

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)
SSSP	50.0	6.0 (22.7)	0.1 (0.01)

Typical Applications

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

Construction Materials

Filtration Media316L SS
Support Media316L SS
Outer Cage (If Used)316L SS
High Pressure Core316L SS
End Caps.....316L SS
BondingWelded
O-Rings/Gaskets 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 Woven*

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

Dimensions

Length: 10 to 40 inches (25.4 to 101.6 cm) nominal

Outside Diameter: 2.5 inches (6.4 cm) nominal

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) for Buna-N & EPDM seals

Temperature (max)400°F (204°C) for Silicone and Viton®

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

Effective Filtration Area (per 10")

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

Ordering Information

G	Type	Rating (μ)	Retention	Length	Cage	End Cap Style	O-Rings/Gaskets
	SSC	1.0	A = Absolute	10" (25.4 cm)	N = No Cage	2 = DOE Flat Gasket	B = Buna (standard)
	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	

*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.

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