



# Gasparini S.r.l.

Since 1986 development and production of industrial air filter cartridges



 **DICO FILTRO**

Rua Dr. Afonso Cordeiro, 80 Tel. +351. 229 385 139  
4450-001 MATOSINHOS Fax. +351. 229 385 140

[geral@dicofiltro.com](mailto:geral@dicofiltro.com)

[www.dicofiltro.com](http://www.dicofiltro.com)

**Gasparini Srl**, founded in 1986, is a valuable and experienced partner in design and production of filter cartridges for air treatment and industrial dedusting applications.

Due to our specific expertise gained throughout our many years of operation, we grant reliability and a high quality level of our products, designed to fit the particular requests of our Clientele. In fact, further to a vast standard product range, our company structure allows us to develop and manufacture ad-hoc solutions based on our customers' requirements. Send us a sketch, drawing or sample, then we can develop Your product. Any necessity You have can be examined by direct technical survey and support at Your premises.

**Common applications of our cartridges:**

- Powder coating
- Processing and pneumatic conveying of plastic compounds and other granules
- Metal welding
- Laser- and plasma cutting
- Burring and grinding
- Sandblasting and shotblasting
- Cutting and processing of marble and other natural stone
- Production and decoration of ceramic tiles and bone china
- Tank and silo venting filtration
- Fire extinguisher emptying/filling lines
- Laser cartridge production and remanufacturing
- Dosing stations, colour kitchens, production of dry colour pigments
- Chemical and pharmaceutical industry
- Food industry
- Oil and Gas, Gas turbines
- Mining and tunnel works, perforating machines

**Common types of pollutants to be filtered:**

- Powder paint
- Cutting and welding fumes
- Oil mist
- Abrasive dust (metal, glass, etc.)
- Asbestos and mineral dust
- Plastic powder and fragments
- Metallic dust (flame spraying etc.)
- Sticky/oily dust
- Laser toner, colour pigments
- Graphite, Talc
- Mascara, cosmetics, extracts/essences, perfumes
- Marble and other natural stone, sand or ceramic dust
- Fire extinguishing powder
- Medical preparations and related raw material (compresses, bags, acid or alkaline powders)
- Tea, sugar, flavours, wheat, flour, other foodstuff etc.
- Fertilizers, herbicides, dyes etc.
- Raw, re refined or residual oil

**Filter media, certified by the German IFA Institut (ex-BIA/BGIA)**

**Impregnated Cellulose** with base weight from 115 to 210 gr/sqm, possibility of the following treatments:

- Meltblown
- Flame retardant
- Nanofibres

**Polyester** with base weight from 130 to 270 gr/sqm, possibility of the following treatments:

- Alumination/ Antistatic
- Te flonation (Oil- and water-repellent)
- Meltblown
- Flame retardant
- Nanofibres
- PTFE-Membrane

**Polypropylene** with base weight from 150 to 200 gr/qm

## Construction features

Our filter cartridges are made with filter media responding to the acknowledged environmental requirements. In the chart below You find details of our filter media range, in particular referring to efficiency and air permeability. In general, in dust filtration the most referred-to parameter is efficiency, but the best results are achieved when efficiency does not excessively decrease air permeability, thus allowing an optimal running of the filtration plant.

The structure of our cartridges e.g. top/end caps and support cages, is wholly made of galvanized metal. We also manufacture models in stainless steel, particularly indicated for exposure to aggressive agents or food-stuff. Furthermore we make ecological models with low environmental impact, consisting of a fully incinerable cartridge (plastic rings and pleated filter media) and re-useable support cages.

As to the model, our cartridges can be mounted from both sides (clean-air and dirty-air side) to best fit into the dedusting plant. As shown throughout the catalogue, we produce a large number of mounting flanges to meet specific customers' needs.



## FILTER MEDIA

### Paper/ cellulose

Cod.	Type	Treatment	Certification BGIA/IFA* or EN	Penetration % [IFA/EN]	Permeability [m3/m2/h]	Weight [g/sqm]	Temp. max.
4759	Cellul.+PES	Hydrophobic+ Flame retardant	Par. F8 (EN779)	-	684	135	90°C
2160	Cellul.+PES	Flame retardant	USGC/M par. F9	0,03%	650	135	80°C
2151	Cellul.+PES	Nano fibres+ Flame retardant	USGC/M par. F9	0,02%	530	135	80°C
2049	Cellulose		USGC/M par. F9	0,04%	360-400	190	90°C
4818	Cellulose	Meltblown	Par. F9 (EN779)	-	1224	207	80°C

### Polyester

2180	Polyester		Par. M6 (EN779)		1800	130	120°C
2182	Polyester	Nano fibres+ Flame retardant	USGC/M par. F9		1000- 1200	130	120°C
2052	Polyester		USGC/M par. F9	0,06%	1000	170	130°C
2064	Polyester	Aluminated	USGC/M par. F9	0,06%	1000	170	130°C
2171	Polyester	Nano fibres	USGC/M par. F9	0,02%	900	170	120°C
2198	Polyester	Nano fibres+Corrug.	USGC/M par. F9	0,02%	1100	170	120°C
2127	Polyester		USGC/M	0,04%	1080	180	120°C
2158	Polyester	Aluminated	USGC/M	0,04%	1080	180	120°C
2159	Polyester	Hydro/Oleophobic	USGC/M	0,04%	1080	180	120°C
2201	Polyester	Flame retardant	USGC/M	0,04%	1080	180	120°C
2174	Polyester	Aluminated+ Flame retardant	USGC/M	0,04%	1080	180	120°C
2175	Polyester	Aluminated+ Nano fibres	USGC/M par. F9	0,02%	900	180	120°C
2176	Polyester	Aluminated+ Hydro/Oleophobic	USGC/M	0,04%	1080	180	120°C
2191	Polyester		USGC/M par. F9	0,02%	1080	240	120°C
2189	Polyester	Aluminated	USGC/M par. F9	0,02%	1080	240	120°C
2190	Polyester	Aluminated+ Flame retardant	USGC/M par. F9	0,02%	1080	240	120°C
2202	Polyester	Aluminated+ Hydro/Oleophobic	USGC/M par. F9	0,02%		240	120°C
2199	Polyester	Nano fibres+Corrug.	USGC/M par. F9	0,02%	1000	240	120°C
2203	Polyester	Aluminated+ Nano fibres+Corrug.	USGC/M par. F9	0,02%	1000	240	120°C
2105	Polyester		USGC/M par. F9	0,01%	470-510	260	120°C
2120	Polyester	Aluminated	USGC/M par. F9	0,01%	470-510	260	120°C
2106	Polyester	Hydro/Oleophobic	USGC/M par. F9	0,01%	410-450	260	120°C
2157	Polyester	Aluminated+ Hydro/Oleophobic	USGC/M par. F9	0,02%	400-450	260	120°C
2173	Polyester	Hydro/Oleophobic+ Flame retardant	USGC/M par. F9	0,03%	410-450	260	120°C
2197	Polyester	Alumin+ Hydroph.+ Flame retardant	USGC/M par. F9	0,02%	470	260	120°C

## Polyester with PTFE-MEMBRANE

Cod.	Type	Treatment	Certification BGIA/IFA* or EN	Penetration % [IFA/EN]	Permeability [m <sup>3</sup> /m <sup>2</sup> /h]	Weight [g/sqm]	Temp. max.
2179	Polyester	Corrugated+ PTFE-Membrane	USGC/M par. E10	<0,01% 95,55% at 0,4μ	650	130	140°C
2196	Polyester	Corrugated+ PTFE-Membrane	USGC/M par. F9	<0,01%	750	130	120°C
2161	Polyester	Corrugated+ PTFE-Membrane	USGC/M par. E11	<0,01% 98,96% at 0,4μ	430	135	120°C
2192	Polyester	PTFE-Membrane	USGC/M – H13 (EN 1822)	<0,01% 99,973%MPPS	150	170	120°C
2194	Polyester	PTFE-Membrane	USGC/M par. F9	<0,01%	500	170	120°C
2143	Polyester	PTFE-Membrane	USGC/M par. E11	98,8% at 0,3μ	350	170	120°C
2183	Polyester	Corrugated+ PTFE-Membrane	USGC/M par. E11	<0,01% 89,83% MPPS	400	180	120°C
2184	Polyester	Aluminated+ PTFE-Membrane	USGC/M par. E11	<0,01%	300	180	120°C
2169	Polyester	PTFE-Membrane	USGC/M par. E10	<0,01% 89,37% MPPS	380	240	120°C
2195	Polyester	PTFE-Membrane	USGC/M par. F9	<0,01%	550	240	120°C
2165	Polyester	Corrugated+ PTFE-Membrane	USGC/M par. E11	<0,01% 97,68 MPPS	370	240	140°C
2163	Polyester	PTFE-Membrane	H13 (EN1822)	99,988% at 0,1μ	178	240	140°C
2164	Polyester	PTFE-Membrane	H14 (EN1822)	99,995% at 0,1μ	70-90	240	140°C
2166	Polyester	Aluminated+ PTFE-Membrane	USGC/M par. E10	91,56% MPPS (0,0615μ)	250-350	260	120°C
2168	Polyester	Aluminated+ PTFE-Membrane	USGC/M par. E11	<0,01% 95,23% MPPS	230	260	120°C
2188	Polyester	Aluminated+ Corrugated+ PTFE-Membrane	USGC/M par. E11	<0,01% 95,23% MPPS	280	260	120°C
2167	Polyester	Aluminated+ PTFE-Membrane	H13 (EN1822)	99,96% MPPS (0,07μ)	100-120	260	120°C

## Polypropylene

4770	Polypropylene		Par. F7 (EN779)	-	700	150	80°C
2147	Polypropylene		Par. F8 (EN 779)	-	540	200	90°C

## General supply conditions

The production of our filter elements is based on a specific request regarding dimensions and required filter media.

### 1) Offer

Our offers include a data sheet indicating dimensions and technical features. Upon request we enclose a technical data sheet of the filter media which is based on reference from the producer, external laboratories or the German IFA-Institut. Our customer must verify that the offered execution can be properly used in the installation or plant it is destined to, in case of order all data exposed in our offer are regarded as verified and approved, and especially:

- Dimensions
- Filter media, efficiency class and surface (sqm and related treatment/s)
- All other components used for the production of our elements such as e.g. frames, rings, caps, cages, meshes, straps, seals, sealants etc.

### 2) Delivery

The production and delivery of our filter elements is based on a customers' order approving all data of our offer. If there should arise any necessity of change regarding dimensions and execution of our elements, we will take immediate contact with our customer in order to find a new agreement.

### 3) Guarantee

It is our sole responsibility to manufacture filter elements that correspond to the data we state in our offer (regarding dimensions, glueing and the efficiency class of the filter media as to the reference from the producer, laboratory tests or the certificate of the German IFA-Institut). We are not liable for any functional data of the elements in the plant they are destined to (lifecycle, regenerability etc.) nor the function of the plant itself. Our elements have to be installed only by properly advised personnel. No responsibility is accepted for any personal injury or loss/ damage of material or the plant itself that were caused by:

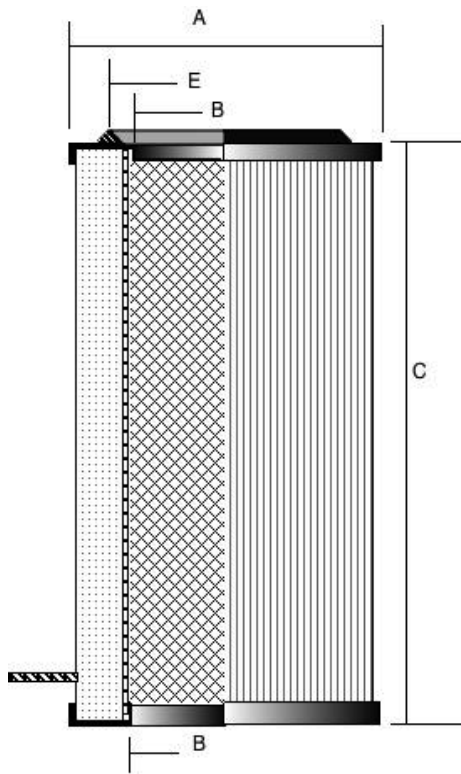
- misuse of the filter elements or use for any purpose other than the one for which they are intended or otherwise than in accordance with our instructions (if any)
- improper installation or installation done by improperly advised personnel
- storage in improper conditions or if any seal or other component of the supplied filter element has been removed, broken or tampered with
- fair wear and tear, wilful damage, negligence, alteration or repair without our written approval
- a self-cleaning system that is insufficient or excessive for the delivered type of elements. As a general prescription, the tank pressure shall never exceed 4,5 bars. Higher values must be approved in written while developing the filter elements and the offer.

The customer first of all must follow the exact prescriptions of the plant's user manual and the local laws regarding workplace safety. The following are general hints for important controls to make during the installation, but are not intended to be a substitute of what is included in the user's manual:

- Visually check the filter and its media for integrity/damage
- Check on appropriate contact between the filter element gasket and the carrier plate before fixing the elements
- Check on appropriate tank pressure – max. 4,5 bars.
- Check on appropriate opening of all electric valves as programmed.
- Check on appropriate opening of the air intake channel (partialisation components, reset ventilation mode etc).
- Emission controll (facult.) - please note that in case of installation without precoating You shall wait until the pressure drop reaches a value of minimum 80 mm w.c.



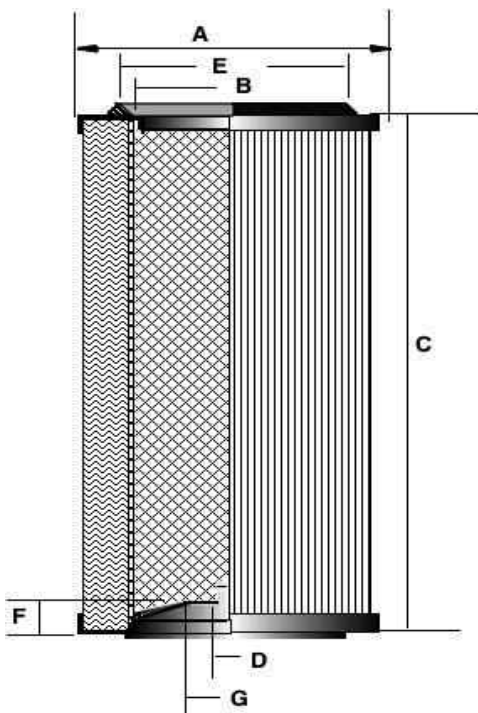
## Cartridge Model C 320



A	B	C	E
325	216	VAR.	265



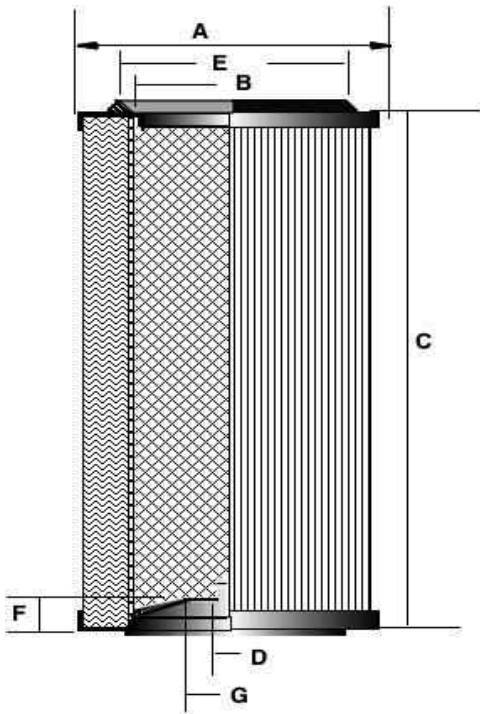
## Cartridge Model C 325



A	B	C	D	E	F	G
325	216	VAR.	13	265	28	57



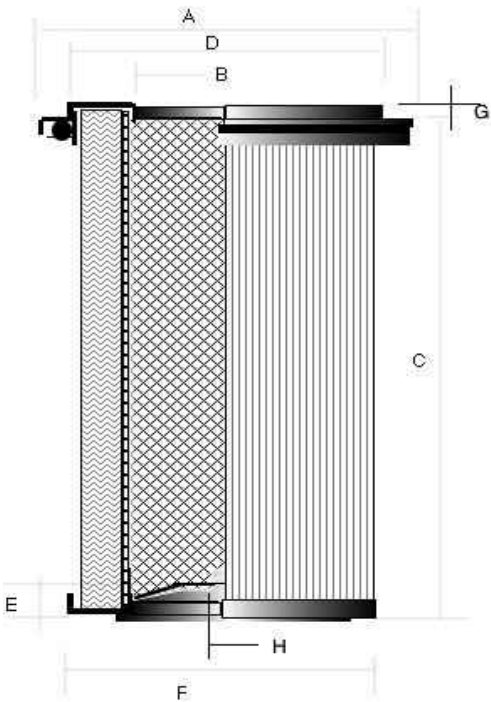
## Cartridge Model C 350



A	B	C	D	E	F	G
350	240	VAR.	13	VAR.	38	57



## Cartridge Model C 355

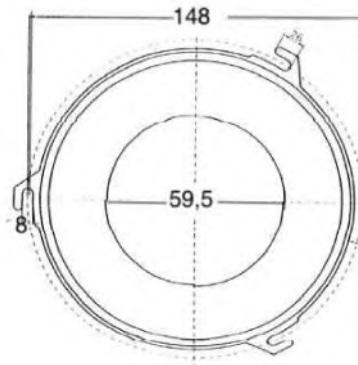
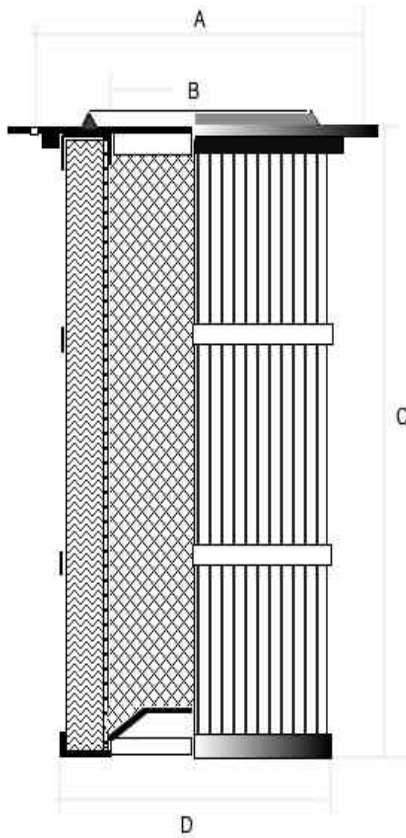


A	B	C	D	E	F	G
355	216	VAR.	325	28	325	10



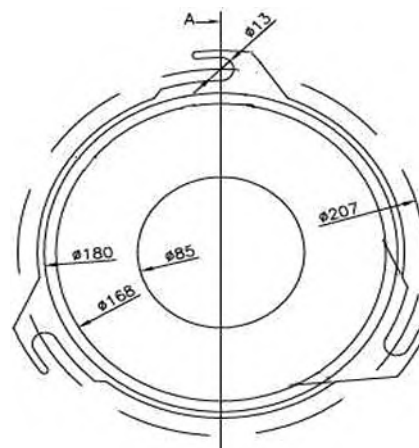
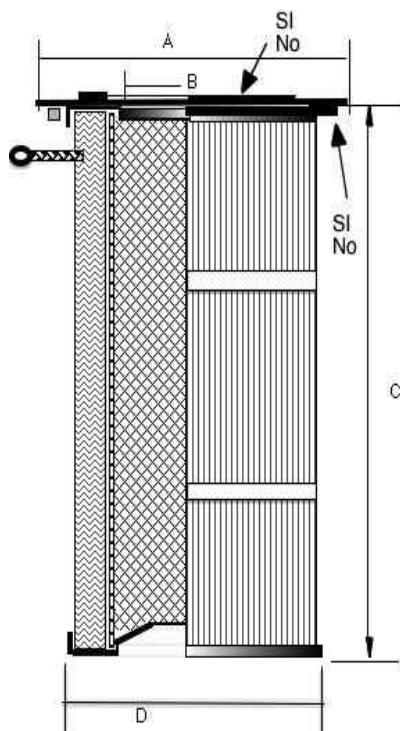
## Cartridge Model F 135

A	B	C	D
148	59,5	VAR.	113



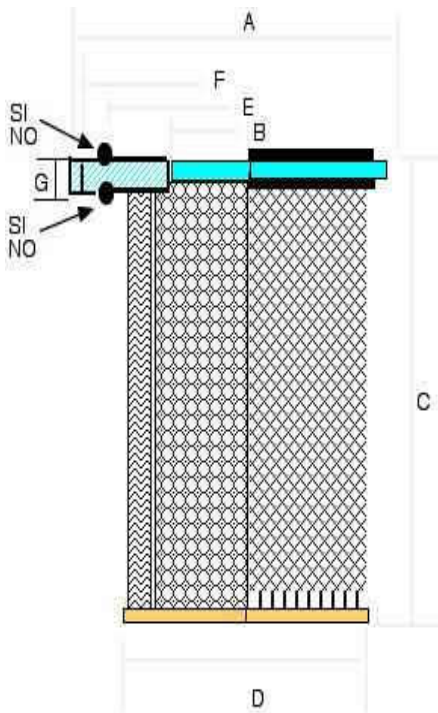
## Cartridge Model F 207

A	B	C	D
207	85	VAR.	156

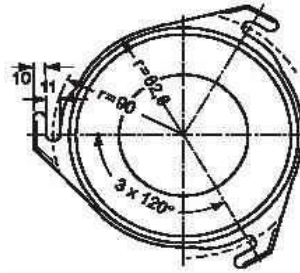
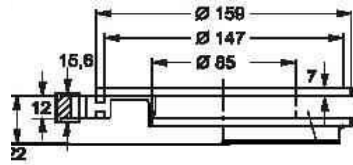




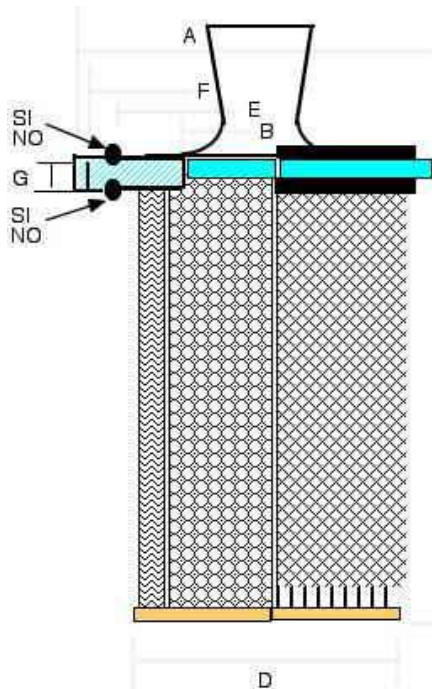
## Cartridge Model F 212



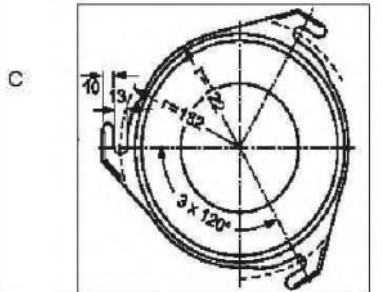
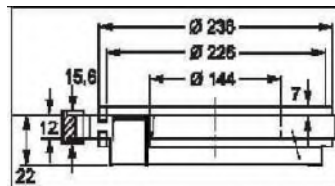
A	B	C	D	E	F	G
212	85	VAR.	145	147-159	180	12



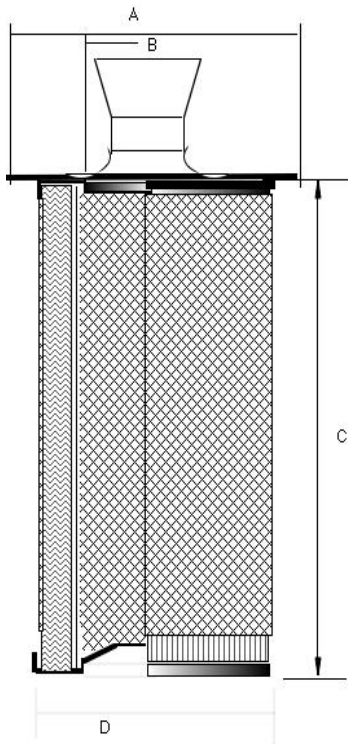
## Cartridge Model F 264



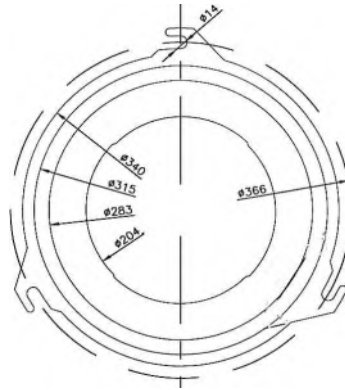
A	B	C	D	E	F	G
296	145	VAR.	218	225-237	264	12



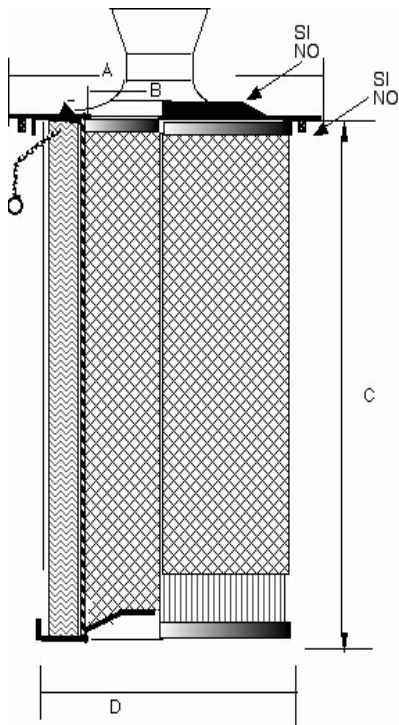
## Cartridge Model F 364



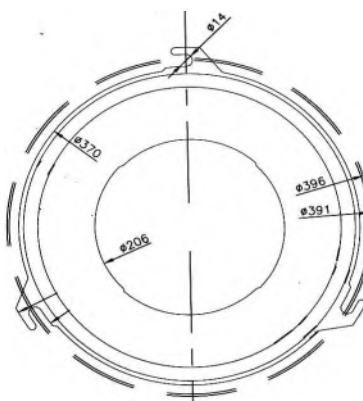
A	B	C	D
366	204	VAR.	325



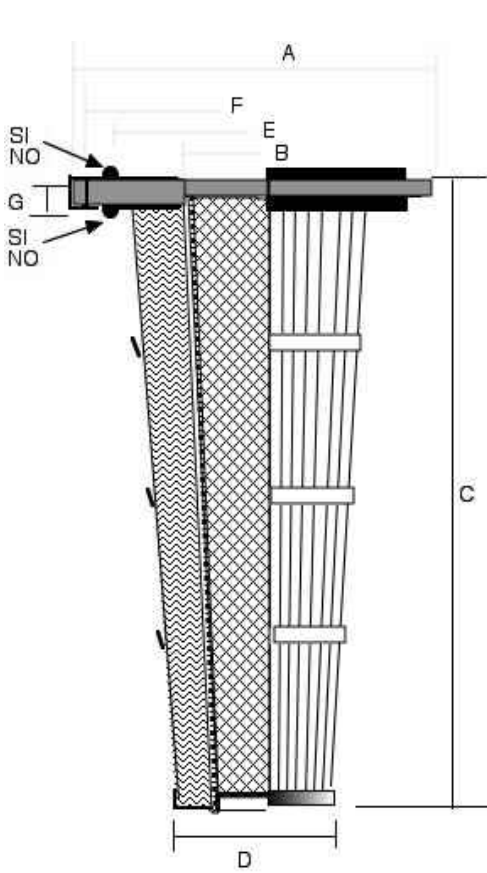
## Cartridge Model F 390



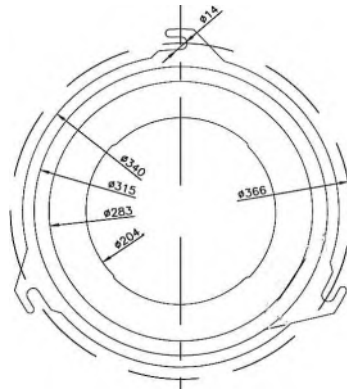
A	B	C	D
391-396	206	VAR.	325



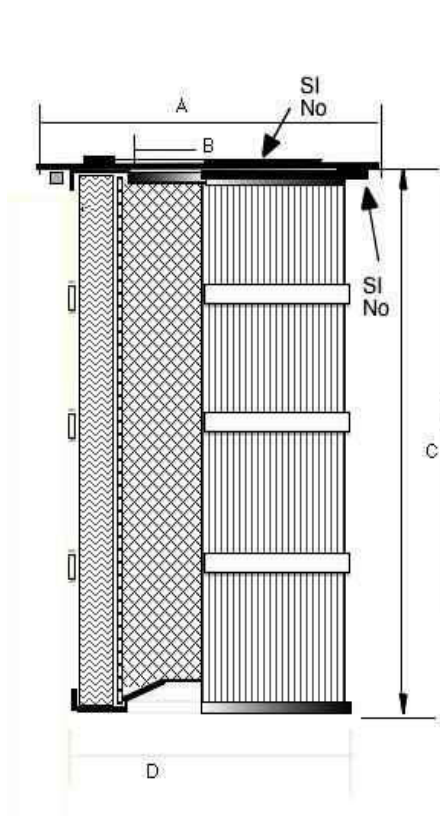
## Cartridge Model KF 364



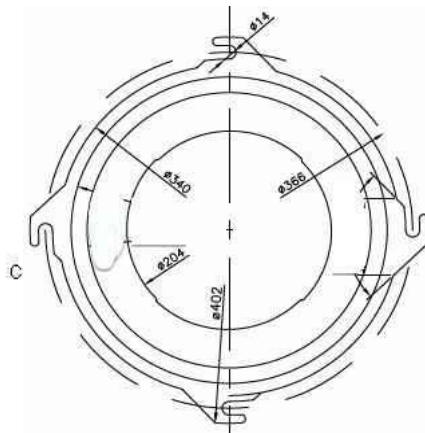
A	B	C	D	E
366	204	VAR.	218	283-315



## Cartridge Model F 364.4

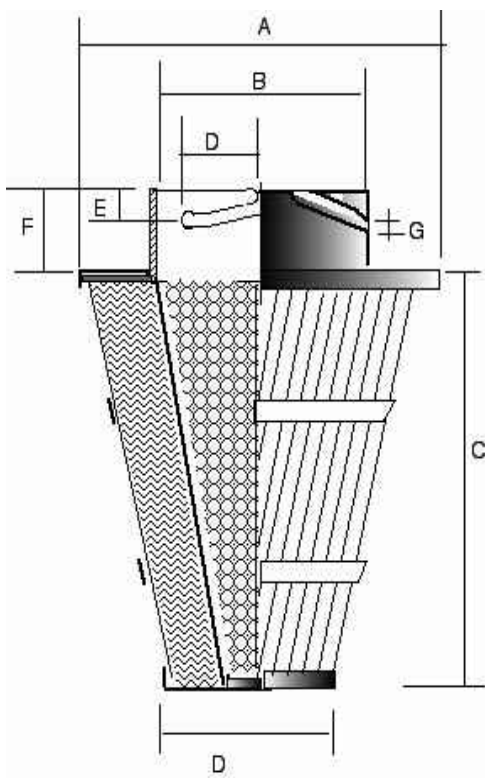


A	B	C	D
366	204	VAR.	325





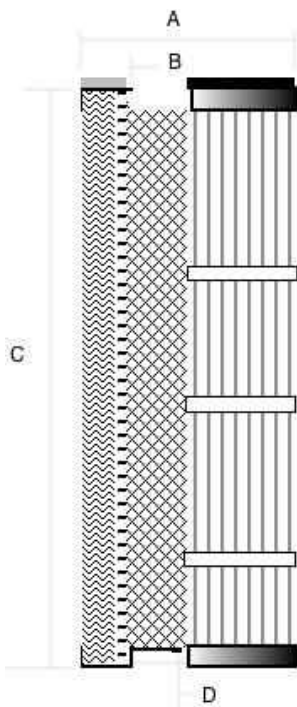
## Cartridge Model KB 325



A	B	C	D	E	F	G
325	216	1000	55	15	50	11



## Cartridge Model C 156

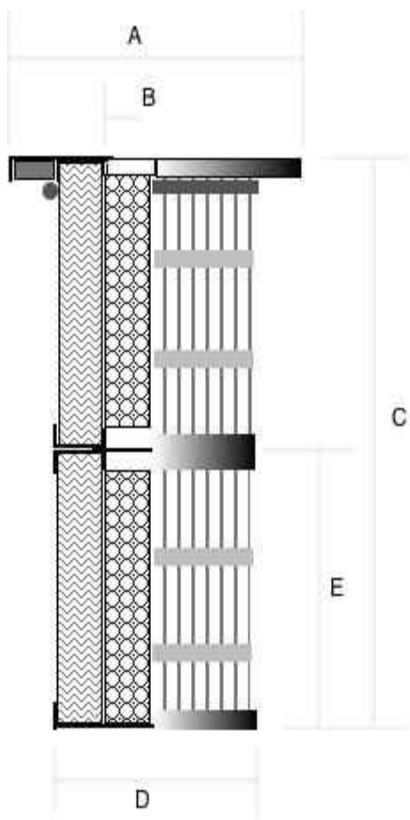


A	B	C	D
156	99	1200	10





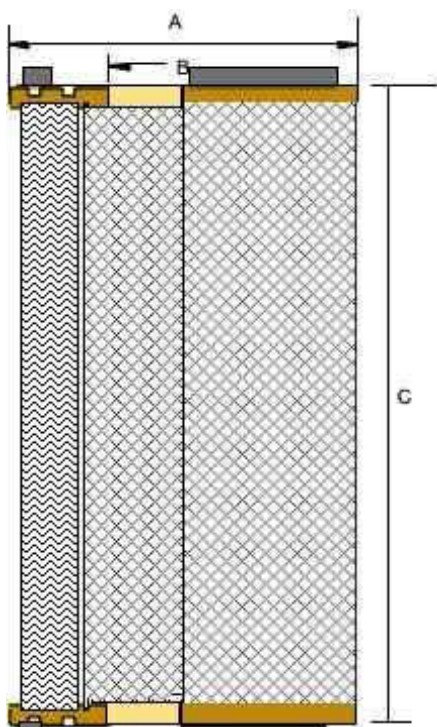
## Cartridge Model D 212



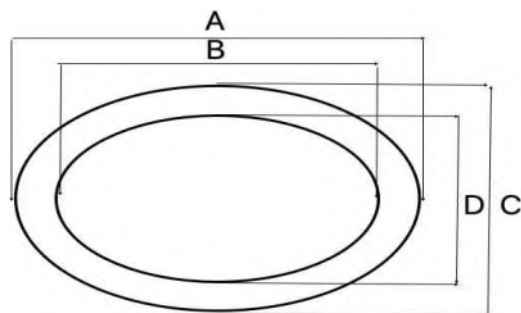
A	B	C	D
212	145	VAR.	185



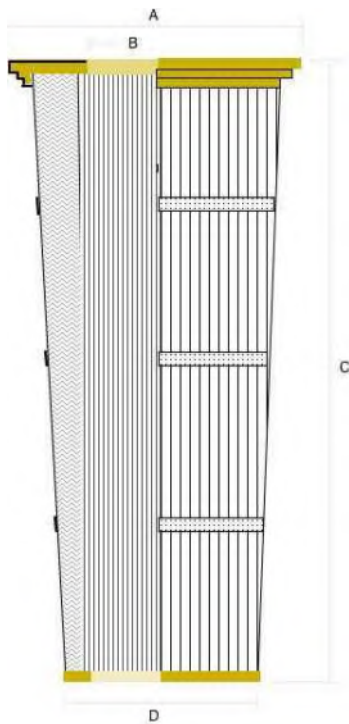
## Cartridge Model O 365



A	B	C
365-289	275-200	660



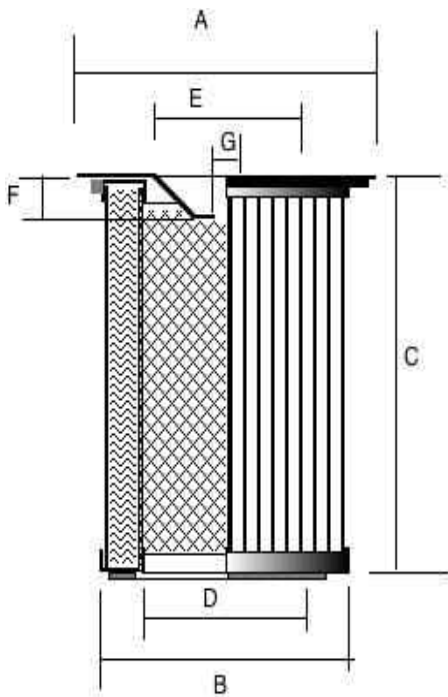
## Cartridge Model K 181



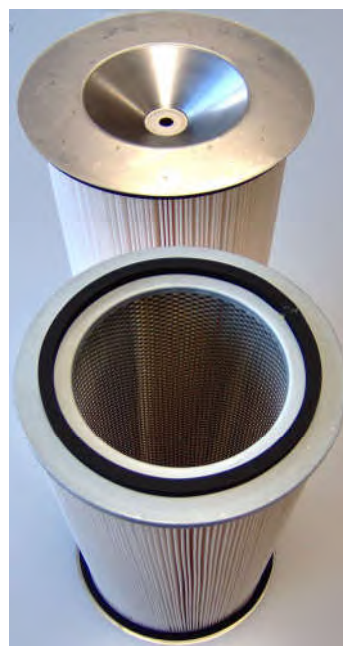
A	B	C	D
181	104	1000	112



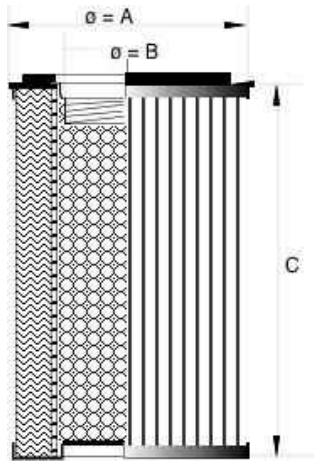
## Cartridge Model C 265



A	B	C	D	E	F	G
265	235	560	150	147	40	13



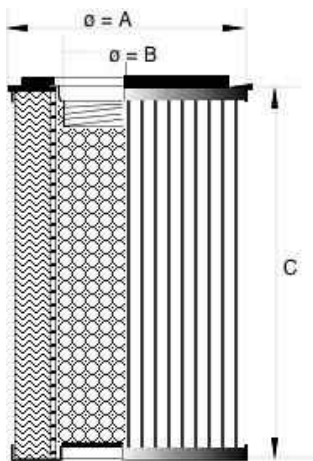
## Cartridge Model L 115



A	B	C
115	60	VAR.



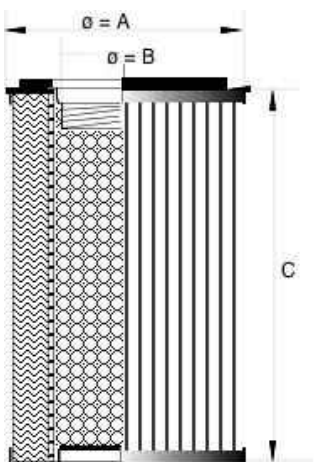
## Cartridge Model L 120



A	B	C
120	70	VAR.



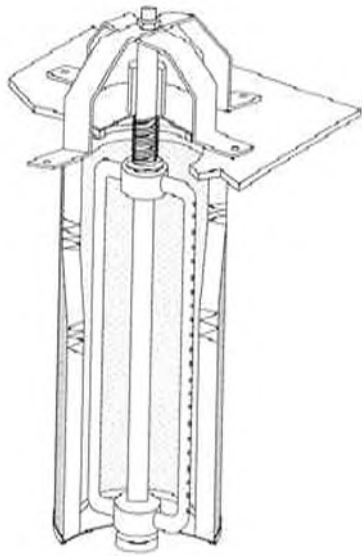
## Cartridge Model L 160



A	B	C
160	100	VAR.



## Rotating nozzles

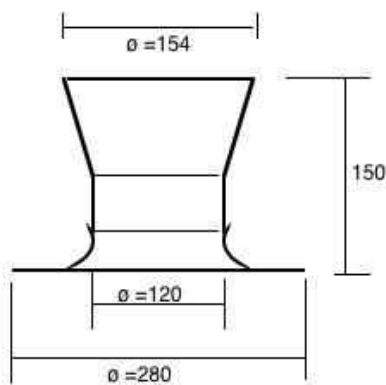


3 o 4 mounting pods
H 600, 1000 or 1200 mm
100% made of alluminium
For cartridges ID 210-216 mm
Pulse pressure max. 4,5 bar



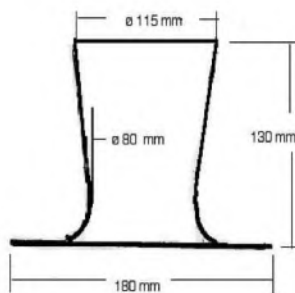
## External Venturi tubes (selection)

ACC-2032



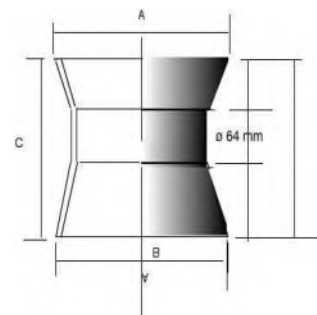
for cartridges ID  
190-220 mm

ACC-1837



for cartridges ID  
135-150 mm

ACC-2011



for cartridges ID  
80-95 mm

**NB:** Other shapes upon request