



FPK02

Max Flow: 25 gpm (95 lpm)



## FPK02 In-Line Cartridge Filters

### Working Pressures to:

6090 psi / 42,021 kPa / 420 bar

### Rated Static Burst to:

9135 psi / 63,000 kPa / 630 bar

### Flow Range To:

25 gpm / 95 lpm

### Applications

- High Pressure Circuits
- In-Plant Systems
- Meets HF2 Specification
- Mobile Equipment
- Power Steering Circuits
- Servo Valve Circuits



### Features

The FPK02 is built to withstand pressures of over 6000 psi (420 bar). It features a cast iron head and cold-extruded steel housing for ultimate strength and durability. This filter meets the HF2 in-plant automotive specification. Bypass options include 87 psi/6 bar bypass, bypass with reverse-flow check valve, or no bypass.

Take advantage of our mix and match system of in-stock heads, housings and cartridges, so you can get exactly what you need. You can also choose the media type and configuration that's best for your application. All FPK02 filters contain Synteq™, Donaldson's exclusive synthetic fiber media formulated especially for hydraulic filtration.

### Beta Rating

- Performance to  $\beta_{240} = 1000$

### Porting Size Options

- SAE-12 O-Ring

### Replacement Filter Lengths

- 4.41" / 111.9mm
- 4.46" / 113.2mm
- 8.16" / 207.2mm
- 8.28" / 210.3mm

### Standard Bypass Ratings

- 87 psi / 600 kPa / 6 bar
- 87 psi Bypass with reverse-flow check valve
- No Bypass

### Assembly Weight

- 4.41" Assembly: 9.2 lbs / 4.2 kg
- 8.28" Assembly: 13.2 lbs / 6.0 kg

### Operating Temperatures

- -20°F to 250°F / -29°C to 120°C

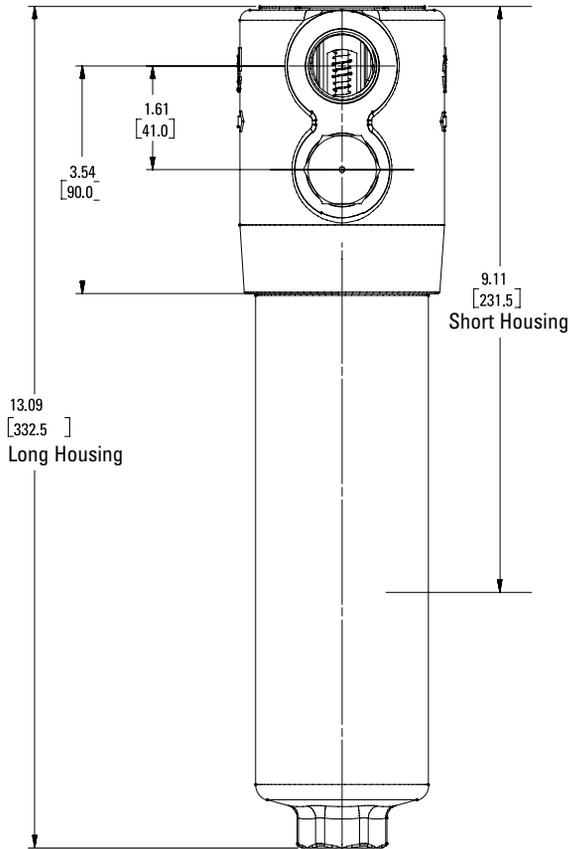
### Filter Collapse Ratings

- 290 psi / 2000 kPa / 20 bar (standard)
- 3000 psi / 20,700 kPa / 207 bar (high collapse)

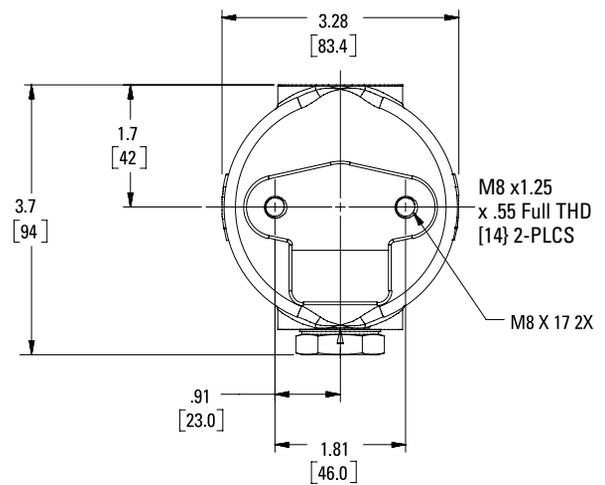
## FPK02 Specification Illustrations

### ASSEMBLY - SIDE VIEW

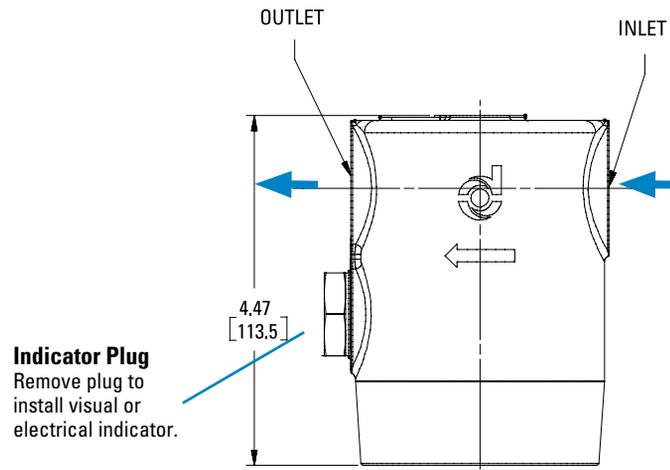
All dimensions are shown in inches [millimeters].



### HEAD - TOP VIEW



### HEAD - SIDE VIEW





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## FPK02 Components

### Filter Choices

| Media Type   | $\beta_{x(c)} = 1000$     | Length |     | Part No. | Comments                      |
|--------------|---------------------------|--------|-----|----------|-------------------------------|
|              | Rating based on ISO 16889 | in     | mm  |          |                               |
| DT Synthetic | <4 $\mu\text{m}$          | 4.39   | 112 | P566194  | DT-9020-4-2UM                 |
|              | 5 $\mu\text{m}$           | 4.39   | 112 | P566195  | DT-9020-4-5UM                 |
|              | 5 $\mu\text{m}$           | 4.46   | 113 | P167180  | DT-9021-4-5UM, High Collapse  |
|              | 8 $\mu\text{m}$           | 4.39   | 112 | P566196  | DT-9020-4-8UM                 |
|              | 12 $\mu\text{m}$          | 4.39   | 112 | P566197  | DT-9020-4-14UM                |
|              | 12 $\mu\text{m}$          | 4.46   | 113 | P167181  | DT-9021-4-14UM, High Collapse |
|              | 23 $\mu\text{m}$          | 4.39   | 112 | P566198  | DT-9020-4-25UM                |
|              | <4 $\mu\text{m}$          | 8.18   | 208 | P566199  | DT-9020-8-2UM                 |
|              | 5 $\mu\text{m}$           | 8.18   | 208 | P566200  | DT-9020-8-5UM                 |
|              | 5 $\mu\text{m}$           | 8.18   | 208 | P167182  | DT-9021-8-5UM, High Collapse  |
|              | 8 $\mu\text{m}$           | 8.18   | 208 | P566201  | DT-9020-8-8UM                 |
|              | 12 $\mu\text{m}$          | 8.18   | 208 | P566202  | DT-9020-8-14UM                |
|              | 12 $\mu\text{m}$          | 8.18   | 208 | P167183  | DT-9021-8-14UM, High Collapse |
|              | 23 $\mu\text{m}$          | 8.18   | 208 | P566203  | DT-9020-8-25UM                |

Filter Notes: All Donaldson DT filters utilize glass fiber media with an acrylic-based resin system for the ultimate in chemical compatibility. All Donaldson DT filters are potted with acrylic-based adhesives. Standard collapse DT designs are double wire-backed using acrylic-coated steel mesh for maximum pleat support and dirt capacity. Fluorocarbon seals are standard on all Donaldson DT filters. Refer to the table in the Technical Reference Guide for fluid compatibility with our filter media. If you're filtering diester, phosphate ester fluids, water glycol, water/oil emulsions, and HWCF over 150°F/83°C, use filters with seals made of fluorocarbon. Donaldson "high collapse" filters, with their steel end caps and wire-backed media, are rated to withstand up to 3000 psi/ 20,700 kPa before collapsing. High collapse designs are double wire-backed using stainless steel mesh and are potted into machined aluminum endcaps for greater filter integrity in critical applications. The fluorocarbon seal/high collapse filters also use acrylic potting and media seam seals for added chemical compatibility.



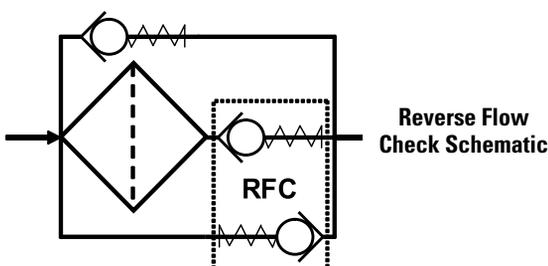
### Housing Choices

| Length (in) | Part No. |
|-------------|----------|
| 4.4" filter | P762769  |
| 8.2" filter | P762770  |

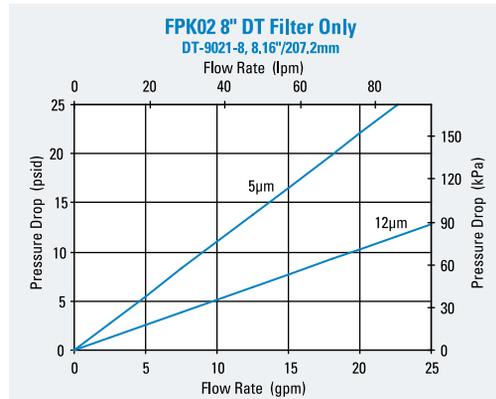
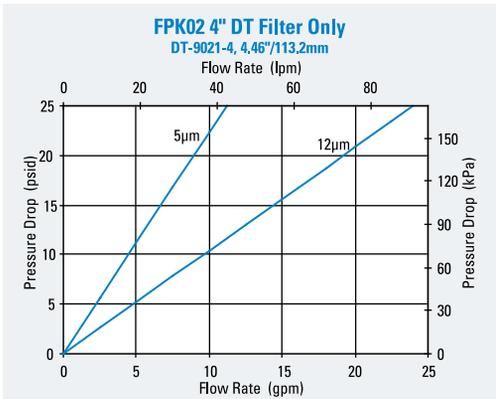
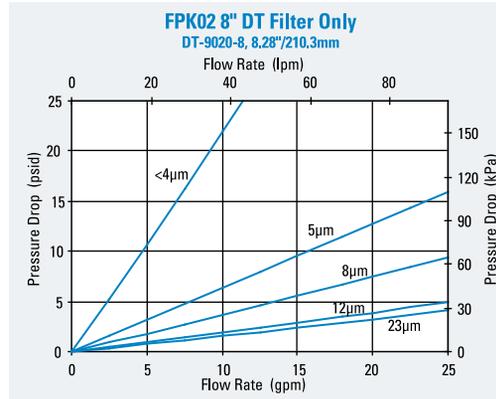
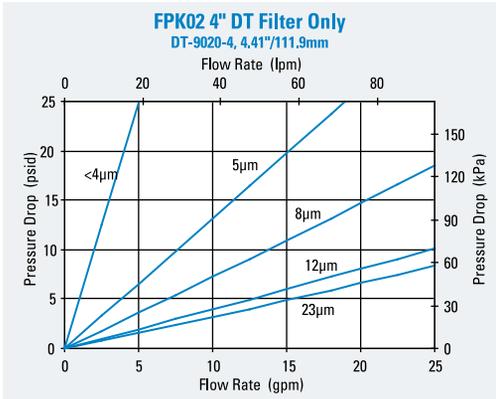
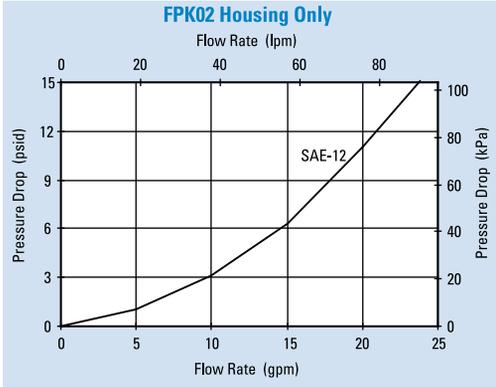
### Head Choices

| Port Size                                   | Bypass Rating  | Part No. |
|---|----------------|----------|
| SAE-12 O-Ring                               | 87 psi / 6 bar | P762766  |
| SAE-12 O-Ring with reverse-flow check valve | 87 psi / 6 bar | P762767  |
| SAE-12 O-Ring                               | No Bypass      | P762768  |

NOTE: Indicator port is machined and plugged. Replace plug with indicator of choice: P171945 (visual) or P761056 (electrical).



## Performance Data





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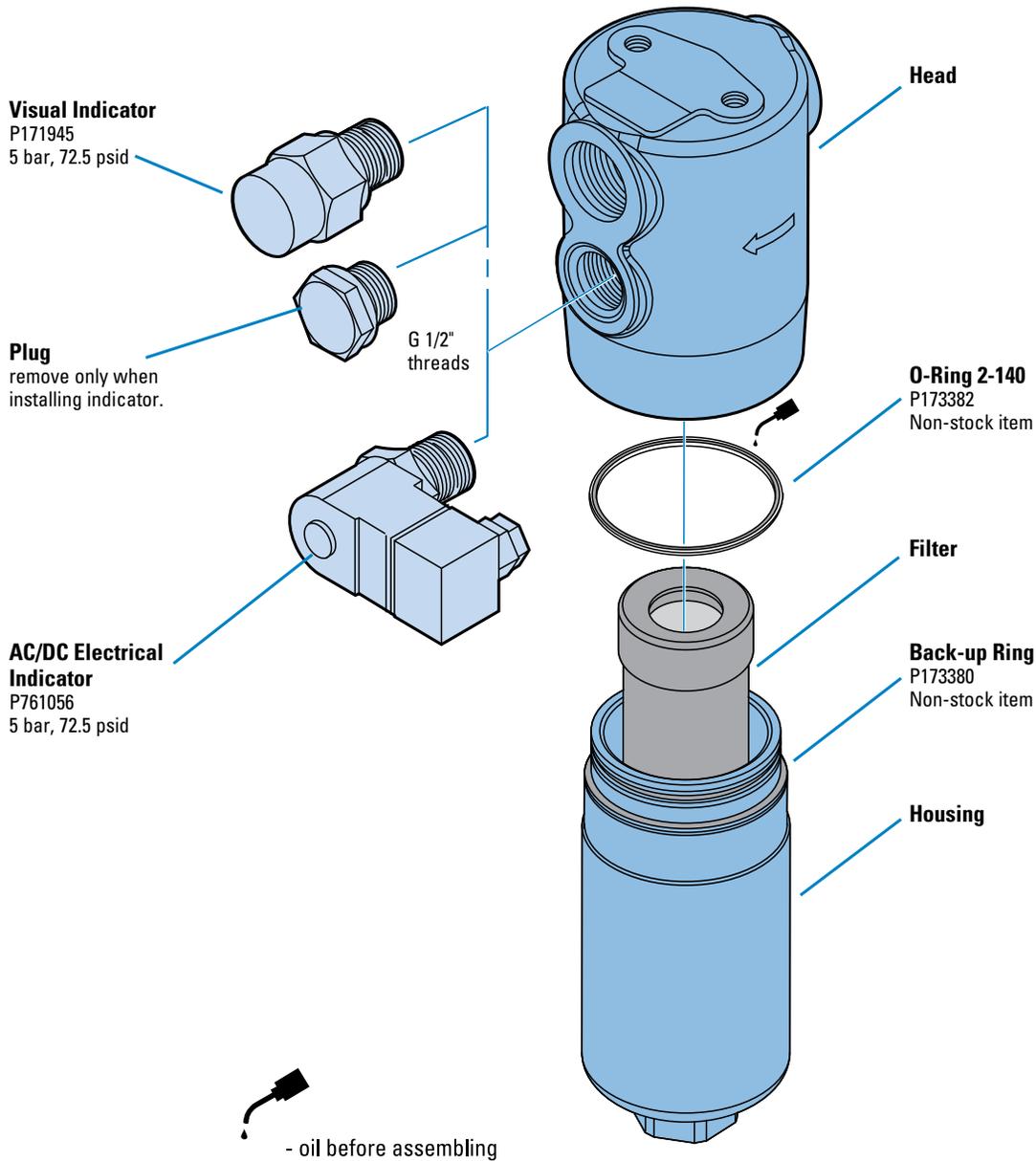


# FPK02 Service Parts

**SERVICE PARTS NOTE:**

Some service parts may not be stocked. Please contact your Donaldson sales representative for lead time details.

When installing the FPK02 housing onto an installed head, torque it to 15 ft-lbs./2.1 kg-m.



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