



NEEL Industrial™
SOLUTIONS PVT.LTD
Technology for process line

DIVISION FILTRATION SOLUTION



FILTER HOUSING

Product Overview

Sanitary Filter Housings are designed for high-purity liquid filtration in industries where product cleanliness, sterility, and regulatory compliance are critical. These housings accommodate single or multiple filter cartridges (5", 10", 20", 30", or 40" length) in various configurations and are ideal for pharmaceuticals, food, beverage, and biotech applications. Manufactured from SS 316L with a polished internal finish, they ensure hygienic performance, easy cleaning, and minimal contamination risk.

Key Features

- **High-Grade Material:** Fabricated from SS 316L with electro polished finish ($Ra \leq 0.4 \mu\text{m}$).
- **Multi-Cartridge Design:** Available in single, double, or multi-cartridge formats for higher flow rates.
- **Flexible Configurations:** Compatible with DOE, Code-7, and other international cartridge formats.
- **CIP/SIP Compatible:** Fully designed for Clean-In-Place and Sterilize-In-Place procedures.
- **Hygienic End Connections:** TC-Clamp, DIN, SMS, and flange options available.
- **Pressure Temperature Resistant:** Suitable for high-pressure and high-temperature applications.
- **Quick Change-Out Design:** Clamp-type closures for easy cartridge replacement and reduced downtime.
- **Compliance:** Meets ASME BPE, FDA, 3A, and cGMP guidelines.

Types of Filter Housing

- T-Type Filter Housing
- Air Vent Filter Housing
- Electric Jacketed Filter Housing,
- Inline Filter Housing
- Multi Cartridge Filter Housing

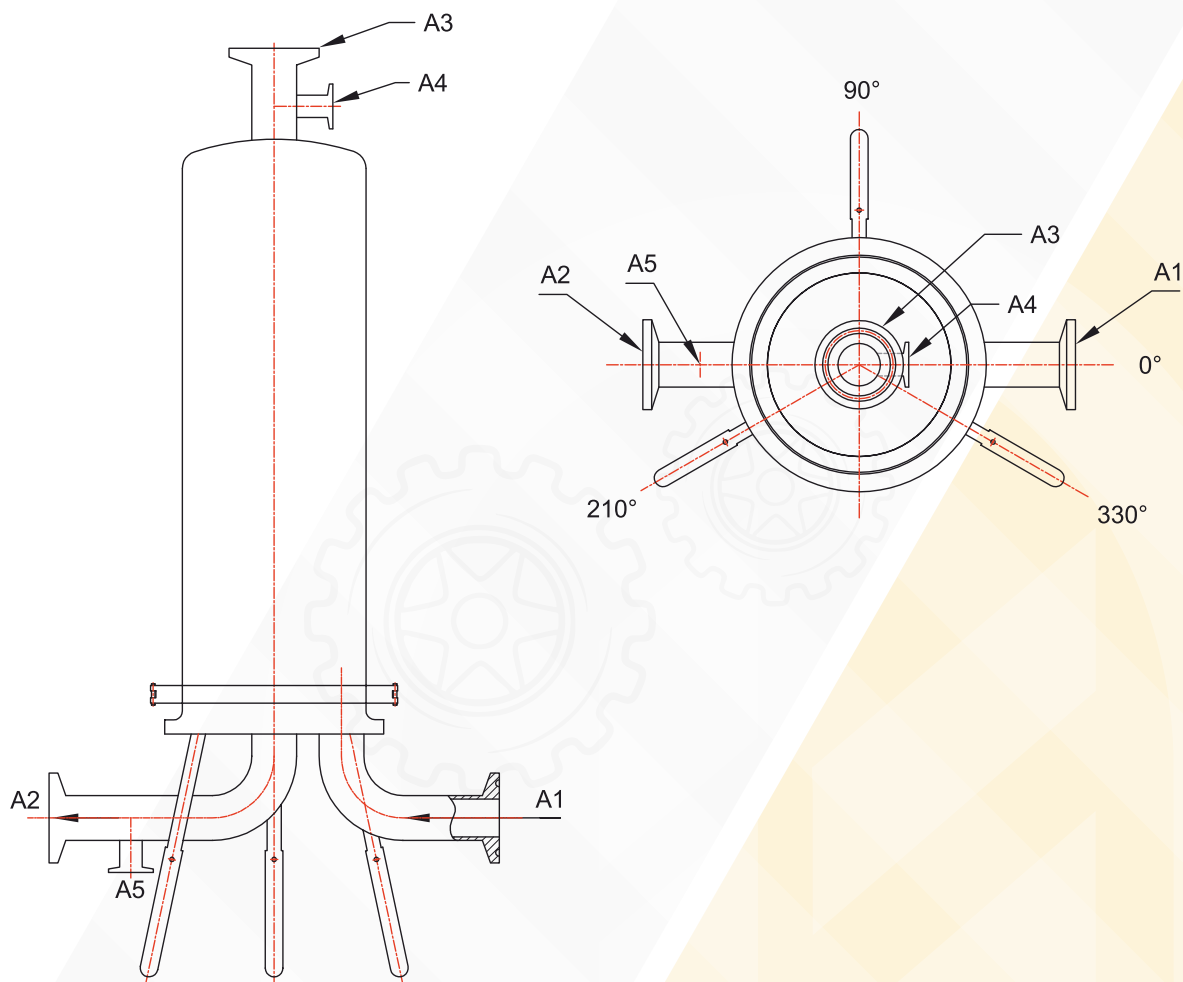
Benefits

- **Sterile and Contamination-Free Filtration:** Ensures product integrity in critical environments.
- **Operational Flexibility:** Can handle a wide range of flow rates and process demands.
- **Lower Downtime:** Fast cartridge change-outs and easy cleaning reduce production halts.
- **Reliable Performance:** Precision-engineered for consistent quality and long service life.
- **Regulatory Assurance:** Compliant with global pharmaceutical and food industry standards.

Applications

- **Pharmaceuticals & Biotech:** Final filtration, buffer prep, vaccine processing.
- **Food & Beverage:** Filtration of dairy, juices, beer, syrups, and mineral water.
- **Cosmetics & Personal Care:** Filtration of lotions, perfumes, and oils.
- **High-Purity Water Systems:** WFI, RO/UF systems, and condensate polishing.
- **Chemical Industry:** Filtration of solvents, acids, and fine chemicals.





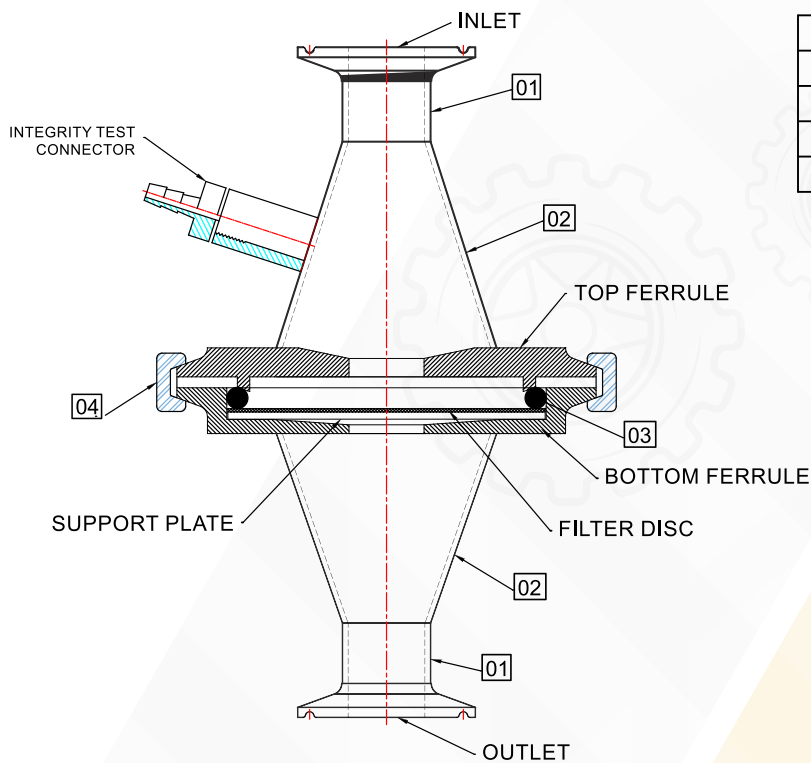
Technical Data

No. Of Cartridges	Up to 25 Nos, (Customizable as per requirement)
Cartridge Length	5", 10", 20", 30", 40"
Flow Rate	Up to 100 m ³ /hr, (Customizable as per requirement)
Cartridge Fitment	Plug - in / code 7, DOE, Etc
Design Code	ASME section VIII Division 1
MOC	Stainless Steel Grade - 304, 304L, 316, 316L, C22 and Special alloy
Pressure Rating	1 bar - 15 bar
Temperature Rating	-25°C to +65°C more on request
Connection Size	½" - 4"
Connections	Flange, Tri-Clover Clamp, Socket
Sealing Material	EPDM, Silicon, Viton, PTFE
Lifting Device	Lifting Handle, Lifting Lug
Vessel Support	Legs, Tripod
Surface Finish	Internal ≤ 0.38µm Ra and External ≤ 0.5µm Ra, as per requirement Electro Polished / Matt Finish.

CONICAL FILTER HOUSING

Product Overview

Sanitary Conical Filters are engineered for efficient filtration in critical hygienic environments. These filters are designed with a conical shape to enhance flow distribution and sediment collection, making them ideal for batch and continuous process operations. Built from premium stainless steel, they offer durability, cleanability, and compliance with stringent industry standards such as FDA and cGMP.



PART NO	DESCRIPTION	M.O.C.	QTY.
01	TC FERRULE	SS316L	02 NOS.
02	CONICAL DISH	SS316L	02 NOS.
03	'O' RING	SILICONE	01 NO.
04	TC CLAMP	SS304	01 NO.



Conical Filter Housing

Key Features

- **Sanitary Construction:** Fabricated from food-grade SS 316L for superior corrosion resistance and cleanability.
- **Hygienic Connections:** Equipped with Tri-Clamp, DIN, or SMS fittings for easy integration and disassembly.
- **Regulatory Compliance:** Designed to meet FDA and cGMP standards for sanitary processing environments.
- **Robust Design:** Engineered to withstand high temperatures, pressure, and aggressive cleaning agents.
- **Optimized Flow Path:** Conical geometry ensures efficient sediment capture and minimal hold-up volume.
- **Polished Finish:** Internal surface $Ra \leq 0.4 \mu m$ for easy CIP/SIP compatibility and bacterial control.
- **Conical Filter Sizes :-** ½", ¾", 1" 1.5", 2" 2.5" 3" 4". (Custom sizes available on requirement)
- **End Connection:-** TC End, ASA 150# Flange, DIN Flange, (Other connections available upon request)
- **MOC:-** Stainless steel Grade – SS 304, SS 304L, SS 316, SS 316L, Hastelloy C 22, (Other special alloys available as per requirement)

Benefits

- **Reduced Downtime:** Quick disassembly and cleaning reduce process interruption.
- **Low Maintenance:** Ergonomic design minimizes maintenance time and cost.
- **Reliable Product Integrity:** Maintains purity and sterility in sensitive applications.
- **Extended Equipment Life:** Durable construction ensures long-term performance in harsh environments.
- **Improved Process Efficiency:** Smooth internal finish and conical design support faster filtration cycles.

Applications

- **Pharmaceuticals Manufacturing:** API filtration, sterile liquids, excipients.
- **Food & Beverage Processing:** Juice, dairy, beer, and syrup filtration.
- **Biotechnology:** Culture media, fermentation broth, cell harvesting.
- **Water Treatment:** Pre- and post-filtration for high-purity systems.
- **Chemical Processing:** Fine filtration of solvents, acids, and intermediates.

BAG FILTER HOUSING

Product Overview

Sanitary Bag Filter Housings are designed for high-purity liquid filtration, ensuring sterile and contamination-free processing. These housings support single or multi-bag configurations, providing efficient particulate removal while maintaining product integrity. Built to meet the rigorous standards of pharmaceutical, biotech, and food industries.

Key Features

- **Hygienic Design:** Engineered to meet strict sanitary compliance.
- **Micron Flexibility:** Compatible with bag filters from 0.2µm to 1000µm.
- **High-Grade Material:** Fabricated from SS 316L with electropolished finish ($Ra \leq 0.4\mu\text{m}$).
- **CIP/SIP Compatible:** Designed for Clean-In-Place & Sterilize-In-Place procedures.
- **Custom-Built Options:** Multiple inlet/outlet configurations, pressure ratings, and finishes.
- **Quick Change-Out:** Ergonomic clamp design enables fast bag replacement.
- **Optimized Flow Dynamics:** High flow rates with minimal pressure drop.
- **Standard Compliance:** Conforms to FDA, ASME BPE, 3A, and cGMP guidelines.
- **Bag Filter Sizes :-** 7"dia x 32" ,long 7"dia x 17" long, 4"dia x 20" long. (Custom sizes available on requirement)
- **End Connection:-** TC End, ASA 150# Flange, NPT , BSP , DIN Flange, (Other connections available upon request)
- **MOC:-** Stainless steel Grade – SS 304, SS 304L, SS 316, SS 316L, Hastelloy C 22, (Other special alloys available as per requirement)

Benefits

- **Sterile Filtration Assurance:** Delivers contamination-free processing, critical for high-purity applications.
- **Enhanced Process Reliability:** Maintains hygiene integrity in pharmaceutical and food-grade environments.
- **Low Maintenance Downtime:** Easy servicing and tool-free access help reduce operational interruptions.
- **High Operational Efficiency:** Supports higher flow rates with minimal pressure drop for faster processing.
- **Regulatory Compliance:** Aligned with FDA, ASME BPE, and cGMP standards to ensure consistent product quality.

Applications

- **Pharmaceuticals & Biotech:** API filtration, sterile solution prep, vaccine production.
- **Food & Beverage:** Filtration of milk, juices, beer, soft drinks, edible oils.
- **Cosmetics & Personal Care:** Skincare formulations, essential oils, perfumes.
- **Water Purification:** WFI (Water for Injection), RO & UF pre-filtration.
- **Electronics & Semiconductors:** Ultrapure water systems, chip manufacturing processes.

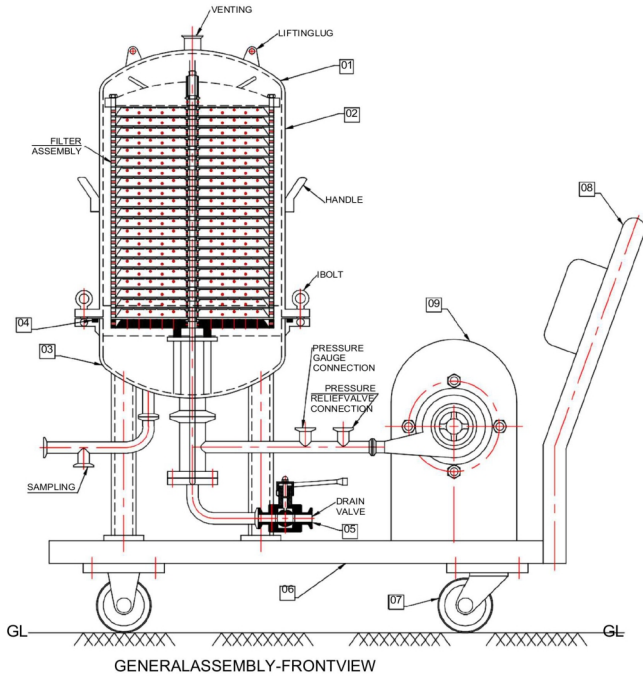


SPAKLER FILTER HOUSING

Product Overview

The Sparkler Filter is an advanced depth filtration system engineered to provide exceptional clarity in process liquids. Utilizing multi-layered filter media, it effectively removes suspended solids, colloids, and fine contaminants, ensuring high-quality output. Designed for hygienic processes, this filter system is ideal for pharmaceuticals, Dairy, food & beverage, cosmetic, and chemical applications.

Also available with jacketed options to maintain or control temperature-sensitive processes, making it ideal for heating or cooling during filtration.



PARTNO	DESCRIPTION	M.O.C.	QTY.
01	TOPDOME- DISH	SS316L	01NO.
02	TOPDOME-SHEEL	SS316L	01NO.
03	BOTTOMDOME- DISH	SS316L	01NO.
04	BOTTOMDOME GASKETRING	SS316L	01NO.
05	BALLVALVE	SS316L	01NO.
06	TROLLEYBASE	SS304	01NO.
07	CASTERS (FIX&SWIVEL)	PUCASTORS	04NOS.
08	HANDLEFORTROLLEY	SS304	01NO.
09	MOTOR		01NO.

Key Features

- **Advanced Depth Filtration:** Employs multi-layer filter media for high retention efficiency and optimal particle capture.
- **Sanitary Construction:** Made from SS 316L with electropolished finish, compliant with cGMP, FDA, and hygienic design standards.
- **Jacketed Design (Optional):** Enables heating or cooling of the filter housing for temperature-sensitive processes.
- **Quick Maintenance Access:** Tool-free disassembly for fast filter change-outs and cleaning.
- **High Solid Holding Capacity:** Efficient design allows for formation of filter cake, increasing dirt-holding capacity.
- **Flexible Cartridge/Plate Options:** Compatible with filter pads, plates, or cartridges depending on the process needs.
- **Robust Build:** Designed to withstand high pressure, temperature, and CIP/SIP processes.
- **Custom-Built Configurations:** Available in various diameters, number of plates, and connection types.

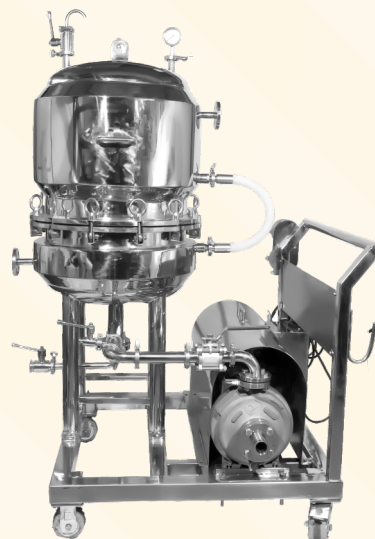
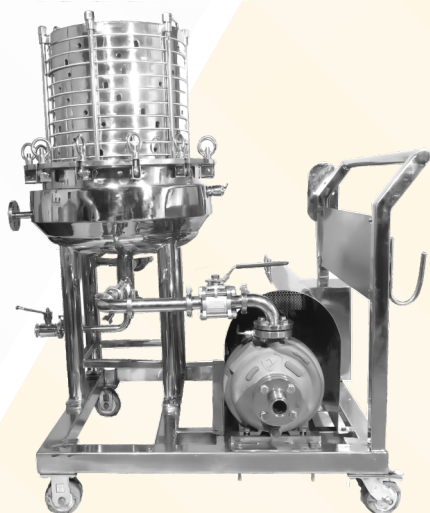
Benefits

- **Consistently Clear Output:** Removes fine particles, ensuring high clarity and product purity.
- **Process Efficiency:** Reduces batch times and increases throughput with continuous flow capability.
- **Regulatory Compliance:** Meets international sanitary standards for critical filtration needs.
- **Temperature Control:** Jacketed option supports product integrity by maintaining process temperature.
- **Lower Operating Costs:** Long service life, easy maintenance, and reduced waste lower total cost of ownership.
- **Scalable and Adaptable:** Offered in multiple sizes and configurations to suit small-scale to industrial-scale operations.

Applications

- **Pharmaceuticals & Biotech:** API filtration, oral liquid syrups, vaccine clarification.
- **Food & Beverage:** Wine, beer, syrup, edible oil, juice polishing.
- **Cosmetics & Personal Care:** Lotion, cream, and essential oil clarification.
- **Chemical Processing:** Filtration of fine chemicals, resins, solvents, and dyes.
- **Temperature-Sensitive Liquids:** Ideal for products needing controlled temperature during filtration.

Model (Dia X No Of Plates)	Dia of Plate	No. Of Plate	Filtering Area (MM ²)	Cake Holding Cap. (Ltrs)	Flow Rate LPH	Pump Size	Motor Rating (H.P.)
8" X 6	8"	6	0.19	3.8	400 - 450	1"	1 H.P
8" X 8	8"	8	0.25	5	500 - 600		
8" X 8	8"	10	0.31	6.2	700 - 750		
14" X 6	14"	6	0.53	16.2	1250 - 1300	1"	2 H.P
14" X 8	14"	8	0.7	21.1	1650 - 1700		
14" X 10	14"	10	0.9	27.3	2150 - 2200		
14" X 12	14"	12	1.1	33.5	2650 - 2700		
18" X 8	18"	8	1.25	24.5	2950 - 3000	1.5"	3 H.P
18" X 10	18"	10	1.5	30.2	3650 - 3700		
18" X 12	18"	12	1.8	36	4350 - 4400		
18" X 15	18"	15	2.25	45	5450 - 5500		
18" X 18	18"	18	2.85	56.5	6850 - 6900		
18" X 20	18"	20	3.14	63	7650 - 7700		
18" X 23	18"	23	3.65	72.8	8850 - 8900		
18" X 8 (N)	18"	8	1.3	39.8	2700 - 3200	1.5"	3 H.P
18" X 10 (N)	18"	10	1.5	46	3650 - 3700		
18" X 12 (N)	18"	12	1.85	56	4450 - 4500		
18" X 15 (N)	18"	15	2.35	71	5650 - 5700		
18" X 18 (N)	18"	18	2.85	86	6850 - 6900		
18" X 20 (N)	18"	20	3.14	95.8	7650 - 7700		
18" X 23 (N)	18"	23	3.64	110.6	8850 - 8900		
24" X 10 (N)	24"	10	2.65	80.9	6450 - 6500	2"	5 H.P
24" X 12 (N)	24"	12	3.25	98.3	7850 - 7900		
24" X 15 (N)	24"	15	4.13	125.6	10050 - 10100		
24" X 18 (N)	24"	18	5	151.7	12150 - 12200		
24" X 20 (N)	24"	20	5.55	169	13550 - 13600		
24" X 23 (N)	24"	23	6.45	195	15650 - 15700		
33" X 10 (N)	33"	10	5.05	153	12250 - 12300	3"	7.5 H.P
33" X 14 (N)	33"	14	7.25	220	17650 - 17700		
33" X 18 (N)	33"	18	9.4	286	22950 - 23000		
33" X 20 (N)	33"	20	10.55	320.8	25750 - 25800		



OUR OTHER PRODUCTS

Our products are precisely build to comply with different standard such as ASME, BPE, 3A, BS and SMS Size ¼" to 6"

Other Sanitary Products

Sanitary Stainless Steel Fitting



Sanitary Check valve



Flexible Process Hose



Sanitary Butterfly Valve



SS Locker



Diaphragm Valve



- ASME BPE Fitting • ASME BPE Tube • PTFE Hose • Silicon Hose • Silicon Tube
- Sanitary Zero Dead Valve • Sanitary Flow Divert Valve • Sanitary Pressure Relief Valve

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