

HQ Optimal stainless steel filter cartridges composed of stainless steel fibers sintered from coarse to fine grade pore size, which are characterized with absolute-rated retention efficiency, high porosity, and high dirt holding capacity. In addition, the pleated construction provides a large effective filtration area.



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TYPES OF CARTRIDGES

- **P** - PLEATED STAINLESS STEEL WIRE CLOTH FILTER ⁽¹⁾
- **W** - PLEATED STAINLESS STEEL WITH OUTER CAGE ⁽²⁾
- **S** - STAINLESS STEEL WIRE CLOTH SINTERED FILTER ⁽³⁾
- **M** - STAINLESS STEEL MESH ⁽⁴⁾



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NEFITS

- Micron rating from 1 to 200µm (depending on the type of media cartridge).
- Wide chemical compatibility: Cartridges can resist strong acid, alkaline and ozone oxidation
- Cartridges can be reused, as they can be backwashed and cleaned by chemical solvent , hot water and steam
- Welded construction eliminates the need for adhesives which can be a contaminant source
- Different seal configurations allow for retrofitting
- TYPICAL APPLICATIONS
 - Food & beverage: Viscous liquid with high temperature
 - Pharmaceuticals: Pre-filtration and decarbonized filtration
 - Fine chemicals: Strong acid and alkaline filtration

FEATURES AND BE-

TECHNICAL SPECIFICATIONS

EFFECTIVE FILTRATION AREA
1.7 ft² / 1580cm² - 10" / 254mm

MATERIALS OF CONSTRUCTION

- Filter media: 316 stainless steel wire mesh
- Structural components: 316 stainless steel
- Construction method: Welded (no adhesives)

OPERATING CONDITIONS

Operating Temperature	-75°C ~ +480°C / -103°F ~ 896°F
Maximum Differential Pressure	5bar / 72.5psi 2.bar / 29psi

Removal ratings (Liquid μm)	Removal ratings (Air μm)	Porosity (%)	Dirt holding capacity (mg/cm ²)	Average air penetrability (L/cm ² min)	Liquid flow rate (m ³ /h)
3.0	0.5	70%	7.9	10	0.8
5.0	1	75%	5.0	47	1.3
7	1.5	76%	6.5	63	1.6
10	2	75%	7.8	105	2.0
25	16	80%	19.0	355	2.5
40	25	-	-	-	-
60	45	-	-	-	-

FLOW CAPACITY

Cartridge	Steam flow (1 barg)	
	ΔP=100mbar	ΔP=200mbar
ST, 3μm, 2"	24kg/H	48kg/H
ST, 3μm, 5"	51kg/H	96kg/H
ST, 3μm, 10"	120kg/H	240kg/H



CARTRIDGE CLEANING METHODS

Pharmaceutical, food & beverage industries	Hot water flush; steam clean; water backwash; brush clean; compress air blow
Chemical industry	Chemical solvent clean; ultrasonic cleaning, high pressure water spray rinsing; acid dipping

ORDERING INFORMATION

ST	MEDIA	MATERIAL	LENGTH	MICRON	END CAP (inf)	END CAP (sup)	GASKETS
	S - Sintered steel	4 - InoX304	05 - 5"/127mm	001 - 1μm	B - DOE with Gaskets	F - Flat	S - Silicone
	P - Pleated steel mesh	6 - InoX316	10 - 10"/254mm	002 - 2μm	D - 222	S - Spear	E - EPDM
	W - Pleated steel with cage	6L - InoX316L	20 - 20"/508mm	005 - 5μm	C - 226		V - Viton
	M - Steel Mesh		30 - 30"/762mm	007 - 7μm	M - Thread 1 1/2"		T - Teflon
			40 - 40"/1016mm	010 - 10μm	T - Truseal		
				025 - 25μm			
				040 - 40μm			
				060 - 60μm			