

HIGH PRESSURE IN-LINE/MANIFOLD

Models WPF

Parker

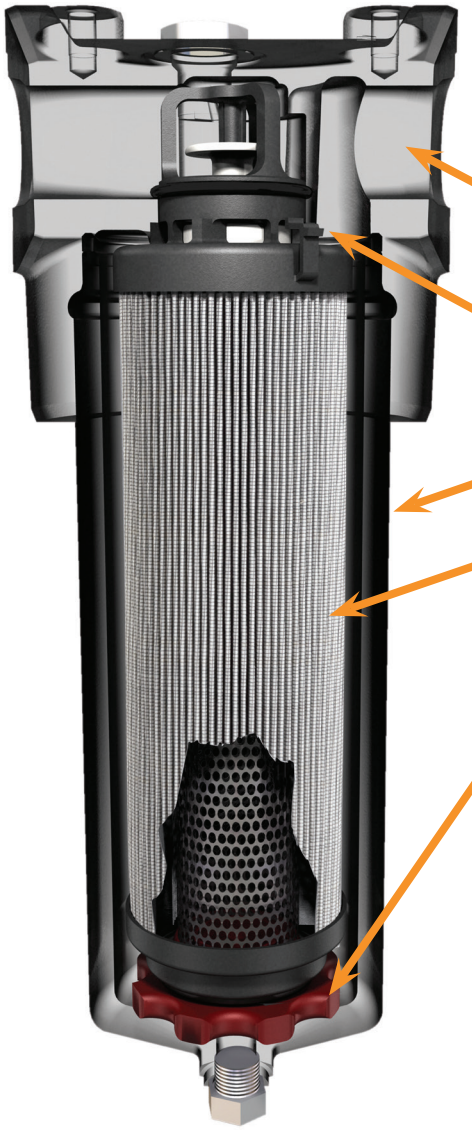
WPF

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.



Head
High strength ductile iron filter head with integral indicator port

Patented design
Patented deformable tangs secure element in bowl

Bowl
Steel bowl with standard drain port

Element
Proprietary element endcap assembly includes bypass and reverse flow valves

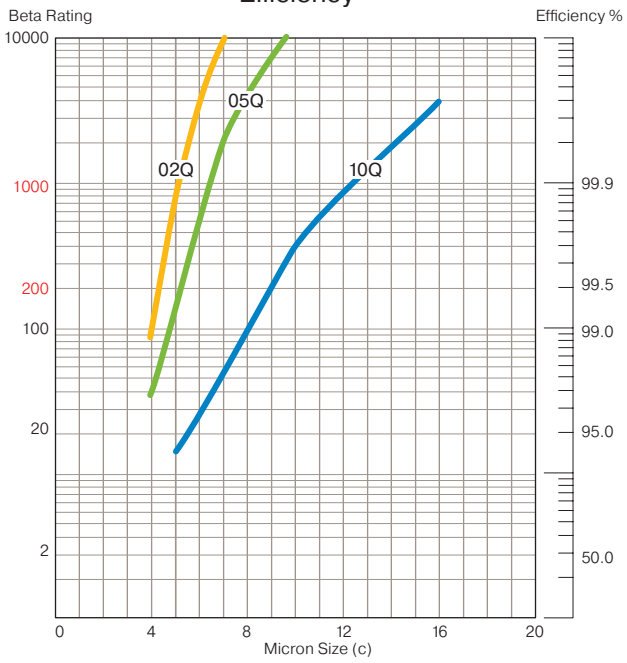
Coreless
- Coreless element assembly
- Re-usable element support core

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 ΔP reverse flow valve	Ideal for closed-loop applications	Greater design and service flexibility
Patended 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

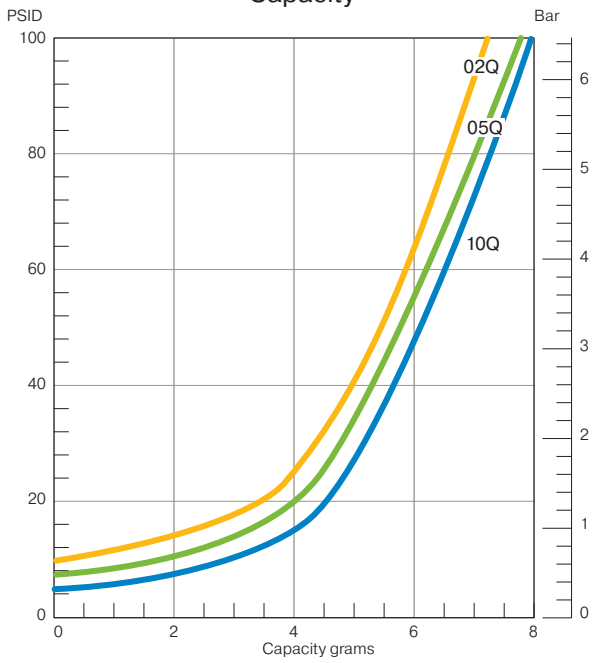
WPF1

Element Performance

Efficiency

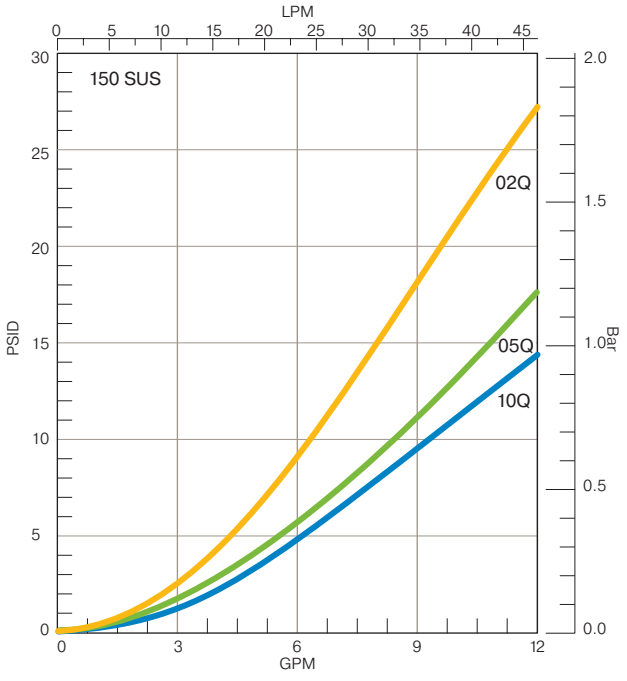


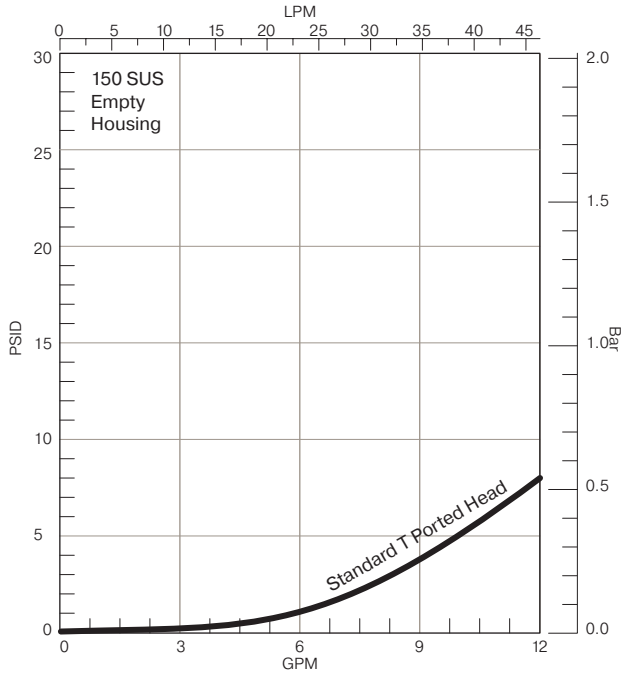
Capacity



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



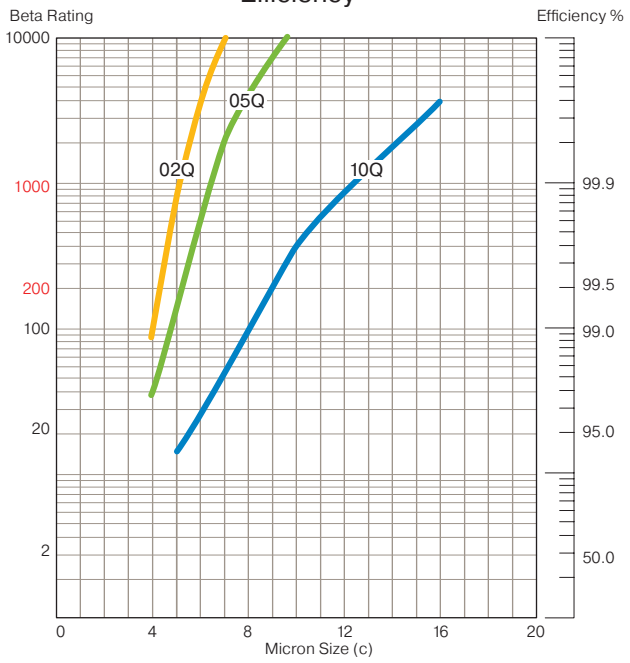


*High Collapse Correction Factor: "QH" Elements (2000 psid) = 1.4 times reported loss

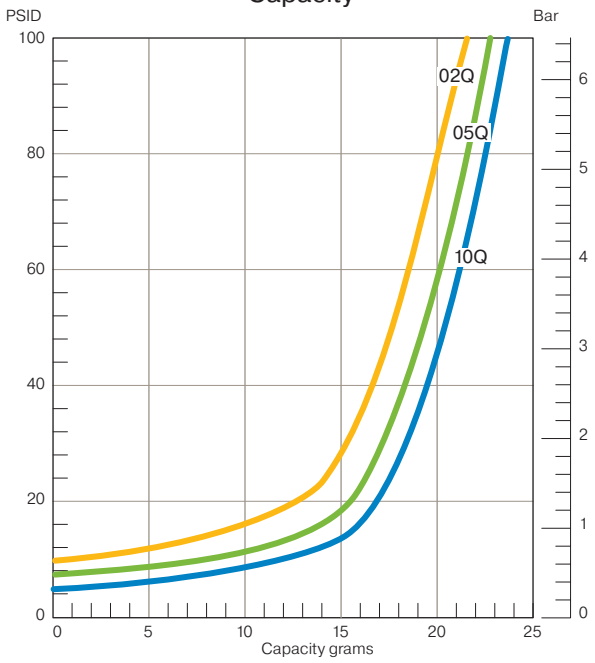
WPF2

Element Performance

Efficiency

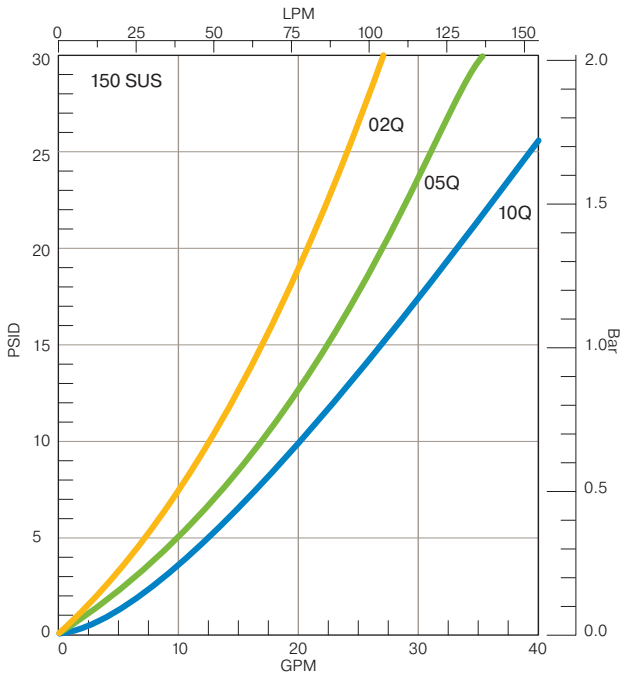


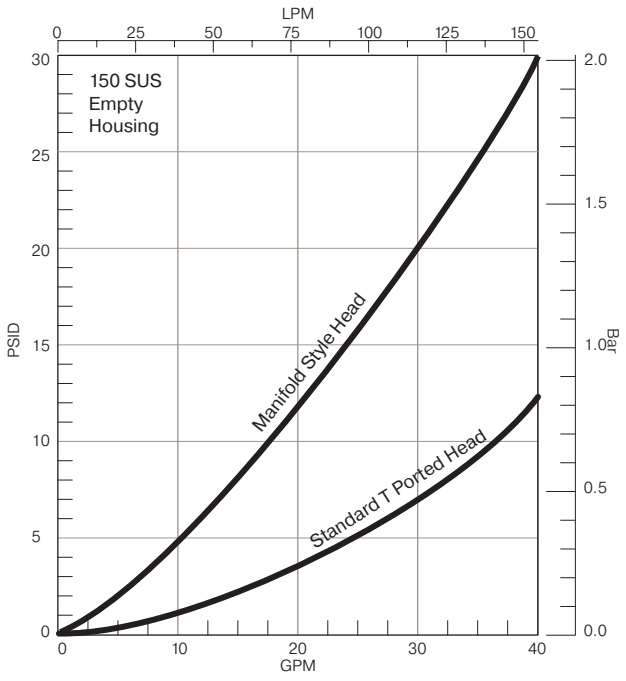
Capacity



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



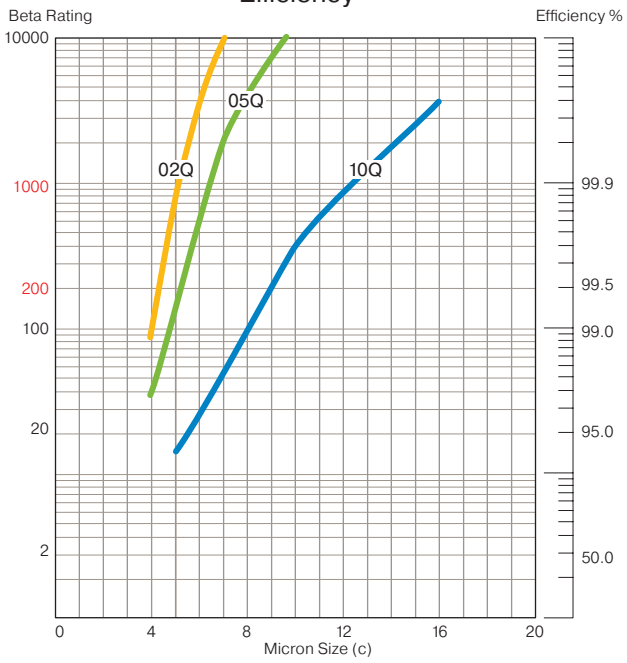


*High Collapse Correction Factor:
"QH" Elements (2000 psid) = 1.4 times reported loss

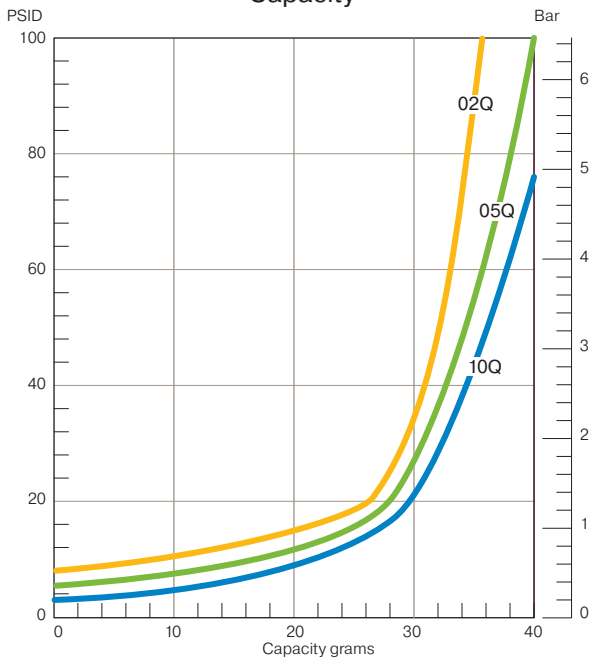
WPF3

Element Performance

Efficiency

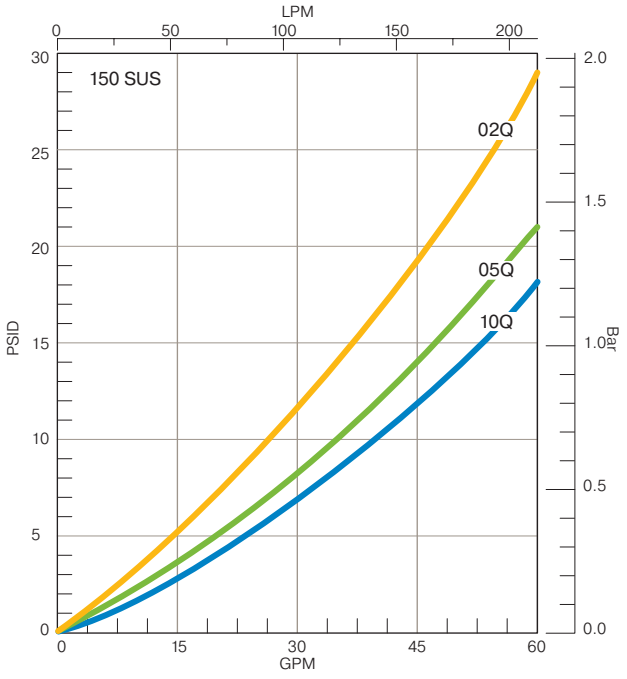


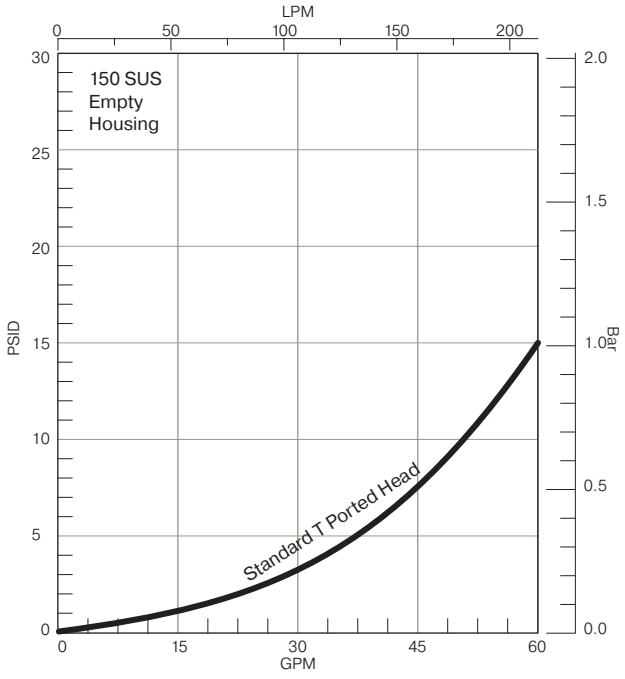
Capacity



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



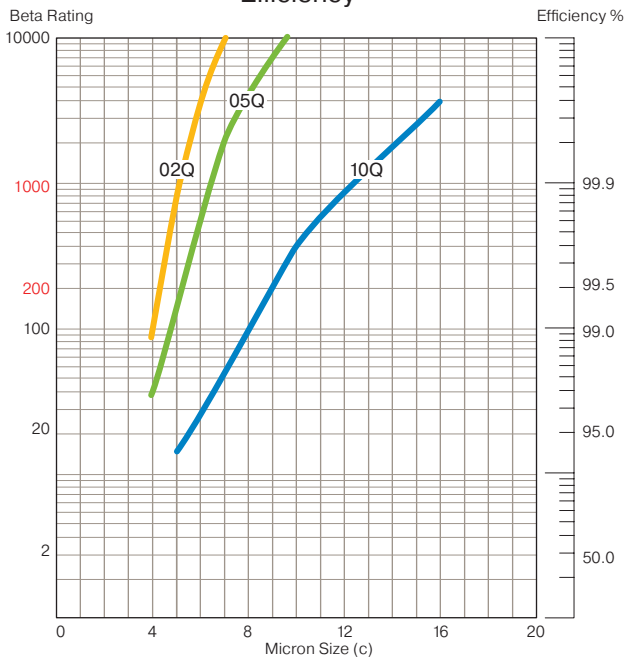


*High Collapse Correction Factor:
"QH" Elements (2000 psid) = 1.4 times reported loss

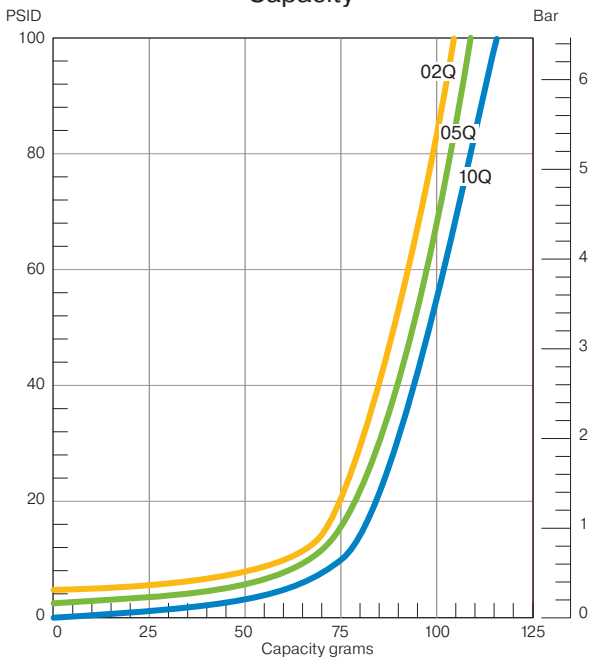
WPF4

Element Performance

Efficiency

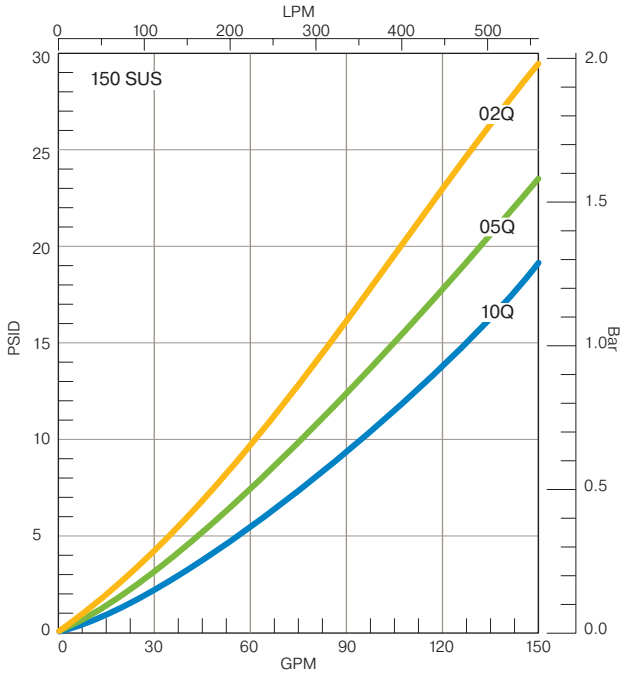


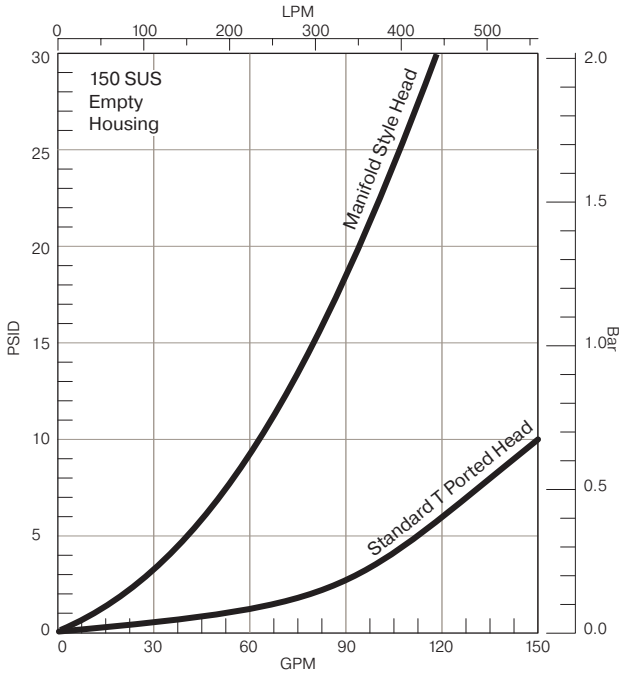
Capacity



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



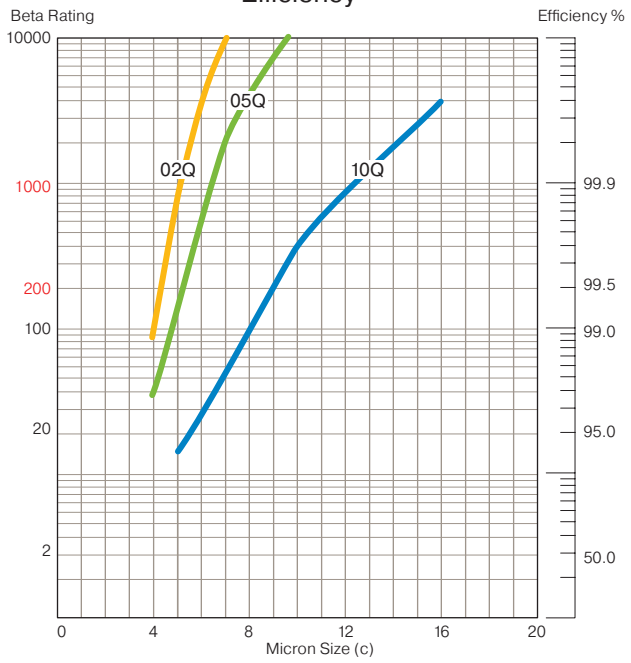


*High Collapse Correction Factor:
"QH" Elements (2000 psid) = 1.4 times reported loss

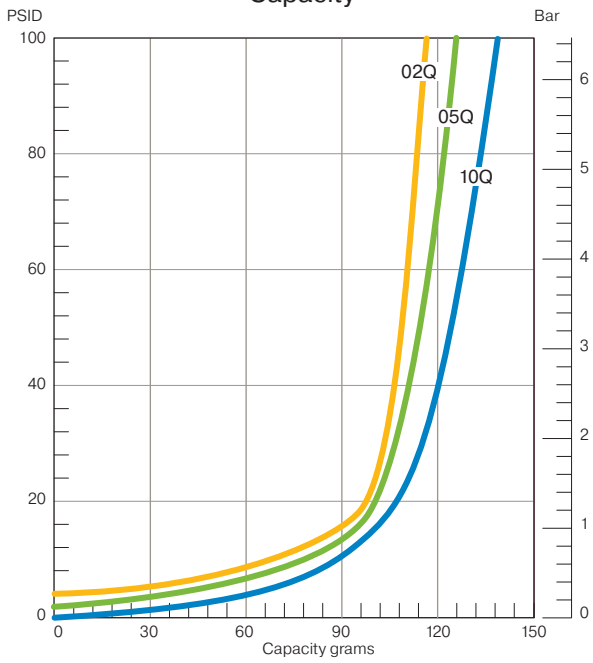
WPF5

Element Performance

Efficiency

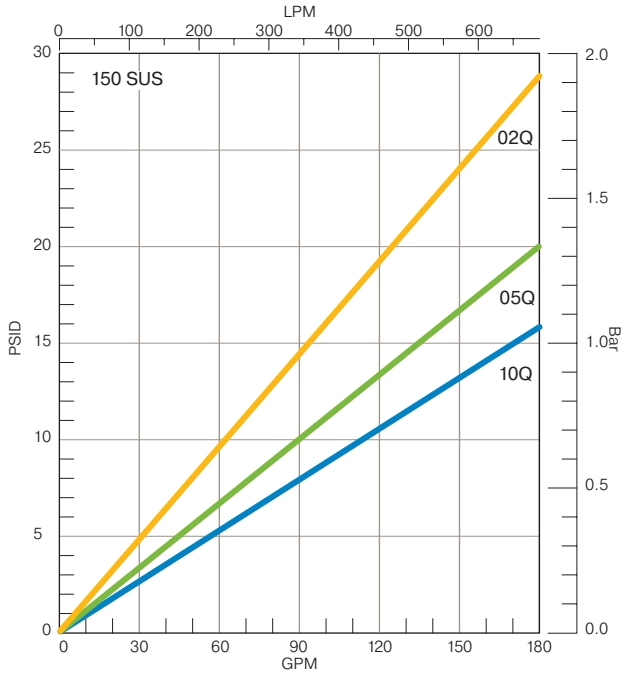


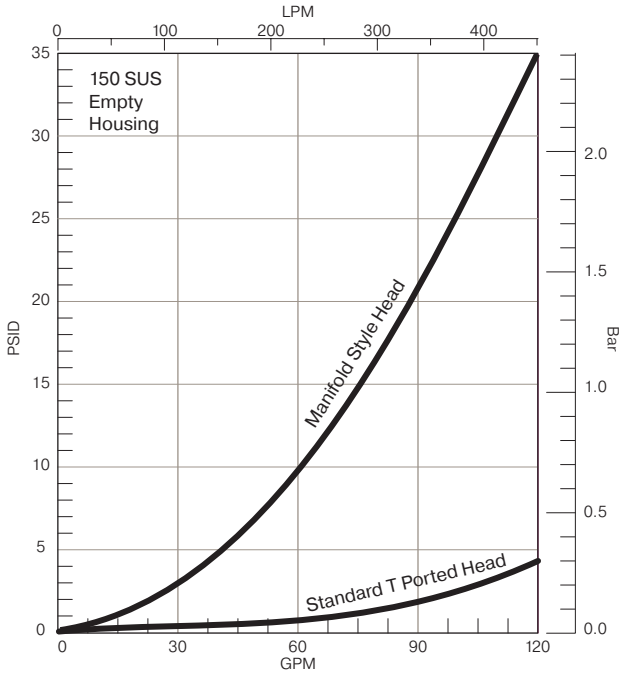
Capacity



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)

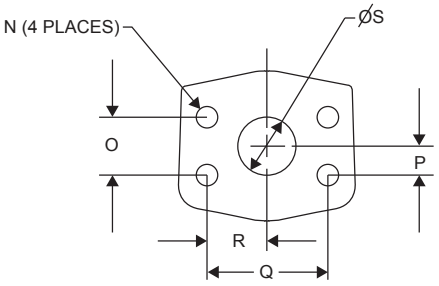
Design Safety Factor: 3:1

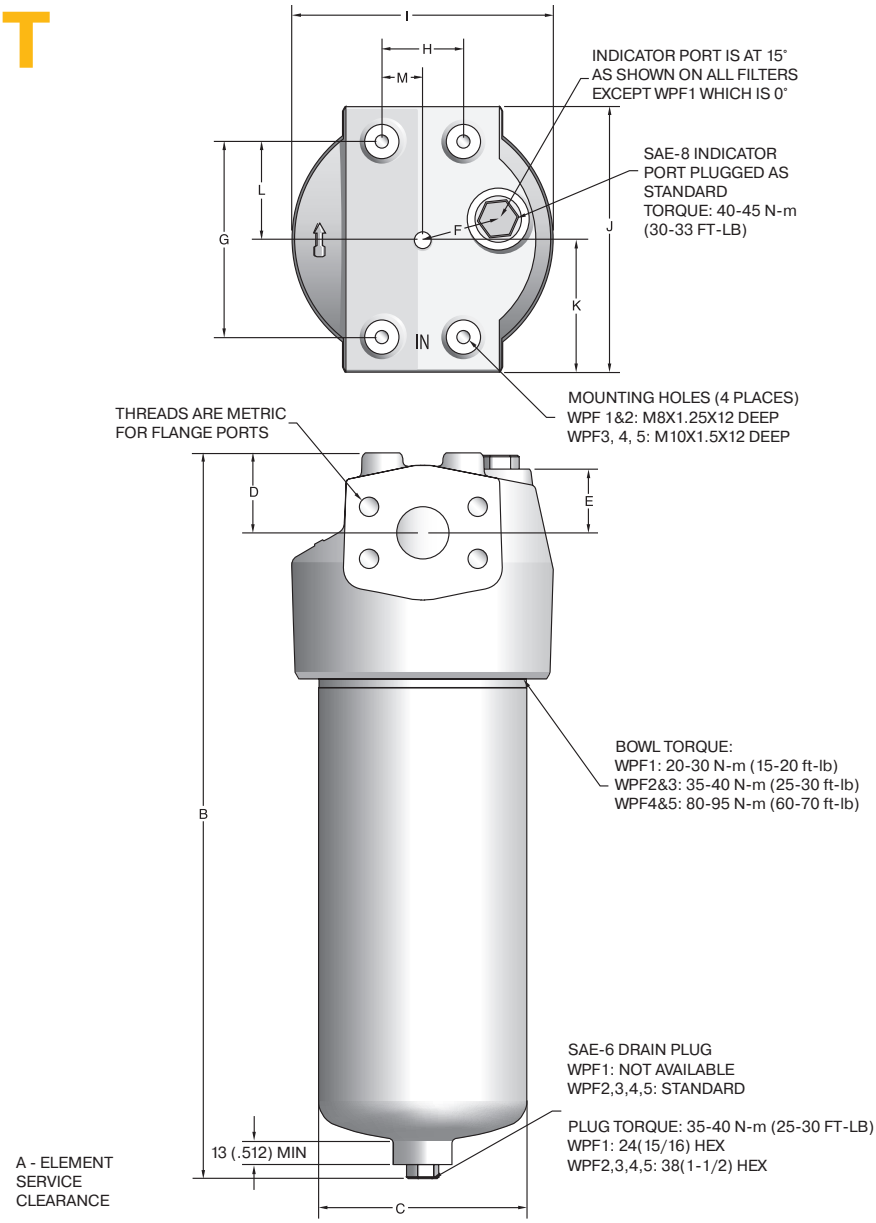
Element Collapse Rating:
300 psi (21 bar)
High Collapse: 2000 psi (138 bar)

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

WPF MANIFOLD

Specifications

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

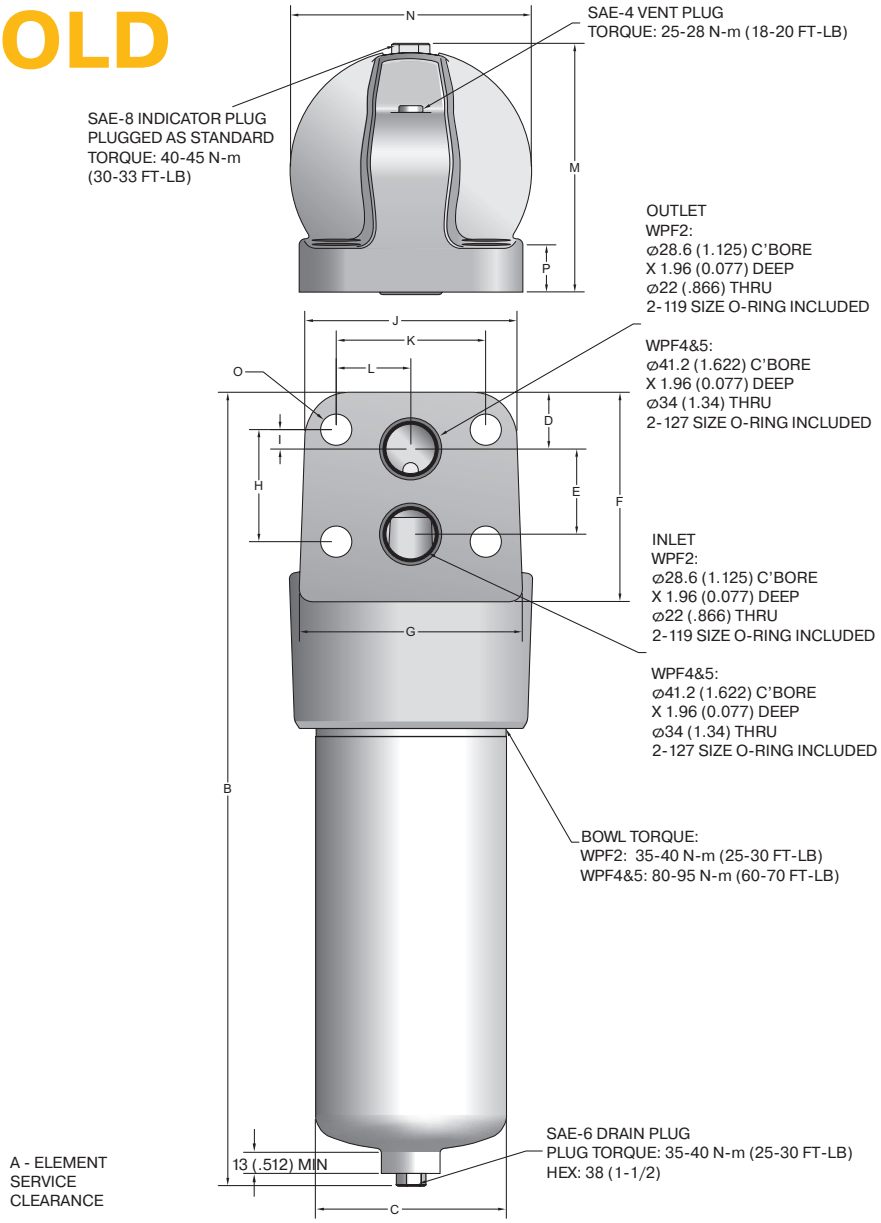
Design Safety Factor: 3:1

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)



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"

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

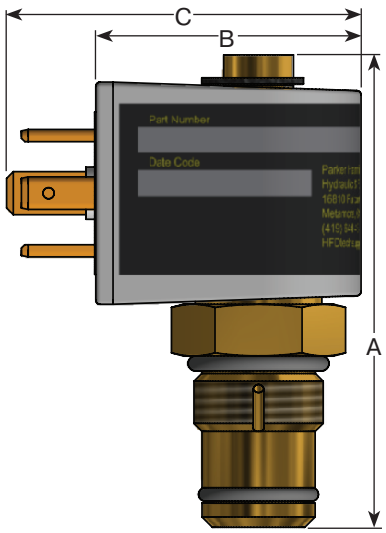
Dimensions (mm/inch)

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

WPF

Indicator Specifications

GS/GA



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

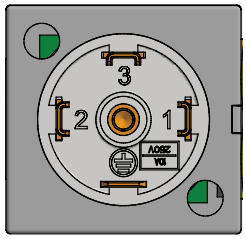
Torque: 30-35 ft lbs

GA

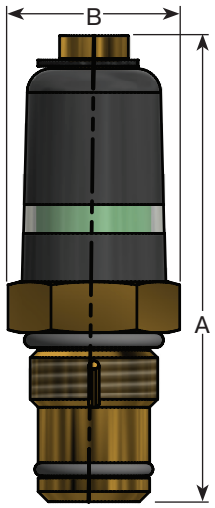
Output: Analog 4-20 mA

Supply Voltage: 10.0 VDC - 28 VDC (Clean and Filtered)

Torque: 30-35 ft lbs

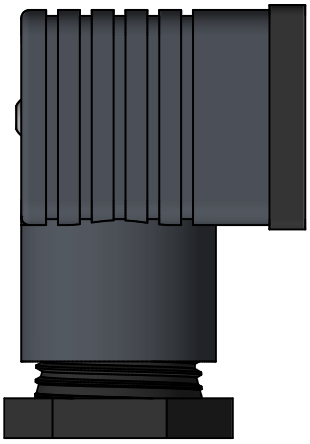


M2



Output: Visual

947356



- DIN43650 standard socket
- For use with GS and GA

947355



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

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

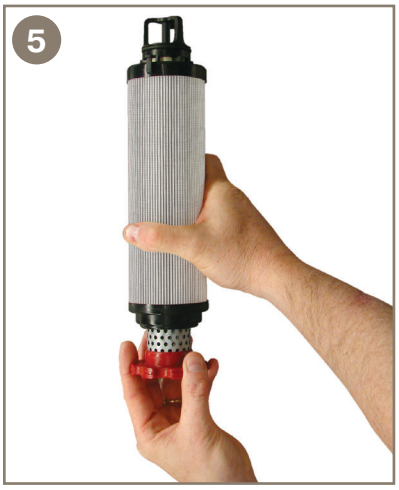
10 Inspect o-ring and anti-extrusion ring.

11 Install bowl with new element.

12 Torque bowl, vent and drain plugs.

13 Power up and inspect.









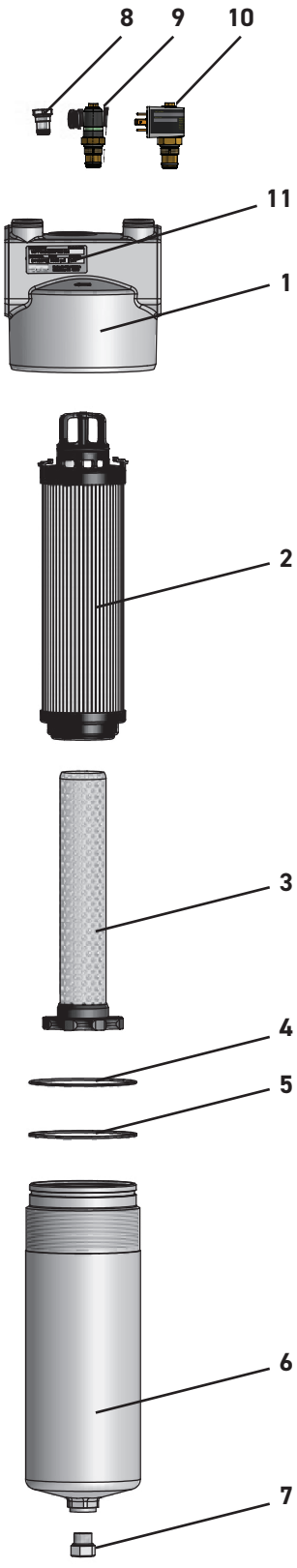




WPF

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 Kit[1] 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	942296
	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
10[2]	50psi Electrical Reed Switch Indicator	946201
10[2]	50psi Electrical Reed Switch Indicator - EPR	947288
10[2]	50psi Analog 4-20mA Indicator	946210
10[2]	50psi Analog 4-20mA Indicator - EPR	947289
Not Shown[2]	Standard DIN 43650 Socket Kit	947356
Not Shown[2,3]	12-35VDC LED Visual DIN 43650 Socket	947355
11	Name Plate	920928
Not Shown	Drive Screw (2 required)	900028



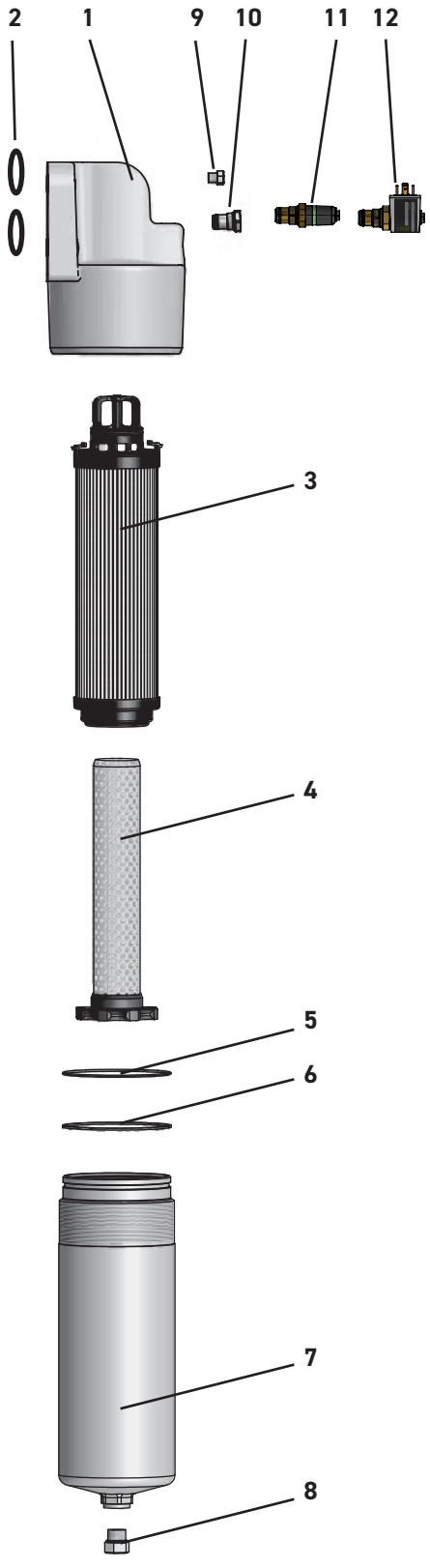
1. 947536 includes o-ring and anti-extrusion ring.
2. Indicator and DIN43650 socket sold separately.
3. For use with 946201 and 947288.

WPF

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[1]	50psi Electrical Reed Switch Indicator	946201
12[1]	50psi Electrical Reed Switch Indicator - EPR	947288
12[1]	50psi Analog 4-20mA Indicator	946210
12[1]	50psi Analog 4-20mA Indicator - EPR	947289
Not Shown[1]	Standard DIN 43650 Socket Kit	947356
Not Shown[1,2]	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[1]

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
Standard Element (bypass only)	
02QE	Microglass, 2 micron
05QE[2]	Microglass, 5 micron
10QE	Microglass, 10 micron
High Collapse (no-bypass only)	
02QH	Microglass, 2 micron
10QH[3]	Microglass, 10 micron

BOX 4: Seal Material

Symbol	Description
B	Nitrile
E	Ethylene Propylene
V	Fluorocarbon

BOX 5: Indicator[4]

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[5]	No bypass & No indicator (port plugged)

BOX 7: Ports

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

BOX 8: Options

Symbol	Description
1	Bypass (standard element only)
2[5]	No bypass (high collapse element only)

Notes:

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

Replacement Elements

	Media	WPF1	WPF2	WPF3	WPF4	WPF5
Standard Collapse 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 2000 psid (138 bar)	Microglass, 02QH	941044Q	941046Q	941048Q	941050Q	941052Q
	Microglass, 10QH	941045Q	941047Q	941049Q	941051Q	941053Q

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