





CULINARY STEAM FILTER ISC16 – ISC16I

DESCRIPTION

The ISC16 high efficiency filters are used to remove contaminated particles from gases such as steam and compressed air.

The optimized construction of these units offers low differential pressure at high flow rates.

All sizes are build in two halves. Up to DN 3" / DN80 they are joined by a food industry fitting according to DIN 11851 and the larger sizes DN100 to DN200 by flat flanges fixed with bolts and nuts.

The filter elements (replaceable) are made of sintered austenitic stainless steel.

MAIN FEATURES

Several retention rates available

Good durability against aggressive gases

Porosity level is more than 50% ensuring high particle and dirt load capacity as well as good flow rate at a low differential pressure.

Regeneration by ultrasonic bath.

STANDARD SURFACE FINISH

Internal parts: ≤ 0,8 microns Ra

External: Satin bead blast finish - 1,6 microns Ra

Mechanical polished as option

OPTIONS: Different kind of connections and dimensions

USE: Steam, compressed air and other gases

(Group 2).

AVAILABLE MODELS: ISC16 - 1.4301 (AISI 304)

ISC16I - 1.4404 (AISI 316L)

RETENTION RATES: 1, 5 and 25 micron

SIZES: DN1/4" to DN 3" threaded

DN10 to DN 80 flanged

DN100 to DN 200 flanged on request

PIPE CONNECTIONS: Threaded BSP or NPT

Flanged EN PN16 or ANSI class 150lbs

Welded ends and other connections on request.

INSTALLATION: Horizontal installation always with the drain connection

pointing downwards. See IMI, installation and

maintenance instructions.

CE MARKING (PED - European Directive)						
Ps 16 bar Ps 12 bar Category						
DN10 to DN40; DN1/4" to DN 11/2"	/	SEP				
DN50L to DN80L; DN2"L to DN3"L	1	1				
/	DN80H; DN 3"H	2				

The product carries the CE mark when falling in category 1 and above.

DN50L to DN80L; DN2"L to DN3"L / 1
/ DN80H; DN 3"H 2

CE Marking: This product has been designed for use on water, steam, air and other gases which are in Group 2 of the European PED-Pressure Equipment Directive in use and it complies with those requirements.









STEAM FILTER DATA INQUIRY					
Steam flow rate	Kg/h				
Saturated steam operating pressure	bar				
Allow able pressure drop (0,07 bar max. recommended)	bar				
Housing material	1.4301 or 1.4404				
Size	DN				
Pipe connections	BSP, Flanged PN16,				
Filter element retention rate	1, 5 or 25 micron				

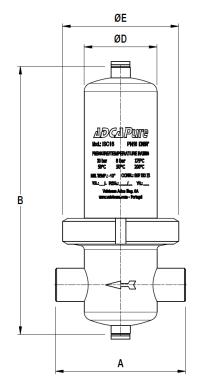
LIMITING CONDITIONS						
Maximum allow able pressure	DN10-80L	16 bar				
Iviaximum allow able pressure	DN80H	12 bar				
Maximum allow able temperature		200 °C				
Minimum allow able temperature	-20 °C					
	EPM	8,5 bar @ 178 °C				
Maximum operating pressure	FLUORAZ	10 bar @ 200 °C				
Minimum operating temperature	-	0 °C				
Maximum differential pressure		5 bar				
Max. cold hydraulic test pressure	DN10-80L	20,8 bar				
iviax. cold flydraulic test pressure	DN80H	15,6 bar				

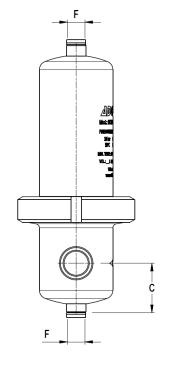
			AF	PROXIMATE	DIMENSI	ONS (mm)				
SIZE DN a)	A Screwed	A Tube weld	A Flanged PN16	A Flanged 150lbs	В	С	D	E	F	VOL. * dm3	WGT ** Kg
08 - 1/4"	108	108	/	/	220	55	70	112	1/4"	0,6	1,8
10 - 3/8"	108	108	180	1	248	55	70	112	1/4"	0,7	1,9
15 - 1/2"	108	108	180	203	248	55	70	112	1/4"	0,7	2
20 - 3/4"	125	125	202	230	272	55	70	112	1/4"	0,8	2,2
25 - 1"	125	125	212	247	298	74	85	127	1/4"	1,3	2,8
32 - 11/4"	140	140	220	254	350	74	85	127	1/4"	1,6	3,2
40 - 11/2"	170	170	254	294	388	93	104	148	1/4"	2,8	4,6
50L-2"L	170	170	260	297	463	93	104	148	1/4"	3,2	4,7
50H - 2"H	170	170	260	297	590	93	104	148	1/4"	4,5	5,3
65 - 21/2"	216	216	306	356	740	107	129	178	1/4"	8,9	8,3
80L - 3"L	216	216	316	356	1002	111	129	178	1/4"	12,2	9,7
80H - 3"H	240	240	340	380	1027	113	154	210	1/4"	17,8	13,3

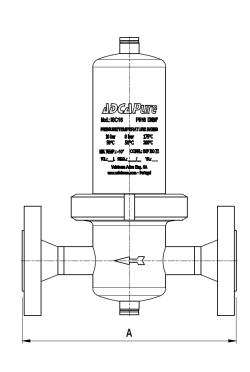
Larger sizes up to DN 200 on request.

- a) Suffix L corresponds to low capacity design; suffix H corresponds to high capacity .
- * Volume correspond to the class PN16 design.

Consult factory for certified dimensions. Dimensions subject to change without notice.







We reserve the right to change the design and material of this product without notice.

^{**} Weight correspond to the class PN16 design.



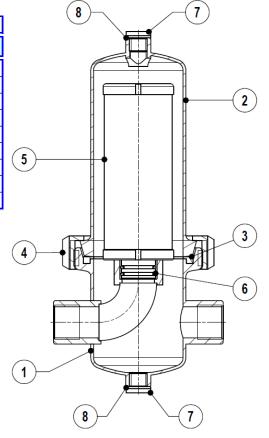


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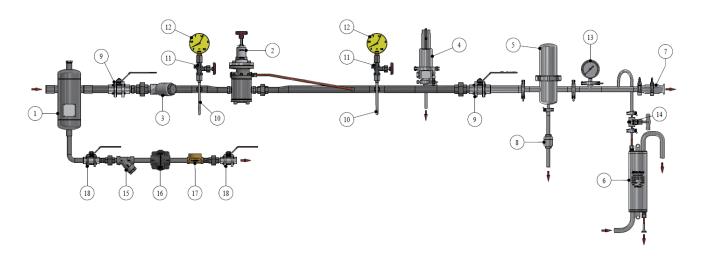
	MATERIALS						
POS.	DESIGNATION	ISC16	ISC16I				
1	Filter housing bowl	AISI 304 / 1.4301	AISI 316L / 1.4404				
2	Filter housing cover	AISI 304 / 1.4301	AISI 316L / 1.4404				
3	* Seal	EPM, FLUORAZ	EPM , FLUORAZ				
4	Closing ring	AISI 304 / 1.4301	AIS 304 / 1.4301				
* Filter element		Sintered AISI 316L	Sintered AISI 316L				
5 Filter end caps		AISI 304 / 1.4301	AISI 304 / 1.4301				
6 * Filter seal o-rings (2)		EPM , FLUORAZ	EPM , FLUORAZ				
7	Plug	AISI 304 / 1.4301	AISI 304 / 1.4301				
8	Gasket	PTFE	PTFE				

^{*} Available spare parts.

FDA seals certificate available if requested along with the order.



TYPICAL INSTALLATION - FILTERED STEAM PRESSURE REDUCING STATION



	MATE	RIALS	
POS.	DESIGNATION	POS.	DESIGNATION
1	ADCA S16S Steam centrifugal humidity separator	10	ADCA GSU Gauge siphon
2	ADCA PRV47 Pilot operated pressure regulator	11	ADCA GC-400 Gauge cock
3	ADCA IS140 Y Strainer	12	ADCA MAN-100 Pressure gauge
4	ADCAPure SRV6 Safety valve	13	ADCAPure MAN10P Pressure gauge
5	5 ADCAPure ISC16 Culinary steam filter		ADCAPure NV400P Sanitary needle valve
6	ADCAPure SC32P Sample cooler	15	ADCA IS140 Y Strainer
7	Sanitary check valve	16	ADCA FLT17 Float and thermostatic steam trap
8	ADCA TSS22 Steam trap	17	ADCA SW12 Sight glass
9	ADCA M3S1 Three piece ball valve	18	ADCA M3S1 Three piece ball valve





ORDERING CODES ISC16 FILTER HOUSING							
Filter Model	ISC16	. Р	Α	. 08			
ISC16 Filter housing AISI 304 - 1.4301	ISC16						
ISC16I Filter housing AISI 316L - 1.4404	ISC16I						
Housing seal material							
EPM (up to 180 °C)		Р					
FLUORAZ (up to 200 ℃)		F					
Pipe connection							
Threaded BSP ISO 7/1 Rp			Α				
Threaded NPT ANSI B1.20.1			С				
Tube weld			Н				
Flanged EN1092-1 PN16							
Flanged ANSI B16.5 150#			U				
Size							
DN 08 or DN 1/4"							
DN 10 or DN 3/8"				10			
DN 15 or DN 1/2"				15			
DN 50L or DN 2" L				50L			
DN 50H or DN 2" H		50H					
Special / Ext	ras a)				Ε		

a) Full description or addicional codes have to be added in case of non-standard combination.

ORDERING	CODES -	FII TFR	FI FMFNT
OIVELVIII	OULU		

Filter Element Model	ISFE		Р	0310	01	
ISFE Filter element AISI 316L - 1.4404	ISFE					
Filter to Housing Sealing O-rings						
Without sealing o-rings			(1)			
EPM (up to 180 °C)			Р			
FLUORAZ (up to 200 ℃)			F			
Filter Size According to Housing DN Connection	on					
DN 08 - 1/4"				0310		
DN 10 - 3/8"				0410		
DN 15 - 1/2"				0420		
DN 20 - 3/4"				0520		
DN 25 - 1"				0525		
DN 32 - 11/4"				0725		
DN 40 - 11/2"				0730		
DN 50 L - 2" L				1030		
DN 50H - 2" H				1530		
DN 65 - 21/2"				2030		
DN80 L - 3" L				3030		
DN 80H - 3" H				3050		
Retention Rate						
1 micron		•			01	
5 micron					 05	
25 micron					25	L
Special / Extras b)						Е

b)Full description or addicional codes have to be added in case of non-standard combination.

(1) Omitted; Order example:

1 Adcapure filter housing ISC16 EPM seals DN 2" L threaded BSP DN 2" Code: ISC16.PA.50L 1 ISFE filter element with 5 micron retention rate for the above mention filter Code: ISFEP1030.05 Note: we recommend a second filter element as a spare part to ensure a minimum downtime when replacing the one in use after saturation.

