



aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



40SS Series

High Pressure Stainless Steel Filter



ENGINEERING YOUR SUCCESS.

40SS Series

Applications

Together we can...

Preserve the environment.
Minimize waste and promote energy efficiency.

Achieve worldwide filtration solutions.
Build global confidence.

Redefine new limits.
Forge ahead with advanced technology.

Keep contamination under control.
Reduce maintenance costs.

Enhance total system reliability.
Focus on customer satisfaction.

Reach optimum potential.
Drill to greater depths.

...engineer your success.

Parker engineers have developed a new stainless steel medium pressure filter for higher flow applications in a cost effective patented design. This patented element interface requires an element to be installed in order to install the filter cover, guaranteeing full-time system protection. The interface also locks the element to the cover assembly, easing element removal during maintenance cycles. The new 3,000 psi 40SS series filter is ideally suited for applications in water and caustic solutions, or where harsh environmental conditions exist.

Typical Applications

- Mining
- Oil & Gas
- Power Gen
- Marine
- Refining
- Food & Beverage
- Primary Metals
- Pulp & Paper
- Refuse



40SS Series

Specifications

Pressure Ratings:

Maximum Allowable Operating Pressure (MAOP): 3,000 psi (206 bar)

Rated Fatigue Pressure:

3,000 psi (206 bar)

Design Safety Factor:

3:1

Operating Temperatures:

Buna: -40°F (-40°C) to 225°F (107°C)

Fluorocarbon: -15°F (-26°C) to 275°F (135°C)

Element Collapsing Rating:

Standard: 300 psi (21 bar)

High Collapse: 2,000 psi (138 bar)

Materials:

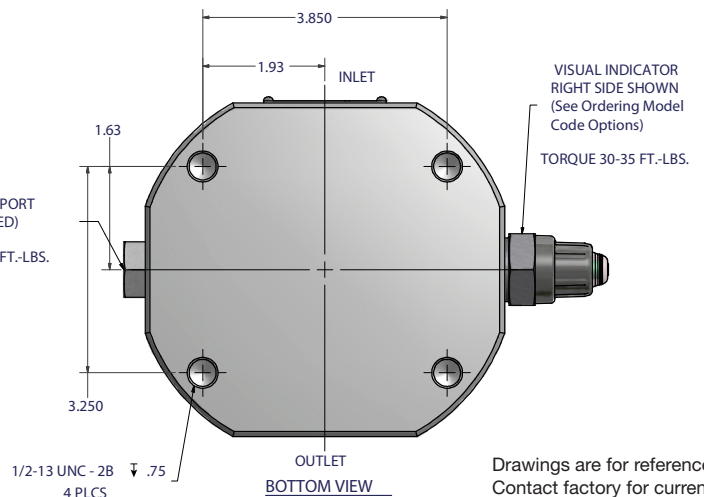
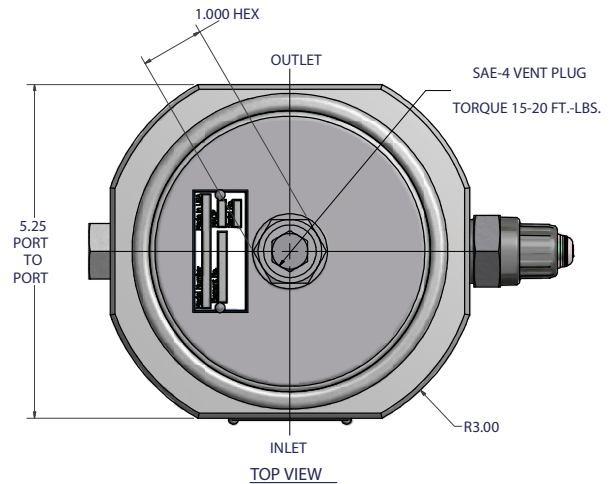
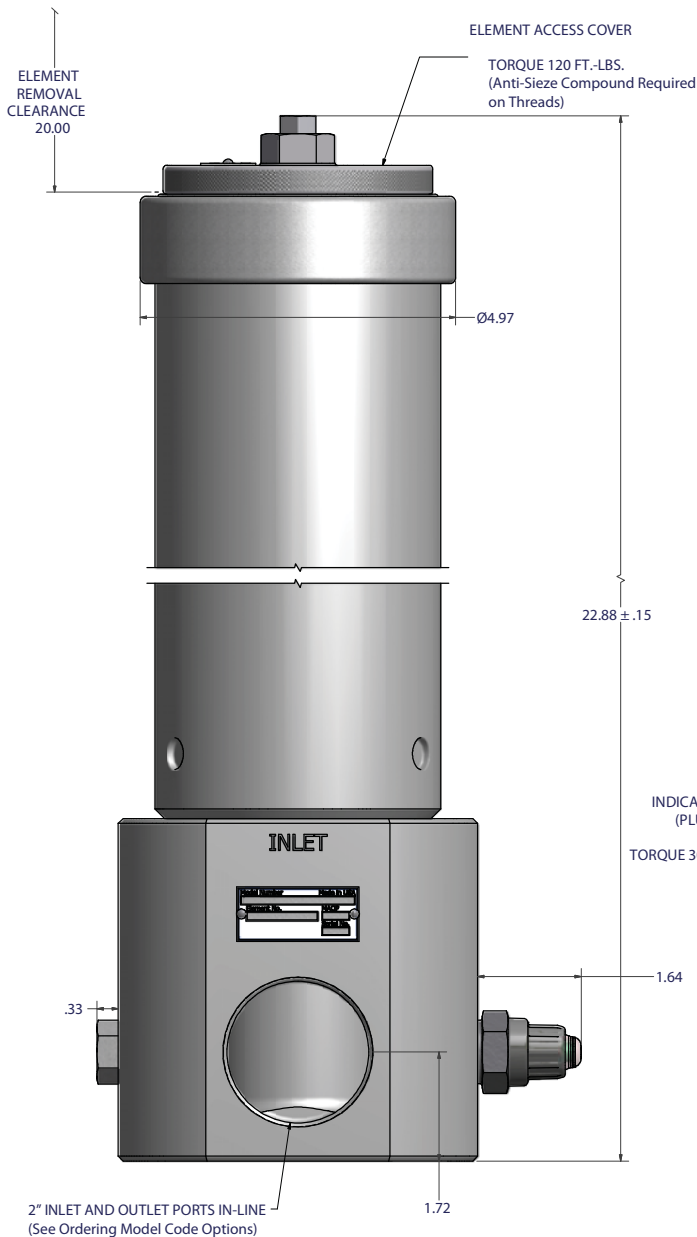
Head: Stainless Steel 304/304L

Bowl: Stainless Steel 304/304L/17-4

Cover Assembly: 17-4 Stainless Steel

Indicator: 300 Series Stainless Steel with Thermoplastic connectors

Weight (approximate): 65 lbs.



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

Assembly Note: Anti-Sieze Compound Required on all Threads

40SS Series

Features



- Patented Slip Thread Cover
Requires the Element to be Present for Cover Installation
- Bowl-Up Configuration for Ease of Element Maintenance
- Patented Element Interlock Design for Element Removal with Cover
- Stainless Steel Construction
- Large 2" Porting for Increase Flow Capacity
- Stainless Steel Visual and Visual/Electrical Indicator Options
- Integral Mounting Holes for Installation Flexibility

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

40SS Series

Parts List

Parts List			
Ref.	Quantity	Part Number	Description
1	1	942444	40SS Head - 2" BSPP
1	1	942931	40SS Head - SAE32
2	1	942735	40SS-2 Bowl
3	1	942446	40SS Slip Thread Cover
4	1	942453	M2 Stainless Steel Indicator
4	1	943079	E2 Stainless Steel Indicator
5	1	942508	Stainless Steel Indicator Plug
6	1	929007	Stainless Steel SAE-4 (Viton) Plug
7	1	942543	40SS Slip Thread Cover Back-Up Ring
8	1	V92238	40SS Slip Thread Cover Viton O-Ring
9	1	V92240	40SS Bowl Viton O-Ring
10	1	942736	40SS Bowl Back-Up Ring

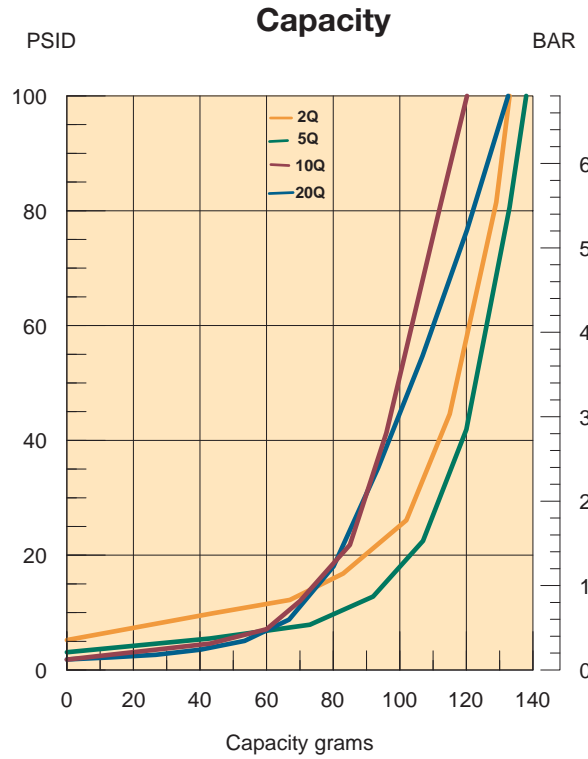
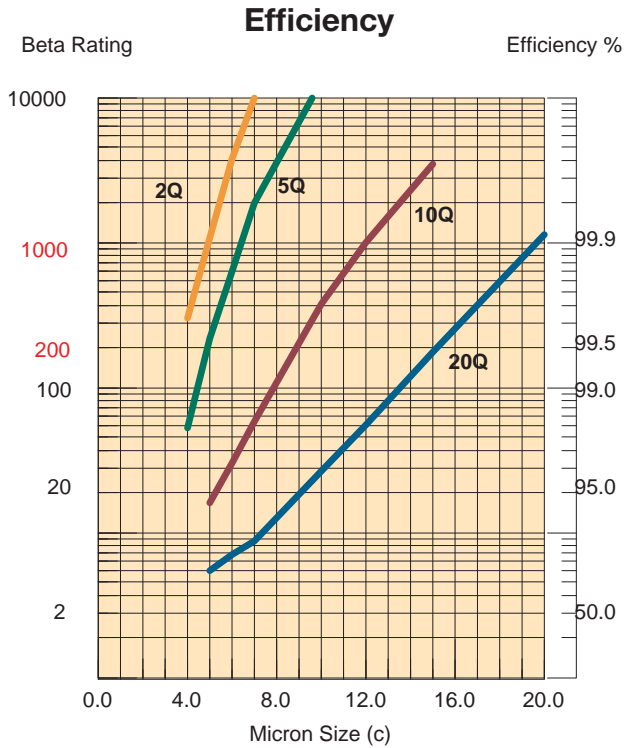


Replacement Elements		
Ref.	Part Number	Standard Element
11	942914Q	Microglass, 2 micron
11	942915Q	Microglass, 5 micron
11	942916Q	Microglass, 10 micron
11	942917Q	Microglass, 20 micron
11	942920	Wire Mesh, 25 micron
11	942921	Wire Mesh, 74 micron
Ref.	Part Number	High Collapse Element
11	942918Q	Microglass, 10 micron
11	942919Q	Microglass, 20 micron



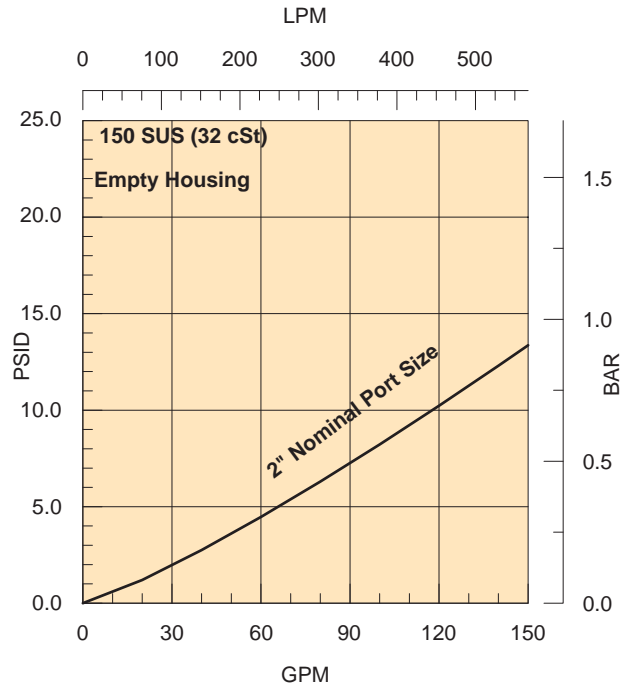
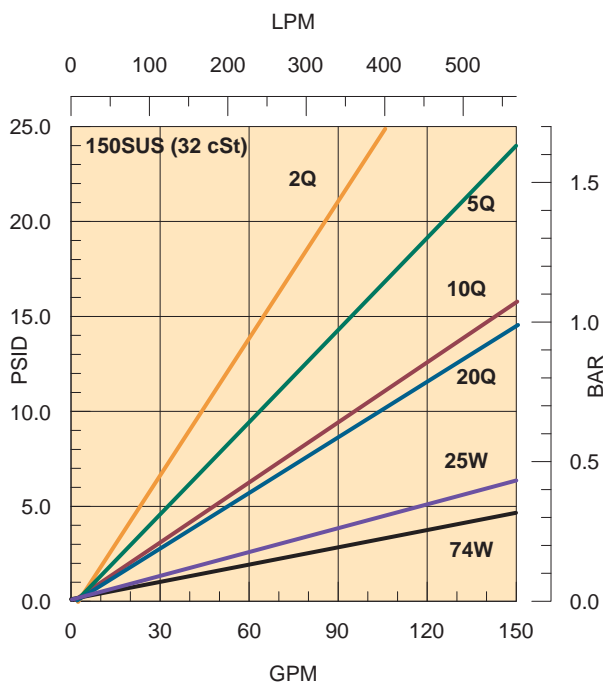
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Element Performance



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

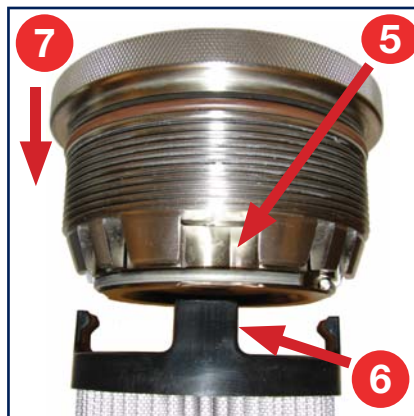
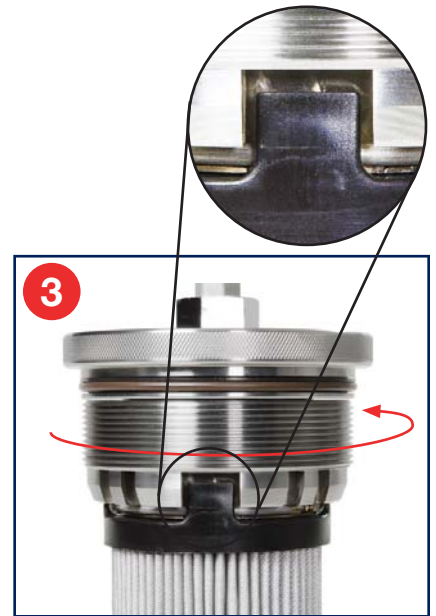
Flow vs Pressure Loss



40SS Series

Service & Maintenance Instructions

- 1 Stop system and vent pressure.
- 2 Unthread cover with element assembly attached and remove from housing.
- 3 On the cover assembly, rotate the threaded collar until the collar slots are aligned with the tabs on the element.
- 4 Pull element to remove from the cover assembly.
- 5 On the cover assembly, align slots on threaded collar with slots on inner cover.
- 6 Align tabs on the new element with the aligned slots on the cover assembly.
- 7 Push the cover assembly onto element.
- 8 Rotate the threaded collar on the cover assembly so the tabs on the element are covered.
- 9 Lubricate seals with system fluid.
- 10 Apply nuclear grade nickel antiseize lubricant, similar to McMaster-Carr P/N 1027K32 to the cover threads.
- 11 Lower cover / element assembly into housing and torque cover to 120 ft-lbs.



40SS Series

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
40SS	2	10Q	B	M2	K	S32	1

BOX 1: Filter Series ^{1,4}	
Symbol	Description
40SS	High Pressure Filter, 100 GPM

BOX 2: Element Length	
Symbol	Description
2	Double Length

BOX 3: Media Code	
Symbol	Description
Standard Element (Bypass only)	
02Q	Microglass III, 2 micron
05Q	Microglass III, 5 micron
10Q	Microglass III, 10 micron
20Q	Microglass III, 20 micron
25W	Wire Mesh, 25 micron
74W	Wire Mesh, 74 micron

High Collapse (No Bypass only)	
Symbol	Description
10QH	Microglass III, 10 micron
20QH	Microglass III, 20 micron

BOX 4: Seals	
Symbol	Description
B	Nitrile (NBR)
V	Fluorocarbon (FKM)
E ²	Ethylene Propylene (EPR)

BOX 5: Indicator	
Symbol	Description
M2	Visual
E ²	Electrical

BOX 6: Bypass/Indicator ³	
Symbol	Pressure Setting
K	50 PSI (3.5 bar)

BOX 7: Ports ⁵	
Symbol	Description
S32	SAE-32 (2-1/2" - 12 UN-2B)
G32	2" BSPP (ISO 228)

BOX 8: Options	
Symbol	Description
1	With Bypass
2	No Bypass

Notes:

1. The filter includes the element you select already installed.
2. Consult factory for current availability.
3. When "2" is selected in box 8, indicator setting is 50 psid.
4. For D.I water applications, consult factory.
5. Consult factory for additional options.

