

# J&O®

J&O FLUID CONTROL CO., LIMITED

## Sanitary Strainer

# J&O®

J&O FLUID CONTROL CO., LIMITED

Address: Binhai ETDZ, 5 Road, Longwan, Wenzhou, China. 325000

Tel: +86 577 8663 2750

Fax: +86 577 8663 2850

Mob./WhatsApp: +86 186 5778 5727

Site: [www.sanitary-valves.com](http://www.sanitary-valves.com)

Email: [Info@jo-pv.com](mailto:Info@jo-pv.com)

With more than 15 years of market experiences, we have become the leading supplier service for pharmaceutical, chemical, food, Beverage and Lithium battery companies



Site Code



WhatsApp Code

J&O BRAND, RELIABLE QUALITY FOR YOU

CE&ISO 9001:2015 CERTIFIED ACQUIRED

15 YEARS FLUID SOLUTION EXPERIENCES

EXPORTING TO OVER 40 COUNTRIES

EXCELLENT VALUE-ADDED SERVICE.



We focus on Details  
We Make Different  
J&O Brand, that can be trust.

## J&O PROFILE

J&O Fluid Control Co., Limited established in 2008, a leading Manufacturer and Supplier of high quality hygienic stainless steel flow control equipments.

J&O services the Food, Dairy, Beverage, Cosmetic, Pharmaceutical, Biological engineering, Lithium battery, Semiconductor, Water treatment, Petroleum and Chemical industries.

J&O product series consists of sanitary stainless steel Valves & Fittings:

- >>Sanitary Stainless Steel Pumps
- >>Sanitary Stainless Steel Valves
- >>Stainless Steel Tank Accessories
- >>Stainless Steel Pipe Fittings
- >>Stainless Steel Flanges
- >>Stainless Steel Double Ferrule Tube Fittings
- >>Hydraulic Pneumatic Quick Coupling
- >>Carbon Steel Pipe Fittings
- >>Customized Valve and Fittings

Through the years, "Perfection" has been the only goal we pursue. In order to satisfy customers, with continuous efforts, we are working towards perfection through a Quality Assurance System. With persistence and effort, we have become one of the leading enterprises of sanitary valves and pipe fittings in China.

Our organization is dedicated to provide our customers with best service of every aspect. We strongly believe, that the friendship and trust given by our customers, is the great treasure we have.

**J&O<sup>®</sup>**  
J&O FLUID CONTROL CO., LIMITED

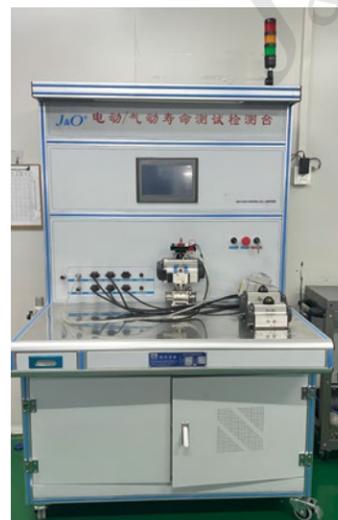
# Certificate



# Plant & Producing



# Testing Machine



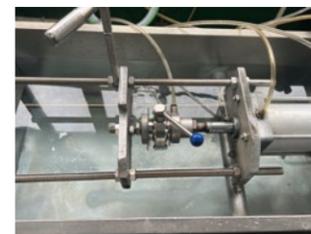
Actuator Testing



Helium Leak Detector



Pressure Test for Large Valve



Pressure Test for Small Valve

## Sanitary Strainer

### Application

J&O sanitary Strainer, mainly used for filtering solid particles in liquids, protecting the pumps, instruments and other devices to work properly. Due to its strong filtering and sealing capabilities, small pressure loss and convenient maintenance, it is widely used in fields such as brewing, beverages, pharmaceuticals, dairy, etc.

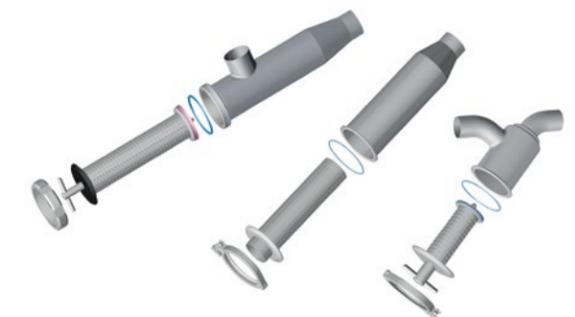


### Work Principle

When media with larger solid particles or impurities pass through the filter, these larger solid particles and impurities will be filtered and stay in the filter screen, thereby preventing these solid particles and impurities from entering the pipelines. The filtered media will flow out from the outlet, meeting the usage requirements.

### Standard Design

J&O can provide Y type filters and straight filters with welding, threaded, clamped connection. When the filter screen needs to be cleaned or it is damaged, the Y type filter only needs to remove union and take the filter screen out for cleaning or replacement, the straight filter needs to be detached from the pipeline, then take the filter screen out for cleaning or replacement, after that reinstall it to the pipeline.



# Sanitary Strainer

Our Core Values: Team, Details, Altruism, Innovation and Embrace Change.

DIN



Material

- Steel parts: 304 or 316L
- Seal: EPDM (standard) or NBR (optional)

Technical Parameter

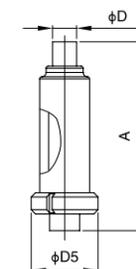
- Work pressure: 0~10 bar
- Work temperature: -20~ +135°C (EPDM seal)
- Temperature range: -10°C to 250°C

Screen: Metal Mesh

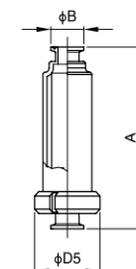
Mesh	B (mm)	Useful Surface (%)
30	0.55	48
40	0.40	46
60	0.30	52.6
80	0.20	42
100	0.15	36.2
165	0.10	45.4

Screen: Perforated Plate

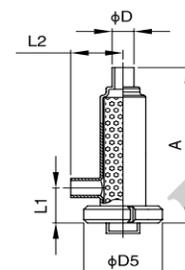
A(mm)	Useful Surface (%)
0.5	15
1	28
1.5	33
2	30
3	33
5	46



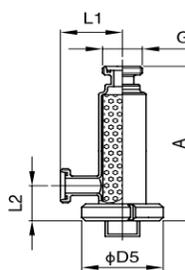
JOF-FLHS-11



JOF-FLHS-22



JOF-FLHA-11



JOF-FLHA-33

Welded Straight Strainer

Size	A	D	D5
DN25	306.0	28.0	95.0
DN32	306.0	34.0	110.0
DN40	306.0	40.0	110.0
DN50	406.0	52.0	110.0
DN65	503.0	70.0	127.0
DN80	561.0	85.0	148.0
DN100	662.0	104.0	178.0

Clamped Straight Strainer

Size	A	D	D5
DN25	306.0	50.5	95.0
DN32	306.0	50.5	110.0
DN40	306.0	50.5	110.0
DN50	406.0	64.0	110.0
DN65	503.0	77.5	127.0
DN80	561.0	91.0	148.0
DN100	662.0	119.0	178.0

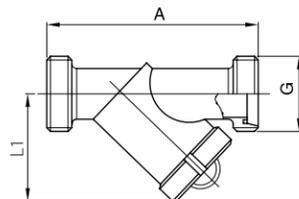
Welded Angle-type Strainer

Size	A	D	D5	L1	L2
DN25	306.0	28.0	95.0	60.0	70.0
DN32	306.0	34.0	110.0	60.0	70.0
DN40	306.0	40.0	110.0	80.0	70.0
DN50	406.0	52.0	110.0	100.0	72.0
DN65	503.0	70.0	127.0	120.0	85.0
DN80	561.0	85.0	148.0	140.0	96.0
DN100	662.0	104.0	178.0	160.0	117.0

Threaded Angle-type Strainer

Size	A	G	D5	L1	L2
DN25	306.0	RD52×1/6	95.0	60.0	70.0
DN32	306.0	RD58×1/6	110.0	60.0	70.0
DN40	306.0	RD65×1/6	110.0	80.0	70.0
DN50	406.0	RD78×1/6	110.0	100.0	72.0
DN65	503.0	RD95×1/6	127.0	120.0	85.0
DN80	561.0	RD110×1/4	148.0	140.0	96.0
DN100	662.0	RD130×1/4	178.0	160.0	117.0

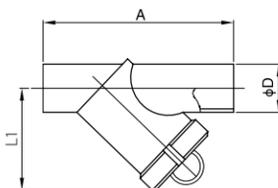
DIN



JOF-FLHY01-33

Threaded Y-type Strainer

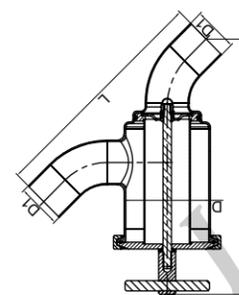
Size	A	L1	G
DN25	125.0	95.0	RD52×1/6
DN32	140.0	104.0	RD58×1/6
DN40	165.0	110.0	RD65×1/6
DN50	195.0	140.0	RD78×1/6
DN65	230.0	185.0	RD95×1/6
DN80	280.0	220.0	RD110×1/4
DN100	340.0	248.0	RD130×1/4



JOF-FLHY01-11

Welded Y-type Strainer

Size	A	D	L1
DN25	125.0	28.0	95.0
DN32	140.0	34.0	104.0
DN40	165.0	40.0	110.0
DN50	195.0	52.0	140.0
DN65	230.0	70.0	185.0
DN80	280.0	85.0	220.0
DN100	340.0	104.0	248.0

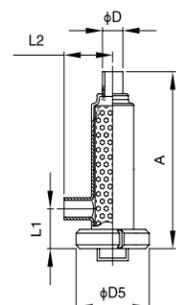


JOF-FLHY02-11

Y Type Strainer

Size	H	L	D1		D	t
			1	2		
DN25	275	204	28	29	102	1.5
DN32	288	226	34	35	102	1.5
DN40	282	242	40	41	102	1.5
DN50	312	280	52	53	102	1.5
DN65	390	362	70	70	114	2.0
DN80	405	406	85	85	114	2.0
DN100	565	460	100	100	154	2.0

SMS / 3A / IDF / ISO



JOF-FLHA-11

Welded Angle-type Straine

Size	A	D	D5	L1	L2
1"	25	306.0	25.4	95.0	60.0
1 1/4"	32	306.0	32.0	110.0	60.0
1 1/2"	38	306.0	38.1	110.0	80.0
2"	51	406.0	50.8	110.0	100.0
2 1/2"	63	503.0	63.5	127.0	120.0
3"	76	561.0	76.2	148.0	140.0
4"	102	662.0	101.6	178.0	160.0

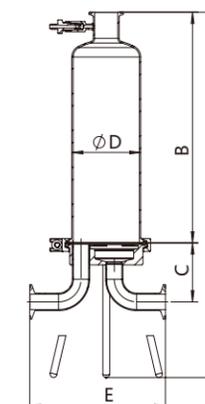
Single Core Microporous Membrane Filter

Description

Microporous foldable filter, made of SUS316L or SUS304 stainless steel, with a foldable filter element as the filtering element, can filter particles and bacteria above 0.1um in liquids and gases. It has the advantages of high filtration accuracy, fast filtration speed, less adsorption, no media detachment, no leakage, acid alkali resistance, corrosion resistance, easy cleaning, and can have backwash function. It is an ideal filtration equipment in industries such as biomedicine, electronics, beer and beverage, chemical industry, and water treatment.

How to use:

- Thoroughly clean the filter and its connecting components and correctly install the filter element and housing.
- Before starting the machine, first check whether the booster pump runs smoothly and connect tightly and whether all valves are closed.
- Before starting the machine, slowly open the inlet valve to exhaust and then open the outlet valve for normal filtration.
- If the filtration pressure difference is greater than 0.1Mpa or the flow rate significantly decreases, it indicates that most of the holes in the filter element have been blocked. It is recommended to clean or replace the filter element.



Technical Parameter

Filter No.	Dimensions				
	A	B	C	D	E
MD1S1-5-K25DJDC	425	225	86	102	200
MD1S1-10-K25DJDC	550	350	86	102	200
MD1S1-20-K25DJDC	800	600	86	102	200
MD1S1-30-K25DJDC	1050	850	86	102	200
MD1S1-40-K25DJDC	1300	1100	86	102	200

## Sanitary Activity Microporous Membrane Filters

### Description

J&O Sanitary activity microporous membrane filter is a high-precision filter, mainly used in industries such as pharmaceuticals, food and beverage, microelectronics, etc. that require high filtration accuracy and requirements.

### Features

- high precision polishing inside and outside, with high surface corrosion resistance;
- onsite cleaning (CIP) without dead corners;
- removable and replaceable parts;
- high sealing performance;
- Thoroughly remove dirt and grease from the surface of the workpiece to minimize its reattachment.



### Technical Parameter

Filter No.	Dimensions							
	10"	20"	A		B	C	D	E
MDHD3-SK38	400	650	900	1150	110	150	200	320
MDHD5-SK38	405	655	905	1155	110	150	219	340
MDHD7-SK38	420	670	920	1170	125	150	273	400
MDHD9-SK50	425	675	925	1175	125	150	300	420
MDHD12-SK50		687	937	1187	135	150	350	470
MDHD15-SK50		700	950	1200	135	150	400	520
MDHD25-SK76		725	975	1225	145	350	500	620
MDHD35-SK76		737	987	1237	155	350	550	670
MDHD55-SK102		775	1025	1275	165	350	700	820
MDHD70-SK133		800	1050	1300	175	350	800	920

## Multicore Microporous Membrane Filter

### Description

The inner surface of the sanitary microporous membrane filter is mirror finished, which can reduce pollutants and make it easier to clean. J&O Sanitary microporous membrane filter adopts sanitary air exhaust and drain ports to ensure convenient and safe operation. The upper and lower flange construction makes the filter is easy to clean and no dead corners. The filter has the advantages of high filtration accuracy, fast filtration speed, less adsorption, no media detachment, no leakage, resistance to acid and alkali corrosion, and easy operation. It can remove bacteria and particles in the medium, and can be backwashed during cleaning. Users can form second, third, and fourth level filters according to different requirements to achieve the best filtration effect. It is widely used for sterilization and clarification in medicine, large infusion, pure water, and biotechnology.

### Typical Application

- Pharmaceutical
- Veterinary
- Food & beverage
- Biotechnology
- Medical & medical device
- Laboratory
- Chemical and painting filtration



### Technical Parameter

Filter No.	Dimensions									
	20"	30"	40"	20"	B		C	D	E	F
MDHD6-SK38	580	830	1080	1180	1430	1680	300	273	185	660
MDHD9-SK50	580	830	1080	1200	1450	1700	300	300	200	668
MDHD12-SK50	580	830	1080	1225	1475	1725	300	350	225	687
MDHD15-SK50	580	830	1080	1250	1500	1750	300	400	250	695
MDHD25-SK76	580	830	1080	1350	1600	1850	350	500	300	765
MDHD35-SK76	580	830	1080	1375	1625	1875	350	550	325	790
MDHD55-SK102	580	830	1080	1450	1700	1950	350	700	400	820
MDHD70-SK133	580	830	1080	1500	1750	2000	350	800	450	850

## Air (Steam) Filter



- Material: Stainless steel SUS304, SUS316L
- Product Description: good sealing performance, long service life
- Connection: clamped, threaded, welded
- Working medium: gas
- Application: Widely used in beer, engineering, food engineering, chemical engineering, pharmaceutical engineering, biological engineering and water treatment engineering and other fields

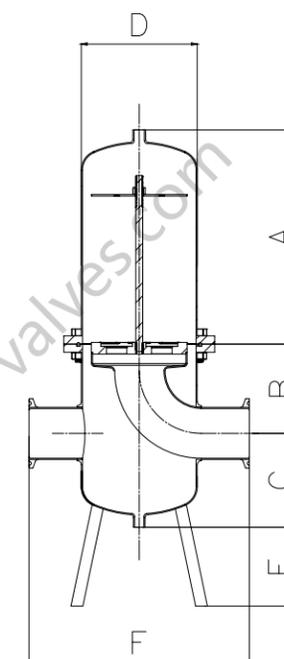
### Technical Parameter

过滤器序号 Filter No.	Dimensions									
	5"	10"	A			B	C	D	E	F
MDKQ1-CJCC	201	326	576	826	1076	88	76	102	200	200
MDKQ3-CJCC		355	605	855	1105	110	150	204	200	400
MDKQ5-CJCC		360	610	860	1110	152	180	219	200	420
MDKQ7-CJCC		373	623	873	1123	170	200	273	200	473
MDKQ9-CJCC		380	630	880	1130	200	230	300	200	500
MDKQ11-CJCC		386	636	886	1136	200	250	325	250	525
MDKQ15-CJCC			642	892	1142	200	262	350	250	650
MDKQ23-CJCC			667	917	1167	362	300	450	250	750
MDKQ35-CJCC			692	942	1192	425	370	550	300	850
MDKQ55-CJCC			730	980	1230	550	460	700	300	1000

## Air (Steam) Filter

### Description

The filter element adopts a hydrophobic polytetrafluoroethylene or polypropylene foldable microporous filter membrane. The filter is made of high quality imported stainless steel (304/316L), designed and manufactured according to GMP standards, which is efficient, energy-saving, safe, and reliable. It is widely used for the purification of fermentation air, injection air, inert gas (can be used as a total air filter, sub filter), and a "respirator" for distilled water tanks. The sterilization gas filter is designed and manufactured specifically for the purpose of sterilization during gas exchange in storage tanks in the pharmaceutical and food industries. Gas filtration accuracy is 0.02 μ M particles, with an efficiency of 99.99%. The filtration capacity can be selected within the range of 0.1-100m<sup>3</sup>/min. The medium thickness is only 0.8mm, with uniform and stable pore size, low gas resistance, and convenient regeneration. The filter cartridge can generally be used for two to three years, and can be extended to four to six years after regeneration. It can also be used for filtering sterilized steam. This filter can completely solve the problem of air contamination and improve the quality of disinfection and sterilization, thereby meeting GMP and sterile hygiene requirements.



## Sanitary Titanium Rod Filter

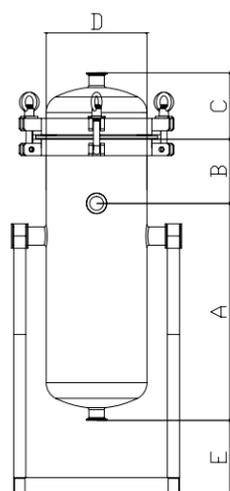
### Description

The shell is made of 304 or 306L stainless steel material, which is resistant to high temperature, high pressure, strong acid, and strong alkali corrosion. The filter element can be reused. This machine uses powder metallurgy method to process titanium metal powder into hollow filter tubes through high-temperature sintering. Widely used for liquid-solid separation in industries such as food and beverage, pharmaceutical, and chemical, especially suitable for decarbonization processes in large infusion injection production lines.



### Typical Application

- Pharmaceutical
- Veterinary
- Food & beverage
- Biotechnology
- Medical & medical device
- Laboratory
- Chemical and painting filtration



### Technical Parameter

Filter No.	Dimensions										
	A				B				C	D	E
10"	20"	30"	40"	10"	20"	30"	40"				
MDTiB03-CJSC	285	485	735	985	120	150	200	200	135	200	180
MDTiB05-CJSC	290	490	740	990	120	150	200	200	140	219	180
MDTiB07-CJSC	297	497	747	997	120	150	200	200	147	250	180
MDTiB09-CJSC	303	503	753	1003	120	150	200	200	153	273	180
MDTiB13-CJSC	316	516	766	1016	120	150	200	200	166	325	180
MDTiB19-CJSC	336	536	786	1036	120	150	200	200	186	400	180
MDTiB30-CJSC	361	561	811	1061	120	150	200	200	211	500	180
MDTiB55-CJSC	386	586	836	1086	120	150	200	200	236	600	180

## Plate And Frame Filter

### Application

With a wide range of applications, it is used for solid-liquid separation of various suspensions. It is applied in industries such as pharmaceuticals, biochemistry, food, beverage, water treatment, brewing, petroleum, electronics, electroplating, printing and dyeing, environmental protection, etc. It is the latest equipment for filtering, clarifying and purifying various liquids.

### Product Features

The precision plate and frame filter is made of 304 or 316L high-quality stainless steel, which is corrosion-resistant and durable. Due to its threaded structure, the filter plate of this machine can be replaced with different filter materials, depending on the different production processes of the filtrate (initial filtration, semi precision filtration, and precision filtration). Users can also reduce or increase filter frames and plates according to the production flow rate, making them suitable for production needs. All sealing parts of this machine are equipped with sealing rings (silicone sealing rings, non-toxic and high-temperature resistant), with no leakage and good sealing performance.

When this machine is working, it is pressurized and sealed for filtration, with no loss of liquid material. The liquid has good clarity and good sterilization effect (using medium speed filter paper and microporous filter membrane is particularly effective). This machine can also be customized with an automatic reflux channel according to user needs. After the pump stops rotating, open the reflux valve (with a gas release function) to automatically reflux and discharge all deposited materials. When filtering high viscosity liquid, it can make the liquid unobstructed and automatically reflux and discharge various impurities. It is extremely convenient to use clean water to backwash the filter material from the reflux channel for temporary cleaning.

The pump and input pipe of this machine are connected by a three fold snap ring, which is sturdy and has good sealing performance. It is easy to disassemble and clean.



### The Working Principle And Structure Characteristics

The suspension is pumped into each sealed filter chamber of the filter. Under pressure, the filtrate passes through the filter layer and filter cloth, and is discharged through the outlet of the filter cloth. The filter residue remains in the filter frame to form a filter cake, thus achieving the purpose of solid-liquid separation.

## Basket Filter

### Description

Basket filters are used on oil or other liquid pipelines to filter impurities in the pipeline. The area of the filter hole is 2-3 times larger than the diameter of the pipe, far exceeding the filtering area of Y-shaped and T-shaped filters. The structure of the filter screen is different from other filterscreens, and it is named basket filter because its shape looks like a basket. The basket filter mainly consists of a connecting pipe, a cylinder, a filter basket, a flange, a flange cover and fasteners. Installed on pipelines, it can remove large solid impurities in the fluid, enabling machine equipment (including compressors, pumps, etc.) and instruments to work and operate normally, playing a role in stabilizing the process and ensuring safe production. Filters are small devices that remove small amounts of solid particles from liquids and can protect the normal operation of compressors, pumps and instruments, etc. When the fluid enters the filter barrel with a filter screen, its impurities are blocked and the filtrate is discharged from the filter outlet. When cleaning is required, just remove the detachable filter barrel to clean it and then reinstall it. It is extremely convenient for use and maintenance. Currently, it has been widely used in industries such as petroleum, chemical, pharmaceutical, food, and environmental protection. If it is installed at the inlet of the pump or other parts of the system pipeline, it can not only extend the service life of the pump and other equipment, but also ensure the safety of the pipeline system.

Working principle of basket filter Other debris may enter the pipeline during installation, and there may also be debris in the raw materials used in production. When the liquid in the pipeline passes through the filter, its dirt is collected into the filter screen. When the dirt accumulates to a certain extent, open the shell cover to clean the filter screen.

Suitable materials:

- a. Weak corrosive materials in chemical and petrochemical production, such as water, ammonia, oil products, hydrocarbons, etc;
- b. Corrosive materials used in chemical production, such as caustic soda, soda ash, concentrated sulfuric acid, carbonic acid, acetic acid, ester acid, etc;
- c. Low temperature materials in refrigeration, such as liquid methane, liquid ammonia, liquid oxygen, and various refrigerants;

d. Materials with hygiene requirements in the production of light industrial food and pharmaceuticals, such as beer, beverages, dairy products, grain slurry medical supplies, etc.

Operating temperature: -10C~+150C

• Nominal diameter: DN15-DN600

• Nominal pressure: PN1.0-5.0Mpa

Flange standard: HG20592-97 (can also be manufactured according to user requirements)

Shell material: A3, 304, 304L, 316, 316L

Sealing material: polytetrafluoroethylene, nitrile rubber, oil resistant asbestos adhesive

Manufacturing inspection standard: HGJ532-91

Cleaning way of basket filter

When cleaning is required, unscrew the screw plug at the bottom of the main pipe, drain the fluid, remove the flange cover, clean and reinstall it.

Pressure testing and inspection: The pressure for the hydraulic test of the filter is 1.5 times its design pressure, and the holding time is 30 minutes to ensure no infiltration or deformation

Shape phenomenon.

Principles for selecting blue filters

• Inlet and outlet diameter:

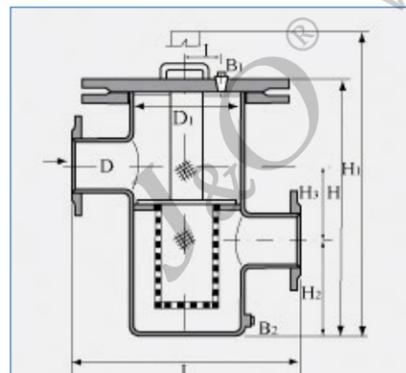
Principle: The inlet and outlet diameter of the upper filter should not be smaller than the inlet diameter of the matching pump and generally consistent with the diameter of the inlet pipeline.

• Nominal pressure:

Determine the pressure level of the filter based on the maximum pressure that may occur in the filtering pipeline.

• Selection of mesh size:

The main consideration is the particle size of impurities to be intercepted, which depends on the process requirements of the medium flow.



### Technical Parameter

Filter No.	Dimensions						
	in	D1	L	H	H1	H2	Effective Filtration Area
MDLS-DN25	1	76	180	260	410	160	0.0162
MDLS-DN25	1-1/2	108	260	300	560	170	0.0315
MDLS-DN25	2	108	260	300	560	170	0.0315
MDLS-DN25	2-1/2	133	330	360	637	174	0.0461
MDLS-DN25	3	159	340	400	719	214	0.0590
MDLS-DN25	4	219	400	470	881	272	0.1077
MDLS-DN25	5	273	480	550	1079	345	0.1759
MDLS-DN25	6	273	500	630	1276	404	0.2910
MDLS-DN25	8	325	560	780	1397	446	0.4076
MDLS-DN25	10	426	660	930	1544	495	0.5017
MDLS-DN25	12	478	750	1200	1793	563	0.6800
MDLS-DN25	16	529	920	1500	2050	720	0.8156

## Fluorine Corrosion Cartridge Filter

### Description

Fluorine lined filters are mainly used for filtering highly corrosive liquids such as strong acids and alkalis. All parts of the filter that come into contact with the liquid are lined with PTFE to protect stainless steel from corrosion. PTFE lined filters can withstand high temperatures, do not deform, do not fall off, and have a smooth surface. The filter housing can be processed with stainless steel or carbon steel. This filter has a long service life and is equipped with various filter elements with different filtration accuracy, which can adapt to different filtration requirements.

- Weak corrosive materials in petrochemical production, such as water, ammonia, oil products, hydrocarbons, etc.
- Corrosive materials in chemical production, such as caustic soda, soda ash, concentrated, dilute sulfuric acid, carbonic acid, acetic acid, ester acid, etc.
- Low temperature materials in refrigeration, such as liquid methane, liquid ammonia, liquid oxygen, and various refrigerants.
- Materials with hygiene requirements in the production of light industrial food and pharmaceuticals, such as beer, beverages, dairy products, grain slurry medical supplies, etc.



### Technical Parameter

Filter No.		Dimensions			
		A	B	C	D
	10"	20"	30"		
MDCF1-FL	350	600	850	90	106
MDCF3-FL	360	610	860	90	206
MDCF5-FL	360	610	860	90	225
MDCF7-FL	360	610	860	90	279
MDCF9-FL	360	610	860	90	310
MDCF11-FL	360	610	860	90	340
MDCF15-FL	360	610	860	90	400
MDCF19-FL	360	610	860	90	432

