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Find the *Parker / Purolator-Facet 440A1BNL103Y* at our website: *Click HERE*

MEDIUM PRESSURE

MEDIUM PRESSURE FILTER ASSEMBLIES 410, 420, 430, 440 SERIES

FLOWS UP TO 12 GPM • OPERATING PRESSURE TO 3,000 PSI

PORT SIZES ("T" TYPE PORTING)

410: 1/4" (SAE-4) Straight Thread*
420: 3/8" (SAE-6) Straight Thread*
430: 1/2" (SAE-8) Straight Thread*
440: 3/4" (SAE-12) Straight Thread*

*Straight thread ports conform to SAE J1926 standards.



HOUSING SERIES FLOW

410: 1 gpm
420: 3 gpm
430: 6 gpm
440: 12 gpm

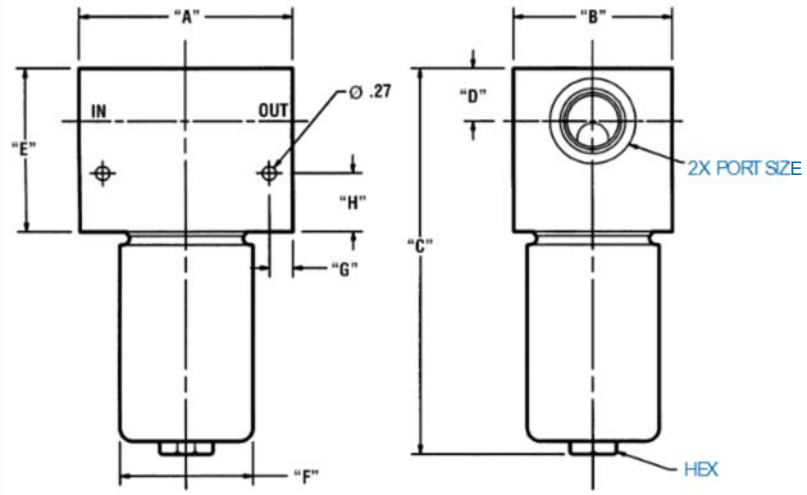
CONFORMS TO AIAG STANDARDS
FOR HF2 HYDRAULIC FILTERS

SPECIFICATIONS/ NOTES

Fatigue Pressure Rating	1,800 psi per NFPA/T.2.6.1 R1-1991
Typical Burst Pressure	15,000 psi per NFPA/T.2.6.1 R1-1991
Temperature Range (for housing only)	Nitrile: -65˚F to 225˚F (-55˚C to 107˚C) Fluorocarbon: -15˚F to 400˚F (-26˚C to 205˚C) Ethylene Propylene: -70˚F to 250˚F (-57˚C to 121˚C)
Fluid Compatibility	Nitrile Seals: Petroleum based fluids, water-oil emulsions, water-glycol Fluorocarbon Seals: Synthetic lube oils Ethylene Propylene Seals: Phosphate ester fluids, water-glycol
Materials	Head: Aluminum Bowl: Forged Aluminum
Finish	Anodize
Dry Weight	410 Series Housing: 0.5 lbs. 420 Series Housing: 1.0 lbs. 430 Series Housing: 2.0 lbs. 440 Series Housing: 3.0 lbs.

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DIMENSIONAL INFORMATION



SERIES/ DIMENSIONS	410 SERIES	420 SERIES	430 SERIES	440 SERIES
Dim "A"	1.87	2.38	3.64	4
Dim "B"	1.62	2.3	2.75	3.13
Dim "C"	3.7	6.6	6.13	7.39
Dim "D"	0.77	0.83	0.88	1
Dim "E"	2.17	2.25	2.88	3.13
Dim "F"	1.52	2.02	2.375	2.5
Dim "G"	0.31	0.31	0.32	0.44
Dim "H"	1.9	1.98	1.25	1.13
HEX Size	0.625	0.937	0.937	0.937
Ports	1/4"(SAE-4)	3/8"(SAE-6)	1/2"(SAE-8)	3/4"(SAE-12)

Note: 1.5" minimum clearance required for bowl removal.

All dimensions in inches. To convert to millimeters, multiply inches by 25.4.

REPLACEMENT ELEMENTS

ELEMENT SERIES	HOUSING SERIES	MEDIA AVAILABLE	COLLAPSE PRESSURE
1100	410	Micropleat® Microfil®III, Hi-Collapse Microfil®III and Poromesh®	150 psid, 300 psid and 3,000* psid.
1200	420		
1300	430		
1400	440		

*Note: For 3,000 psid collapse elements, consult factory.



Micropleat® Elements



Poromesh® Elements



Microfil®III Elements

410-440 SERIES

440 SERIES

430 SERIES



420 SERIES

410 SERIES

FILTER ELEMENT PERFORMANCE

1100, 1200, 1300, 1400 SERIES ELEMENTS		
MEDIA	FILTRATION RATING	AVERAGE BETA NUMBER[1]
Microfil® III & Hi-Collapse Microfil® III	1µm ABS	$ß_x \geq 200$
	3µm ABS	$ß_{3(c)} \geq 200$
	6µm ABS	$ß_{6(c)} \geq 200$
	12µm ABS	$ß_{12(c)} \geq 200$
	20µm ABS	$ß_{20(c)} \geq 200$
	25µm ABS	$ß_{25(c)} \geq 200$
Micropleat®	5µm NOM	$ß_5 \approx 2$
	10µm NOM	$ß_{10} \approx 2$
	20µm NOM	$ß_{20} \approx 2$
	40µm NOM	$ß_{40} \approx 2$
Poromesh®	2µm NOM	*
	5µm NOM	*
	10µm NOM	*
	20µm NOM	*
	40µm NOM	*

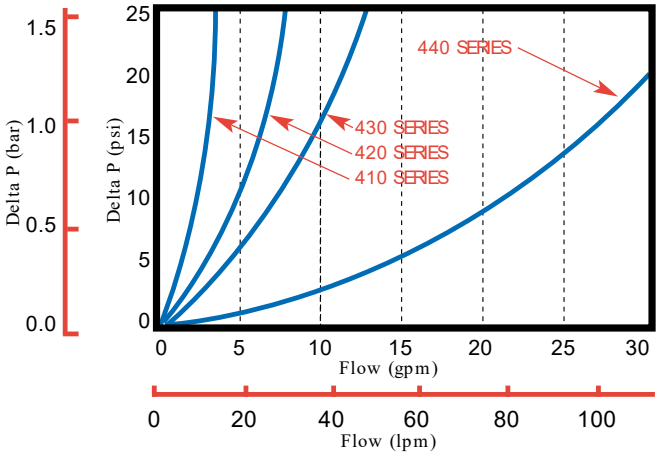
1) Testing per ISO 16889 terminal ΔP=50 psid.

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

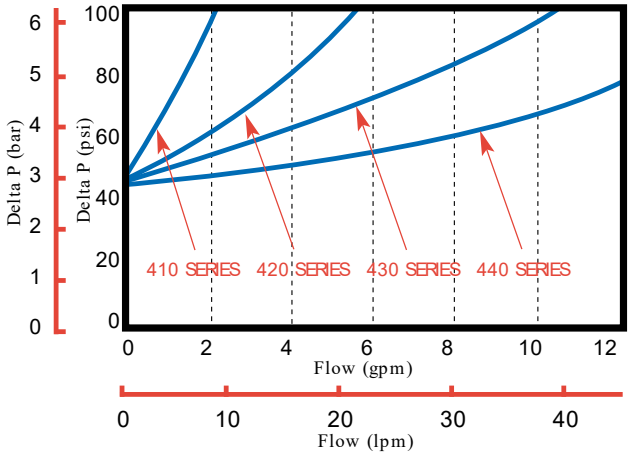
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PRESSURE DROP INFORMATION

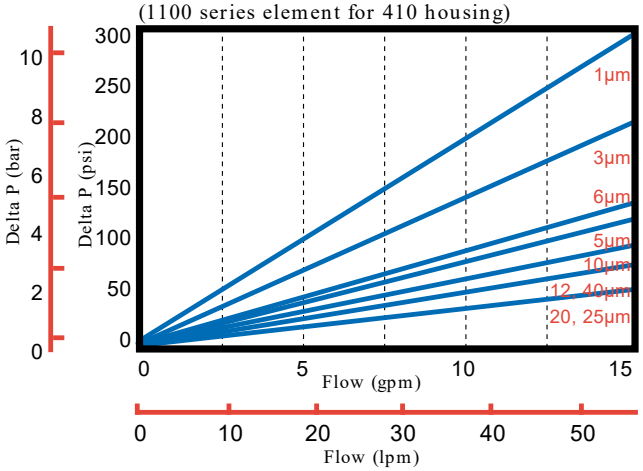
Filter Housing Pressure Drop using 150 SUS (32cst) 0.9 S.G. fluid. For 410-440 series housings. Housing pressure drop is proportional to fluid specific gravity.



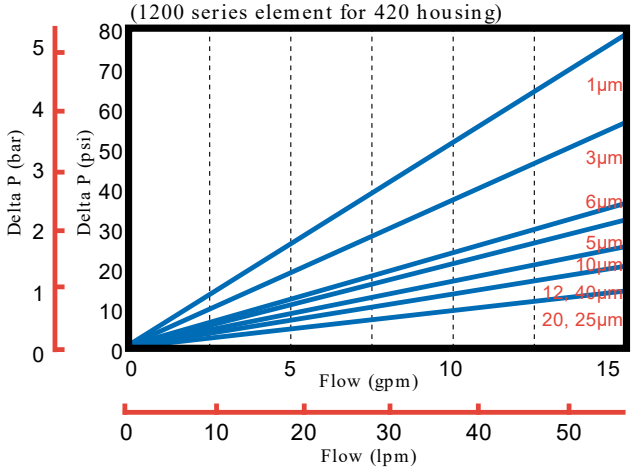
Bypass Valve Pressure Drop using 150 SUS (32cst) 0.9 S.G. fluid. For 410-440 series housings. Bypass valve pressure drop is proportional to fluid specific gravity.



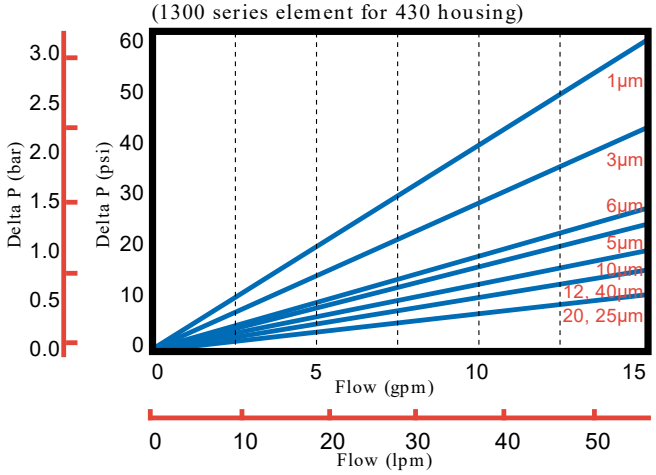
Clean Element Pressure Drop (1100 series element for 410 housing)



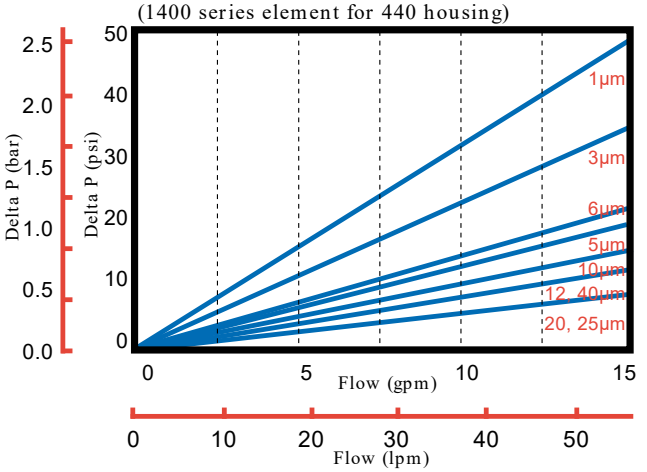
Clean Element Pressure Drop (1200 series element for 420 housing)



Clean Element Pressure Drop (1300 series element for 430 housing)



Clean Element Pressure Drop (1400 series element for 440 housing)



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.

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ORDERING INFORMATION

410-440 SERIES FILTERS

FILTER ASSEMBLY P/ N

[ ] [A1] [ ] [N] [ ] [ ] [ ] [ ]

EXAMPLE P/ N:
440 A1 B N L 03 2 N

FILTER ASSEMBLY

CODE	HOUSING SERIES	PORT SIZES
410	410 Series	1/4" (SAE-4) Straight Thread
420	420 Series	3/8" (SAE-6) Straight Thread
430	430 Series	1/2" (SAE-8) Straight Thread
440	440 Series	3/4" (SAE-12) Straight Thread

BYPASS VALVE

CODE	DESCRIPTION
N	No Bypass
B	50 psid Bypass

INDICATOR

CODE	DESCRIPTION
N	Not Available

ELEMENT COLLAPSE PRESSURE

CODE	DESCRIPTION
L	150 psid (Micropleat®, Microfil®III, Poromesh® only)
M	300 psid (Microfil®III, Poromesh®, Micropleat® only)
H	3000 psid (Hi-Collapse Microfil®III only)

SEAL MATERIAL

CODE	DESCRIPTION
N	Nitrile
F	Fluorocarbon
E	Ethylene Propylene

MEDIA

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

MEDIA MICRON RATING

MICROFIL®III and HI-COLLAPSE III(1)		MICROPLEAT®(2)		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				

(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 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.

1100-1400 SERIES REPLACEMENT ELEMENTS

ELEMENT P/ N

[ ] [EA] [ ] [ ] [ ] [ ] [1]

EXAMPLE P/ N:
1400 EA L 03 2 N 1

ELEMENTS AVAILABLE

CODE	HOUSING COMPATIBILITY
1100	410 Series Housing
1200	420 Series Housing
1300	430 Series Housing
1400	440 Series Housing

ELEMENT COLLAPSE PRESSURE

CODE	DESCRIPTION
L	150 psid (Microfil®III, Poromesh®, Micropleat® only)
M	300 psid (Microfil®III, Poromesh®, Micropleat® only)
H	3000 psid (Hi-Collapse Microfil®III only)

MEDIA MICRON RATING

MICROFIL®III and HI-COLLAPSE III(1)		MICROPLEAT®(2)		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				

ELEMENT LENGTH

CODE	DESCRIPTION
1	Single Length

SEAL MATERIAL

CODE	DESCRIPTION
N	Nitrile
F	Fluorocarbon
E	Ethylene Propylene

MEDIA

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

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