



# 12S Series

High Pressure Filters



ENGINEERING YOUR SUCCESS.

# 12S Series

## Applications

- Offshore – High pressure and aggressive environment
- DI Water – Water fogging
- Food Processing – Caustic washdown (poultry, etc.)
- Test Stands – High pressure



## Specifications

### Pressure Ratings:

Maximum Allowable  
Operating Pressure  
(MAOP): 10,000 psi (690 bar)  
Proof: 15,000 psi (1035 bar)

### Operating Temperatures:

Fluorocarbon (FKM)  
-15°F(-26°C) - 275°F(135°C)  
Ethylene Propylene (EPR)  
-40°F(-40°C) - 225°F(107°C)

### Element Collapsing Rate:

High Collapse “H” option:  
2,000 psi (138 bar)

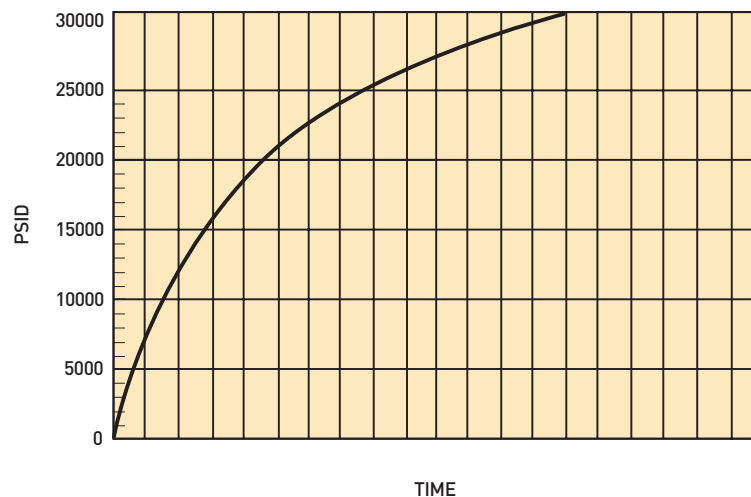
### Materials:

Head: Stainless Steel 316L  
Bowl: Stainless Steel 316L

### Weight (approximate):

**Single Length**  
14 lbs. (6.35 kg.)  
**Double Length**  
17 lbs. (7.71 kg.)

**BURST TEST**  
PROOF TEST ON FILTER HOUSING

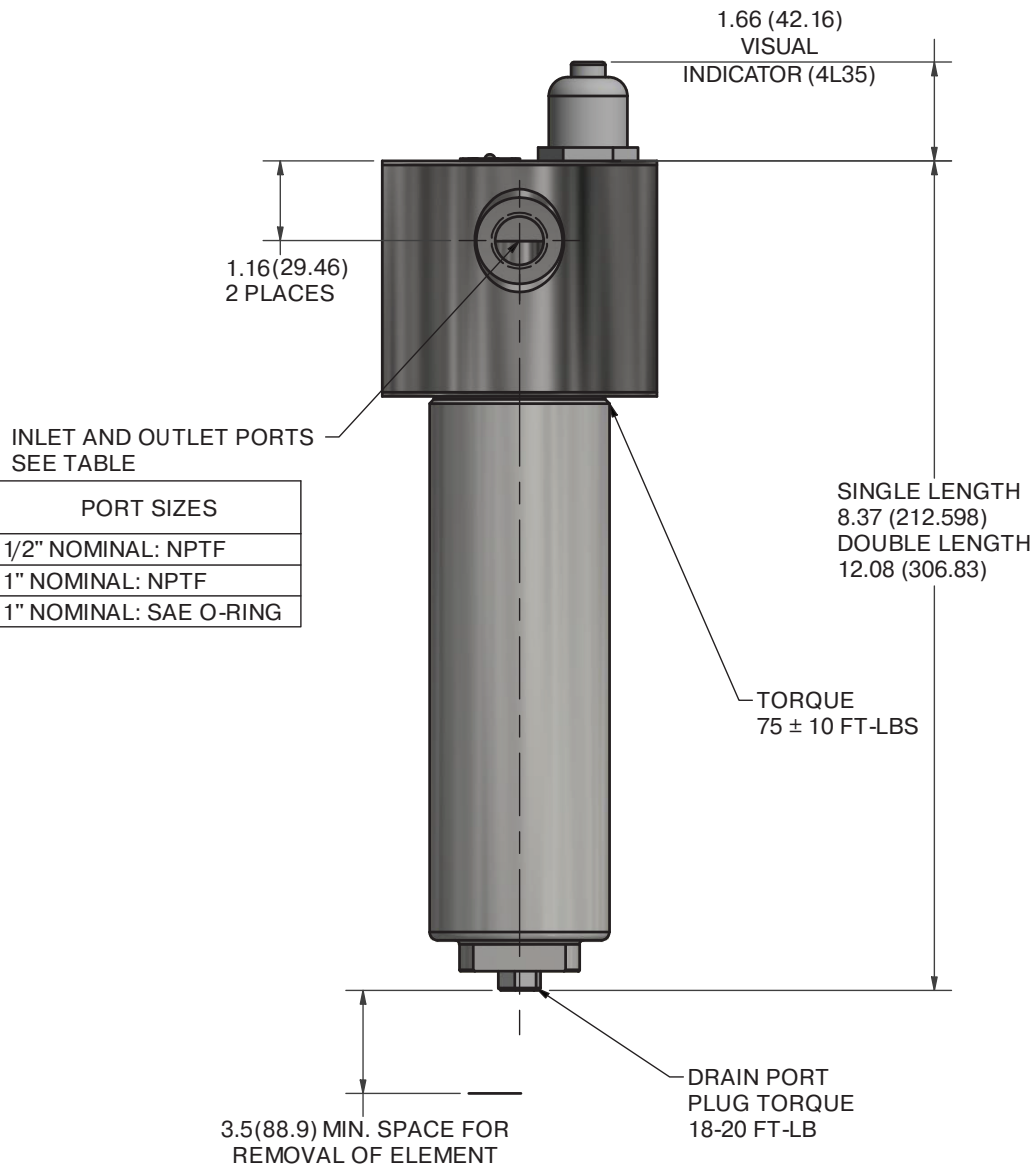
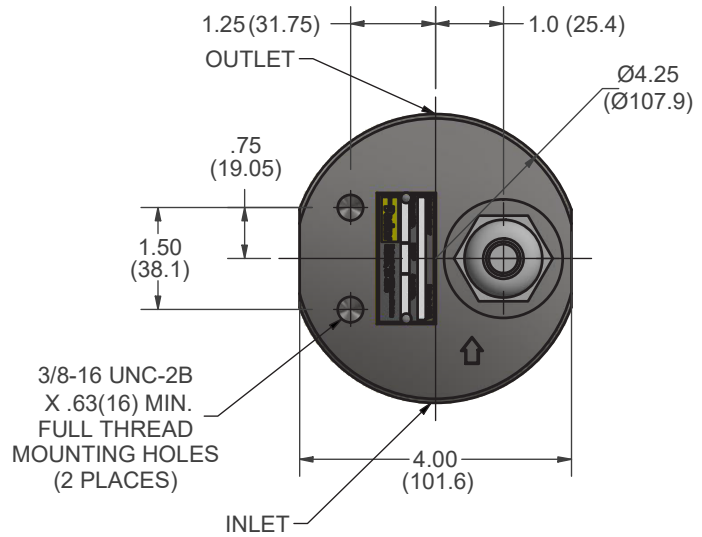


Feature	Advantage	Benefit
Lightweight	Ease of service and installation	Reduced installation cost
Porting	Flexibility	Reduction in piping and use of adaptors
Multipass tested elements (per ANSI/NFPA T3.10.8.8 R1-1990)	Filter performance backed by recognized and accepted laboratory test standards	Filters you select have known performance levels
Drain port	Drain all oil from assembly prior to servicing	Eliminates cross contamination
High strength Microglass elements	2000 psid collapse strength Multi-layer media Wire reinforced pleats	High capacity with high efficiency No performance loss from pleat bunching
100% pressure tested	Quality	Reliability

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## Specifications

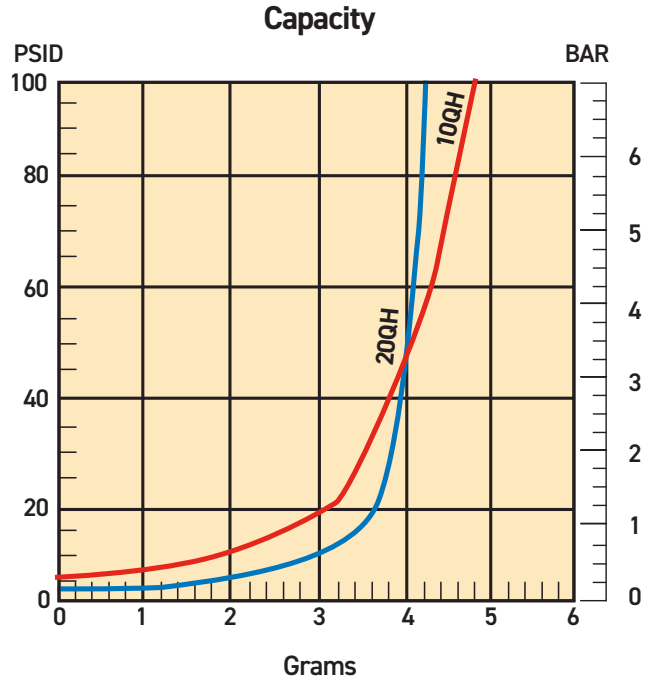
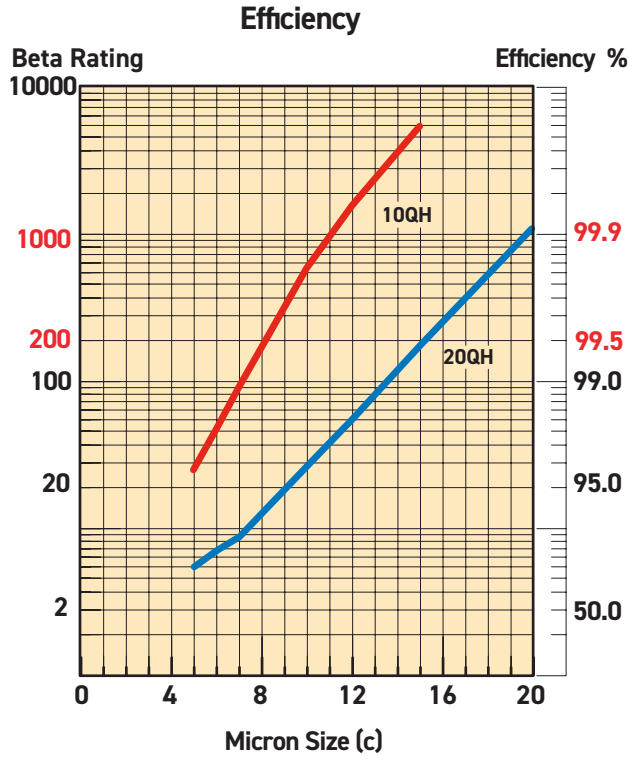
### Dimensions in (mm)



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

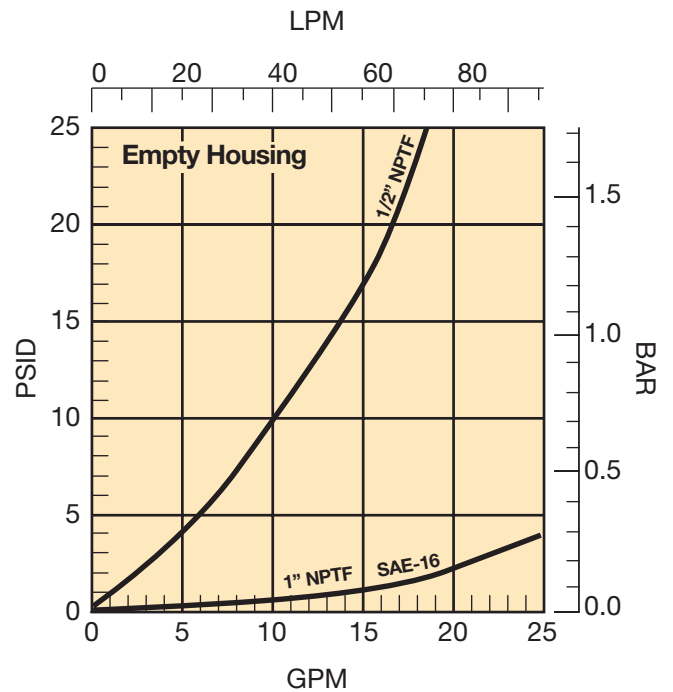
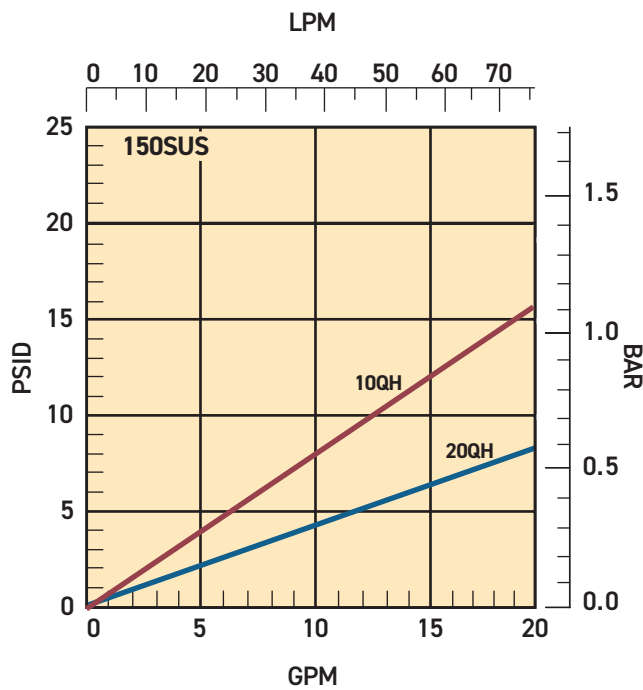
# 12S Series

## 12S-1 Element Performance



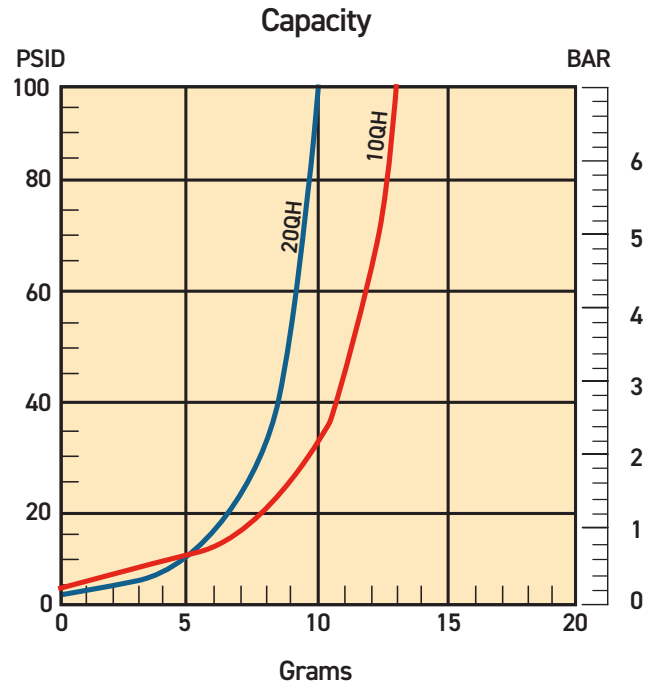
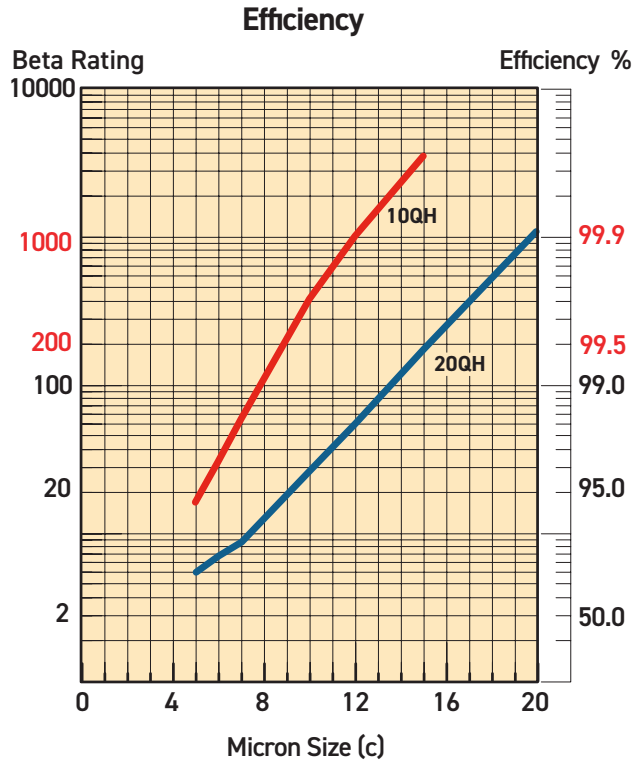
Multipass tests run @ 10 gpm to 100 psid terminal - 5mg/L BUGL

### Flow vs. Pressure Loss



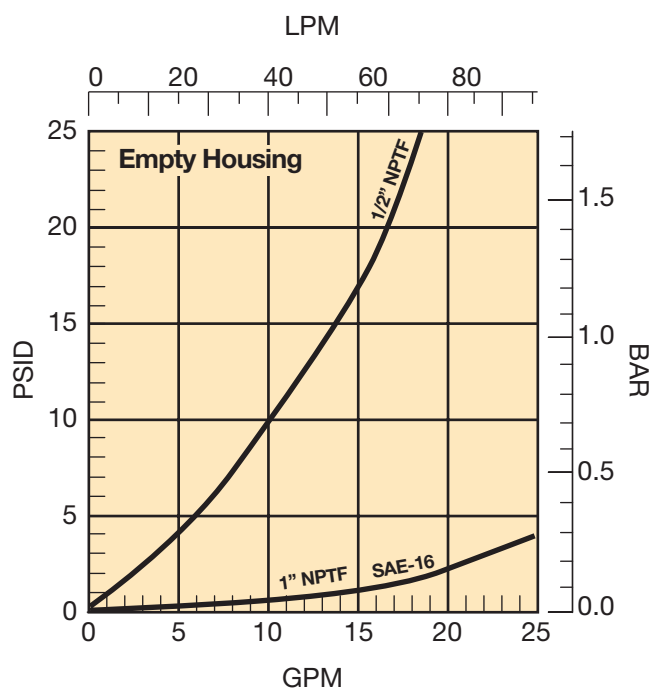
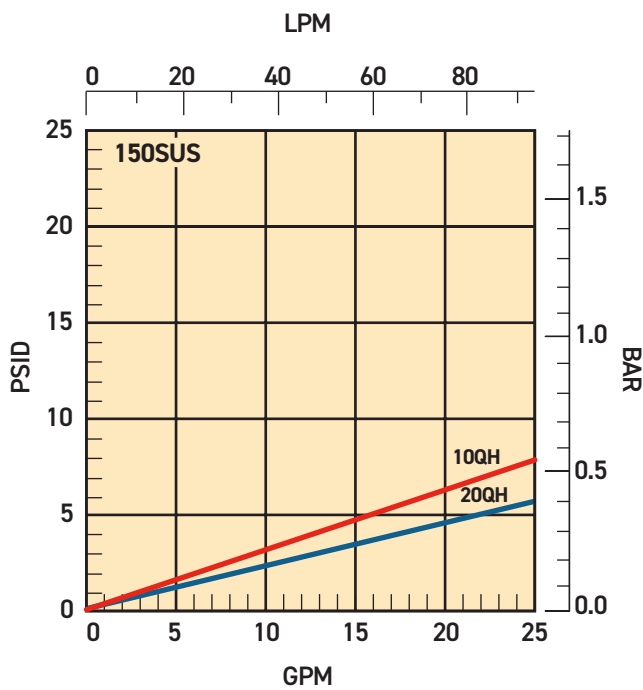
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## 12S-2 Element Performance



Multipass tests run @ 15 gpm to 100 psid terminal - 5mg/L BUGL

### Flow vs. Pressure Loss



# 12S Series

## Parts List

Ref.	Part Number	Description
1	403411	Head, ½" NPT no indicator port
	403499	Head, ½" NPTF w/ indicator port
	937016	Head, 1" NPTF w/ indicator port
	937465	Head, SAE-16 w/ indicator port
	937512	Head, 1" NPTF no indicator port
	943392	Head, SAE-16 no indicator port
2	403409	Bowl - Double
	403410	Bowl - Single
3	929007	Drain Plug - SAE-4 w/O-Ring (Fluorocarbon)
	930130	Drain Plug - SAE-4 w/O-Ring (Ethylene Propylene)
4	V93904	Drain Plug O-Ring - (Fluorocarbon)
	E83904	Drain Plug O-Ring - (Ethylene Propylene)
5	V92138	Bowl O-Ring - (Fluorocarbon)
	E82138	Bowl O-Ring - (Ethylene Propylene)
6	V93908	Indicator Plug O-Ring - (Fluorocarbon)
	E83908	Indicator Plug O-Ring - (Ethylene Propylene)
7	V72014	Indicator Plug O-Ring - (Fluorocarbon)
	E82014	Indicator Plug O-Ring - (Ethylene Propylene)
8	4L35-1SH	50 PSI Visual Indicator - (Fluorocarbon)
	4L35-1SB	50 PSI Visual Indicator - (Ethylene Propylene)
9	Element	See Replacement Elements Table



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

# 12S Series<sup>1</sup>

## High Pressure Filters

### 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
12SMP	1	20QH	V	4L35	N	8	21

BOX 1: Basic Assembly	
Symbol	Description
12SMP	10,000 psi MAOP (316 SS)

BOX 2: Element Length	
Symbol	Description
1	Single
2	Double

BOX 3: Media Code <sup>2,3</sup>	
Symbol	Description
10QH	Microglass, 10 micron
20QH	Microglass, 20 micron

BOX 4: Seals	
Symbol	Description
V	Fluorocarbon
E <sup>4</sup>	Ethylene Propylene

BOX 5: Indicators	
Symbol	Description
N	No indicator, no pressure port
4L35	Visual manual reset, 50psid

BOX 6: Port Type <sup>3</sup>	
Symbol	Description
S <sup>5</sup>	SAE O-ring
N	NPTF

BOX 7: Port Size	
Symbol	Description (Port Type)
8	1/2" nominal (N)
16	1" nominal (S, N)

BOX 8: Options	
Symbol	Description
21	No bypass w/ 1/4" SAE-4 drain port

#### Notes:

- Filters include the element you select already installed.
- Element collapse rating is 2000 psid.
- For other options contact the division.
- Recommended for DI water applications.
- 6,000 psi MAOP

### Replacement Elements<sup>3</sup>

	Media	Microglass (Fluorocarbon)		Microglass (Ethylene Propylene)	
		Single	Double	Single	Double
No-bypass	10QH	403399	403403	403484	403487
	20QH	403400	403404	403485	403488

