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# HIGH PRESSURE IN-LINE/MANIFOLD

Models WPF



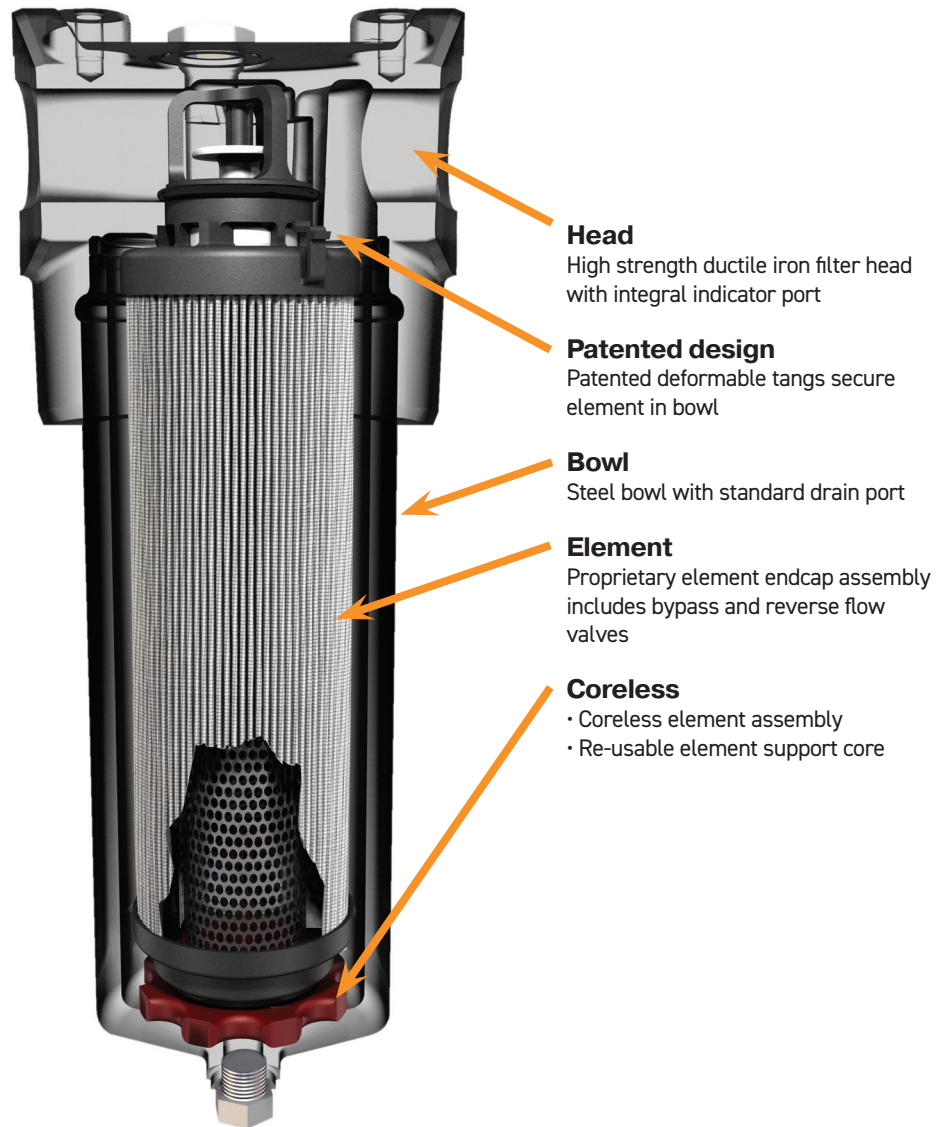
# WPF

## Applications

- Aircraft Ground Support
- Injection Molding
- Mining
- Mobile Agriculture
- Mobile Construction
- Oil & Gas Exploration
- Power Generation
- Primary Metals
- Refuse Trucks

Parker engineers have developed what is the industry standard in high pressure hydraulic filtration. The 6,000 psi WPF series incorporates many advanced features designed for one reason: to improve your bottom line.

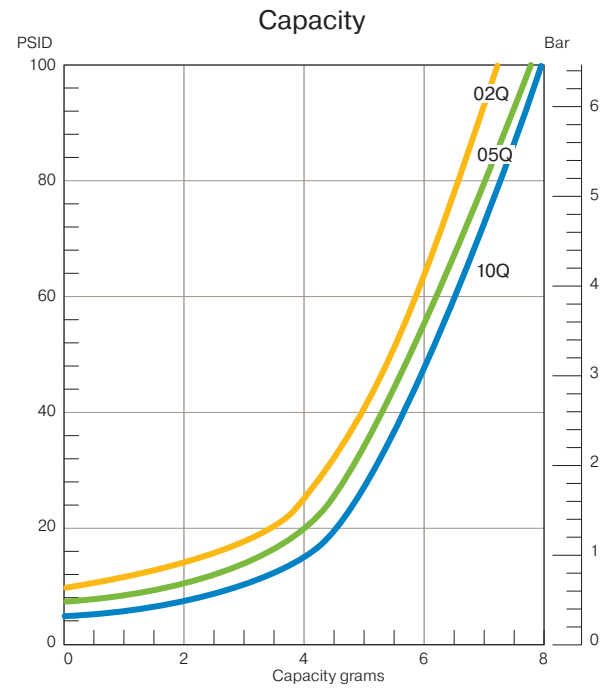
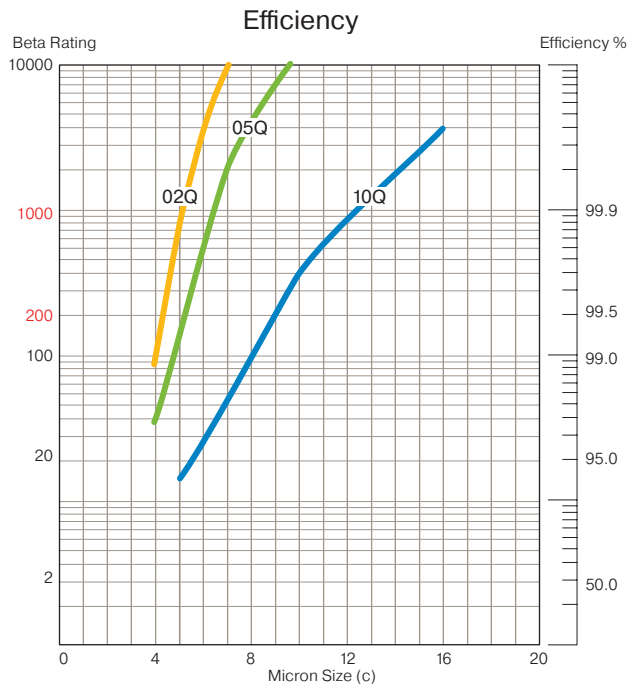
There is no better high pressure filter available today for durability and performance. The reduction of your operating costs is our primary concern, and we are committed to contributing towards your success.



| Feature                                           | Advantage                                                                | Benefit                                                                |
|---------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------|
| SurgeGuard protection                             | Protection from back-flow                                                | Component performance integrity with improved flow fatigue resistance. |
| Integrated bypass & reverse flow valve technology | Every element serviced provides new bypass & reverse flow valve assembly | Reliable, high performance, quick response design                      |
| Low mass, low $\Delta P$ reverse flow valve       | Ideal for closed-loop applications                                       | Greater design and service flexibility                                 |
| Patented deformable tangs                         | Automatic element locate and removal                                     | Easy, fast, safe, clean                                                |
| Element removal clearance                         | Benchmarked best-in-class against major competitors.                     | Ease-of-service. Machine design flexibility                            |
| Patented valves with low hysteresis               | Zero leakage and low friction                                            | Optimum performance                                                    |

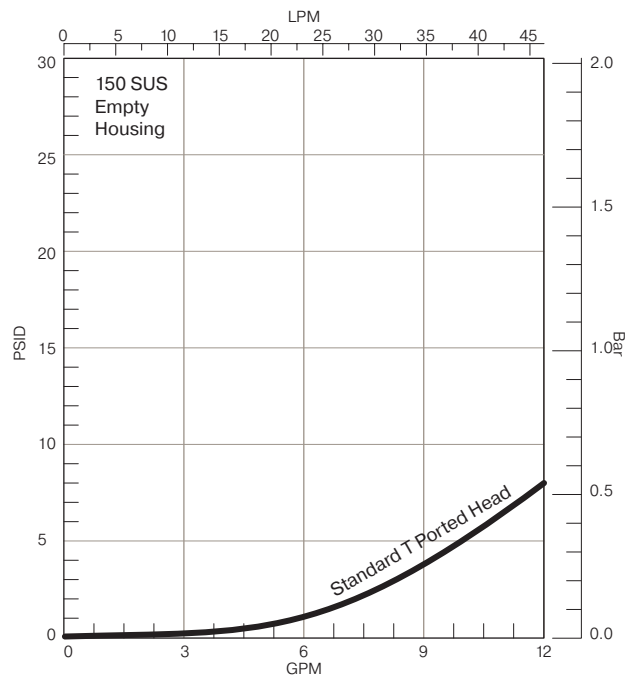
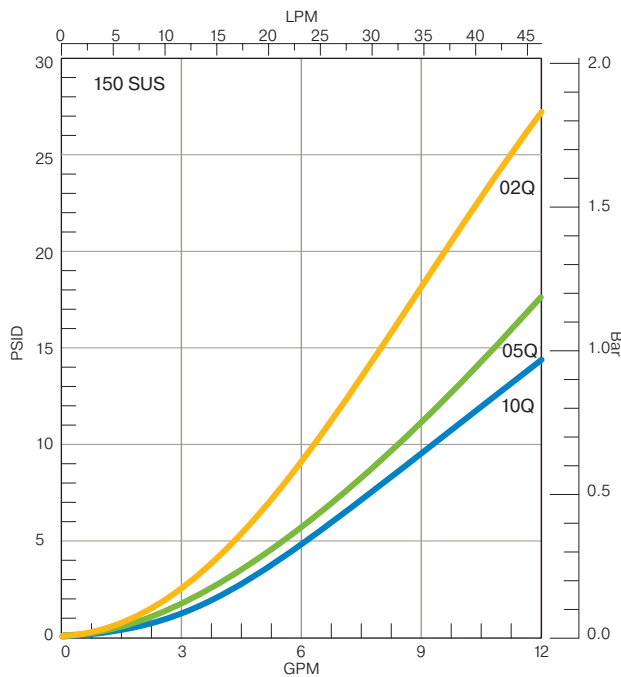
# WPF1

## Element Performance



Results typical from Multi-pass tests run per test standard ISO 16889 @ 10 gpm to 50 psid terminal - 10 mg/L BUGL  
Refer to Appendix for relationship to test standard ISO 4572.

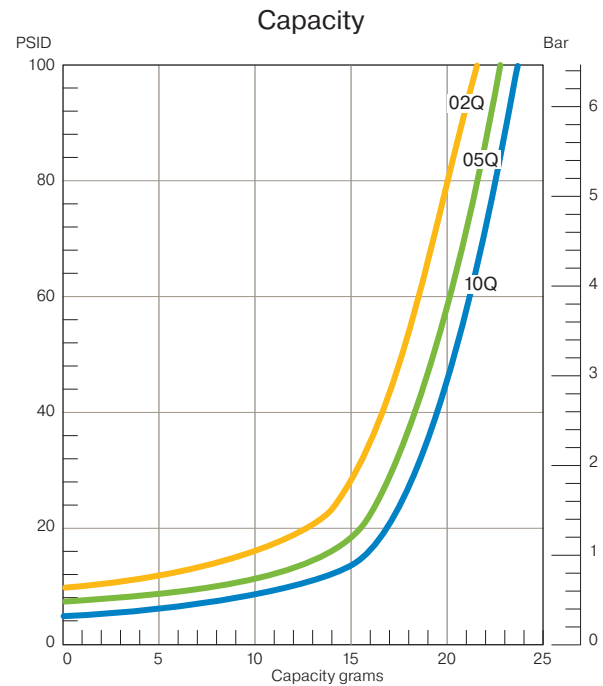
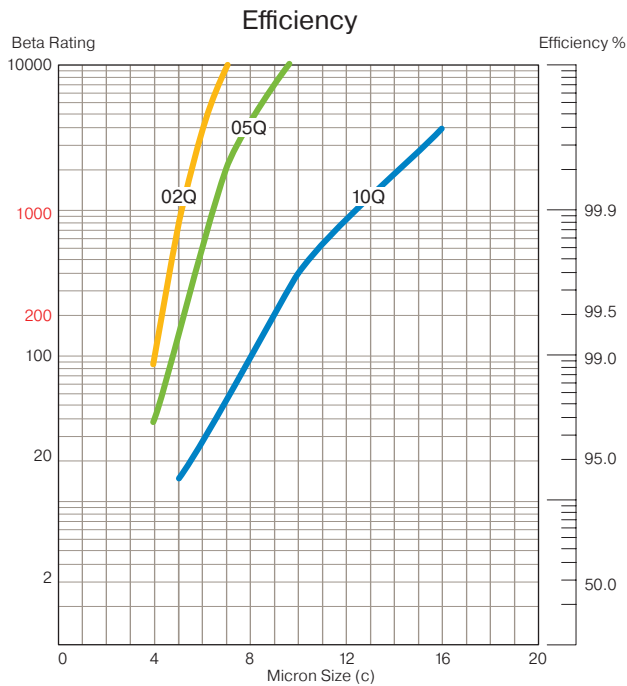
## Flow vs. Pressure Loss



\*High Collapse Correction Factor: "QH" Elements (2000 psid) = 1.4 times reported loss

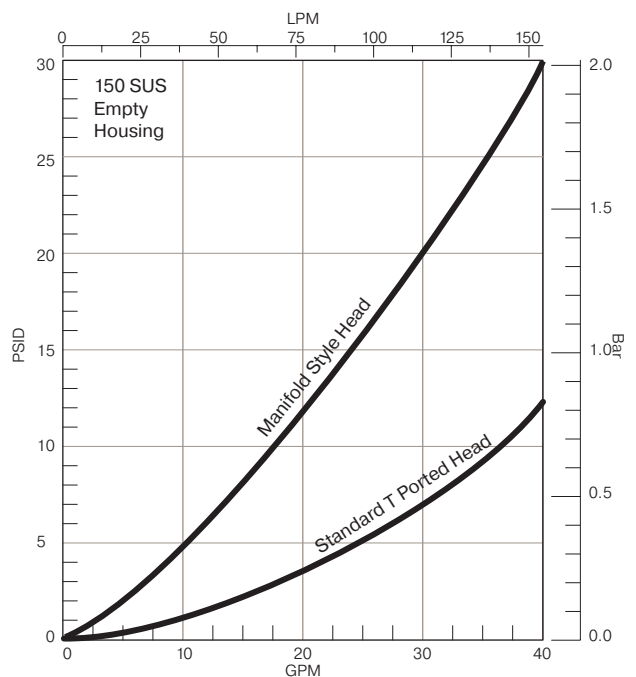
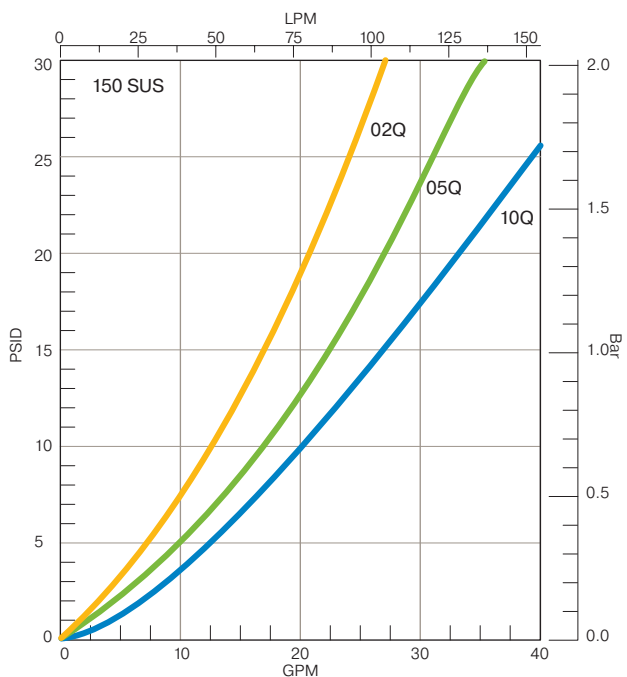
# WPF2

## Element Performance



Results typical from Multi-pass tests run per test standard ISO 16889 @ 25 gpm to 50 psid terminal - 10 mg/L BUGL  
Refer to Appendix for relationship to test standard ISO 4572.

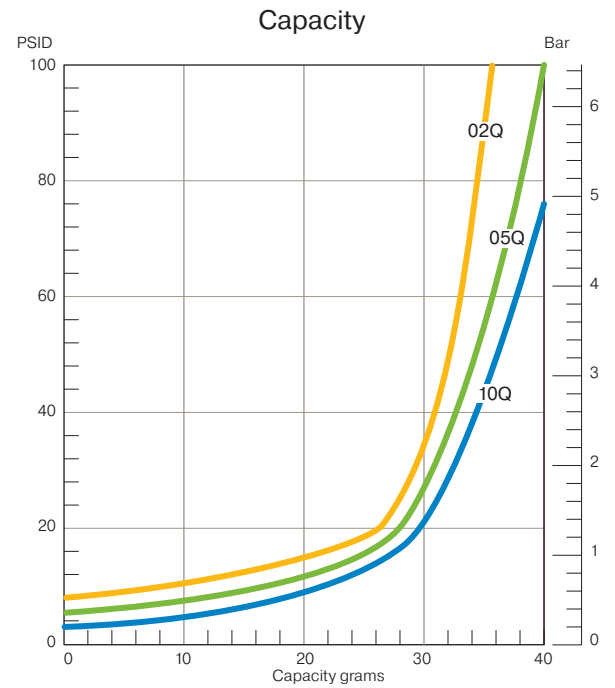
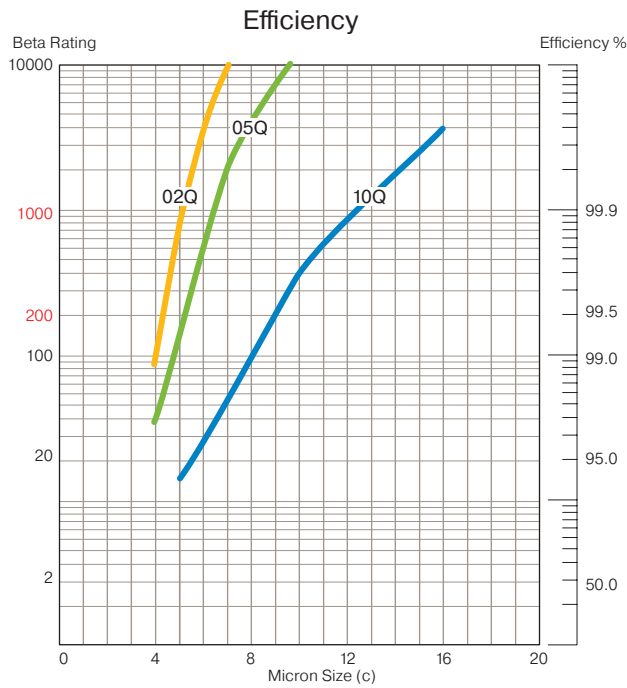
## Flow vs. Pressure Loss



\*High Collapse Correction Factor:  
"QH" Elements (2000 psid) = 1.4 times reported loss

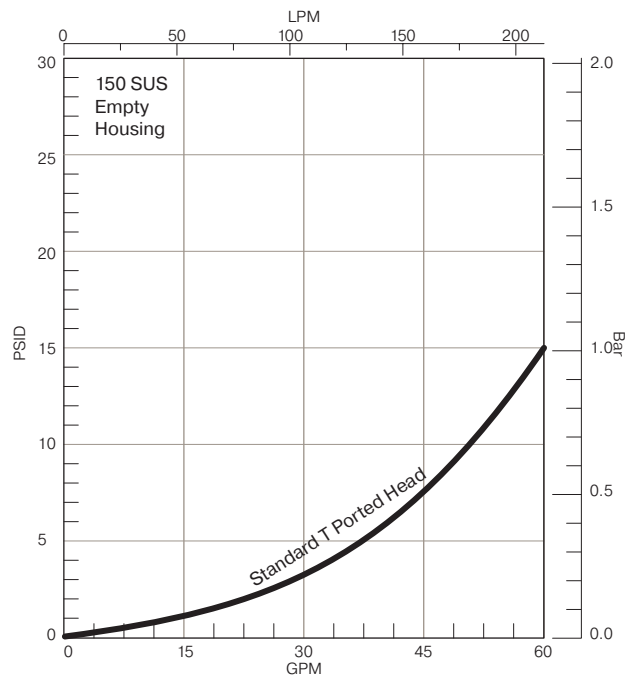
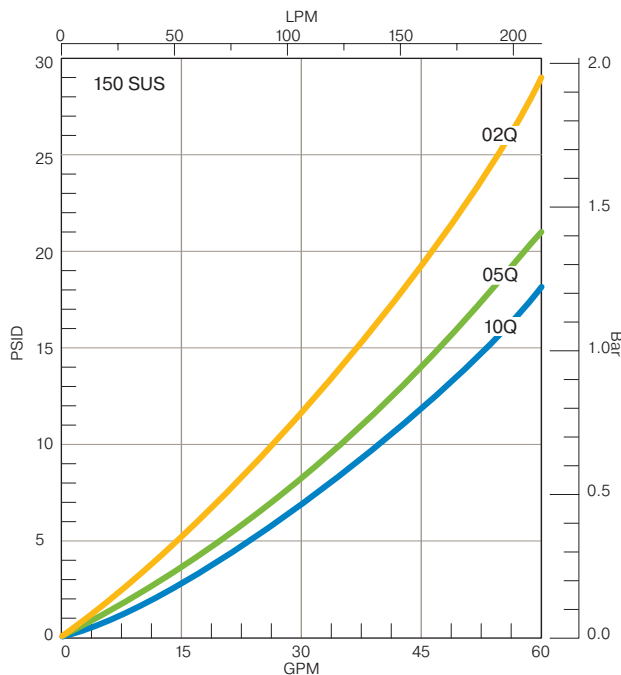
# WPF3

## Element Performance



Results typical from Multi-pass tests run per test standard ISO 16889 @ 45 gpm to 50 psid terminal - 10 mg/L BUGL  
Refer to Appendix for relationship to test standard ISO 4572.

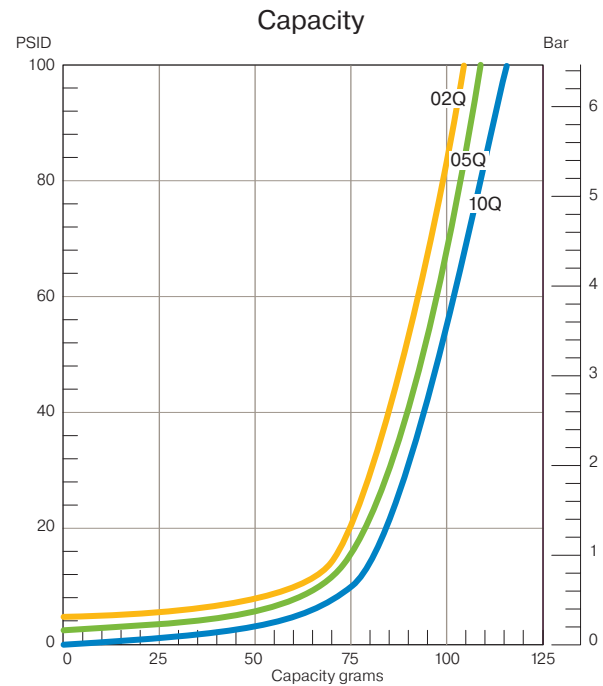
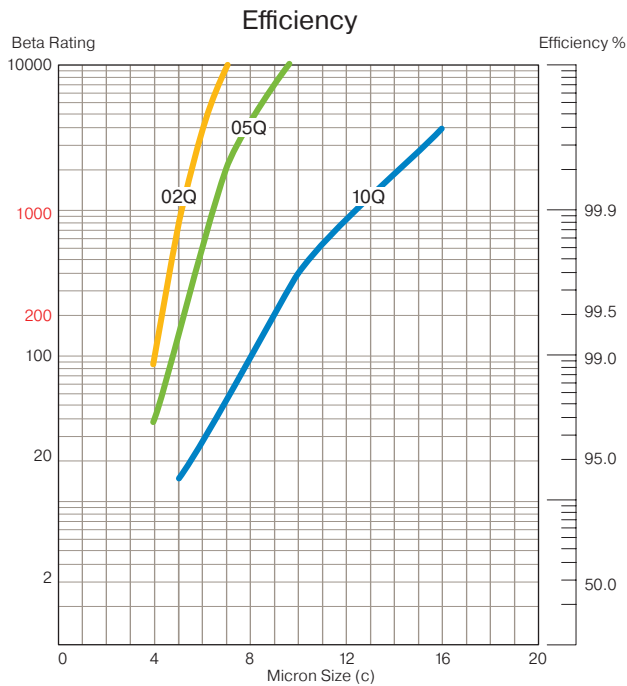
## Flow vs. Pressure Loss



\*High Collapse Correction Factor:  
"QH" Elements (2000 psid) = 1.4 times reported loss

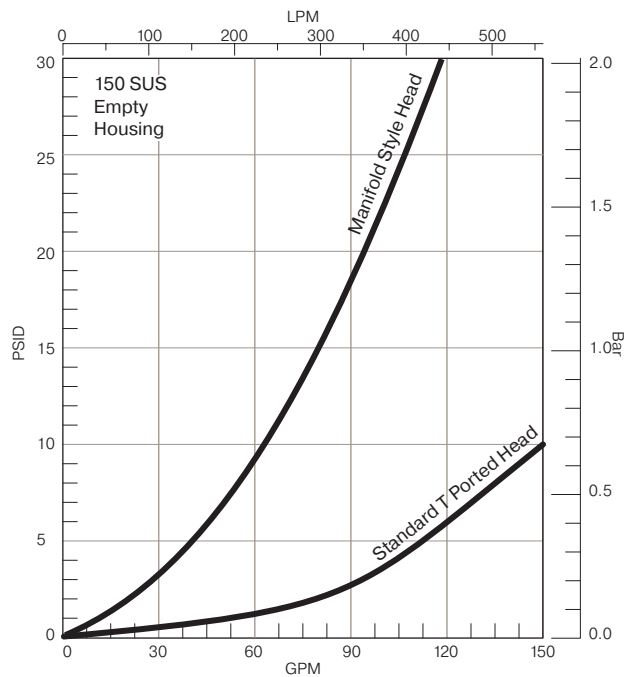
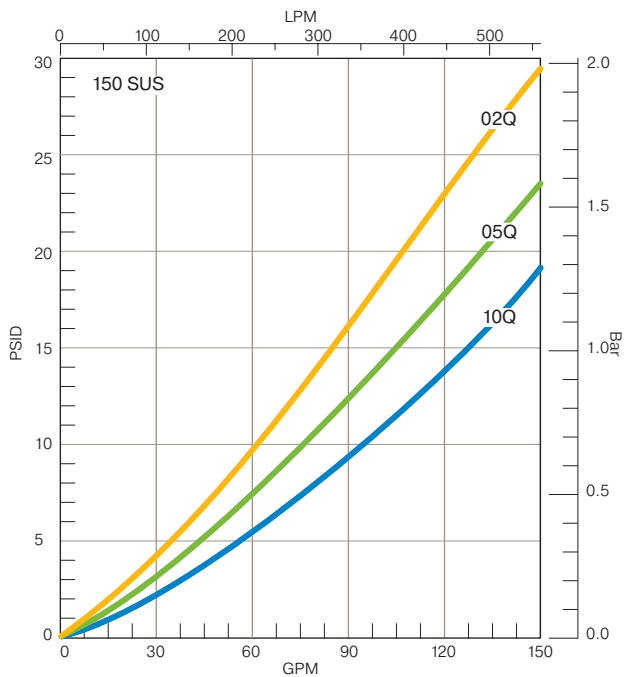
# WPF4

## Element Performance



Results typical from Multi-pass tests run per test standard ISO 16889 @ 90 gpm to 50 psid terminal - 10 mg/L BUGL  
Refer to Appendix for relationship to test standard ISO 4572.

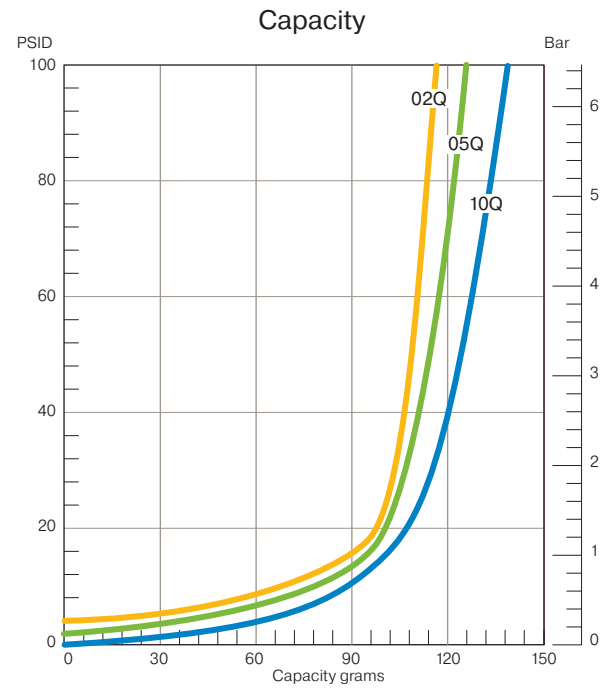
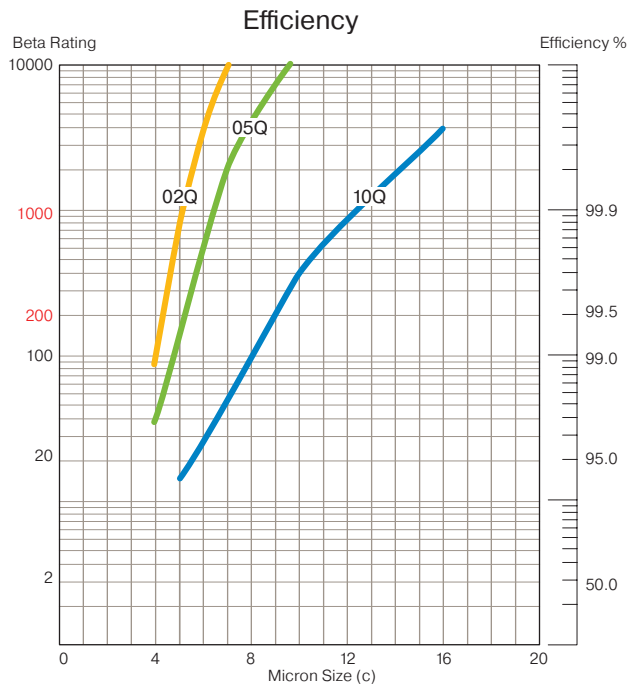
## Flow vs. Pressure Loss



\*High Collapse Correction Factor:  
"QH" Elements (2000 psid) = 1.4 times reported loss

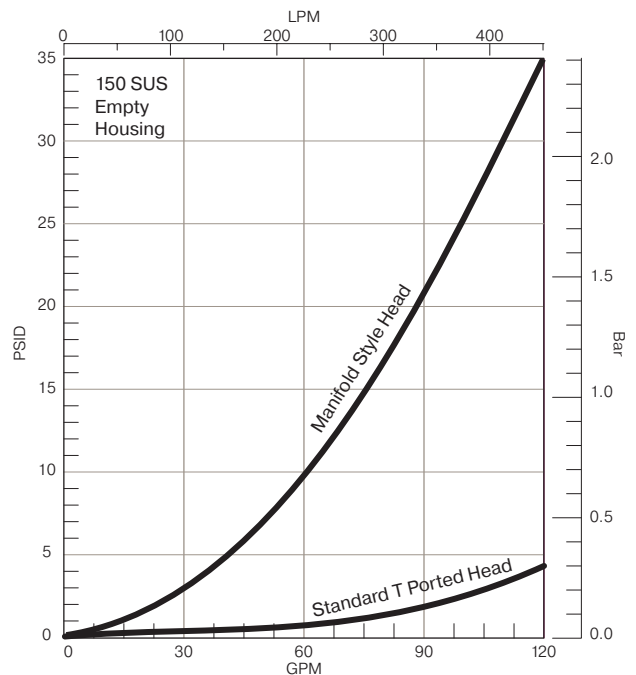
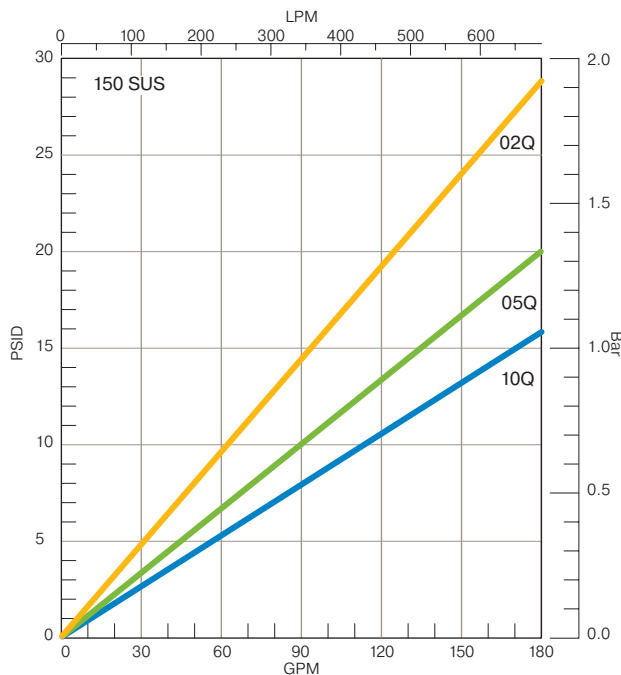
# WPF5

## Element Performance



Results typical from Multi-pass tests run per test standard ISO 16889 @ 100 gpm to 50 psid terminal - 10 mg/L BUGL  
Refer to Appendix for relationship to test standard ISO 4572.

## Flow vs. Pressure Loss



\*High Collapse Correction Factor:  
"QH" Elements (2000 psid) = 1.4 times reported loss

# WPF T-PORT

## Specifications

### Pressure Ratings

Maximum Allowable  
Operating Pressure (MAOP):  
6000 psi (414 bar)  
Rated Fatigue Pressure:  
6000 psi (414 bar)

### Design Safety Factor: 3:1

### Element Collapse Rating:

300 psi (21 bar)  
High Collapse: 2000 psi (138 bar)

### Operating Temperatures:

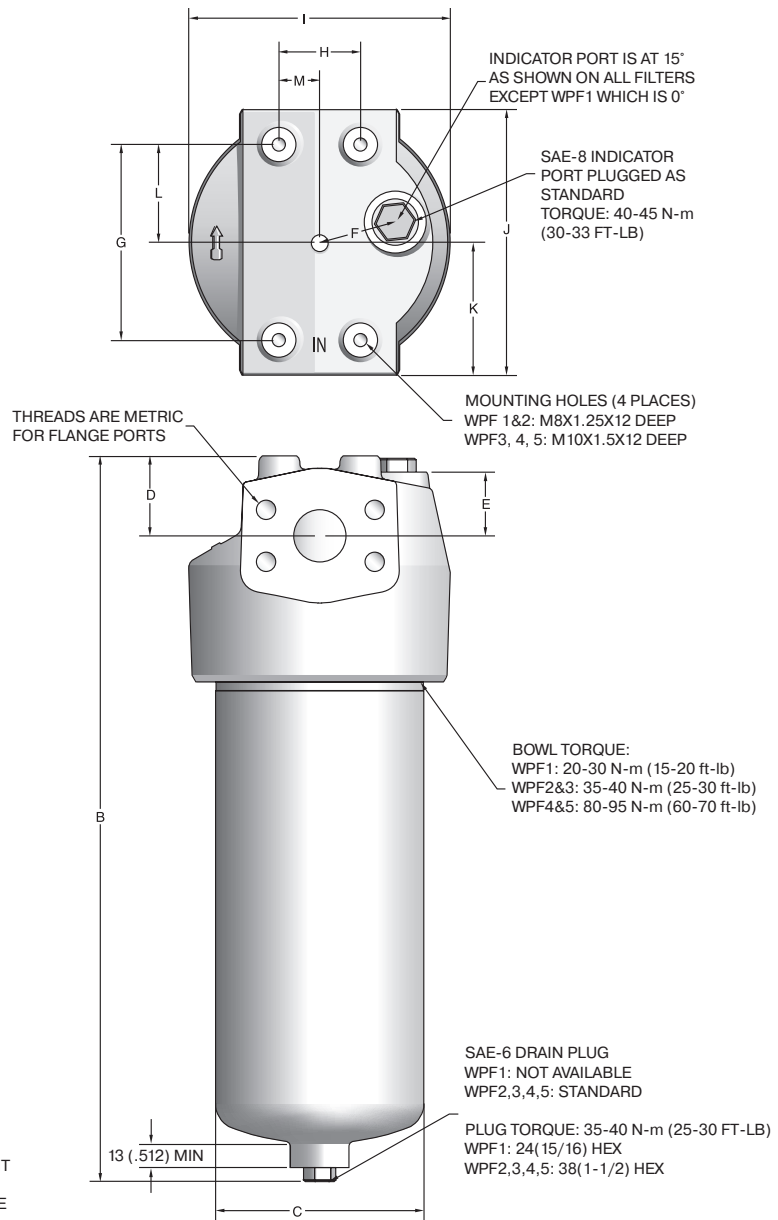
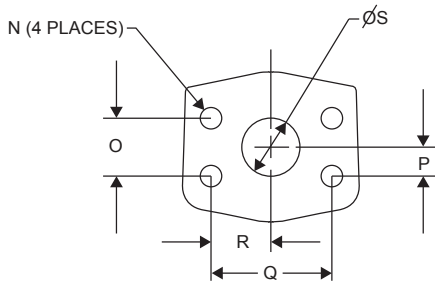
Nitrile/Ethylene Propylene: -40°F to  
225°F (-40°C to 107°C)  
Fluorocarbon: -15°F to 275°F (-26°C to  
135°C)

### Filter Materials:

Head: SG Iron  
Bowl: Steel  
Indicator: Brass with Plastic  
Connectors

### Weights (approximate):

WPF1: 9 lbs. (4.1 kg)  
WPF2: 13 lbs. (5.9 kg)  
WPF3: 21 lbs. (9.5 kg)  
WPF4: 45 lbs. (20.4 kg)  
WPF5: 67 lbs. (30.4 kg)



| Flange Size | N: Thread & Depth | O      | P     | Q      | R      | S      |
|-------------|-------------------|--------|-------|--------|--------|--------|
| 3/4"        | M10 x 1.5, 0.68"  | .937"  | .469" | 2.000" | 1.000" | .750"  |
| 1"          | M12 x 1.75, 0.75" | 1.093" | .546" | 2.250" | 1.125" | 1.000" |
| 1-1/4"      | M14 x 2.0, 0.75"  | 1.250" | .625" | 2.625" | 1.312" | 1.250" |
| 1-1/2"      | M16 x 2.0, 1.34"  | 1.437" | .719" | 3.125" | 1.563" | 1.500" |

### Dimensions (mm/inch)

Drawings are for reference only. Contact factory for current version.

| Filter Model | A                  | B                   | C                   | D                 | E                 | F                 | G                  | H                 | I                  | J                  | K                   | L                 | M                   |
|--------------|--------------------|---------------------|---------------------|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|--------------------|---------------------|-------------------|---------------------|
| WPF1         | <u>70</u><br>2.76  | <u>180</u><br>7.09  | <u>69.5</u><br>2.74 | <u>23</u><br>.91  | <u>15</u><br>.59  | <u>27</u><br>1.06 | <u>60</u><br>2.36  | <u>30</u><br>1.18 | <u>90</u><br>3.54  | <u>92</u><br>3.62  | <u>46</u><br>1.81   | <u>30</u><br>1.18 | <u>15</u><br>.59    |
| WPF2         | <u>79</u><br>3.11  | <u>293</u><br>11.53 | <u>75</u><br>2.95   | <u>32</u><br>1.26 | <u>26</u><br>1.02 | <u>30</u><br>1.18 | <u>80</u><br>3.15  | <u>40</u><br>1.57 | <u>98</u><br>3.86  | <u>110</u><br>4.33 | <u>55</u><br>2.17   | <u>40</u><br>1.57 | <u>20</u><br>.78    |
| WPF3         | <u>88</u><br>3.47  | <u>345</u><br>13.58 | <u>93</u><br>3.66   | <u>40</u><br>1.57 | <u>29</u><br>1.14 | <u>35</u><br>1.38 | <u>90</u><br>3.54  | <u>55</u><br>2.17 | <u>120</u><br>4.72 | <u>126</u><br>4.96 | <u>63</u><br>2.48   | <u>45</u><br>1.77 | <u>27.5</u><br>1.08 |
| WPF4         | <u>100</u><br>3.94 | <u>445</u><br>17.52 | <u>128</u><br>5.04  | <u>49</u><br>1.93 | <u>39</u><br>1.54 | <u>48</u><br>1.89 | <u>120</u><br>4.72 | <u>50</u><br>1.97 | <u>160</u><br>6.3  | <u>163</u><br>6.42 | <u>81.5</u><br>3.21 | <u>60</u><br>2.36 | <u>25</u><br>.98    |
| WPF5         | <u>100</u><br>3.94 | <u>561</u><br>22.09 | <u>128</u><br>5.04  | <u>61</u><br>2.40 | <u>51</u><br>2.01 | <u>48</u><br>1.89 | <u>140</u><br>5.51 | <u>80</u><br>3.15 | <u>160</u><br>6.30 | <u>183</u><br>7.20 | <u>91.5</u><br>3.60 | <u>70</u><br>2.76 | <u>40</u><br>4.57   |

# WPF MANIFOLD

## Specifications

### Pressure Ratings

Maximum Allowable  
Operating Pressure (MAOP):  
6000 psi (414 bar)  
Rated Fatigue Pressure:  
6000 psi (414 bar)

### Design Safety Factor: 3:1

### Element Collapse Rating:

300 psi (21 bar)  
High Collapse: 2000 psi (138 bar)

### Operating Temperatures:

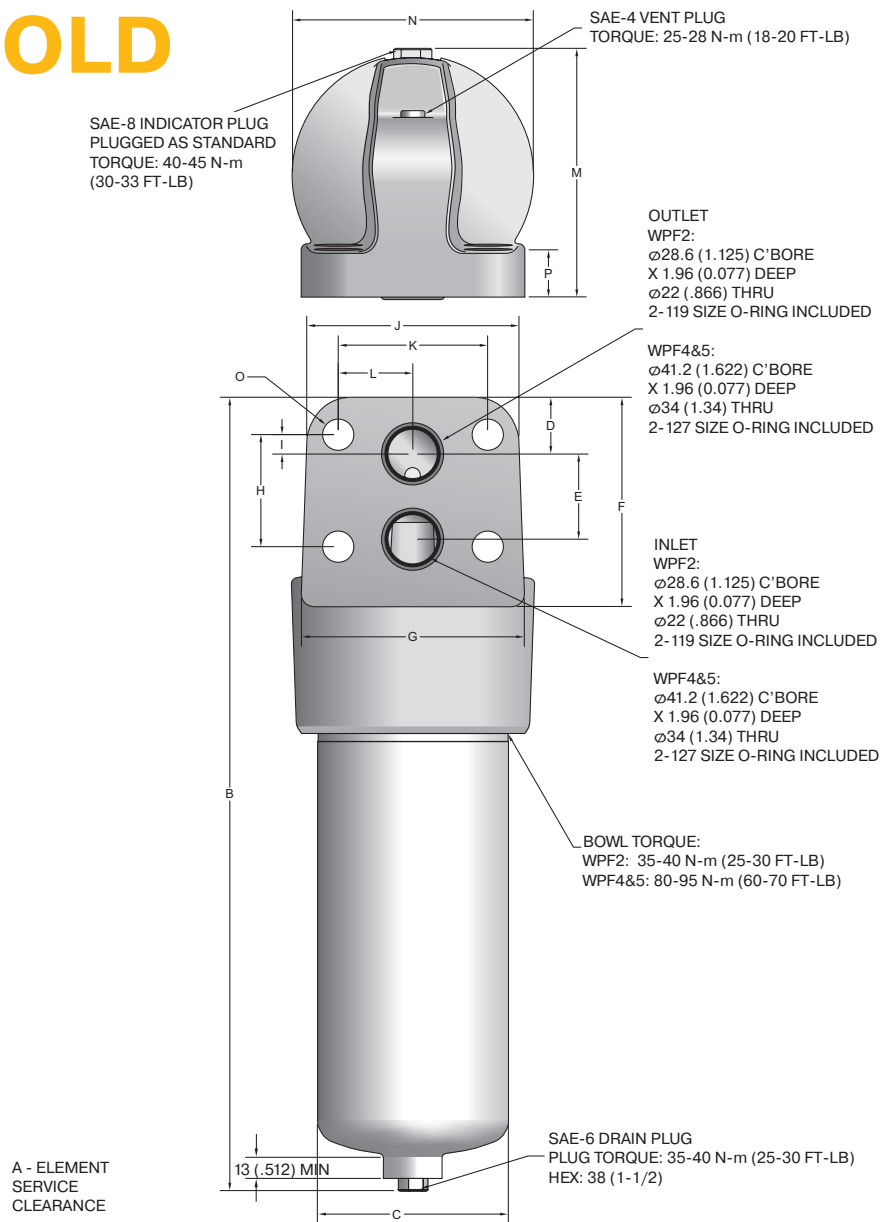
Nitrile/Ethylene Propylene: -40°F to  
225°F (-40°C to 107°C)  
Fluorocarbon: -15°F to 275°F (-26°C to  
135°C)

### Filter Materials:

Head: SG Iron  
Bowl: Steel  
Indicator: Brass with Plastic  
Connectors

### Weights (approximate):

WPF2: 18 lbs. (8.2 kg)  
WPF4: 63 lbs. (28.6 kg)  
WPF5: 70 lbs. (31.7 kg)



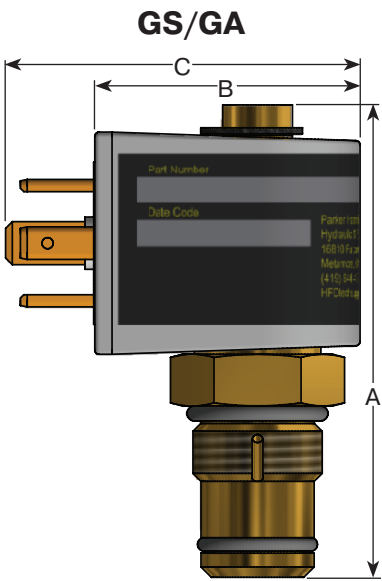
Drawings are for reference only.  
Contact factory for current version.

| Flange Size | N: Thread & Depth | O      | P     | Q      | R      | S      |
|-------------|-------------------|--------|-------|--------|--------|--------|
| 3/4"        | M10 x 1.5, 0.68"  | .937"  | .469" | 2.000" | 1.000" | .750"  |
| 1"          | M12 x 1.75, 0.75" | 1.093" | .546" | 2.250" | 1.125" | 1.000" |
| 1-1/4"      | M14 x 2.0, 0.75"  | 1.250" | .625" | 2.625" | 1.312" | 1.250" |
| 1-1/2"      | M16 x 2.0, 1.34"  | 1.437" | .719" | 3.125" | 1.563" | 1.500" |

### Dimensions (mm/inch)

| Filter Model | A                  | B                   | C                  | D                 | E                 | F                  | G                  | H                 | I                | J                  | K                  | L                 | M                    | N                  | O                | P                   |
|--------------|--------------------|---------------------|--------------------|-------------------|-------------------|--------------------|--------------------|-------------------|------------------|--------------------|--------------------|-------------------|----------------------|--------------------|------------------|---------------------|
| WPF2         | <u>79</u><br>3.11  | <u>343</u><br>13.50 | <u>75</u><br>2.95  | <u>24</u><br>.94  | <u>39</u><br>1.53 | <u>95</u><br>3.74  | <u>116</u><br>4.57 | <u>50</u><br>1.97 | <u>6</u><br>.24  | <u>110</u><br>4.33 | <u>80</u><br>3.15  | <u>40</u><br>1.57 | <u>110</u><br>4.33   | <u>121</u><br>4.76 | <u>17</u><br>.67 | <u>30</u><br>1.18   |
| WPF4         | <u>100</u><br>3.94 | <u>532</u><br>20.94 | <u>128</u><br>5.04 | <u>38</u><br>1.50 | <u>57</u><br>2.24 | <u>140</u><br>5.51 | <u>150</u><br>5.91 | <u>75</u><br>2.95 | <u>13</u><br>.51 | <u>142</u><br>5.59 | <u>100</u><br>3.94 | <u>50</u><br>1.97 | <u>166.5</u><br>6.56 | <u>161</u><br>6.34 | <u>21</u><br>.83 | <u>31.7</u><br>1.25 |
| WPF5         | <u>100</u><br>3.94 | <u>627</u><br>24.69 | <u>128</u><br>5.04 | <u>38</u><br>1.50 | <u>57</u><br>2.24 | <u>140</u><br>5.51 | <u>150</u><br>5.91 | <u>75</u><br>2.95 | <u>13</u><br>.51 | <u>142</u><br>5.59 | <u>100</u><br>3.94 | <u>50</u><br>1.97 | <u>166.5</u><br>6.56 | <u>161</u><br>6.34 | <u>21</u><br>.83 | <u>31.7</u><br>1.25 |

Indicator Specifications

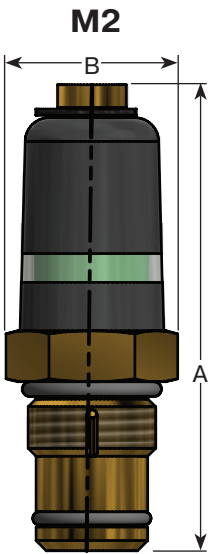
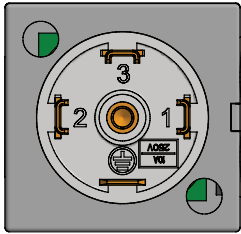


**GS**  
**Output:** Dry Contact Reed Switch

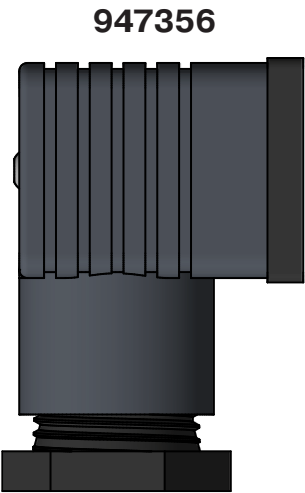
- Absolute maximum carry current 1 amp (AC/DC)
- Absolute maximum switching current 500 mA (AC/DC)
- Absolute maximum voltage 125 VAC/30 VDC

**Torque:** 30-35 ft lbs

**GA**  
**Output:** Analog 4-20 mA  
**Supply Voltage:** 10.0 VDC - 28 VDC (Clean and Filtered)  
**Torque:** 30-35 ft lbs



**Output:** Visual



- DIN43650 standard socket
- For use with GS and GA



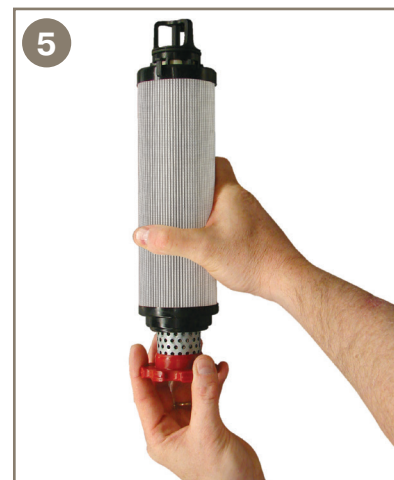
- DIN43650 visual LED socket
- 12-35 VDC
- For use with GS

| Option | Description   | Connection/Power                                                               | Wiring                                                                                                           | A<br>inches/mm      | B<br>inches/mm      | C<br>inches/mm      |
|--------|---------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|
| GS     | Reed Switch   | DIN 43650 3 Pole + Earth<br>500mA @ 30 VDC<br>500mA @ 125 VAC                  | Pin 1 - Common<br>Pin 2 - Normally Open<br>Pin 3 - Normally Closed<br>Pin 4 - Not Connected                      | <u>2.74</u><br>69.6 | <u>1.54</u><br>39.1 | <u>2.06</u><br>52.3 |
| GA     | 4-20mA Analog | DIN 43650 3 Pole + Earth<br>Supply Voltage: 10 VDC - 28 VDC<br>Output: 4-20 mA | Pin 1 - Supply (10VDC - 28VDC)<br>Pin 2 - Common (Circuit Ground)<br>Pin 3 - 4-20mA Out<br>Pin 4 - Not Connected | <u>2.74</u><br>69.6 | <u>1.54</u><br>39.1 | <u>2.06</u><br>52.3 |
| M2     | Visual        | N/A                                                                            | N/A                                                                                                              | <u>2.74</u><br>69.6 | <u>1.45</u><br>36.8 | N/A                 |

# WPF

## Service & Maintenance Instructions

- 1 Stop system power and vent captive pressure.
- 2 Drain filter assembly.
- 3 Remove bowl and element assembly.
- 4 Push down to squeeze tangs and lift element.
- 5 Twist to remove core.
- 6 Retain reusable core.
- 7 Discard used element.
- 8 Insert reusable core into new element until it snaps.
- 9 Push element assembly into bowl, snap tangs.
- 10 Inspect o-ring and anti-extrusion ring.
- 11 Install bowl with new element.
- 12 Torque bowl, vent and drain plugs.
- 13 Power up and inspect.

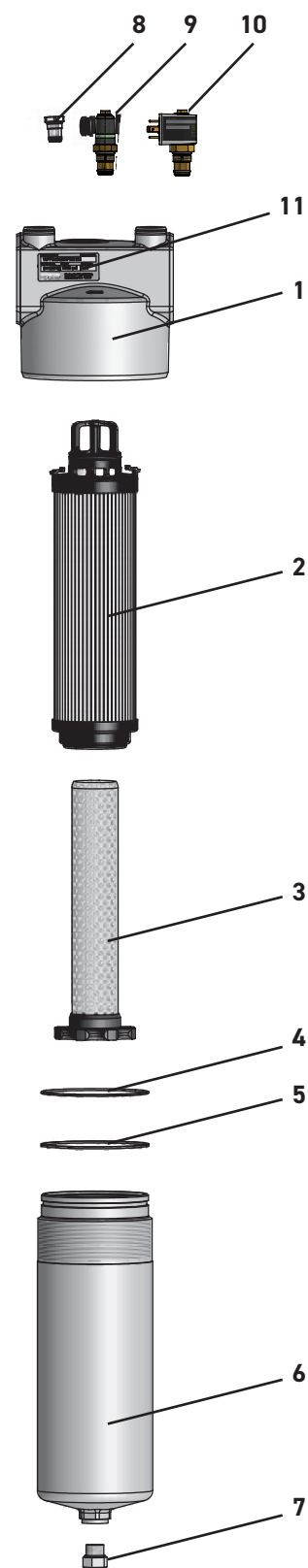




## T-port Parts List

| Index        | Part Description                             | Part Number |
|--------------|----------------------------------------------|-------------|
| 1            | WPF1 Head SAE-8                              | 940986      |
|              | WPF2 Head 3/4" Flange                        | 940989      |
|              | WPF2 Head SAE-12                             | 940988      |
|              | WPF3 Head 1" Flange                          | 940992      |
|              | WPF3 Head SAE-16                             | 940991      |
|              | WPF4 Head 1-1/4" Flange                      | 940923      |
|              | WPF4 Head SAE-20                             | 940924      |
|              | WPF5 Head 1-1/2" Flange                      | 940773      |
|              | WPF5 Head SAE-24                             | 940921      |
| 2            | Element See chart on How to Order page       |             |
| 3            | WPF1 Reusable Core                           | 941175      |
|              | WPF2 Reusable Core                           | 941176      |
|              | WPF3 Reusable Core                           | 941177      |
|              | WPF4 Reusable Core                           | 941178      |
|              | WPF5 Reusable Core                           | 941179      |
| 4            | WPF1 Bowl O-ring                             | V92141      |
|              | WPF2 Bowl O-ring                             | V92144      |
|              | WPF3 Seal Kit¹ FKM                           | 947535      |
|              | WPF4 Bowl O-ring                             | V92157      |
|              | WPF5 Bowl O-ring                             | V92157      |
| 5            | WPF1 Anti-extrusion Ring                     | 941185      |
|              | WPF2 Anti-extrusion Ring                     | 934798      |
|              | WPF4 Anti-extrusion Ring                     | 941187      |
|              | WPF5 Anti-extrusion Ring                     | 941187      |
| 6            | WPF1 Bowl                                    | 942269      |
|              | WPF2 Bowl                                    | 942299      |
|              | WPF3 Bowl                                    | 945767      |
|              | WPF4 Bowl                                    | 941156      |
|              | WPF5 Bowl                                    | 941157      |
| 7            | Drain Plug                                   | 934320      |
| 8            | Indicator Plug                               | 941172      |
| 9            | 50psi Visual Indicator                       | 945661      |
| 9            | 50psi Visual Indicator EPR                   | 947292      |
| 10²          | 50psi Electrical Reed Switch Indicator       | 946201      |
| 10²          | 50psi Electrical Reed Switch Indicator - EPR | 947288      |
| 10²          | 50psi Analog 4-20mA Indicator                | 946210      |
| 10²          | 50psi Analog 4-20mA Indicator - EPR          | 947289      |
| Not Shown²   | Standard DIN 43650 Socket Kit                | 947356      |
| Not Shown²,³ | 12-35VDC LED Visual DIN 43650 Socket         | 947355      |
| 11           | Name Plate                                   | 920928      |
| Not Shown    | Drive Screw (2 required)                     | 900028      |

1. 947536 includes o-ring and anti-extrusion ring.  
 2. Indicator and DIN43650 socket sold separately.  
 3. For use with 946201 and 947288.



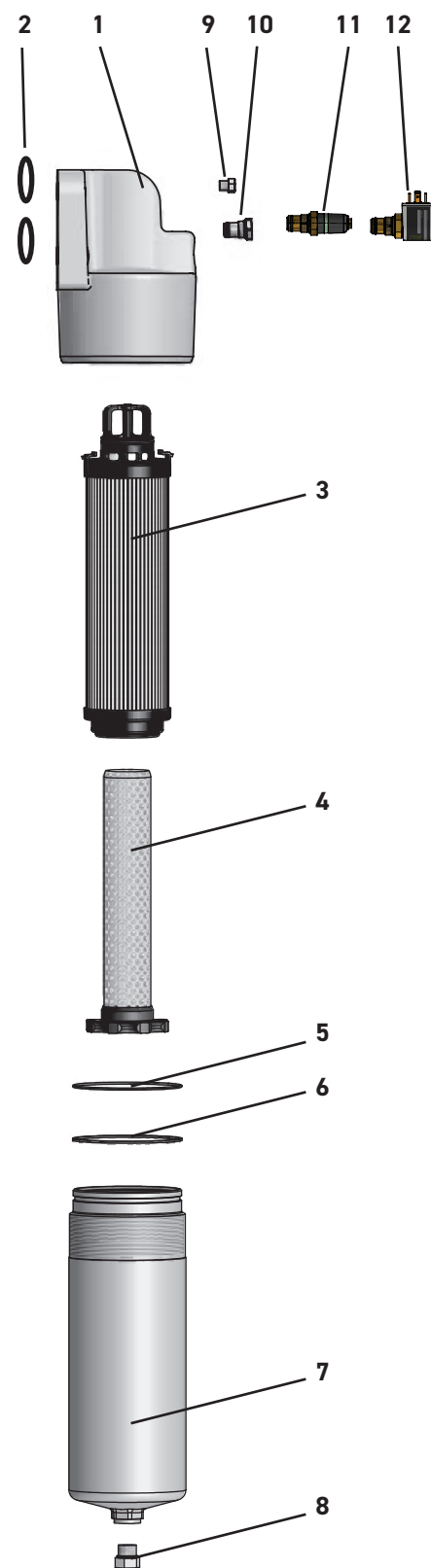


## Manifold Parts List

| Index                    | Part Description                             | Part Number |
|--------------------------|----------------------------------------------|-------------|
| 1                        | WPF2 Manifold Mount Head                     | 941273      |
|                          | WPF4 Manifold Mount Head                     | 940982      |
|                          | WPF5 Manifold Mount Head                     | 940982      |
| 2                        | WPF2 Manifold Mount O-rings (2 req'd)        | V92119      |
|                          | WPF4 Manifold Mount O-rings (2 req'd)        | V92127      |
|                          | WPF5 Manifold Mount O-rings (2 req'd)        | V92127      |
| 3                        | Element See chart on page 153                |             |
| 4                        | WPF2 Reusable Core                           | 941176      |
|                          | WPF4 Reusable Core                           | 941178      |
|                          | WPF5 Reusable Core                           | 941179      |
| 5                        | WPF2 Bowl O-ring                             | V92144      |
|                          | WPF4 Bowl O-ring                             | V92157      |
|                          | WPF5 Bowl O-ring                             | V92157      |
| 6                        | WPF2 Anti-extrusion Ring                     | 934798      |
|                          | WPF4 Anti-extrusion Ring                     | 941187      |
|                          | WPF5 Anti-extrusion Ring                     | 941187      |
| 7                        | WPF2 Bowl                                    | 942299      |
|                          | WPF4 Bowl                                    | 941156      |
|                          | WPF5 Bowl                                    | 941157      |
| 8                        | Drain Plug                                   | 934320      |
| 9                        | Vent Plug                                    | 928882      |
| 10                       | WPF Indicator Plug                           | 941172      |
| 11                       | 50psi Visual Indicator                       | 945661      |
| 11                       | 50psi Visual Indicator EPR                   | 947292      |
| 12 <sup>1</sup>          | 50psi Electrical Reed Switch Indicator       | 946201      |
| 12 <sup>1</sup>          | 50psi Electrical Reed Switch Indicator - EPR | 947288      |
| 12 <sup>1</sup>          | 50psi Analog 4-20mA Indicator                | 946210      |
| 12 <sup>1</sup>          | 50psi Analog 4-20mA Indicator - EPR          | 947289      |
| Not Shown <sup>1</sup>   | Standard DIN 43650 Socket Kit                | 947356      |
| Not Shown <sup>1,2</sup> | 12-35VDC LED Visual DIN 43650 Socket         | 947355      |
| Not Shown                | Name Plate                                   | 920928      |
| Not Shown                | Drive Screw (2 required)                     | 900028      |

1. Indicator and DIN43650 socket sold separately.

2. For use with 946201 and 947288.



# WPF Series<sup>1</sup>

## High Pressure Filters

Highlighted products have reduced lead times. Contact the factory for lead times on other product configurations.

### How To Order

Select the desired symbol (in the correct position) to construct a model code. Example:

| BOX 1 | BOX 2 | BOX 3 | BOX 4 | BOX 5 | BOX 6 | BOX 7 | BOX 8 |
|-------|-------|-------|-------|-------|-------|-------|-------|
| WPF   | 2     | 10QE  | V     | M2    | K     | S12   | 1     |

| BOX 1: Filter Series |                      |
|----------------------|----------------------|
| Symbol               | Description          |
| WPF                  | High Pressure Filter |

| BOX 2: Element Length |                      |
|-----------------------|----------------------|
| Symbol                | Description          |
| 1                     | 1/2" Nominal ports   |
| 2                     | 3/4" Nominal ports   |
| 3                     | 1" Nominal ports     |
| 4                     | 1 1/4" Nominal ports |
| 5                     | 1 1/2" Nominal ports |

| BOX 3: Media Code                     |                       |
|---------------------------------------|-----------------------|
| Symbol                                | Description           |
| <b>Standard Element (bypass only)</b> |                       |
| 02QE                                  | Microglass, 2 micron  |
| 05QE <sup>2</sup>                     | Microglass, 5 micron  |
| 10QE                                  | Microglass, 10 micron |
| <b>High Collapse (no-bypass only)</b> |                       |
| 02QH                                  | Microglass, 2 micron  |
| 10QH <sup>3</sup>                     | Microglass, 10 micron |

| BOX 4: Seal Material |                    |
|----------------------|--------------------|
| Symbol               | Description        |
| B                    | Nitrile            |
| E                    | Ethylene Propylene |
| V                    | Fluorocarbon       |

| BOX 5: Indicator <sup>4</sup> |                                                    |
|-------------------------------|----------------------------------------------------|
| Symbol                        | Description                                        |
| P                             | Plugged indicator port                             |
| M2                            | 50psi Visual                                       |
| GS                            | 50psi Electrical Reed Switch with DIN 43650 socket |
| GA                            | 50psi Analog 4-20mA with DIN 43650 socket          |

| BOX 6: Bypass  |                                         |
|----------------|-----------------------------------------|
| Symbol         | Description                             |
| K              | 50 psid (3.5 bar)                       |
| X <sup>5</sup> | No bypass & No indicator (port plugged) |

| BOX 7: Ports |                                |
|--------------|--------------------------------|
| Symbol       | Description                    |
| <b>WPF1</b>  |                                |
| S08          | SAE-8                          |
| <b>WPF2</b>  |                                |
| S12          | SAE-12                         |
| Y12          | 3/4" SAE code 62 flange face   |
| X12          | Manifold                       |
| <b>WPF3</b>  |                                |
| S16          | SAE-16                         |
| Y16          | 1" SAE code 62 flange face     |
| <b>WPF4</b>  |                                |
| S20          | SAE-20                         |
| Y20          | 1 1/4" SAE code 62 flange face |
| X20          | Manifold                       |
| <b>WPF5</b>  |                                |
| S24          | SAE-24                         |
| Y24          | 1 1/2" SAE code 62 flange face |
| X20          | Manifold                       |

#### Notes:

- The filter includes the element you select already installed.
- Reduced lead time applies to WPF3 only.
- Reduced lead time applies to WPF2 only.
- When an indicator is selected, the indicator port is plugged and the indicator is shipped as a loose part.
- When the no bypass option is selected, a high collapse element must also be selected.

| BOX 8: Options |                                        |
|----------------|----------------------------------------|
| Symbol         | Description                            |
| 1              | Bypass (standard element only)         |
| 2 <sup>5</sup> | No bypass (high collapse element only) |

### Replacement Elements

|                                        | Media            | WPF1    | WPF2    | WPF3    | WPF4    | WPF5    |
|----------------------------------------|------------------|---------|---------|---------|---------|---------|
| Standard Collapse<br>300 psid (21 bar) | Microglass, 02QE | 941029Q | 941032Q | 941035Q | 941038Q | 941041Q |
|                                        | Microglass, 05QE | 941030Q | 941033Q | 941036Q | 941039Q | 941042Q |
|                                        | Microglass, 10QE | 941031Q | 941034Q | 941037Q | 941040Q | 941043Q |
| High Collapse<br>2000 psid (138 bar)   | Microglass, 02QH | 941044Q | 941046Q | 941048Q | 941050Q | 941052Q |
|                                        | Microglass, 10QH | 941045Q | 941047Q | 941049Q | 941051Q | 941053Q |

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