

# FILTRATION | SEPARATION | PURIFICATION



# **Product Specifications**

Media: Borosilicate Microfiberglass

with Acrylic Binder Core/Cage: 304 SS

Support Layers: Polyester End Caps: 304 SS with epoxy bond

Gaskets/O-Rings:

Buna-N, EPDM, Silicone, Teflon, Viton

Micron rating: 0.2, 0.45, 1, 10, 30 μm

#### **Dimensions**

### Nominal lengths:

9.75" 10" 20" 30" 40" 24.8 25.4 50.8 76.2 101.6 cm

Outside diameter: 2.55" (6.86 cm) Inside diameter: 1.0" (2.54 cm)

# **Operating Parameters**

**Maximum operating** temperature: 250°F (121°C)

Maximum differential pressure: 75 psid @ 250°F (5.2 bar @ 121°C)

Maximum reverse pressure: 30 psid @ 70°F (2.0 bar @ 21°C)

Recommended change-out pressure:

35 psid (2.4 bar)

# **GSS<sup>™</sup> Series Filter Cartridges**

# **High Temperature** Glass Fiber Cartridges

This high efficiency, economical filter element is constructed of pleated Borosilicate Microfiberglass media to combine excellent flow rates with exceptional service life. The 304 stainless steel core and end caps of the GSS filter cartridge provide excellent thermal tolerance for for higher temperature applications. The 90% nominally-rated borosilicate microfiber depth matrix has a natural positive charge that aids in the retention of negatively charged particles, and combined with the depth characteristics of glass media, works well in the removal of both deformable and non-deformable particles. The GSS filter cartridge is an economical solution for both liquids and gases in a wide variety of filtration applications.

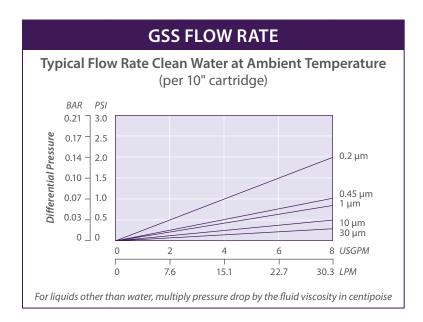
# **FEATURES & BENEFITS**

- 304 stainless steel center core and end caps allows for high temperature applications
- Micron ratings from 0.2 to 30 μm Broad application range
- Uniform pore size High removal efficiency
- High surface area High flow capability and dirt holding capacity
- Long service life Minimizes maintenance costs
- Small diameter fibers High flow rates at low pressure drops

# TYPICAL APPLICATIONS

- Petrochemicals
- Injection Wells
- Discharge Water
- Boiler Water
- · Oil & Gas
- · Lube Oil

GSS NOMENCLATURE INFORMATION											
Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration			Gasket or O-Ring			
GSS Series	0.2 0.45 1	10 30	-9.75 -10 -19.5 -20	-29.25 -30 -39 -40	Р	Double Open End	B E S T	Buna-N EPDM Silicone Teflon (gaskets) Viton			
Example: GSS 1–10PB GSS 1			-10		Р		В				



REMOVAL EFFICIENCY											
Beta Ratio Efficiency	Beta 10 90%	Beta 20 95%	Beta 100 99%	Beta 1000 99.9%	Beta 5000 99.98%						
0.2 μm	0.2	0.3	0.6	0.8	1.0						
0.45 μm	0.45	0.6	0.8	1.8	2.0						
1 μm	1.0	1.3	2.0	3.5	4.0						
10 μm	10.0	12.0	15.0	17.0	18.0						
30 μm	30.0	35.0	38.0	42.0	45.0						

Beta Ratio = 
$$\frac{\text{Upstream particle counts}}{\text{Downstream particle counts}}$$

The micron ratings shown at various efficiency and beta ratio value levels were determined through laboratory testing, and can be used as a guide for selecting cartridges and estimating their performance. Under actual field conditions, results may vary somewhat from the values shown due to the variability of filtration parameters.

Testing was conducted using the single-pass test method, water at 2.5 gpm/10" cartridge. Contaminants included latex beads, coarse and fine test dust. Removal efficiencies were determined using dual laser source particle counters.

# FOR MORE INFORMATION

GTX-368 8-20

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