

GSS-Series Cylindrical & Pleated Stainless Steel

Global Filter's GSS-Series cylindrical and pleated stainless steel filter elements offer an excellent filtration solution for applications with extreme thermal ranges and differential pressures while providing excellent contaminant holding capacity and efficiency. The GSS-Series elements are constructed entirely with 316L stainless steel, which not only provides excellent strength and resistance in extreme applications, but allows for easier and repeated cleaning cycles without compromising product integrity. Available in micron ratings ranging from 1.0 to 200.0 and particulate retention up to 99.0%, the GSS-Series elements are available in four robust configurations to accommodate a variety of applications: Cylindrical Woven Mesh (SSC), Pleated Woven Mesh (SSP), Powdered Sintered Cylindrical (SSSC), and Sintered Pleated Woven (SSSP).

Flow Rate vs Pressure Drop (per 10" length in water)

Type	Micron Rating	Flow GPM (LPM)	Pressure Drop PSID (bar)
SSC	5.0	2.0 (7.5)	1.5 (0.10)
SSP	5.0	6.0 (22.7)	0.5 (0.03)
SSSC	5.0	1.0 (3.7)	1.5 (0.10)
SSSP	5.0	4.0 (15.1)	0.5 (0.03)
SSC	50.0	4.0 (15.1)	0.5 (0.03)
(SSP)	50.0	8.0 (30.2)	0.1 (0.01)
SSSC	50.0	6.0 (22.7)	0.1 (0.01)

Food Safety Compliance

Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations, 21CFR.

Ordering Information

G	Type	Rating (µ)	Retention	Length	Cage	End Cap Style	O-Rings
	SSC	1.0	A = Absolute	10" (25.4 cm)	N = No Cage	2 = DOE Flat Gasket	B = Buna
	SSP*	2.0		20" (50.8 cm)	C = Caged	3 = 222 w/Fin	E = EPDM
	SSSC	5.0		30" (76.2 cm)		4 = 222 w/Flat Cap	S = Silicone
	SSSP*	10.0		40" (101.6 cm)		6 = 226 w/Flat Cap	V = Viton®
		20.0				7 = 226 w/Fin	
		50.0				30 = 1" MNPT w/ Hex Nut	
		100.0				32 = Code 32 w/ Flat Cap ¹	
		150.0				33 = 1" MNPT w/ Flat Cap	
		200.0				34 = 1.5" MNPT w/ Flat Cap	
		465.0					

*Pleated stainless steel elements are constructed with an outer cage as standard.

DISCLAIMER: Filtration data presented is representative of performance observed in controlled laboratory testing. It is not given as a warranty, specification or statement of fitness for use. Specific performance can vary widely depending on contaminant type, fluid properties, flow rates and environmental conditions. It is recommended that users conduct thorough qualification testing to assure the product functions as required. For additional technical support, a product Performance Guide is available upon request.

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Typical Applications

- Cryogenic Fluids
- Aggressive Chemicals
- High Pressure Steam
- Polymers
- Corrosive Gases
- High Temp Fluids

Construction Materials

Filtration Media	316L SS
Support Media	316L SS
Outer Cage (if used)	316L SS
High Pressure Core	316L SS
End Caps	316L SS
Bonding	Welded
O-Ring/Gasket	Buna, EPDM, Silicone, Viton®

Note: Buna-N and EPDM elastomers have a temperature limit of 250°F. Silicone and Viton® can tolerate up to 400°F.

SSC = Stainless Steel Cylindrical Woven Mesh

SSP = Stainless Steel Pleated Woven Mesh*

SSSC = Stainless Steel Sintered Cylindrical (Powdered)

SSSP = Stainless Steel Sintered Pleated*

*Pleated stainless steel elements are constructed with an outer cage as standard.

Dimensions (nominal)

Length 10 to 40 in (25.4 to 101.6 cm)

Outside Diameter 2.5 in (6.4 cm)

¹ End cap style 32 (Code 32 w/ Flat Cap) matches Donaldson's UF and Parker's H-Style end cap configurations. Due to endcap dimensions, filters built with the Code 32 have an element outside diameter of 2.7 inches (6.9 cm).



Operating Conditions

Change Out ΔP (recommended) 60 PSID (4.1 bar)

Temperature (max) 250°F (121°C)
Buna-N & EPDM seals

Temperature (max) 400°F (204°C)
Silicone & Viton® seals

Differential Pressure (max) 90 PSID at 250°F
(6.2 bar at 121°C)

Type	Area ft² (cm²)
SSC	0.54 (502)
SSP	2.05 (1905)
SSSC	0.54 (502)
SSSP	3.98 (3698)