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PT. APINDO MITRA SELARAS

GLOBAL LEADING TECHNOLOGY
FROM FIRST-CLASS QUALITY

TECHNOLOGY | FILTRATION | PURIFICATION

PT. APINDO MITRA SELARAS

HIGH FLOW FILTER

The high-flow filter is matched with imported 3M and PALL filter elements. It is developed and produced in combination with years of experience in filtering fluid design. It can achieve ultra-small equipment footprint and large processing flow in a compact system design. The structure has optional vertical, horizontal type.

PRODUCT ADVANTAGES

1. LARGE CIRCULATION

With a unique design, the flow rate of a single filter element can reach as high as 70T/H. So fewer filters are needed to meet your flow requirements.

2. HIGH DUST HOLDING CAPACITY AND HIGH PRECISION

The filter element is made of deep folding process structure, the superlarge dirt holding capacity of a single filter element can reach 11Kg.
PPS deep radial pleated filter element 2500g/10"
PPT horizontally folded filter element 250g/10 "
ACCURACY RANGE: 1, 2, 5, 10, 15, 25, 40 and 70 microns
FILTRATION EFFICIENCY: 99.9% Materials are FDA certified

3. LARGE FILTER AREA

The high-flow filter element adopts high-performance polypropylene nonwoven material, which super optimizes its filtration performance and fluid quality to ensure the customer's use effect. The radially pleated design makes the filter element have a large effective filtering area.Materials are FDA certified

4. STABLE AND RELIABLE

The internal support mechanism of the filter element is supported by a guide rod or a filter cartridge, and the top of the filter element is provided with a gland to press the filter element firmly. It ensures that the filter element will not be loosened or dropped due to vibration during operation, and it also ensures that the filter element never falls during the transportation of the equipment.

5. STRONG SEALING PERFORMANCE

All sealing positions are sealed with O-ring construction, which incorporates sealing problems caused by positive and negative tolerances of finished parts.

MAIN COMPONENT MATERIAL

Shell CS, 304, 316L, C276, 2205, filter element melt spray, glass fiber, PP, PTFE, standard nitrile seals, optional fluorine rubber, PTFE.

PERFORMANCE PARAMETERS

Filtration precision is 0.003 micron~100 micron, temperature resistance is 80C, pressure resistance is 1.6Mpa, flow rate is 0.1-~500M3/H, the number of filter elements is 3~300, and the length of filter element is 250, 500, 750, 1000mm.

OTHER

Safe operating temperatures and pressures will depend on the filter element and seal, greater than the pressures and temperatures above
Please specify the design and manufacture acceptance criteria: steel pressure vessel, water treatment filter standard and ASME "∪"
Surface treatment: mechanical polishing, electrolytic polishing, sandblasting, paint

DESIGN AND MANUFACTURING STANDARDS

Filter element design PPS filter element is 70T/H/40"
PPT filter element is 50T/H/40"
The shell design is based on the container standard, and the shell wall thickness is calculated and checked by SW6
Flange standard HG, GB, ASME, JIS. DIN
Manufacturing standard GB150-2011

KEEP IMPROVING

PT. APINDO MITRA SELARAS

BAG FILTER

WORKING PRINCIPLE

The bag filter is a pressure filter device, which mainly consists of a filter cylinder body, a filter cylinder cover, a quick-opening mechanism, a stainless steel filter bag reinforcing mesh and other main com -ponents. The filtrate flows into the filter bag from the side inlet pipe of the filter housing. The filter bag itself is installed in the reinforced mesh basket, and the liquid penetrates the filter bag of the required fineness grade, that is, qualified filtrate can be obtained, and the impurity particles are intercepted by the filter bag. Replacing the machine filter bag is very convenient, and there is basically no material consumption for filtration.

The bag filter has many advantages such as reasonable structure, good sealing performance, strong circulation ability and easy operation. In particular, the probability of side leakage of the filter bag is small, the filtration accuracy can be correctly guaranteed, and the filter bag can be changed quickly, which reduces the operating cost. The inner and outer surfaces of the filter are polished by mechanical sandblasting, so the surfaces are homogeneous and easy to clean. The filtration method adopted by the bag filter is the method of side-in and side-out, or the method of side-in and bottom-out can be adopted; the filtered liquid medium is pressed or pumped into the bag filter barrel by the pressure in the pipeline, the body medium to be filtered is filtered through the electropolished punching holes to support the filtration of the filter bag supported by the filter basket, and the changed solid and liquid respectively achieve the result that the liquid medium is filtered.

PRODUCT ADVANTAGES

(1) Compact structure and reasonable size. Simple and convenient installation and operation, small footprint.
(2) High filtration precision, suitable for any fine particles or suspended solids, the filtration range can be from 0.5 to 200 microns
(3) The processing flow per unit filtration area is large, the filtration resistance is small, and the filtration efficiency is high. The filtering function of a liquid filter bag is equivalent to 5~10 times of the filter element, which can greatly reduce the cost; the designed flow rate can meet the requirements of 1-500M3/H, and the cost is low.
(4) It has a wide range of uses and can be used for coarse filtration, intermediate filtration or fine filtration; under the condition of achieving the same filtration effect, compared with the plate and frame fine filter, the filter element filter and other equipment, the investment cost is lower, the service life is longer and the The advantages of low filtration cost and so on.
(5)High filtering precision, large filtering capacity, low cost and high efficiency.
(6) No cleaning, the replacement of the liquid filter bag can be completed within 30 seconds, which is convenient and quick, saving labor and time.
(7) Complete specifications, including low pressure type, side entry type, top entry type, multibag type and horizontal type.
(8) The small probability of side leakage effectively guarantees the filtering quality.
(9) It can meet the filtering requirements of different flowrates.
(10) Materials include stainless steel SUS304, SUS316, SUS316L.

PRODUCT CATEGORY

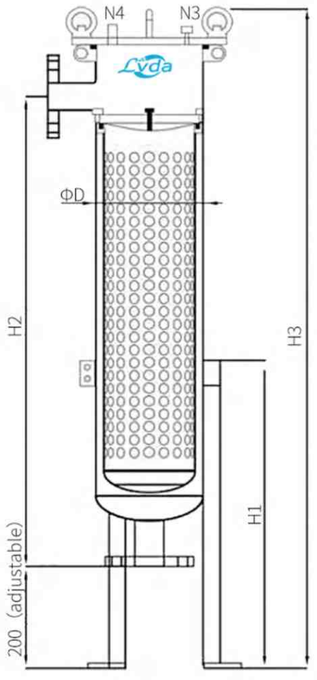
Bag filter has the following categories: single bag filter, multi-bag filter, rocker bag filter, high-precision bag filter, etc.

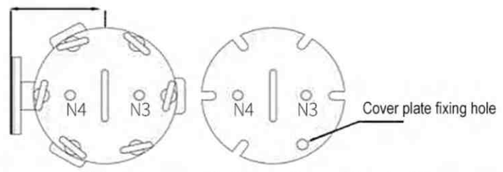
MULTI-BAG MODEL TABLE:

Model	reference flowrate	in and out caliber	Cylinder Specifications	Filter bag specification/quantity	design pressure	Opening method
ADB-2Ⅱ	40-100 T/H	DN80-DN125	Φ460*1530*3mm	2#/2piece	1.0MPA	Quick open eye bolts
ADB-3Ⅱ	60-150 T/H	DN100-DN150	Φ510*1530*3mm	2#/3piece	1.0MPA	Quick open eye bolts
ADB-4Ⅱ	80-100 T/H	DN100-DN150	Φ610*1530*4mm	2#/4piece	1.0MPA	Quick open eye bolts
ADB-5Ⅱ	100-250 T/H	DN100-DN150	Φ660*1530*4mm	2#/5piece	1.0MPA	Quick open eye bolts
ADB-6Ⅱ	120-300 T/H	DN100-DN150	Φ710*1530*5mm	2#/6piece	1.0MPA	Quick open eye bolts
ADB-8Ⅱ	160-400 T/H	DN150-DN250	Φ810*1530*5mm	2#/8piece	1.0MPA	Quick open eye bolts
ADB-10Ⅱ	200-500 T/H	DN150-DN250	Φ960*1530*5mm	2#/10piece	1.0MPA	Quick open eye bolts
ADB-12Ⅱ	240-600 T/H	DN150-DN300	Φ1110*1530*6mm	2#/12piece	1.0MPA	Quick open eye bolts

STANDARD SINGLE BAG FILTER

The standard single-bag filter is composed of a seamless tube shell, a filter cartridge and a filter bag. The filter cartridge is made of stainless steel, which plays the role of supporting the filter bag and has a certain corrosion resistance. Bag filters have a wide range of applications, high versatility, and low maintenance costs.Mainly used in petroleum, chemical, pharmaceutical, food, coal chemical and other fields as the pre-filtration of the front -end precision filtration.





Fixing holes are provided for easy disassembly and maintenance

TECHNICAL FEATURES

Refer to HG21637-91, GB150-2011 design, manufacture and acceptance

Flange standard HG, GB, SH, HGJ, J8, ANSI, JIS

Connection port type Thread, clamp, flange

Caliber specification 1-3

Sewage outlet specifications 1/4

Filter bag model 1#2#3#4#

Filtration precision 0.5um-800um

Design pressure 0.6-1.0MPa

Design temperature 90°C (using PP filter bag)
130°C (use PE filter bag) 240°C (use tetrafluoro filter bag)

Surface treatment

Glass bead blasting (standard); polishing: sanitary polishing;

Material

Shell material 20#, 304, 316L, 2205/2507, titanium, lining

Gasket Silicone, Nitrile rubber, PTFE

Filter bag material polyester, polypropylene, nylon, polytetrafluoroethylene, glass fiber

SELECTION REFERENCE

model	Reference flowrate	inlet and outlet caliber	Cylinder Specifications	Filter bag specification/quantity	design pressure	How to open the lid
ADB-1/1	10-25 T/H	DN50	Φ219*650*3mm	1#/1个	1.0MPa	Quick open eye bolts
ADB-1/2	20-50 T/H	DN50	Φ219*1020*3mm	2#/1个	1.0MPa	Quick open eye bolts
ADB-1/3	3-6T/H	DN25	Φ133*420*3mm	3#/1个	0.6MPa	Quick open eye bolts
ADB-1/4	6-12T/H	DN25	Φ133*570*3mm	4#/1个	0.6MPa	Quick open eye bolts

FEATURES

◆O-ring seal, easy and safe operation.
◆The design of side entry and bottom exit ensures that the liquid can be completely discharged. You can also select a tangential outlet that can reduce the height.
◆All parts in contact with liquid are made of stable stainless steel, which has anti-corrosion effect on various liquids.
◆The design and volume of the filter are compact, which reduces the loss of liquid to a minimum.
◆The inside and outside of the filter housing is shot-peened and matt-polished or mirror-polished; the inner surface is pickled and passivated to enhance corrosion resistance.
◆High-quality stainless steel perforated filter basket with significantly enhanced pressure resistance.

PRODUCT ADVANTAGES

◆A variety of filter bag materials are available for selection.
◆100% all-welding technology, so that the connection port is welded firmly, preventing the leakage of impurities and so as to not contaminate the clean liquid.
◆Safe and stable sealing ring design, the filtration efficiency can reach more than 99%.
◆No added resin, adhesive, no secondary pollution.
◆The filtering precision can reach 0.5um, which meets the ultra-small precision filtering requirements.
◆Strictly control the selection of filter bag materials, in line with sanitary requirements.

TYPICAL APPLICATION

Pharmaceutical chemical / biopharmaceutical food and beverage / sewage treatment / precision electronics.

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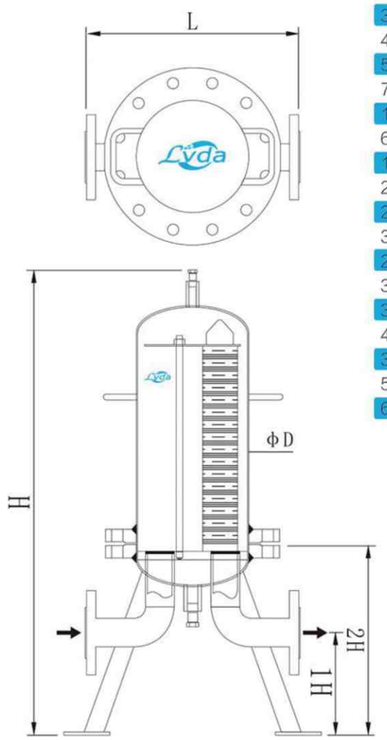
LIQUID PRECISION FILTER

It is generally set before the pressure vessel, to remove fine particles with a turbidity of more than 1 degree to meet the requirements of the subsequent process for water intake; sometimes it is also set at the end of the entire water treatment system to prevent fine particles (such as broken resin) from entering finished water.

Rated water flux m2/h	Filter element configuration		Speaking of outlet pipe diameter		Dimensions(mm)				
	The degree of filter element	Length	d (mm)	Connection method	D	Q	H		h2
0.5	1	10 〃	DN20	CLAMP OR FLANGE GB HG ASME JIS DIN	ϕ102	230	520	h1	360
1		20 〃			ϕ102	230	760	125	600
1.5		30 〃			ϕ102	230	1000	125	840
1.5	3	10 〃	DN25		ϕ184	300	600	125	360
3		20 〃			ϕ184	300	840	130	600
4.5		30 〃			ϕ184	300	1080	130	840
5	5	20 〃	DN50		ϕ234	450	970	130	650
7.5		30 〃			ϕ234	450	1210	130	890
12	8	30 〃	DN65		ϕ304	500	1290	130	910
6		40 〃			ϕ304	500	1530	150	1150
18	12	30 〃	DN80		ϕ354	550	1390	150	925
24		40 〃			ϕ354	550	1630	200	1165
22.5	15	30 〃		FLANGE GB HG ASME JIS DIN	ϕ404	650	1410	200	935
30		40 〃			ϕ404	650	1500	200	1175
27	18	30 〃			ϕ404	650	1410	200	935
36		40 〃			ϕ404	650	1650	200	1175
31.5	21	30 〃			ϕ454	700	1470	200	950
42		40 〃			ϕ454	700	1710	200	1190
37.5	25	30 〃	DN100		ϕ506	750	1490	200	960
50		40 〃			ϕ506	750	1730	200	1200
60	30	40 〃			ϕ506	750	1730	200	1200



MATCHING FILTER ELEMENT

It has strong versatility, and different filter elements can be selected according to the user's working temperature, filtration accuracy, and working pressure to meet the actual needs of customers.

FEATURES

1. Can effectively remove suspended solids, rust, etc. in the liquid.
2. Can withstand higher filtration pressure.
3. The unique deep mesh structure enables the filter element to have a high slag holding capacity.
4. The filter element can be made of various materials to meet the needs of various fluid filtration.
5. Small size, large filter area, small resistance and long service life.

SURFACE TREATMENT

Mechanical polishing, electrolytic polishing, sandblasting, paint

SCOPE OF APPLICATION

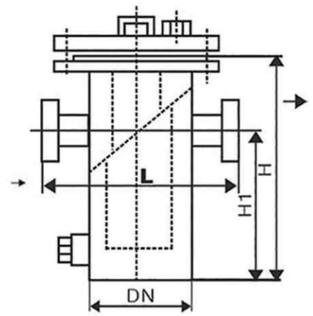
The liquid filter housing is suitable for installing various filter elements to form a complete set of liquid filters. The shell has reasonable design, compact structure, beautiful appearance, convenient installation, use and cleaning. It can be used in the purification process of various liquids in food, medicine, chemical industry, electronic enviro -nmental protection and other industries.

FILTER PARAMETERS

Specifications: Standard model accommodates 12-108 folded membrane filters.
Filter specifications: 10" 20", 30", 40"
Housing Materials: CS, 304, 304L, 316, 316L, C276, 2205, Coated.
Sealing material: Nitrile, EPDM, fluorine rubber.
Working pressure: 0-4.0Mpa.
Working temperature: 0-260C.
Accuracy grades: 0.01μm, 0.1μm, 0.5μm, 1μm, 5μm, 10μm.
Design standard: HG/T21637-1991 chemical pipeline filter
GB150- 2011 Steel pressure vessels.
Overpressure and temperature are vessel ratings only, safe operating temperatures and pressures will depend on the filter element and seal.

BASKET STRAINER

NOMINAL DIAMETER DN (mm)	DIMENSIONS (mm)			PIPE PLUG
	H1	H	L	
25	160	260	180	R3/4"
32	170	270	200	R3/4"
40	170	300	260	R3/4"
50	170	300	260	R3/4"
65	210	360	330	R3/4"
80	250	400	340	R3/4"
100	30	470	400	R3/4"
125	360	550	480	R3/4"
150	420	630	500	R3/4"
20	530	780	560	R3/4"
250	640	930	660	M20×1.5
300	840	1200	750	M20×1.5
400	920	1400	850	M20×2.0
500	1050	1500	1000	M20×2.0
600	140	2000	1380	M20×2.0
800	16400	2300	1500	



MULTI FILTER

FEATURES

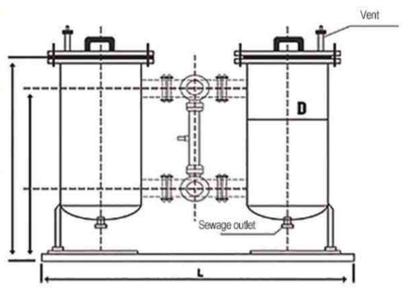
The tandem type is a manifestation of hierarchical filtering, which is composed of units with different precisions. The purpose of the parallel type is to increase the filtering area of a single unit or to serve as a backup switching function. The combination of two or more units meets the continuous and uninterrupted production requirements.The mobile type is mainly a performance of a multi -purpose machine, and its combination is generally equipped with a filter unit, a pump, and a trolley.It can be combined according to customer requirements and is a personalized customized product.

MAIN DIMENSIONS

DN	D	L	L1	H1	H2
50	273	1250	380	1200	460
65	325	1280	400	1200	475
80	377	1400	420	1440	515
100	425	1570	480	1480	540
150	520	1880	580	1780	610
200	566	2100	650	1880	680

MAIN COMPONENT MATERIAL

	CARBON STEEL	STAINLESS STEEL
FILTER FRAME AND FILTER MESH MATERIAL	STAINLESS STEEL	
SEAL MATERIAL	Oil-resistant asbestos, nitrile rubber, teflon	
OPERATING TEMPERATURE (°C)	-40-380	-80-450
NOMINAL PRESSURE (MPa)	0.6-5.0 (150LB-600LB)	
FILTRATION PRECISION (MESH/in)	10-300	



PT. APINDO MITRA SELARAS

FULLY AUTOMATIC BRUSH TYPE SELF-CLEANING FILTER

A variety of fully automatic self-cleaning filters suitable for harsh environments can be equipped with 25 micron - 3500 micron filtration mesh for different working conditions, and filters of different materials can be selected according to the characteristics of the material. The caliber can be 2"-36", and the corresponding caliber can be selected according to the flow rate.

WORKING PRINCIPLE

When the pressure difference between the inlet and outlet of the filter reaches the preset value, the filter will start the selfcleaning process. The whole self-cleaning process includes two steps:Open the drain valve located on the upper end cover of the filter;The motor drives the stainless steel brush in the main body filter to rotate, and the impurities captured by the filter are brushed down by the steel brush or scraper and discharged from the drain valve.The entire cleaning process takes about 15-60 seconds, the system is constantly flowing during cleaning, and the entire running process of the filter is controlled by a random equipped control box.

PERFORMANCE CHARACTERISTICS

●UNINTERRUPTED WATER SUPPLY: The amount of water during cleaning is very small, which is 1% of the water output of the filter. The flushing time is 15 to 60 seconds, and the entire system is supplied with uninterrupted water.

●HIGH FILTRATION PRECISION: The ultra-high filtration precision can reach 25 microns, and there are filtration mesh of various precisions for you to choose.

●LARGE FILTRATION AREA: The effective filtration area of the standard filration mesh is 7 to 40 times that of the inlet area.

●Reliable cleaning: There are a variety of control methods, manual, differential pressure, time, PLC program logic control and other options.

●ECONOMICAL AND SIMPLE INSTALLATION: various structures and forms, suitable for installation in various situations on site, without affecting the operation effect.

●LONG SERVICE LIFE: The normal lifespan is more than 10 years. The filter screen is stainless steel. According to the needs, the filter screen of different specific -ations can be easily replaced.

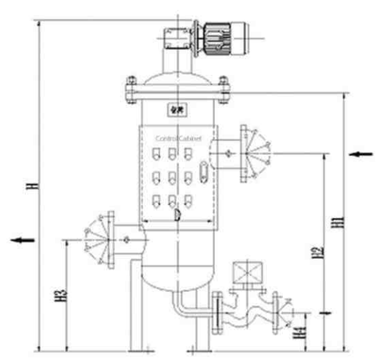
COMPREHENSIVE PARAMETERS

Operating flow: 50-2500m3/h	Customizable beyond this range
Ultra-low working pressure: 2bar	Electric valve available below 2bar
Ultra high working pressure: 16bar (230psi)	High pressure can be customized
Filter area: 3000cm2 -20000 cm2	Can be customized according to user requirements
Inlet/Outlet Diameter: DN50~DN900	Design flange standards include national standard, American standard, German standard, Japanese standard
Ultra-high operating temperature: 80° C	Above this temperature please specify

Cleaning parameters
Drain valve: DN25; DN50; DN80;
Cleaning time: 15-60S
Water consumption per cleaning: ≤1%

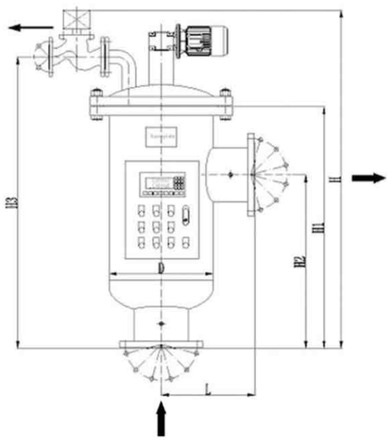
ADSQ-E SERIES IS A LOW BLOWDOWN TYPE SUITABLE FOR FILTERING GRAVITY PARTICLES (PARAMETER SIZE)

MODEL	H	H1	H2	H3	H4	D	SEWAGE OUTLET	MOTOR POWER
Unit	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(DN)	(KW)
DN40	1100	750	610	420	150	273	dn25	370
DN80	1210	880	730	420	150	273	dn25	370
DN100	1370	1040	880	420	150	273	dn25	370
DN200	1900	1500	1250	620	160	530	dn40	550



ADSQ-F SERIES IS A TOP BLOWDOWN FORM SUITABLE FOR FILTERING SUSPENDED PARTICLES (PARAMETER SIZE)

MODEL	H	H1	H2	H3	L	D	SEWAGE OUTLET	MOTOR POWER
UNIT	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(DN)	(KW)
DN40	840	510	350	680	260	273	dn20	250
DN80	950	620	450	760	260	273	dn25	250
DN100	1110	780	450	920	260	273	dn25	370
DN200	1385	1010	500	1205	405	530	dn40	550



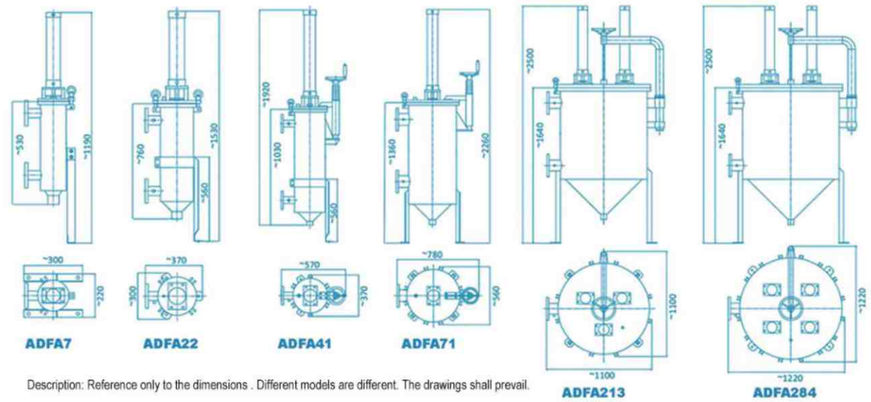
PT. APINDO MITRA SELARAS

CYLINDER SCRAPER FILTER

TYPICAL APPLICATION AREAS

Applicable to the city: petrochemical, fine chemical, paper, food and beverage, water treatment, etc.Applicable liquid types: wax, kerosene, monomer, polymer, citric acid, fermentation broth, chitosan, cosmetics, agarose (gel), silicone resin solution, soap, sorbitol, steroid, syrup, wet end adjuvant , adhesives, pigments, lubricants,coatings, resins, latex, ethanol, mixed oil, edible oil, high temperature oil, fruit juice, diesel oil, etc.

FILTER DIMENSIONS



Description: Reference only to the dimensions . Different models are different. The drawings shall prevail.

THE MAIN TECHNICAL PARAMETERS

FILTER MAIN MODEL	ADFA7	ADFA22	ADFA41	ADFA71	ADFA213	ADFA284
FILTER AREA(m^2)	0.07	0.22	0.41	0.71	2.13	2.84
NUMBER OF FILTER ELEMENTS	1	1	1	1	3	4
VOLUME(L)	~4	~24	~42	~175	~620	~760
INLET SIZE AND EX-LET SIZE	DN25-DN50	DN50-DN80	DN65-DN100	DN80-DN125	DN100-DN150	DN150-DN250
SEWAGE OUTLET SIZE	DN40					
APPLICABLE LIQUID	Water and viscous liquid (<800,000mPa.s), impurity content <1000ppm					
FILTRATION ACCURACY	20-2000 μ m					
STANDARD DESIGN PRESSURE	1.0MPa, higher design pressure can be customized					
DESIGN TEMPERATURE	0-200C (depending on seal)					
CLEANING DIFFERENTIAL PRESSURE	50- 100KPa (depending on liquid viscosity)					
DIFFERENTIAL PRESSURE METER	Pressure Transmitter / Differential Pressure Transmitter					
INLET AND OUTLET CONNECTION STANDARD	Flange, HG20592- 2009 (standard design), HG20615- 2009 (compatible with ANSI B16.5); DIN11851 round thread union					
FILTER ELEMENT SERIES	MS/NS/AS					
SHELL WETTED MATERIAL	304/316L/CS					
PISTON ROD MATERIAL	316L					
SCRAPER MATERIAL	PTFE Teflon/stainless steel, etc.					
SHELL SEALING MATERIAL	NBR/EPDMNITON/Silicone rubber/FEP coated silicone rubber					
FILTER ELEMENT SEALING MATERIAL	NBR/EPDMVITON/Silicone rubber/FEP coated silicone rubber					
PISTON ROD SEAL MATERIAL	NBR/PU Polyurethane NITON					
DRAIN VALVE	Full Bore Pneumatic Ball Valve, Single or Double Acting, 304/316					
PUBLIC SUPPLY REQUIREMENTS	Control system with 220N AC, 0.4-0.6MPa Jizheng dry compressed air					
CUSTOMIZED DESIGN	Jacket design. Passing heat transfer oil or steam to maintain liquid temperature and fluidity custom design Explosion-proof design, including instrumentation and control system, to safely filter flammable and explosive liquids Food grade design, safe and hygienic, easier to clean					

PT. APINDO MITRA SELARAS

BACKWASH FILTER

FEATURES

Fully automatic backwashing, continuous flow during backwashing; high filtration precision and large amount of treated water; self-cleaning relying on its own pipeline water pressure without external power; suitable for filtration of various water quality, such as: tap water, well water, surface water, circulation cooling water, etc.;Compact structure, easy installation, easy maintenance; wide application, good filtering effect, high strength and long life.

WORKING PRINCIPLE

During filtration, the raw water enters the water inlet and passes through the filter screen, and the dirt slowly accumulates, which is the filtration process. The accu -mulation of dirt on the filter screen causes a pressure difference between the inlet and outlet. When the pressure difference is selected to the set value, the system will continue to supply water, which will trigger a series of actions; the drain valve is opened, the pressure in the hydraulic motor drive chamber is reduced, the water flows out through the drain pipe, and the drop in the driving chamber pressure produces a Suction, the water flows through the hydraulic motor to drive the suction pipe to rotate with the shaft, so that the inner surface of the entire filter screen is significantly cleaned. The flushing process lasts about 5 seconds, the blowdown is closed at the end of the flushing process, the rise in water pressure returns the system to its original position, and the filter is ready for the next working process. During the entire cleaning process, filtered clean water is continuously supplied from the water outlet to the rear stage.

TECHNICAL PARAMETER

Filtration precision: 20-400 microns;
System working pressure: 0.2- 1.0Mpa;
Backwash requires water pressure: ≥O.18Mpa;
Medium temperature: <60 degrees;
Power supply voltage: AC220V 1A;
Control output voltage: DC24V 1A per channel;
Control mode: differential pressure, timing, manual;
Pipe material: carbon steel, stainless steel, HDPE, etc.

DATA PARAMETER

Model	Inlet and Outlet caliber D	Filtration area m^2	D1	Xmm	Ymm	Hmm	Weight KG	Treatment water volume m3/h
AF202	DN50	1100	DN250	177	174	480	34	30
AF202S	DN50	1630	DN250	177	174	625	36	30
AF203	DN80	1100	DN250	192	188	495	34	40
AF203S	DN80	1630	DN250	192	188	640	36	50
AF204	DN100	1630	DN250	220	210	650	50	80
AF204S	DN100	3000	DN250	220	315	890	72	100
AF206	DN150	4500	DN250	220	400	1095	86	130
AF208	DN200	5780	DN400	305	450	1190	161	200

PRODUCT APPLICATIONS

INDUSTRY	APPLICATION	FILTRATION ACCURACY
Food, Textile, Electronics, Foundry	System water filtration	50-100um
Nozzle, Nozzle	Agriculture, Food, Paper, Metallurgy, Machinery	20-100um
drinking water	Municipal, tap water	< = 50um
Bypass filter of circulating cooling water	Food processing, metallurgy, electricity, air conditioning, heating, etc.	< = 100um
Circulating cooling water full filter	Food processing, metallurgy, electricity, air conditioning, heating, etc.	< = 70um
Sewage treatment	Pulping, metallurgy, mining, papermaking, etc.	5-100um

MULTIMEDIA FILTER

WORKING PRINCIPLE

Multimedia filters (also known as mechanical filters) are based on a bed of layered anthracite, sand, finely divided garnet or other materials. The heaviest and finest grades of material are placed in the lower part of the bed. The principle is that first the larger particles in the water are removed in the top layer, and then the smaller particles are removed in the deeper part of the filter medium, which prevents the filter from clogging too quickly, and improves the filtering effect and the flux of the filter water.

FILLING INSTRUCTIONS

The filter materials of common multimedia filters are: anthracite, ceramsite,quartz sand, activated carbon, manganese sand and other filter materials. , The main function of the multi-media filter is to remove suspended substances and solid particles in the water. Suspended solids are non-colloidal, insoluble solids in water that can precip -itate under the right conditions. The suspended solids are retained by the filter, and the weight difference before and after the suspended solids are retained by the filter medium is used as the basis for measuring the function of the filter. The filter medium generally uses the filter medium of D=O.5-1.0mm, 1.0-2.0mm. 2.0-4.0mm cushion. According to the impurities in the water, single-layer filtration, double-layer filtration and multi-layer filtration can be used.

PERFORMANCE CHARACTERISTICS

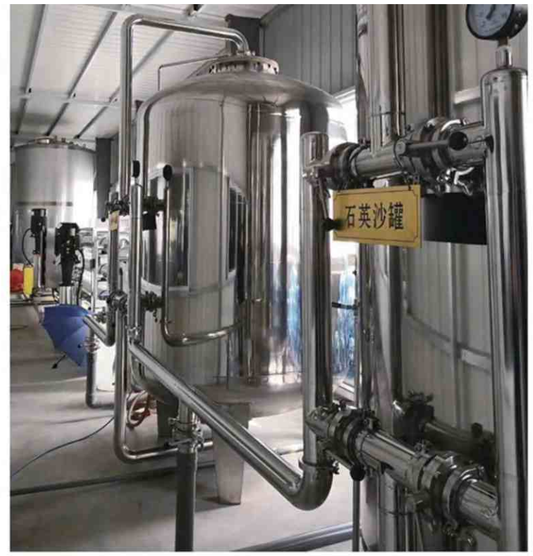
The multi-media filter can remove large suspended particles in the water, thereby reducing the SDI value of the water and meeting the water quality requirements of deep purification. The equipment has the characteristics of low cost, low operating cost and simple operation; the filter material can be used many times after backwa -shing, and the filter material has a long service life.

SCOPE OF APPLICATION

Multi-media filters are widely used in water treatment processes, mainly used for pre -treatment of water treatment to remove turbidity, softened water, electrodialysis, reverse osmosis, and can also be used for surface water, groundwater and sediment removal.

DESIGN PARAMETERS

1. Design filtration rate: 8-12m/h. When the water head loss is about 5m, backwash regeneration is required (usually, the pressure difference between inlet and outlet is 0.05MP by reading)
2. Anti-cleaning strength: 10-15L seconds. square meter
3. Flushing time: 5-7 minutes
4. Inlet water pressure: ≥0.4Mpa Backwash inlet water pressure: ≥0.20Mpa
5. The expansion rate is 25%-50%



MULTIMEDIA FILTER DATA PARAMETERS

Model	Flowrate(m^3/h)	Equipment Diameter (mm)	Equipment Height (mm)	Nozzle (DN)	Running weight (kg)
ADJ500-2	1.5-2.4	500	2200	40	2050
ADJ800-5	4-6	800	2700	50	3280
ADJ1000-8	6-9	1000	2750	80	4960
ADJ1200-12	9-14	1200	2850	80	6750
ADJ1500-18	14-21	1500	3000	80	10960
ADJ1800-25	20-30	1800	3150	80	15600
ADJ2000-30	25-38	2000	3250	100	18780
ADJ2200-40	30-46	2200	3380	100	20658
ADJ2500-50	39-59	2500	3530	125	28860
ADJ2800-60	49-74	2800	3680	150	39870
ADJ3000-70	57-85	3000	3780	150	42780
ADJ3200-80	64-97	3200	3880	150	51680
ADJ3500-96	77-115	3500	4030	150	62350

XINXIANG LVDA PURIFICATION EQUIPMENT CO., LTD

PETROCHEMICAL FILTER

EXCELLENCE/PERFECTION

PRESSURE VESSEL

1. Strong technical force and comprehensive manufacturing process.
2. Advanced manufacturing equipment, with large plate rolling machines, multiple submerged arc automatic welding machines, large lathes and other forming, processing and welding equipment.
3. Strict inspection and testing methods, with 60 tons of universal material testing machine WE-60, impact testing machine JB-300B, liquid nitrogen tank YDS3, digital ultrasonic flaw detector DUT-2188, magnetic particle flaw detector CDX-1 and other advanced testing instruments equipment.
4. A sound pressure vessel quality assurance system, strict management system and post responsibility system ensure that the quality of pressure vessels meets the requirements of standards and specifications.

CHEMICAL INDUSTRY: heat exchangers, cleaning towers, reactors, coolers, etc.
FOOD INDUSTRY: monosodium glutamate, beer fermentation tanks, seed tanks, culture tanks, sake tanks, etc.
PHARMACEUTICAL INDUSTRY: extraction tank, pharmaceutical fermentation tank, decomposition tower, sterilizer, etc.
POWER INDUSTRY: scrubbers, drying towers, dryers, etc.
TANNING INDUSTRY: reaction kettle, vulcanizing pot, sub-cylinder, air storage tank.

XINXIANG LVDA PURIFICATION EQUIPMENT CO., LTD

RICH AND POOR LIQUID FILTRATION SYSTEM

INTRODUCTION:

The lean liquid filtration system is a high-efficiency filtration system developed on the basis of domestic monomer filters and combined with the characteristics of amine liquid used in domestic desulfurization units. It adopts combined three-stage filtration, of which the first and third stages are mechanical filtration. The filter has high filtration precision, high strength of the filter element, long service life, and can realize manual backwashing. The second stage is an activated carbon filter, which adopts a large-capacity, high-iodine value porous activated carbon bed, which is especially suitable for the adsorption of organic matter in amine solution. , to prevent foaming, the occurrence of system corrosion.

FEATURES:

The filter is composed of shell, filter element and instrument. The medium enters from the inlet of the equipment, and through the filter element, the clean medium flows out from the outlet. Mechanical impurities and particles are blocked on the inlet surface of the filter element to form a filter cake. With the increase of the thickness of the filter cake, the pressure difference of the filter gradually increases, the pressure difference reaches the set value, and the filter element is cleaned or replaced.

USE:

Remove the foam, impurities and particles in the amine solution, so as to meet the requirements of the process.

PARAMETERS

Filtration precision: 1~ 100μm;
Filter initial pressure drop: ≤10Kpa
Working pressure: 0 ~ 35Mpa;
Working temperature: 0~ 400C;
Electrical working voltage: AC220/DC24V;
Explosion-proof grade: Exia(d) IIBT4 (optional)
Shell material: carbon steel, stainless steel
Filter material: polypropylene, glass fiber, stainless steel, etc.

FILTER SEPARATOR

OIL-WATER COALESCING SEPARATOR

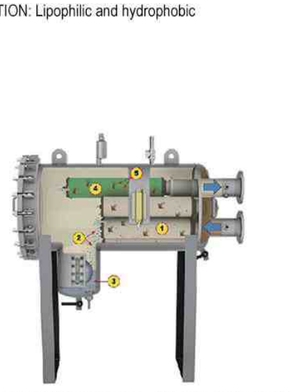
Oil-water coalescing separators are divided into two types: - oil removal from oil, and oil removal from water.The common point of the two is that the components with a small propo -rtion are separated from the materials with a large proportion. Due to the density difference between the water and the oil, the secondary separation of the filter element achieves complete separation of the final two groups of materials. Oil-water separator is also known as oil-water separator, coalescer, separator, etc.

FILTER FORM

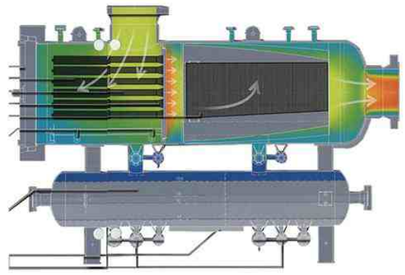
Coalescing filter

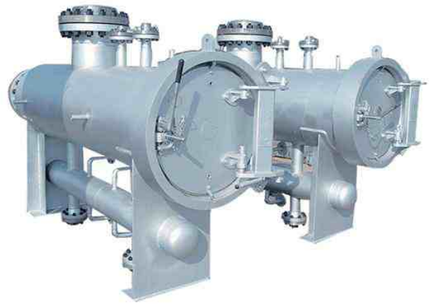
Separation filter element

FUNCTION: Condense small droplets into large droplets and drop them into the sump
FUNCTION: Lipophilic and hydrophobic



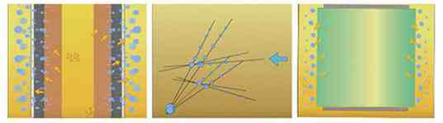
1. Coalescing filter element 2. Separated water 3. Liquid storage tank
4. Separating filter element 5. Filtered oil





WORKING PRINCIPLE

After the material enters the filter separator through the inlet, it first collects on the tray, and then disperses into the coalescing filter element from the inside to the outside. In the first step, the solid impurities are filtered out by the filter layer. In the third step, the small water droplets are coalesced into large water droplets by the coalescing layer, which settles in the sump; then the small water droplets that can be coalesced in the future are further separated by the water repellent effect of the separation filter element, settled in the sedimentation groove, discharged by the drain valve. The clean fuel is collected in the secondary tray through the separation filter element and discharged from the outlet of the filter separator.



Coalescence process　Coalescence principle　Separation process

USE AND MAINTENANCE

After the filter separator is installed, it can work continuously and reliably for a long time. Generally, it is not necessary to open the cover for cleaning, but the following points should be paid attention to when using it:

1.DEFLATE IN TIME. For the filter installed with manual air release valve, manual air release should be performed every time the operation is performed, because if there is too much gas accumulated in the housing, it will affect the normal operation of the filter.

2.OFTEN PUT SEDIMENT. After each refueling operation, the sediment should be placed, and it is normal to have water in the sediment. If solid impurities are found during precipitation, the cause should be found out and treatment measures should be taken in time.

3.INSIST ON RECORDING THE DIFFERENTIAL PRESSURE. After each oper -ation, the filter pressure difference and fuel throughput should be recorded in the maintenance log, so as to judge whether the filter separator is working properly. If it is found that the pressure difference suddenly drops, stop using it immediately, and open the lid for inspection in time to find out the cause.

4. REPLACE THE FILTER ELEMENT.

THE COALESCING FILTER ELEMENT SHOULD BE REPLACED WHEN:

①The pressure difference reaches 0.1Mpa
②The period of use is more than half a year
③The filter element is damaged (the pressure difference suddenly drops)

The separation filter element should be replaced when the following

PHENOMENA OCCUR:

①The filter element is damaged
②The filter element water spray test failed

PT. APINDO MITRA SELARAS

GAS ASSISTED BACKWASH FILTER

The automatic backwash filter has been actively used in liquid filtration, such as raw water, sewage, solvent, gasoline, heavy coking gasoline, diesel oil, residual oil and other liquids. The filter can be used to purify the fluid to meet the cleanliness requirements of the downstream process; it can also be used to protect the key equipment in the subsequent process to avoid shortened operating life or reduced operating efficiency of key equipment due to particle blockage, wear or scaling. - -Use a spare, suitable for unattended filtration conditions, and can achieve 24-hour uninterrupted automatic operation.

PRODUCT NUMBER

ADFC-D single-cylinder backwash filter

ADFC-S double-barrel backwash filter (one for standby and one for use)

FEATURES

1. HIGH THROUGHPUT

According to the impurity characteristics and content of different working conditions, the filter element can be increased to meet the large processing capacity.

2. BACKWASH FUNCTION

Time control and differential pressure control are used to automatically clean the filter screen.

3. CONTINUOUS FILTRATION

Multi-tube design, sequential backwashing, the filtration operation does not need to be stopped due to the backwashing cleaning operation.

4. FULLY AUTOMATIC CONTROL

Adopt PLC programmable program control and man-machine interface operation to monitor or adjust the operation status of the filtration system at any time.

5. SAVE A LOT OF MANPOWER

There is no need for frequent operation and monitoring by on-site personnel, and automatic control can save a lot of labor costs.

6. EASY MAINTENANCE

Adopted from high-performance filter element, low pressure loss, high backwashing efficiency, long service life and low maintenance cost.

PERFORMANCE PARAMETERS

WORKING PRESSURE: 0.1- 2.5Mpa

WORKING TEMPERATURE: -190-+600C

FILTRATION PRECISION: 0.5~50 microns

WORKING FLOW: 1~100T/H

EXPLOSION-PROOF GRADE: DiiBT4, CT4

WORKING MODE: Automatic (differential pressure, timing), manual

WORKING PRINCIPLE

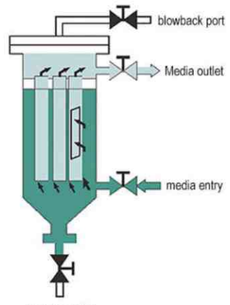


Figure 1 The normal working diagram of the filter

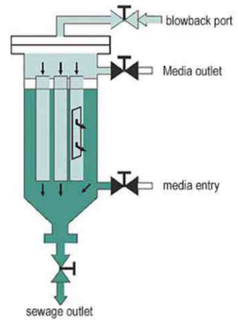


Figure 2 Schematic diagram of filter backflushing

APPLICATION FIELD

Backwash purification and filtration technology of raw oil in petrochemical hydrogenation unit

Used in oil refining process to remove sulfur, ammonia atoms and metal impurities in oil products to catalyze automatic backwash purification and filter system for external oil slurry.

Circulation purification technology of amine liquid in desulfur -ization system

It is used for purification and filtration of lean and rich amine liquid in chemical gas desulfurization system to improve the efficiency of the device and reduce the consumption of amine liquid.

Acetic acid filtration purification technology

It is used in the production process of vinyl acetate in the chemical industry to remove toner particles remaining in acetic acid, vinyl acetate, acetaldehyde and other products, and to improve the utilization rate of acetic acid raw materials.

Water purification treatment technology

It is used for the treatment of oily sewage, corrosive sewage, pharmaceutical and chemical sewage, etc.

Comprehensive Filtration Technology of Coal Gasification and Liquefaction System

It is used for gas and liquid filtration in coal gasification and liquefaction, including: high pressure nitrogen, steam filtration, diesel oil, circulating water and other liquid filtration, high temperature and high pressure synthesis gas filter, low temperature methanol filter, etc.

Proprietary filtration technology for high concentration materials

It is used for filtration of synthetic oil in synthetic devices, etc.

TECHNICAL PARAMETER

Filtration precision: 1~ 100μm;

Filter initial pressure drop: ≤10Kpa

Working pressure: 0 ~ 10Mpa;

Working temperature: 0~ 400C;

Electrical working voltage: AC220/DC24V;

Explosion-proof grade: Exia(d) IBT4 (optional)

Shell material: carbon steel, stainless steel

Filter element material: polypropylene, glass fiber, stainless steel, etc.

REFINED JET FUEL FILTER FOR RAW OIL

EQUIPMENT INTRODUCTION

Refined jet fuel filter is used for jet fuel hydrorefining, and the oil inlet and outlet devices are used to remove mechanical impurities in the oil and protect downstream equipment. The metal filter element can be manually backwashed and can be reused.

FEATURES

The filter is composed of shell, filter element and instrument. The medium enters from the equipment, and through the filter element, the clean medium flows out from the outlet. Mechanical impurities and particles are blocked on the inlet surface of the filter element to form a filter cake. With the increase of the thickness of the filter cake, the pressure difference of the filter gradually increases, and the pressure difference reaches the set value, and the filter element is cleaned or replaced.

USE

The dust and particles of jet fuel are removed to achieve the specified accuracy.