

# Compound Filters Longer life



**apd** APUREDA



Apureda Group was found in March 2011 located in Nan Xiang High-Tech Industrial Zone, and covered an area of 20000 square meters. We are professional manufacturer with integrity of R&D, design, manufacture and sale in rotary air compressor filter elements and compressed air purifying equipments. We devote ourselves to the design and manufacture the oil removing, water removing, dust removing, bacteria removing equipments in compressed air purifying system. Also accept the filtration equipments customization according to customers' personalized demands.

We have the strong professional teams, the advanced technology, processing and equipments from Europe and America, the testing equipment & laboratory meeting ISO8573-2-96, the imported filter materials processing meeting ISO9000 keep our product with the stable performance.

As the leader and the biggest manufacturer of screw air compressor filter element in China, we are the issuer of industry standard, and have 20 patents for invention and the utility model. We are authorized with "Shanghai High Tech Enterprise" and "Shanghai Famous Brand Products". We will always adhere to the concept of elaboration manufacture, lean management & perfect service, and supply the optimization cost-effective ratio filter elements and compressed air purifying equipments to all of our customers.





# Higher Standard Laboratory



Air Filter Testing Laboratory



Filter Media Testing Laboratory



Compressed Air Suspended Oil Testing equipment-Drawing Samples



Oil Filter Testing Platform

**Recommendation Filters for Two-Stage Screw Air Compressor**

Model No.	Nominal Power(KW)	Pressure (Mpa)	Capacity (m <sup>3</sup> /min)	Air Filter	Oil Filter	Oil separator
—75	75	7-13	11-17	3213100101	AO1309	3221130351
—90	90	7-13	13-20	3213100201	AO1309	3221130400
—110	110	7-13	17-24	3213100201	AO1361	3221130462
—132	132	7-13	19-30	3213100301	2*AO1309	3221130541
—160	160	7-13	23-35	3213100301	2*AO1309	3221130600
—185	185	7-13	27-40	3212100401	2*AO1309	3221135554
—200	200	7-13	32-43	3212100401	2*AO1361	3221135601
—250	250	7-13	40-55	3212100504	3*AO1309	3221140700
—315	315	7-13	51-67	3212200605	3*AO1361	3221148700
—355	355	7-13	54-75	*****	3*AO1361	3221153750

**Recommendation Filters for Low Pressure Screw Air Compressor**

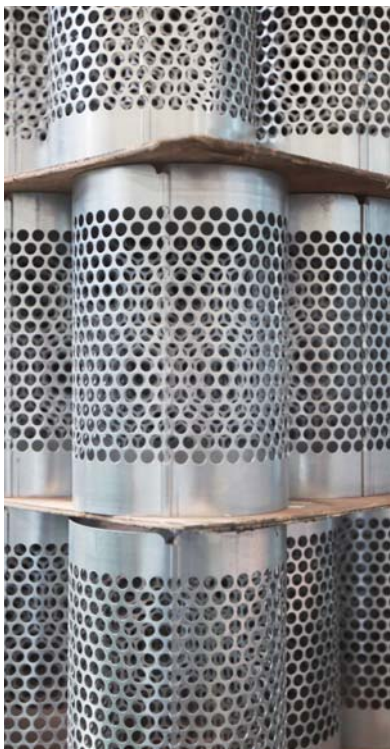
Nominal Power(KW)	Pressure (Mpa)	Capacity (m <sup>3</sup> /min)	Air Filter	Oil Filter	Oil separator
7.5-15	0.4-0.5	1.5-3.5	3213100021	AO9480	3221116241
18.5-22	0.4-0.5	3-5	3213100031	AO0938	3221117305
37-45	0.4-0.5	6.2-11	3213100081	AO1309	3221122462
55	0.4-0.5	13-15	3213100101	AO1309	3221130462
90	0.4-0.5	18-20	3213100201	2*AO1309	3221130600
110-132	0.4-0.5	24-33	3213100301	2*AO1309	3221140650
160-185	0.4-0.5	33-43	3212100401	3*AO1309	3221148700
200-250	0.4-0.5	43-63	3212200605	3*AO1361	3221153920

**Recommendation Filters for Permanent Magnet Frequency-Conversion Screw**

Nominal Power(KW)	Pressure (Mpa)	Capacity (m <sup>3</sup> /min)	Air Filter	Oil Filter	Oil separator
7.5-15	7-13	0.2-2.9	3213100011	AO0949	3221113167
18.5-22	7-13	0.4-3.8	3213100021	AO9480	3221113204
37-45	7-13	0.9-8	3213100081	AO1370	3221117305
55	7-13	1.5-11	3213100101	AO1020	3221122308
75-90	7-13	2-15	3213100101	AO1309	3221130305
110-132	7-13	3-25	3213100201	2*AO1309	3221130500
160-185	7-13	4-32	3213100301	2*AO1309	3221130600
200-250	7-13	5-46	3212100401	3*AO1309	3221140621

# Compound Filters

Apureda Group, as the biggest manufacturer of screw air compressor filter element in China, always specializes in supplying the full range filtration system solutions for screw air compressor manufacturers with the high quality products.



Based on the imported advanced-equipment and top filter media, we design new generation compound filters with our rich testing data, the innovation of filter element structure and filter media allocation. At the same working condition, the service life of compound filters is 2 times longer than normal filter elements.

# Compound Filters Longer life

## Compound air filter



Compound air filter materials imported HV 132U nanometer filter material is processed by our particular processing. Compound 132U nanometer filter materials is developed by Apureda and HV combination, which is made of type "W" materials produced by high polymer with embodied technique. The compound filter materials can meet the demand of tensile strength, tearing strength, burst strength, precision and part of weather ability, and also be better than normal nanometer melt-blown membranes. This compound air filter can be restored with back flushing, and the service life is up to 3000 hours.

Max. Service Life:

**3000** hours

### Parameters:

Initial Differential Pressure:  $\leq 0.2\text{kpa}$

Filtration efficiency:  $\geq 0.1\mu\text{m}$  particles,  $\geq 87\%$

$\geq 0.5\mu\text{m}$  particles,  $\geq 99.5\%$

Service life:  $\leq 3000\text{h}$  (Standard working condition)

Quantitation:  $126\text{g}/\text{m}^2$  /chemical fiber content



# Compound Filters Longer life



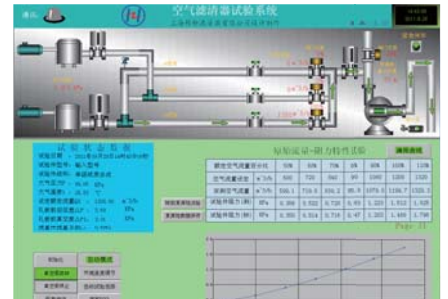
## Compound air filter, the service life is up to 3000hours

Compound nanometer filter media is developed by Apureda & HV. It is produced by high polymer with implantation technique. Apureda unique compound filter media with higher precision can collect and release the dust easily by filter flushing back. Then the service life will be extended.



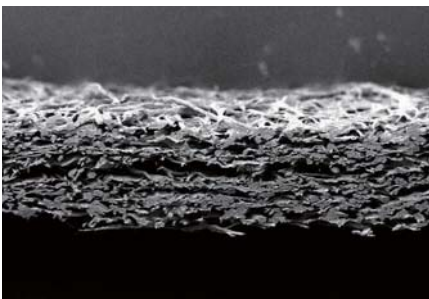
## Imported filter media, stable performance

Imported HV air filter media has the feature of smooth surface, low quantitation, fine fibre, superfine fibre, small aperture etc. Smaller and denser filter media aperture means much more overlapped layer; higher efficiency, more stable performance, more dust collected, and longer service life.



## Energy-saving processing, initial differential pressure less than 0.2Kpa

< 0.2kpa lower initial differential pressure, more slowly working differential pressure increasing, less resistance air flow, and lower suction kinetic energy under same air supply makes our air filters be more competitive.



## High-precision filtration, protecting air end better

Adopting the high-precision filter media can protect air end, and even equipment effectively. Other brands air filter only focus on the service life, and ignores the precisions and superfine particles. Their service life is extended, but the equipment service life is shorted.



## Coiling with injected glue, no deformation, longer service life

Bigger air filters and dust filters adopt the processing of coiling with injected glue to replace the traditional outer iron mesh structure. Thus the filter media is reinforced without any air flow loss and pleating broken. The service life of air filter will be extended, and the filtration efficiency will be increased.

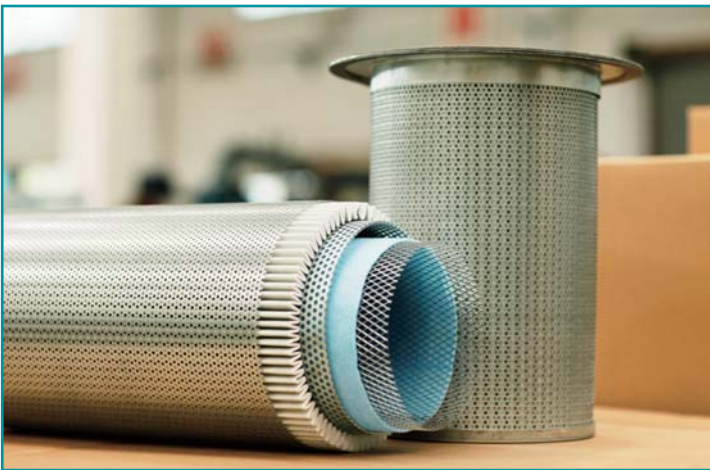


## Various end covers, longer time effective seal

The end covers of plastic air filter and seals are made of high quality materials to keep the effective seal for long time.

# Compound Filters Longer life

## Compound Air Oil Separator



Air oil separators are made with innovated technology of pleated plus wrapped structure with imported premium quality media. It will increase the separation capacity and service life and will decrease the oil consumption and expand the service life under the same condition. The maximum service life can be up to 8000hours.

Pleated Plus Wrapped Structure

Invention Patent  
**200620043249.1**

Max. Service Life:

**8000** hours

### Parameters:

Oil residual After Separation:  $\leq 2\text{PPM}$

Working Temperature:  $<120^{\circ}\text{C}$

Initial Differential Pressure:  $\leq 0.02\text{Mpa}$

Service Life: 6000-8000h (Standard Pressure And Working Conditions)

Installation: Vertical, horizontal

Air Flow: Inlet, Outlet



# Compound Filters Longer life



## Compound air oil separator, longer service life

Imported HV air filter media has the feature of smooth surface, low quantitation, fine fibre, superfine fibre, small aperture etc. Smaller and denser filter media aperture means much more overlapped layer; higher efficiency, more stable performance, more dust collected, and longer service life.



## Imported media, more stable performance

Imported HV media, low differential pressure, higher filter efficiency. At the normal working situation, the oil carried-over is less or equal  $3\text{mg}/\text{m}^3$ , initial DP  $0.02\text{MPa}$ . The other suppliers oil carried-over is normally  $5\text{mg}/\text{m}^3$  even higher, and the initial DP is also higher  $0.02\text{MPa}$ .



## Black lead gasket, three layers protection, more safe

Better electric conduct, three layers safe. First is patent electric conduct technology (Patent no.:200920069035.5). Second is that the gasket is painted with the black lead. Third is that all the filters are strictly checked before shipping out.



## Self-invented glue, end cap never fall off

Researching special glue and connection technology, the end cap will never fall off, it can solve the oil carried-over problem.



## Spiral middle mesh, widely strip, low drag

Air oil separator is adopted by spiral tube technology, making the strip width to be  $137\text{mm}$ . Then the holes area will be bigger and low drag. Which will make the differential pressure is lower. The other brands middle mesh strip width is only  $90\text{mm}$ .



## Patent wrap technology, uniform media tightness

Invented wrap machine (Patent no.:200910199024.3) makes the media wrap are perfectly implemented. It can insure the filters quality and avoid oil carried-over happen.

# Compound Filters Longer life

## Compound Oil Filter



Compound oil filter are made by premium HV fiber glass with special technology which own high filter precision, stable breath freely, more filth allowance and longer service life. The Max. life can be up to 3000hours comparing with normal plant fiber with the same filter precision and flow rate.

Max. Service life:

**3000** hours

### Parameters

Initial differential pressure: <0.25bar

Bypass working pressure: 2.5 bar

Working temperature:<120°C

Filter precision:20μm, 95%

10μm,50%

Service Life: ≤3000h (standard working condition)

# Compound Filters Longer life



## Compound filters, service life up to be 3000hours

Imported HV compound fiberglass, high adsorption capacity, no water absorption just water separation, it owns high filter precision and more filth allowance. The fiberglass media will be longer service life comparing plant fiber at the same filter precision and flow rate.



## Imported media, more stable performance

HV media owns average holes size and stable breathability, high filth allowance, longer service life.



## Precise screw, safer connection

Apureda adopts more strictly company standard for different kinds of screws. It will insure that the screws connection is more reliable, safer performance and better air tight seal.



## Stair filtration, longer service life

The non-woven fabrics are wrapped using alternated method with metal mesh and fiberglass, which can make the oil filter have more capability of filth allowance and more service life.



## Thicker screw plate, bearing more pressure

Apureda oil filters are normally used 4mm thickness screw plate, the other suppliers' normally are used 2.5-3mm thickness plate. That means our oil filters can bear more pressure and will be safer.



## Bypass valve, working at standard pressure

Bypass valve is a safe valve inside of the oil filter to avoid block and stop in high temperature. The standard working pressure is 2.5bar. The other suppliers' oil filter normally can't meet this standard. Then it will affect the air compressor life.



# Compound Filters Longer life



There are contaminants such as moisture, atomy etc. in the unprocessed atmosphere. Each cubic meter air includes 140million solid particles approximately. After the filtration, the oil particles entered into the air with the air-pressure rising, so in the compressed air there are dust, water and oil particles etc.

Apureda pipeline filter adopts the European leading technology, equipped with differential pressure gauge and automatic drain valve. It has the advantages of small volume, high flow rate, high filter efficiency, huge dust content, slight loss of pressure difference, good corrosion resistance performance, long service life and convenient to exchange the filter etc. Each different grade filter is tested via the ISO8573 standard of pipeline filter exhaust oil content testing instrument.

## Grade V Pre-filter

For the removal of particles above 2 $\mu$ m , water separating efficiency $\geq$ 95%. Residual oil content $\leq$ 2PPM w/w. Prevent contamination effectively. As pre-filter for A level precision filter and refrigerated driers. Initial differential pressure:0.01MPa Differential pressure for element change: 0.07MPa

## Grade A Precision filter

For the removal of particles above 1 $\mu$ m Residual oil content $\leq$ 0.1PPM w/w As pre-filter for B level super-fine-filter Initial differential pressure: 0.01MPa Differential pressure for element change: 0.07MPa

## Grade B Super-Fine-Filter

For the removal of particles above 0.01 $\mu$ m. Residual oil content $\leq$ 0.01PPM w/w As pre-filter for activated carbon filter(C) and adsorption compressed air dryer Initial differential pressure: 0.012MPa Differential pressure for element change: 0.07MPa

## Grade C Activated Carbon Filter

For the removal of oil vapor and hydrocarbon odor. Residual oil content $\leq$ 0.003PPM w/w Initial differential pressure: 0.02MPa

## Grade AR Dust Filter

Stainless steel box body Block bacteria and bacteriophage efficiently from compressed air with steam at 12 $^{\circ}$ C passing through regularly to sterilize Times of recycle: 50

Max. Service life:

# 8000

hours

# Compound Filters Longer life



## Compound fine element provides longer service life

The pipeline filter elements are adopted by pleated feature. It can increase the filter area obviously. Service life will be up to 8000hours under clean working conditions.



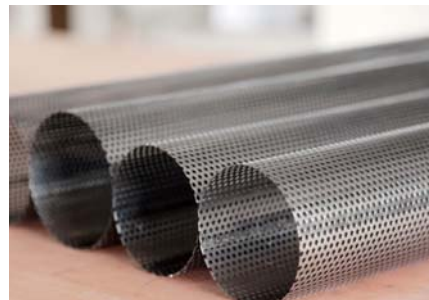
## Imported filter media keeps reliable performance

The pipeline filter elements are made with imported premium filter media with high filtration efficiency. It ensures the oil residual content can reach the system requirement under normal working conditions.



## Condensed media layer prevents secondary pollution.

Adopted by the imported condensed filter media layer, the pipeline filter elements perfectly solves the secondary pollution caused by the foam dropped off during the operation.



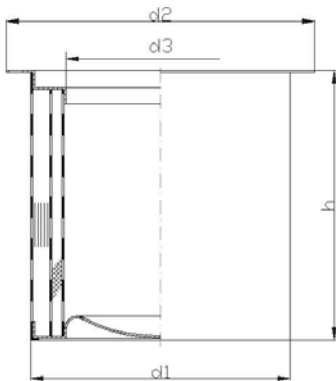
## Stainless steel perforated mesh makes the filter be durable, anti-rust and corrosion resist.

## Air Oil separator Wrapped Media



Air oil separator is the key component to ensure the outlet air quality from the oil-injected screw compressor and oil immersed slide compressor. The premium quality air oil separator will provide outstanding compressed air.

The big oil content is easy to remove via the air oil separator. But the tiny oil content for example the suspended oil particles must be purified from the Nano-grade fiber glass materials. Thus, selecting the suitable fiber glass' s diameter and thickness is necessary. In this case, the Nano-grade filter media can settle the oil mist in top efficiency through blocking, colliding, diffusing and collecting operation. Then, small oil dews quickly assemble to big oil drop. The oil drop pass through the filter layer pushed by the pneumatic and gravity first, and then gather at the bottom of the filter element, finally return to lubrication system from the oil return tube port at the bottom bowl of the filter.



### Parameters:

Oil Residual after Separation:  $\leq 3\text{ppm}$

Working Pressure:  $< 120^\circ\text{C}$

Initial Differential Pressure:  $\leq 0.02\text{MPa}$

Service Life:  $> 4000\text{h}$

Installation: Vertical/Horizontal

Air Flow: Inlet, Outlet

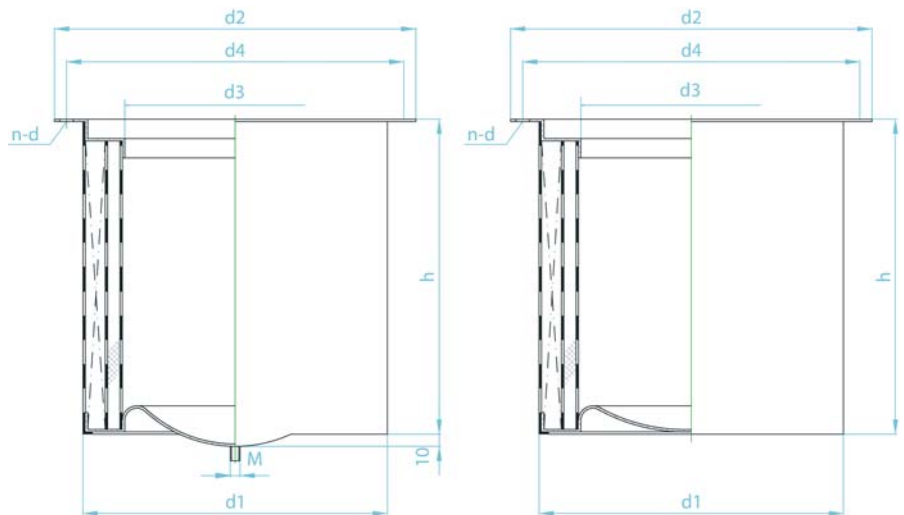
Part No.	Flow Rate $\text{m}^3/\text{min}$	Dimensions (mm)			
		d1	d2	d3	h
32 211 09 140	1	90	120	40	140
32 211 11 181	2	110	135	60	180
32 211 13 167	3.5	135	170	75	160
32 211 13 204	4.5	135	170	75	200
32 211 16 323	8	160	200	98	320
32 211 17 184	5	170	200	108	180
32 211 17 230	6.5	170	200	108	230
32 211 17 305	9	170	200	108	305
32 211 17 400	12	170	200	108	400
32 211 21 360	10	210	270	150	350
32 211 22 308	12	220	273	156	305
32 211 20 402	16	220	290	156	400
32 211 24 356	12	250	346	182	356
32 211 27 400	20	275	328	209	400

Part No.	Flow Rate $\text{m}^3/\text{min}$	Dimensions (mm)			
		d1	d2	d3	h
32 211 27 500	26	275	328	209	500
32 211 30 305	16	300	355	220	305
32 211 30 351	19	300	355	220	350
32 211 30 400	22	300	355	220	400
32 211 30 500	28	300	355	220	500
32 211 30 600	34	300	355	220	600
32 211 30 700	40	300	355	220	700
32 211 35 352	24	350	430	264	350
32 211 35 550	41	350	430	264	550
32 211 40 520	39	400	434	315	520
32 211 40 621	46	400	434	315	620
32 211 48 700	60	480	540	380	700
32 211 53 820	75	530	650	465	820
32 211 53 930	80	530	650	465	930

Remarks: 1.The nominal flow rate is tested under 7bar working pressure. 2.The above displayed items are only for partial models.  
3.OEM is available. 4.Please inquire us for the Flow rate  $> 40\text{m}^3/\text{min}$ .



## Air Oil Separator Pleated Media

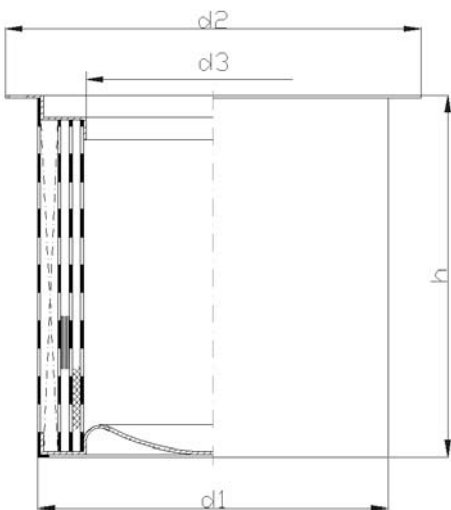


Pleated air/oil separator is new structure in the current world. It is made of high quality imported filter materials. The pleating filter layer can reduce the unit size, and has the advantage of low differential pressure, long service life and high filtration efficiency.

Part No.	Flow Rate m <sup>3</sup> /min	Dimensions (mm)							Fig.
		d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	d <sub>4</sub>	h	n-d	M	
32 212 17 175	3	170	200	98		175			2
32 212 17 225	4	170	174	98		225			2
32 212 17 250	6	170	200	98		250		8	2
32 212 17 480	6	170	245	98		480			1
32 212 22 356	10	220	336	129		356			2
32 212 22 370	10	220	280	129		370			2
32 212 22 400	12	220	268	129		400		8	2
32 212 22 600	16	220	274	129		600			2
32 212 22 500	18	250	350	182		500			2
32 212 27 190	12	275	300	190		190			2
32 212 27 250	16	275	305	190		250			2
32 212 27 400	19	275	355	190		400			2
32 212 27 405	22	275	325	190		450			2
32 212 30 305	15	300	355	213		305			2
32 212 30 457	20	300	374	213		457			2
32 212 30 670	23	300	355	213		670			2
32 212 30 775	26	300	350	213		775			2
32 212 37 412	40	375	431	270		412			2
32 212 37 445	40	375	430	270		445			2
32 212 40 620	29	400	440	315		620			2
32 212 40 650	32	400	440	315		650			2
32 212 45 600	30	450	506	367		600			1
32 212 45 900	43	450	740	367		900			1
32 212 60 520	38	600	670	525		520			2

注：1.The nominal flow rate is tested under 7bar working pressure. 2.The above displayed items are only for partial models.  
3.OEM is available.

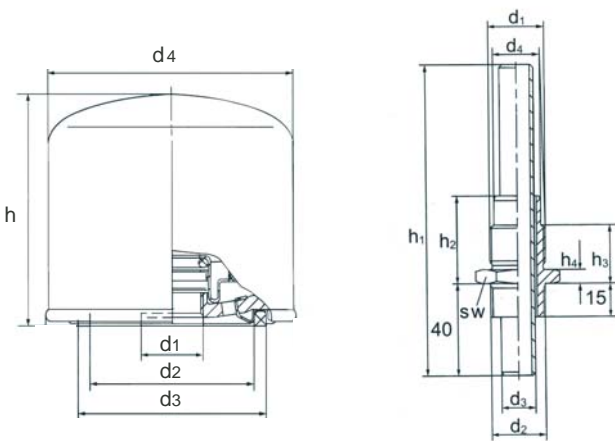
## Air Oil Separator Pleated plus Wrapped media



Part No.	Flow Rate m <sup>3</sup> /min	Dimensions (mm)			
		d1	d2	d3	h
3221230504	28 (7bar)	300	355	213	500
3221230600	33 (7bar)	300	355	213	600
3221235556A	40 (7bar)	350	430	264	550
3221240481	30 (4bar)	400	440	315	480
3221248705	40 (3.5bar)	480	535	380	700
3221253800	51 (3bar)	530	600	415	800

Remarks: 1.Applies for the conditions with lower and single structure separation efficiency.  
 2.Applies for the compressors under large flow rate at low pressure, for example  
 60 m<sup>3</sup>/min@3bar  
 3.The above displayed items are only for partial modes.  
 4.OEM is available.

## Air Oil Separator Spin-On Features



The spin-on separator is the set of filter to seal the element inside the 1.4~2.0Mpa metal housing. This filter has the advantages of small volume, large capacity, easy installation and detachment, elegant appearance, etc.

### Parameters:

Oil Residual after Separation:  $\leq 3\text{ppm}$   
 Initial Differential Pressure:  $\leq 0.025\text{MPa}$   
 Max. Working Pressure: 1.4MPa~2.0MPa

Part No.	Flow Rate $\text{m}^3/\text{min}$	Dimensions (mm)					Replaced Models
		d1	d2	d3	d4	h	
AA 0710	1.0	M22X1.5	62	72	76	127	LB 719/2
AA 0920	2.0	M24X1.5	62	72	94	212	LB 962/2
AA 1330	3.0	M39X1.5	100	110	135	177	LB 1374/2
AA 1040	4.0	M32X1.5	94	104	108	260	LB 11102/2
AA 1355	5.5	M39X1.5	100	110	135	302	LB 13145/3
AA 1360	6.0	M39X1.5	100	110	135	302	LB 13145/20

Part No.	Dimensions (mm)									Applied for Separator P/N
	d1	d2	d3	d4	h1	h2	h3	h4	SW	
AA 024 15 981	M22X1.5	M24X1.5	14	19.2	135	38	25.4	6	27	AA 0710
AA 027 15 991	M24X1.5	M27X1.5	15	19.8	135	38	25.4	6	32	AA 0920
AA 036 15 991	M32X1.5	M36X1.5	22	28.1	155	41.5	27.4	6	41	AA 1040
AA 042 15 991	M39X1.5	M42X1.5	30	35.8	175	47.5	34.4	7	46	AA 1330 AA 1355



# Spin-on Air Oil Separator Assembly



Spin-on Air Oil Separator Assembly should be installed at the easy fixed and pulled down places. It can fit vertically or hanging at the pipeline backward the pressure tank. Please pay attention on the direction indication.  $\phi 6 \times 1$  steel or stainless steel oil return tube should be installed on the top of the screw connection. The oil return tube is provided by customer.

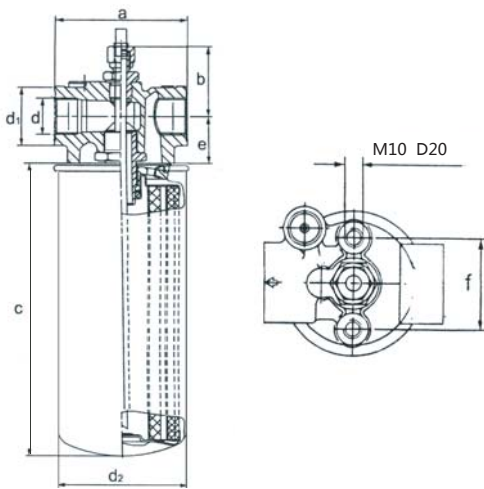


Fig.1

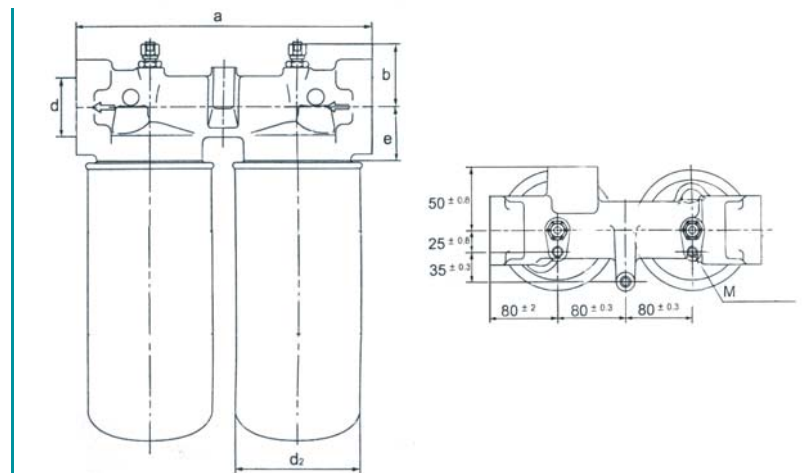
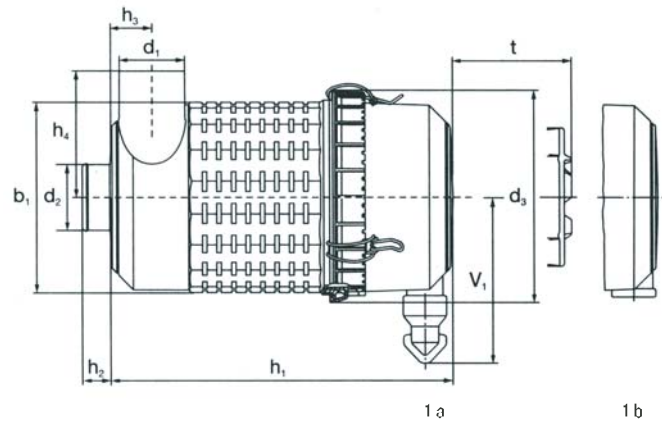


Fig.2

Assembly No.	OS P/N	Fig	Folw Rate m <sup>3</sup> /min	Dimensions (mm)								Max. Working Pressure(MPa)
				a	b	c	d	d1	d2	e	f	
AAT 0710	AA 0710	1	1	95	50	127	G1	42	76	34	47.5	2
AAT 0902	AA 0920	1	2	95	50	212	G1	42	93	34	47.5	2
AAT 1330	AA 1330	1	3	135	54	177	G1 <sup>1</sup> / <sub>4</sub>	50	136	41	60	2
AAT 1040	AA 1040	1	4	135	54	260	G1 <sup>1</sup> / <sub>4</sub>	50	108	41	60	1.4
AAT 1355	AA 1355	1	5.5	135	54	302	G1 <sup>1</sup> / <sub>4</sub>	50	136	41	60	2
AAT 1355X2	AA1355X2	2	11	320	68	302	G2		136	58		2

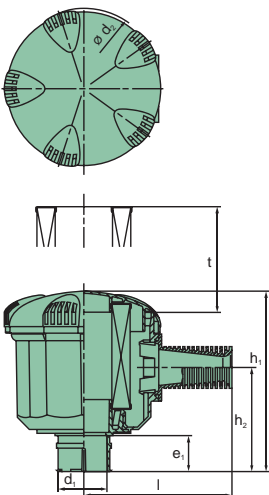
Remarks: Extra Separator DP Gauge is available.

# Plastic Air Filter Assembly



The housing is made of impact-resistant polypropylene and the support is composed of strengthened nylon and stainless steel spring sheet. The support and the cylinder could be assembled at different positions that make it be convenient for the customers to operate. The filter element is metal-free mesh structure which is easier for recycling. The continuous working temperature range is  $-40^{\circ}\text{C}\sim 80^{\circ}\text{C}$ .

Part No.	Fig	Folw Rate $\text{m}^3/\text{min}$	Dimensions (mm)									
			b1	b2	d1	d2	d3	h1	h2	h3	h4	t
32 131 00 031	1b	2-4.5	173	48	62	60	198	327	27	42	112	304
32 131 00 061	1a	4-8	223	63	82	80	248	383	32	52	144	359
32 131 00 081	1a	6-12	264	73	102	100	288	408	37	62	174	384
32 131 00 101	1a	7.5-15	295	87	110	110	323	414	27	65	190	384
32 131 00 201	1a	15-21	325	92	132	130	353	548	32	76	212	500
32 131 00 301	2d	28-32	390	114	150	150	418	598	32	85	241	550
3213100201*2	1b	30-42	650	184	264	260	706	1096	64	152	424	1000
3213100301*2	1b	56-65	780	228	300	300	836	1196	64	170	482	1100



Part No.	Folw Rate $\text{m}^3/\text{min}$	Dimensions (mm)							
		d1	d2	e1	e2	h1	h2	i	t
32 131 00 011	1-1.5	52	145	25	53	136	76	116	79
32 131 00 012	1-1.5	60	145	25	53	136	76	116	79
32 131 00 013	1-1.5	40	145	25	53	136	76	116	79
32 131 00 014	1-1.5	48	145	25	53	136	76	116	79
32 131 00 015	1-1.5	50	145	25	53	136	76	116	79
32 131 00 021	2-3	60	181	25	59	193	117	133	135
32 131 00 022	2-3	48	181	25	59	193	117	133	135
32 131 00 023	2-3	50	181	25	59	193	117	133	135
32 131 00 024	2-3	52	181	25	59	193	117	133	135

# Iron Shell Air Filter Collection

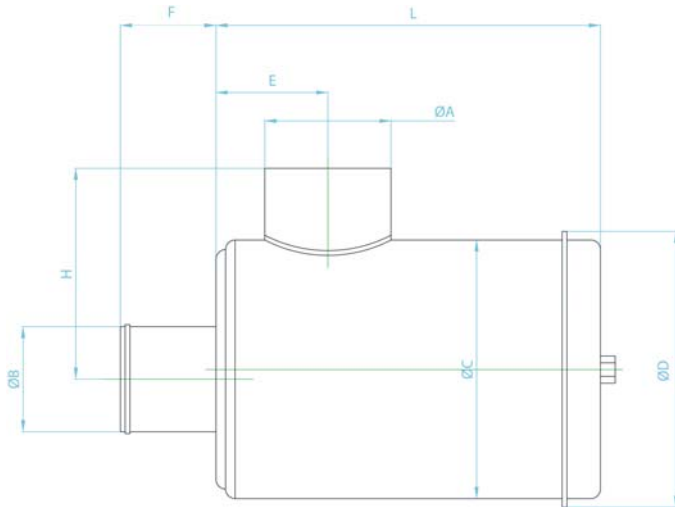


Fig 1

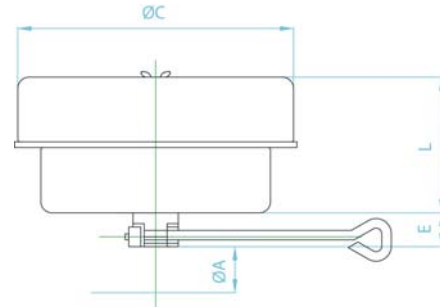


Fig 2

Part No.	Flow Rate m <sup>3</sup> /min	Dimensions (mm)								Fig
		φ A	φ B	φ C	φ D	E	F	H	L	
32 121 00 021	2	48	48	133	146	50	60	103	160	1
32 121 00 031	3	70	/	245	/	20	/	/	120	2
32 121 00 041	4	76	60	165	178	83	60	118	316	1
32 121 00 061	6	102	80	190	207	95	80	185	360	1
32 121 00 101	10	110	100	240	258	105	85	185	385	1
32 121 00 123	12	132	110	270	285	115	100	210	400	1
32 121 00 202	20	152	130	356	373	125	110	257	475	1
32 121 00 251	25	152	152	356	373	125	110	257	575	1
32 121 00 301	30	178	178	420	422	170	105	305	540	1
32 121 00 401	40	219	210	420	422	170	105	305	720	1
32 121 00 501	50	200	200	420	432	80	80	310	785	1



# Air Filter Element

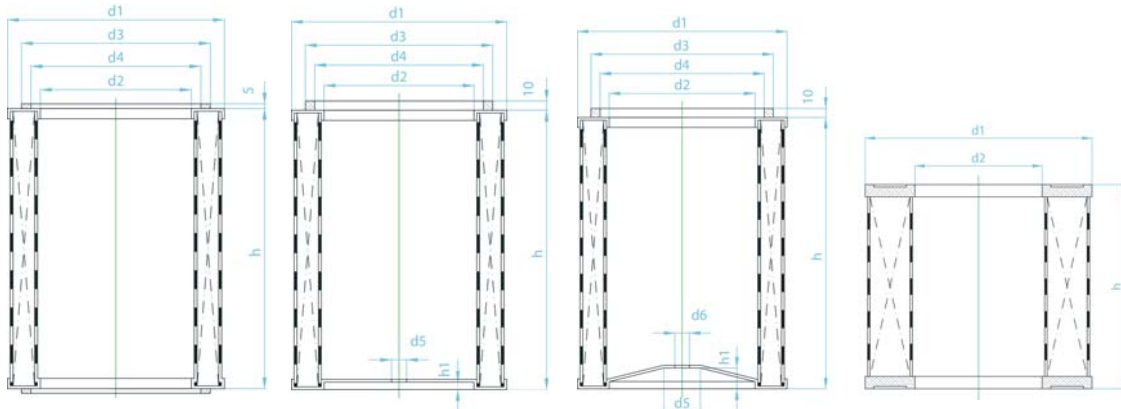


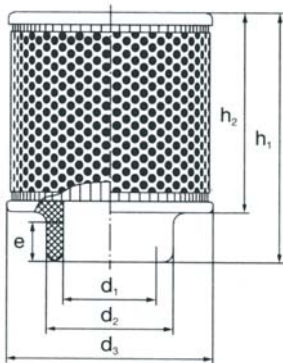
Fig 1

Fig 2

Fig 3

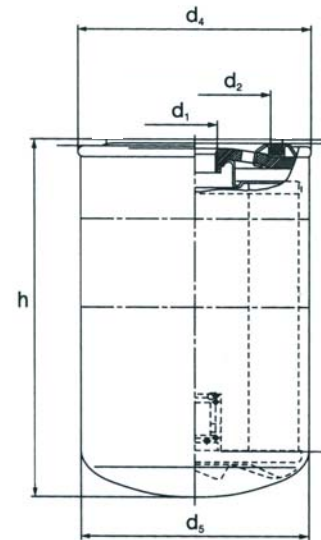
Fig 4

Part No.	Folw Rate m <sup>3</sup> /min	Fig	Dimensions (mm)								Replaced Models
			d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	d <sub>4</sub>	d <sub>5</sub>	d <sub>6</sub>	h	h <sub>1</sub>	
32 112 32 400	25	1	323	212	300	260	/	/	400	/	1058A-110
32 112 27 120	6	1	270	165	220	180	/	/	120	/	99273906
32 111 23 300	10	2	230	153	202	182	/	11	300	11	71131-66010
32 111 35 430	42	2	350	240	305	285	/	13.5	430	11	71182-66010
32 111 28 455	35	2	282	165	230	210	/	16	455	10	C11158/1054
32 111 16 228	6	3	164	87	118	98	/	24	228	12	4520154244W
32 111 30 460	28	3	300	190	240	220	40	10.5	460	13	92035948
32 111 35 345	18	3	350	240	300	280	80	14	345	32	1030097900
32 114 38 178	/	4	380	203	/	/	/	/	178	/	39903281
32 114 27 251	/	4	278	156	/	/	/	/	251	/	42855403
32 114 35 104	4.5	4	250	298	/	/	/	/	104	/	52438
32 114 38 362	40	4	380	206	/	/	/	/	362	/	39903265



Part No.	Dimensions (mm)			Replaced Models
	d <sub>1</sub>	d <sub>3</sub>	h <sub>2</sub>	
32 113 13 125	76	130	125	39588470
32 113 13 250	76	130	250	39588777
32 113 15 342	99	159	342	1613740700
32 113 19 370	117	194	370	1613740800
32 113 21 283	79.5	216	283	42855411
32 113 22 370	126	220	370	1613800400
32 113 24 323	152	246	325	1613950100

## Spin on Oil Filter



### Parameters:

Filtration Precision: 10~30 $\mu$ m Initial Differential Pressure:  $\leq$ 0.03MPa  
 Max. Working Pressure: 1.4~2.5MPa

Part No.	Folw Rate m <sup>3</sup> /min	Dimensions (mm)					Replaced Models
		d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	d <sub>5</sub>	h	
AO 0702	20	3/4-16UNF	62	72	76	127	W 719/5
AO 0908	25	3/4-16UNF	62	72	94	97	W 920
AO 0906	30	3/4-16UNF	62	72	94	112	W 930
AO 0905	40	3/4-16UNF	62	72	94	142	WD 940
AO 0904	40	1-12UNF	62	72	94	142	W 940/5
AO 0903	50	1-12UNF	62	72	94	172	WD 950
AO 0901	70	1-12UNF	62	72	94	212	WD 962
AO 1001	100	1 <sup>1</sup> / <sub>8</sub> -16UN	93	103	108	262	W 11102
AO 1305	80	1 <sup>1</sup> / <sub>2</sub> -16UN	100	110	135	177	WD 1374
AO 1306	80	G11/4	100	110	135	177	W 1374/2
AO 1301	180	1 <sup>1</sup> / <sub>2</sub> -16UN	100	110	135	302	WD 13145 Max. Working Pressure 16bar
AO 1358	180	1 <sup>1</sup> / <sub>2</sub> -16UN	100	110	135	302	WD 13145 Max. Working Pressure 25bar
AO 1101	/	G1 <sup>1</sup> / <sub>4</sub>	100	110	118	283	/
AO 1102	/	1 <sup>3</sup> / <sub>4</sub> -12UN	79	88	118	283	/
AO 1103	/	1 <sup>3</sup> / <sub>4</sub> -12UN	100	110	118	283	/
AO 1104	/	G11/4	100	110	118	153	/
AO 1302	/	M38*1.5	100	110	135	302	/
AO 1304	/	M38*1.5	100	110	135	202	/

Remarks : 1.d<sub>1</sub> can be customized

2.The precision and media can be changed according to customers' requirements

## Air Oil Separator For Slide Vane Compressor and Vacuum Pump

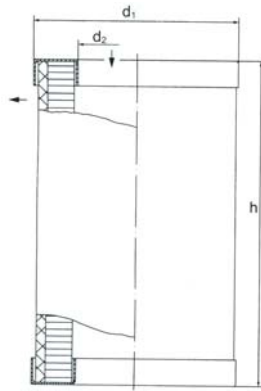


Fig 1

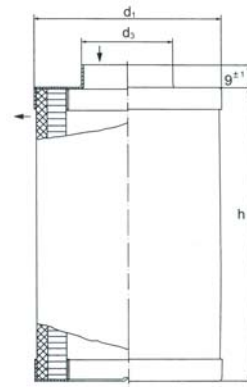


Fig 2

The air flow direction of this series is from inside to outside. The filter element in Fig 2 is much applicable for oil-immersed vacuum pump, and can work in any positions.

Oil Residual Content after Separation :  $\leq 3\text{PPM}$

### Parameters of Slide Vane Compressor Air Oil Separator

Part No.	Flow Rate m <sup>3</sup> /min	Dimensions (mm)				Fig
		d1	d2	d3	h	
32 215 70 100	0.5	70	40	/	100	1
32 215 70 175	0.9	70	40	/	175	1
32 215 70 200	1	70	40	/	200	1
32 215 70 255	1.3	70	40	/	255	1
32 215 70 403	2.4	70	40	/	403	1
32 215 70 250	2	100	70	/	250	1
32 215 70 205	0.84	70	/	31	205	2
32 215 70 206	1.04	70	/	27	205	2
32 215 70 255	1.4	70	/	27	255	2

### Parameters for Vacuum Pump Air Oil Separator

Part No.	Flow Rate m <sup>3</sup> /min	Dimensions (mm)			Fig
		d1	d3	h	
32 217 71 130	0.7	71	35	130	2
32 217 71 200	1.1	71	35	200	2
32 217 71 250	1.4	71	35	250	2
32 217 71 375	2	71	35	375	2
32 217 71 500	2.8	71	35	500	2



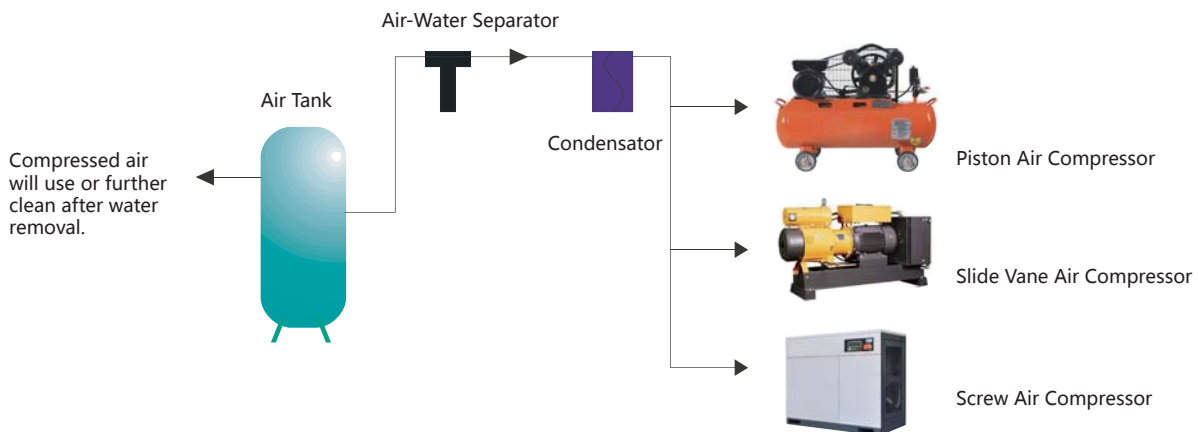
## Air Water Separator for Compressed Air



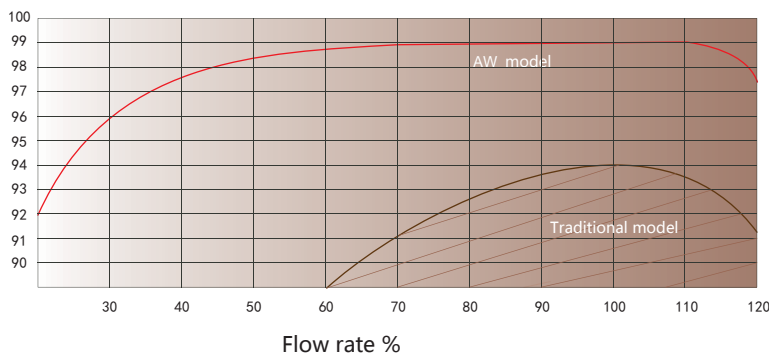
The primary mission of compressed air purifier is to remove moisture from compressed air. The moisture will erode the pipe, valve, meter and equipment, which will raise the cost.

Apureda Group's air water separator utilizes the theory that combines the centrifugation, afflux, gravity and collision. As the necessary pre-treatment device of compressed air pipeline filter, refrigeration air dryer and desiccant air dryer, our air water separator can effectively remove the liquid moisture in the compressed air.

### Application:



### Drainage Efficiency:



AW Series performance is much better than traditional separation.

# Air Water Separator for Compressed Air

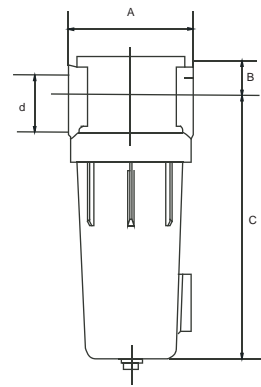
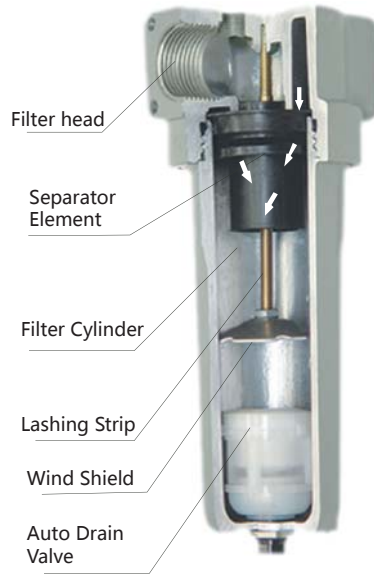


Fig 1: Aluminum Alloy Casting With Built-In Auto Drain Valve

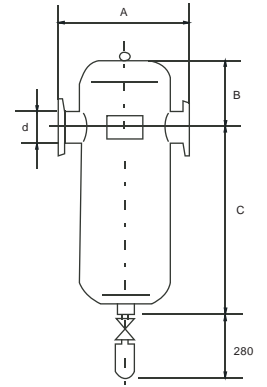


Fig 2: Carbon Steel Casting External Type Auto Drain Valve.

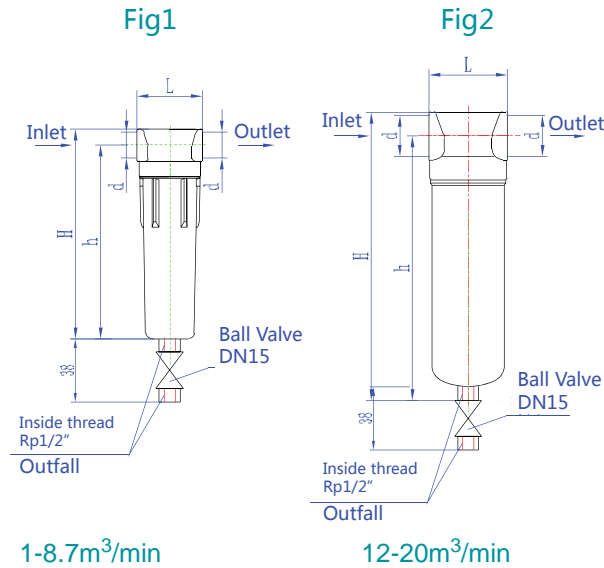
## Parameters:

Max Working Pressure : 1.6MPa    Drainage Efficiency : ≤99%    Working Temperature : 66°C

Part No.	Fig	Flow Rate m <sup>3</sup> /min (0.7MPa)	Inlet/outlet connector Dimensions	Dimensions (mm)			Material
				A	B	C	
AW 0150	1	1.5 ~ 2.4	G <sup>1</sup> / <sub>2</sub>	89	26	166	Aluminum Alloy
AW 0216	1	2.5 ~ 3.6	G <sup>3</sup> / <sub>4</sub>	89	26	166	
AW 0270	1	3.7 ~ 5.4	G1	89	26	166	
AW 0270A	1	3.7 ~ 5.4	M33 X 2	89	26	166	
AW 0450	1	5.5 ~ 8.6	G1 <sup>1</sup> / <sub>4</sub>	120	41	256	
AW 0540	1	8.7 ~ 13	G1 <sup>1</sup> / <sub>2</sub>	120	41	256	
AW 1200	1	14 ~ 29	G2	160	51	413	Aluminum Filter Head Stainless Steel Filter Cylinder
AW1200A	1	14 ~ 29	M60 X 2	160	51	413	
AW 2400	1	30 ~ 40	G2 <sup>1</sup> / <sub>2</sub>	216	65	660	Carbon Steel
AW 3000	1	41 ~ 50	G3	216	65	750	
AW 2520	2	30 ~ 42	DN 80	450	180	620	
AW 3300	2	43 ~ 55	DN 100	510	210	660	
AW 4080	2	56 ~ 68	DN 125	580	280	830	
AW 4800	2	69 ~ 80	DN 150	750	300	910	

Remarks: 1. 1.6 Mpa above and other type separator can also be customized  
2. Any dimensions are subject to change without notice.

# Pipeline Filter



Max. Working Pressure:  
1.0MPa  
Working Temp. :  
1.5-65°C

Part No.	AM0060- 1.0-*-*#	AM0090- 1.0-*-*#	AM0216- 1.0-*-*#	AM0288- 1.0-*-*#	AM0432- 1.0-*-*#	AM0522- 1.0-*-*#	AM0720- 1.0-*-*#	AM0960- 1.0-*-*#	AM1200- 1.0-*-*#
Grade	V A B C (AR)								
Flow Rate m <sup>3</sup> /min	1	1.5	3.6	4.8	7.2	8.7	12	16	20
Inlet & Outlet Dimension	Rp1/2"	Rp3/4"	Rp1	Rp1 1/2"	Rp1 1/2"	Rp1 1/2"	Rp2"	Rp2"	Rp2 "
Total Height mm	231	231	299	399	399	399	463	663	863
Bottom Height mm	205	205	259	359	359	359	413	612	812
Inlet & Outlet Widthmm	89	89	120	120	120	120	160	160	160
Weight kg	0.9	1.1	2.1	2.6	3.2	7	8.3	11	12
Element No.	M010-*	M015-*	M036-*	M048-*	M072-*	M087-*	M120-*	M160-*	M200-*
Fig. No.	Fig1	Fig1	Fig1	Fig1	Fig1	Fig1	Fig1	Fig2	Fig2

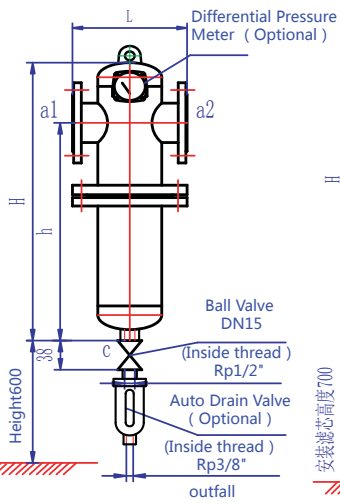
Remarks : 1.\* stand for precision grades of filter element.

2.The handle drain valve is the standard accessories in pipeline filter . Other parts need to buy separately.

3.# stand for other accessories : please check the details in our accessories list.

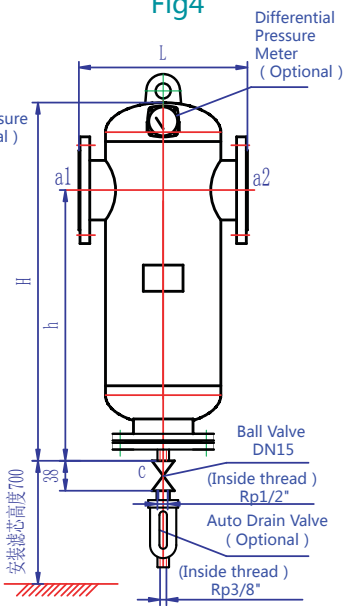
# Pipeline Filter

Fig3



24-40m<sup>3</sup>/min

Fig4



60-500m<sup>3</sup>/min



## Accessories List

Item	Brand ( Model)	Code	Remark
Pipeline Filter	APUREDA	/	/
Square D.P. Meter	QD-II	S	≤ 20m <sup>3</sup> /min
Pipe D.P. Meter	QD-I	G	≥ 24m <sup>3</sup> /min
Elec. Auto. Drain Valve	OPT	J	Pmax<1.6Mpa
Floating Ball Auto. Drain	AD402	M	Pmax<1.0Mpa
Sphere Auto. Drain Valve	HAD20B	N	Pmax<1.6Mpa

Max Working Pressure : 1.55MPa Working Temp : 1.5-65°C Discharging Way : Automatic Or Manual

Part No.	AM1440- 1.6-*-*#	AM1920- 1.6-*-*#	AM2400- 1.6-*-*#	AM2700- 1.6-*-*#	AM3900- 1.6-*-*#	AM5100- 1.6-*-*#	AM8100- 1.6-*-*#	AM9600- 1.6-*-*#	AM12000- 1.6-*-*#	AM14400- 1.0-*-*#	AM18000- 1.0-*-*#	AM24000- 1.0-*-*#	AM30000- 1.0-*-*#
Grade	V A B C (AR)												
Flow Rate m <sup>3</sup> /min	24	32	40	45	65	85	135	160	200	240	300	400	500
Inlet&Outlet Flange Size ala2	65	80	80	80/100	125	150	150	200	200	250	250	300	300
Total Height(H) mm	778	878	980	1050	1055	1227	1313	1270	1410	1352	1492	1600	1625
bottom height(H) mm	613	713	815	885	821	993	1036	980	1120	1022	1107	1195	1205
Inlet&Outlet Width (L) mm	285	285	285	285	450	450	510	560	560	620	620	650	700
Housing Diameter mm	Ø150	Ø159	Ø159	Ø159	Ø308	Ø308	Ø359	Ø409	Ø409	Ø460	Ø460	Ø510	Ø560
Differential Pressure Gauge Connector Size	Rp1/4"	Rp1/4"	Rp1/4"	Rp1/4"	Rp1/4"	Rp1/4"	Rp1/4"	Rp1/4"	Rp1/4"	Rp1/4"	Rp1/4"	Rp1/4"	Rp1/4"
Outfall Size C	Rp1/2"	Rp1/2"	Rp1/2"	Rp1/2"	Rp1/2"	Rp1/2"	Rp1/2"	Rp1/2"	Rp1/2"	Rp1/2"	Rp1/2"	Rp1/2"	Rp1/2"
Weight kg	45	50	60	72	96	130	188	203	239	260	298	349	390
Filter Element No.	M240-*	M320-*	M400-*	M450-*	M320-*	M450-*	M450-*	M400-*	M500-*	M400-*	M500-*	M500-*	M500-*
Filter Element Quantity	1	1	1	1	2	2	3	4	4	6	6	8	10
Fig No.	fig3	fig3	fig3	fig3	fig4	fig4	fig4	fig4	fig4	fig4	fig4	fig4	fig4

- Remarks:1. \*stand for precision grades of filter element  
 2.The manual drain valve is the standard accessories in pipeline filter . Other parts need to buy separately  
 3.# stand for other accessories : please chek the details in our accessories list 4.1.6-3.2Mpa filter can also be customized  
 5.More special demands can be customized.

## Pressure Correction Coefficient List

Pressure	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	1.5	1.6
Correction Coefficient	0.25	0.37	0.5	0.62	0.75	0.87	1	1.12	1.25	1.37	1.5	1.62	1.75	1.87	2	2.12

Remarks:When the working pressure except 0.7Mpa,it is better to divide the flow rate by above correction coefficient,then select the required models





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