td>
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<td></td>
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<td>12um= SWIFTGLASS™ 12 MICRON</td>
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<tr>
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<td></td>
<td></td>
<td>25um= SWIFTGLASS™ 25 MICRON</td>
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<td></td>
<td>25uw= SWIFTMESH™ WIRE CLOTH</td>
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<td></td>
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<td>74uw= SWIFTMESH™ WIRE MESH</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>149uw= SWIFTMESH™ WIRE MESH</td>
</tr>
</tbody>
</table>

**Example:**

**SF8314-39-6um**  
This would be the part number for a SWIFTGLASS™ 6 micron coreless element, 39 inches long.

**Absolute Filtration**  
\( \beta x(c) \geq 1000 \)

**Nominal Filtration**