



# ORDERING INFORMATION

## 450 SERIES FILTERS

**FILTER ASSEMBLY P/N** 450



**EXAMPLE P/N:**

450 A 2 B J M 03 2 N

### PORTS AVAILABLE

CODE	DESCRIPTION
A	3/4" (SAE-12) Straight Thread
B	3/4" NPT
C	Manifold Mount

### SEAL MATERIAL

CODE	DESCRIPTION
N	Nitrile
F	Fluorocarbon
E	Ethylene Propylene

### BOWL LENGTH

CODE	DESCRIPTION
1	6.58"
2	10.28"

### MEDIA

CODE	DESCRIPTION
1	Micropleat®
2	Microfil® III
3	Poromesh®
4	Hi-Collapse Microfil® III

### BYPASS VALVE

CODE	DESCRIPTION
N	No Bypass
B	50 psid Bypass

### MEDIA MICRON RATING

MICROFIL® III and Hi-Collapse III®		MICROPLEAT®		POROMESH®	
CODE	MICRON	CODE	MICRON	CODE	MICRON
01	1 µm	05	5 µm	02	2 µm
03	3 µm	10	10 µm	05	5 µm
06	6 µm	20	20 µm	10	10 µm
12	12 µm	40	40 µm	20	20 µm
20	20 µm			40	40 µm
25	25 µm				

### MICRODELTA® DIFFERENTIAL PRESSURE DEVICES

CODE	CODE	DESCRIPTION
35 psid	100 psid	
J	T	Visual Indicator (Pop-up button)
K	X	Electrical Indicator with three wire leads
L	W	Visual Indicator with thermal lockout (100°F/38°C)
M	Y	Electrical Indicator with DIN 43650 connector
N	N	No Indicator

### ELEMENT COLLAPSE PRESSURE

CODE	DESCRIPTION
M	300 psid
H	3000 psid

T, X, W, Y to be used with No Bypass Filters only.

- (1) Microfil®III and Hi-Collapse Microfil®III composite media, composed of fiberglass, organic and inorganic materials, are rated for a maximum operating temperature of 300°F.
- (2) Micropleat® resin-impregnated cellulose media are rated for a maximum operating temperature of 300°F.
- (3) Poromesh® diffusion-bonded wire cloth media are rated to a maximum operating temperature of 400°F.

## 1400 SERIES REPLACEMENT ELEMENTS

**ELEMENT P/N** 1400 EA



**EXAMPLE P/N:** 1400 E A M 06 2 N 2

### ELEMENT COLLAPSE PRESSURE

CODE	DESCRIPTION
M	300 psid (Micropleat®, Microfil®, Poromesh® elements only)
H	3000 psid (Hi-Collapse Microfil® III elements only)

### SEAL MATERIAL

CODE	DESCRIPTION
N	Nitrile
F	Fluorocarbon
E	Ethylene Propylene

### MEDIA MICRON RATING

MICROFIL® III and Hi-Collapse III®		MICROPLEAT®		POROMESH® (3)	
CODE	MICRON	CODE	MICRON	CODE	MICRON
01	1 µm	05	5 µm	02	2 µm
03	3 µm	10	10 µm	05	5 µm
06	6 µm	20	20 µm	10	10 µm
12	12 µm	40	40 µm	20	20 µm
20	20 µm			40	40 µm
25	25 µm				

### MEDIA

CODE	DESCRIPTION
1	Micropleat®
2	Microfil® III
3	Poromesh®
4	Hi-Collapse Microfil® III

### ELEMENT LENGTH

CODE	DESCRIPTION
1	4.5 inches
2	8 inches



# MEDIUM PRESSURE

MEDIUM PRESSURE FILTER ASSEMBLIES

## 450 SERIES

**FLOWS UP TO 30 GPM • OPERATING PRESSURE TO 3,600 PSI**

**PORT SIZES - "T" TYPE OR MANIFOLD PORTING**

3/4" (SAE-12) Straight Thread\*

3/4" NPT

Manifold Mount

\*Straight Thread ports conform to SAE J1926 standards.

**450 SERIES CONFORMS TO AIAG STANDARDS FOR HF2 HYDRAULIC FILTERS**

### SPECIFICATIONS/NOTES

**Fatigue Pressure Rating** 2,750 psi per NFPA 3.10.5.1 R2000

**Typical Burst Pressure** 15,000 psi per NFPA 3.10.5.1 R2000

<b>Temperature Range</b> (for housing only)	<b>Nitrile Seals:</b> -65°F to 225°F (-55°C to 107°C)
	<b>Fluorocarbon Seals:</b> -15°F to 400°F (-26°C to 205°C)
	<b>Ethylene Propylene Seals:</b> -70°F to 250°F (-57°C to 121°C)

<b>Fluid Compatibility</b>	<b>Nitrile Seals:</b> Petroleum based fluids, water-oil emulsions, water-glycol
	<b>Fluorocarbon Seals:</b> Synthetic lube oils
	<b>Ethylene Propylene Seals:</b> Phosphate ester fluids, water-glycol

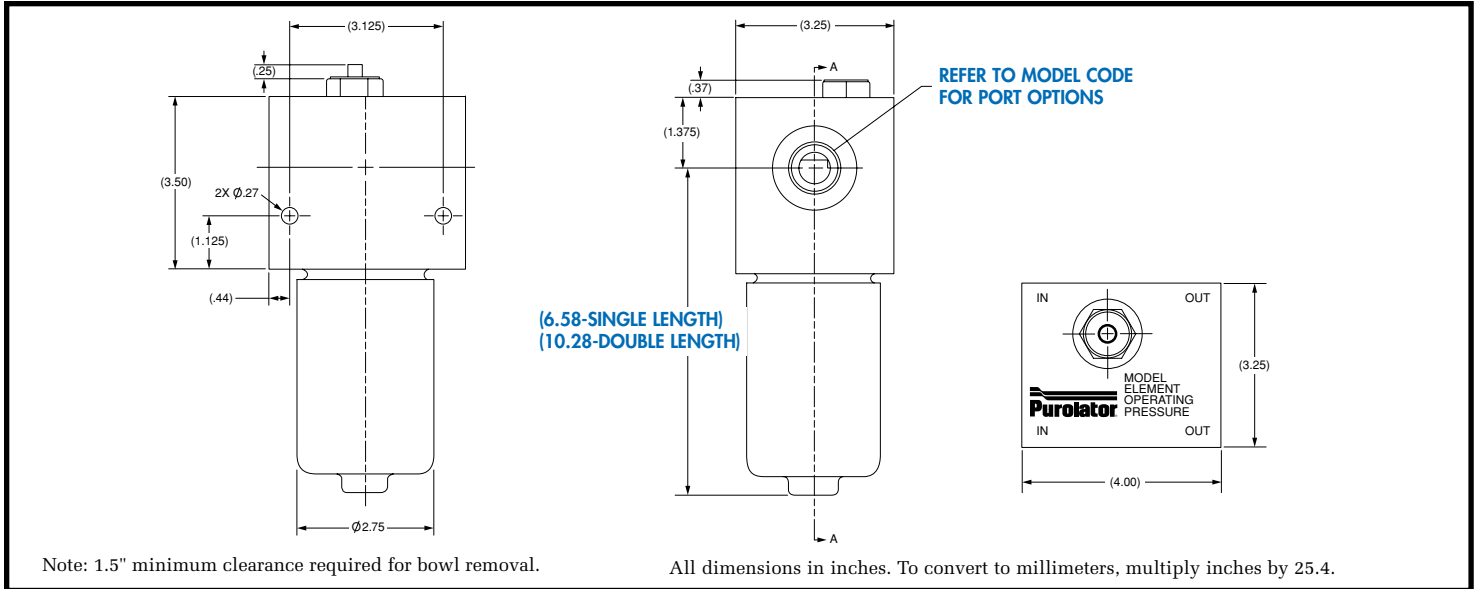
<b>Materials</b>	<b>Head:</b> Aluminum
	<b>Bowl:</b> Forged Aluminum

**Finish** Anodized

<b>Dry Weight</b>	<b>Single Length:</b> 5.5 lbs.
	<b>Double Length:</b> 7.0 lbs.



# DIMENSIONAL INFORMATION



## OPTIONAL MICRODELTA® DIFFERENTIAL PRESSURE DEVICES

Purolator 450 series filter assemblies are available with the following optional differential pressure devices:

CODE	DESCRIPTION	ACTUATION PRESSURE
J or T	Visual indicator (pop-up button)	35 psid (2.4 bar) or 100 psid (6.90 bar)
K or X	Electrical indicator with three wire leads	35 psid (2.4 bar) or 100 psid (6.90 bar)
L or W	Visual indicator with thermal lockout (100°F, 38°C)	35 psid (2.4 bar) or 100 psid (6.90 bar)
M or Y	Electrical indicator with DIN 43650 connector	35 psid (2.4 bar) or 100 psid (6.90 bar)
N	No indicator	35 psid (2.4 bar) or 100 psid (6.90 bar)

T, X, W, Y to be used with No Bypass Filters only.

## 450 SERIES



## FILTER ELEMENT PERFORMANCE

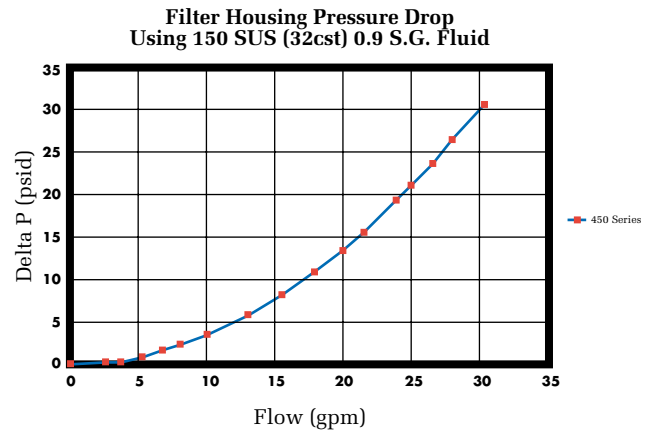
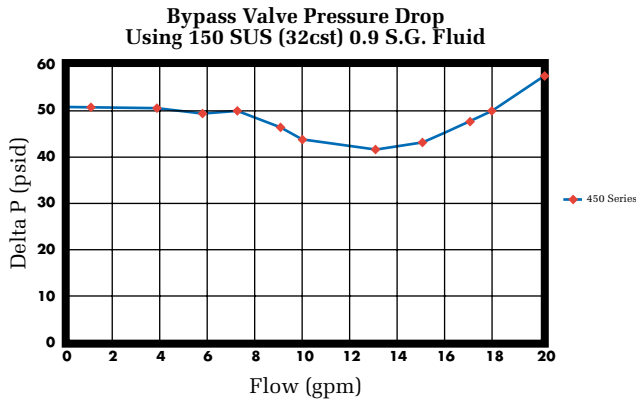
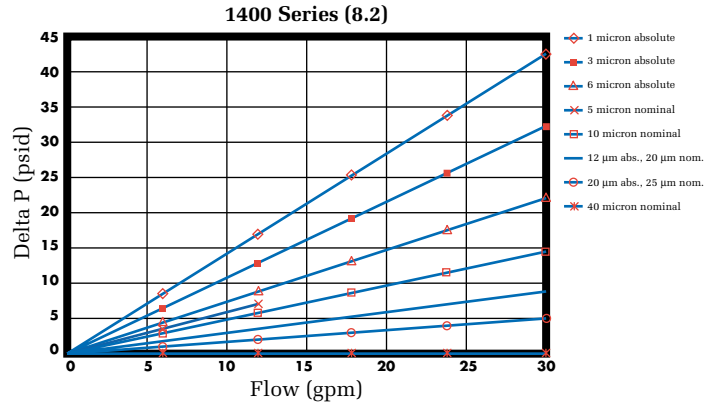
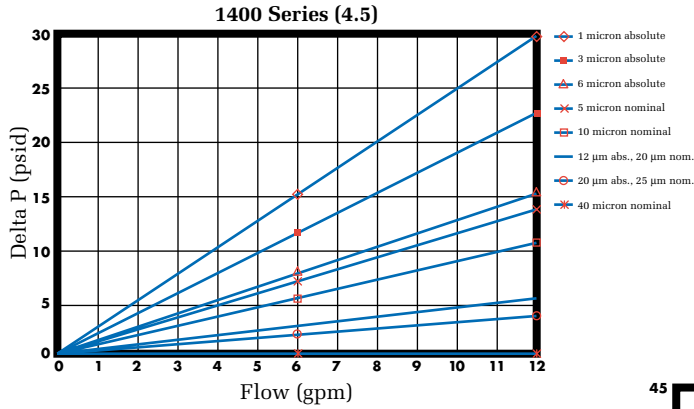
1400 SERIES ELEMENTS		
MEDIA	FILTRATION RATING	AVERAGE BETA NUMBER <sup>1</sup>
Microfil® III & Hi-Collapse Microfil® III	1µm ABS	$\beta_{x \geq 200}$
	3µm ABS	$\beta_{3(c) \geq 200}$
	6µm ABS	$\beta_{6(c) \geq 200}$
	12µm ABS	$\beta_{12(c) \geq 200}$
	20µm ABS	$\beta_{20(c) \geq 200}$
Micropleat®	25µm ABS	$\beta_{25(c) \geq 200}$
	5µm NOM	$\beta_{5 \approx 2}$
	10µm NOM	$\beta_{10 \approx 2}$
	20µm NOM	$\beta_{20 \approx 2}$
Poromesh®	40µm NOM	$\beta_{40 \approx 2}$
	2µm NOM	*
	5µm NOM	*
	10µm NOM	*
	20µm NOM	*
	40µm NOM	*

<sup>1</sup> Testing per ISO 16889 terminal  $\Delta P=50$  psid.

\* Average Beta Number is not available for Poromesh® filter media.



# PRESSURE DROP INFORMATION



Note: Element pressure drop tests use 150 SUS (32cst) 0.9 Specific Gravity fluid. For other fluids, multiply pressure drop from graph by new viscosity (centistokes) divided by old viscosity (32 centistokes). To obtain filter assembly pressure drop, add the housing pressure drop to the element pressure drop for the appropriate element micron rating.