FILCAGES

Filter bag cages

FILSYSTEM

FilSystem is a young industrial reality born to satisfy the new market conceptions and needs in different business field.

FilSystem, in fact, thanks to the high experience of its staff, was able to create a new strategic project in the metallurgical market. It has realized a range of products with the purpose to stand out in the different fields it works: industrial, building industry, electric, ecology and safety.

The efficient network with its customers, partners and suppliers allows FilSystem to pursue its main business goals, that is flexibility, customization, collaboration, assistence and supportability.

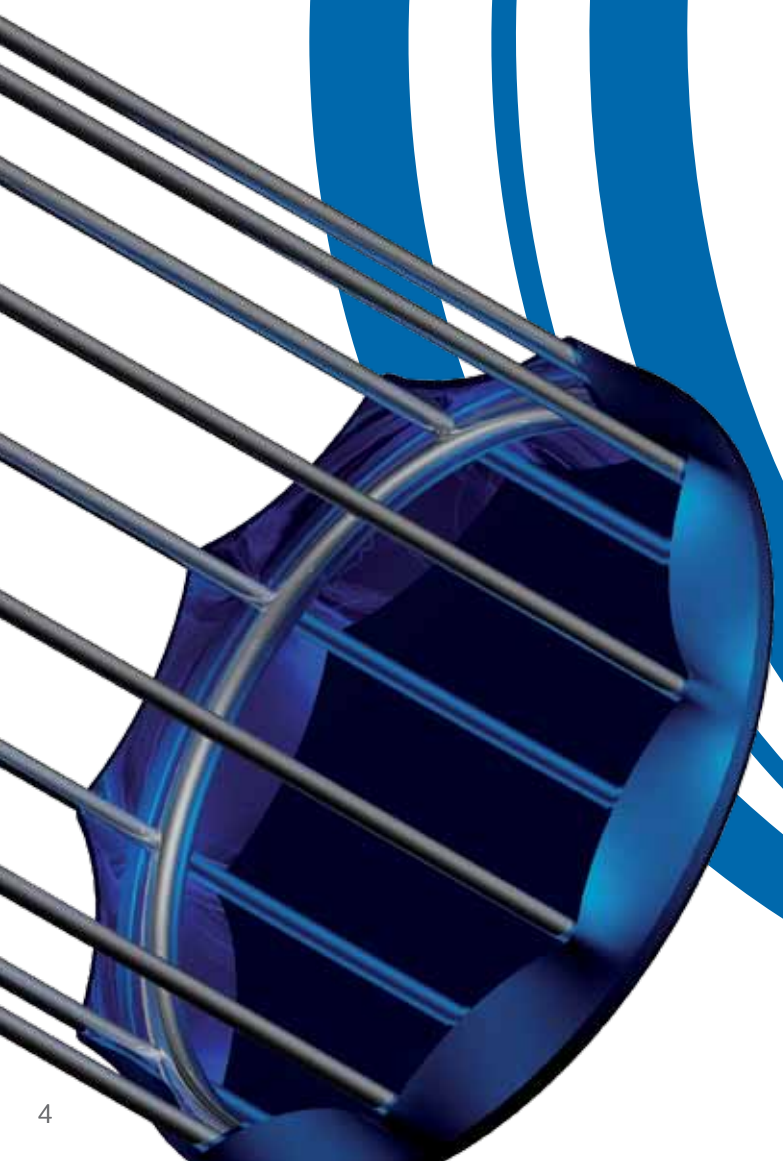
FilSystem is based in the North of Italy, Valmadrera (Lecco). It has a 4000 squared meters plant, with a wide external space, where is possible to stock the goods ready to be shipped.

FilSystem is specialized in the production of:

- welded mesh for industrial use;
- filter bag cages for industrial filtration of air and fume in ecology;
- outdoor modular fences with welded mesh and gabions for building industry;
- perimeter protection for machineries and employees in the safety field;
- cables trays for the electric field.

Index

Design & Development	4
FilCages	5
Filter bag cages	6
Round section FilCages	6
Collars	8
End caps	8
Junctions	10
Venturis	12
Nozzles	24
Support cages	24
Gaskets	25
Sections	26
Newness	28
Materials and Finishing	29
Services	30



Design & Development

FilSystem thanks to the passion and experience of its staff is able to design and study the best solutions to reach the different needs to carry out its customers' installation.

The engineering department is always at customer's disposal for any technical advices and to help customers to choice the best solution.

FilSystem can also work out customized solutions thanks to the use of the most modern software for 2D and 3D drawings.

FILCAGES

FILCAGES is the brand used by FilSystem to identify the study, design and carring out of Filter bag cages for the industrial filtration.

FilSystem's filter cages are located in baghouse filters with the purpose to give a contribution for dust filtration in the industrial places and reduce the emissions to the outside.

Filter cages are produced only under customer's specifictions.

FilSystem can create cages with round, elliptical, squared, rectangular, rhomboidal and star-shaped section.

Diameters can vary from 50mm to 300mm with length up to 10mt, and they can be realized in one part or more than one part.

To manufacture filter cages FilSystem uses rough, galvanized, painted, stainless steel or Corten-A, so that it can ensure the most suitable finishing for the end use. In such a way the efficiency and the cleaning power will be improved and the durability of the equipment will be extended

Filter cages can be supplied with end cap, collar and Venturi depending on customer's requests and specifications.

FilSystem uses only high quality material to ensure a reliable and precise product, suitable even for the most modern air filtration and cleaning equipment.

Filter cages

In the last years there has been an increase in Filter cages use because of the major attention to a Green Economy.

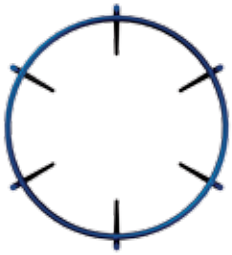
FIlSystem produces filter cages used in the alimentary industry, in sugar, cocoa and flour production; in tobacco, sugar, paper, gypsum, wood, pottery and leather manufacturing; in refineries, cement plants, foundries, steel plants; in feed mills, in power stations, in incinerator for the asphalt and coal production, in pharmacology, and chimical industry and in plastic manufacturing.

Round section

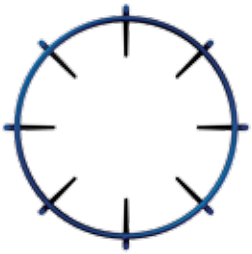
FILCAGES

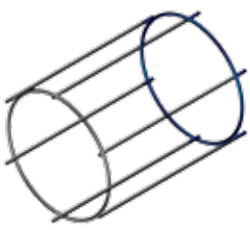
Filter cages in the standard version have a round section, they can be produced with a different number of vertical wires 6-8-10-12-16-20-24 depending on customer's needs.

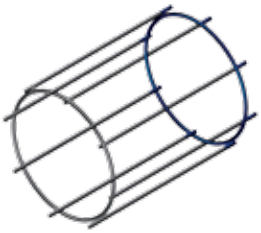
6 wires



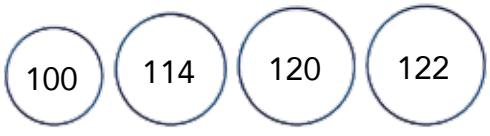
8 wires





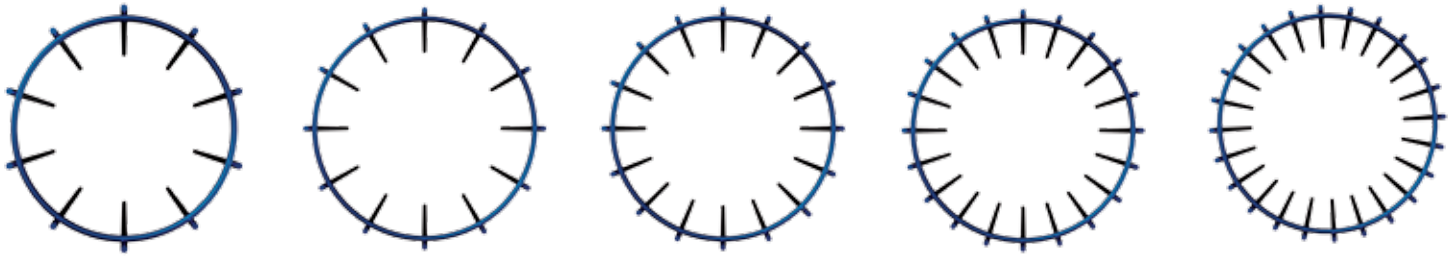


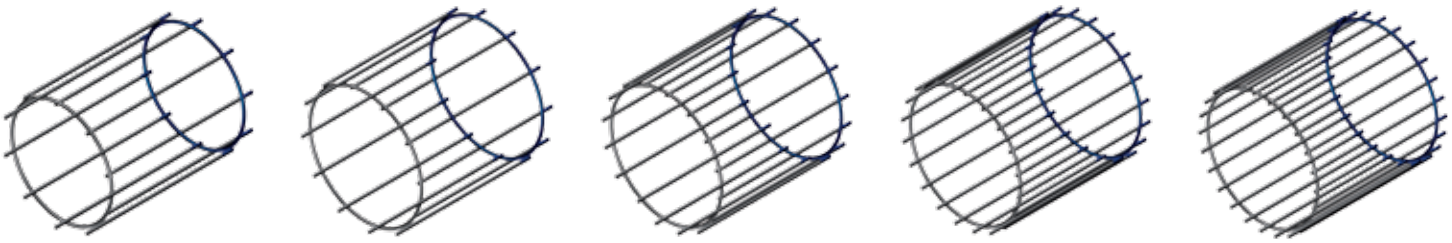
FilSystem manufactures round section filter cages with diameters:



Other diameter upon request.

10 wires | 12 wires | 16 wires | 20 wires | 24 wires





125 | 130 | 135 | 140 | 144 | 148 | 155 | 184

Collars

Collars are used to realize the higher part of the cage.

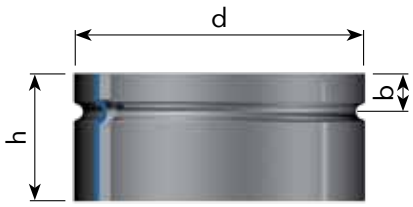
They can be produced in different materials:

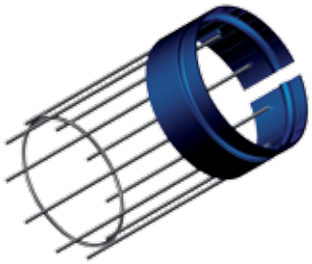
- Rough steel
- Pre-galvanized steel
- Stainless steel

FilSystem's collars for round section FILCAGES are 4.

FilSystem realizes collars upon specific customer's request.

TYPE "A"
open collar with groove





End caps

End caps are used to realize the lower part of the cage.

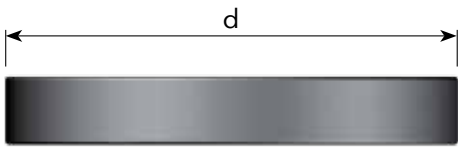
They are produced in different materials:

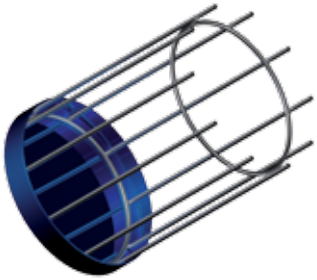
- Rough steel
- Pre-galvanized steel
- Stainless steel

FilSystem's end caps for round section FILCAGES are 3.

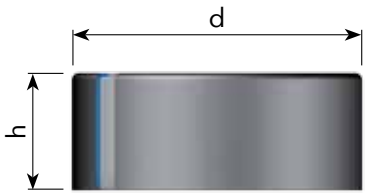
FilSystem realizes end caps upon specific customer's request.

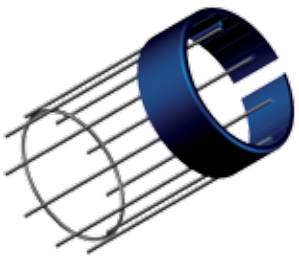
FLAT



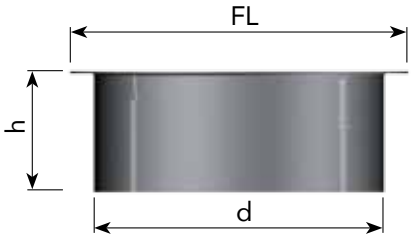


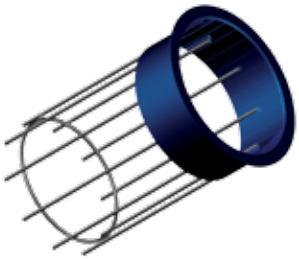
TYPE "B"
open collar with inner lip



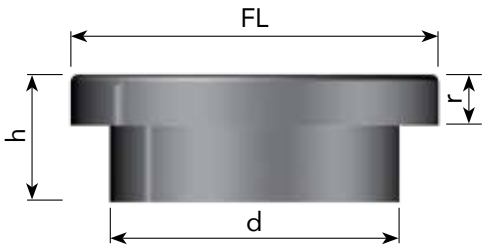


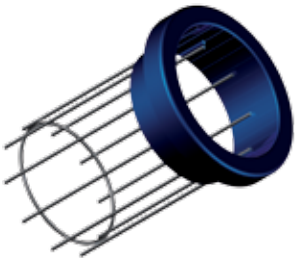
TYPE "C"
closed collar with flange



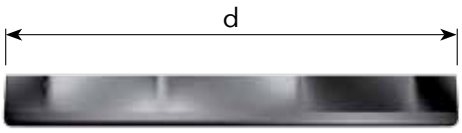


TYPE "D"
closed with flange and rim (snap ring)

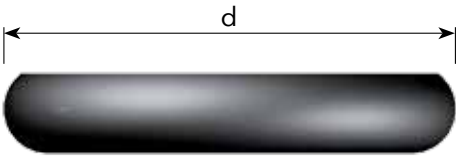


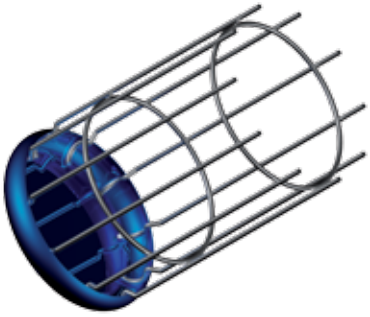


STAPLED



ROUNDED

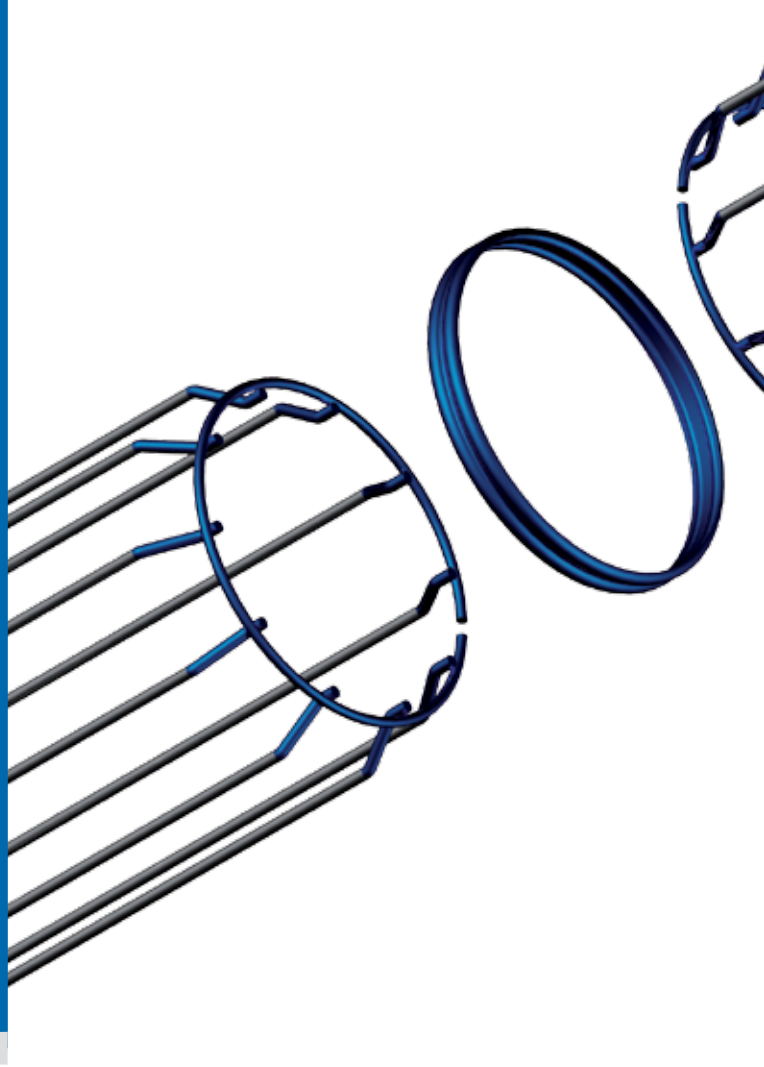


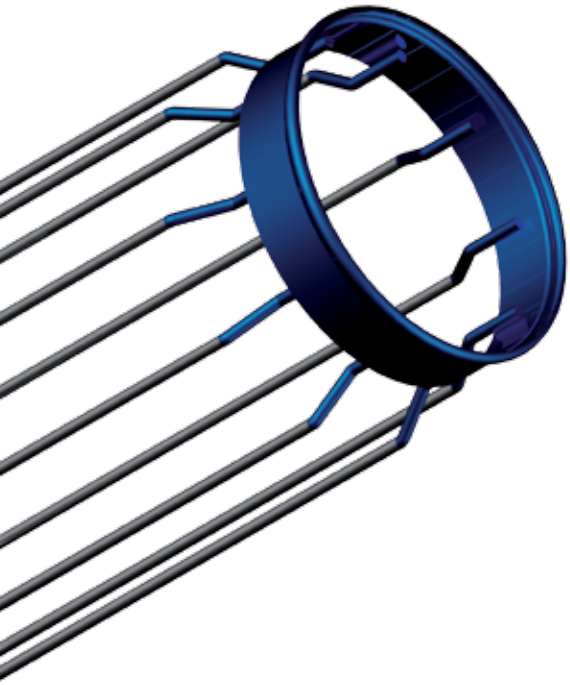


Junctions

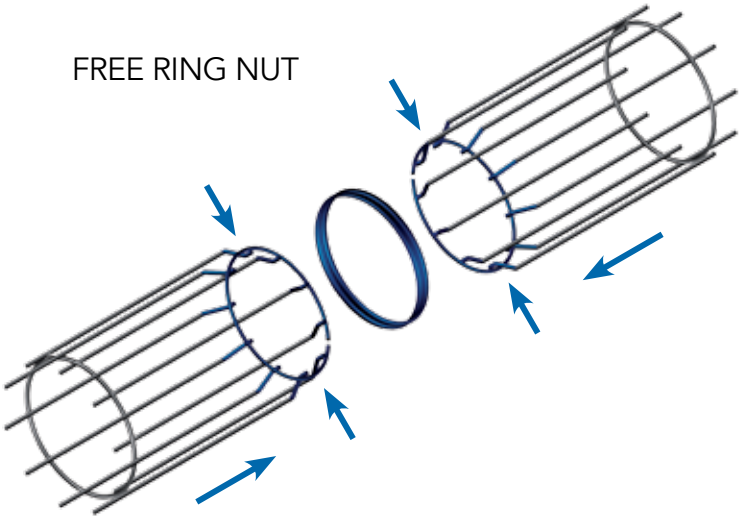
Round section filter cages FILCAGES can be produced in one part or more than one part upon specific customer's request

FilSystem produces 5 different junctions for round section cages.

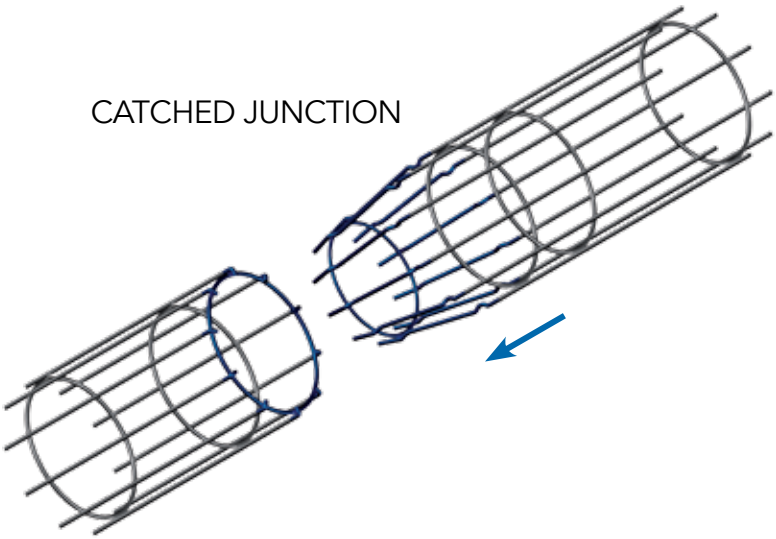


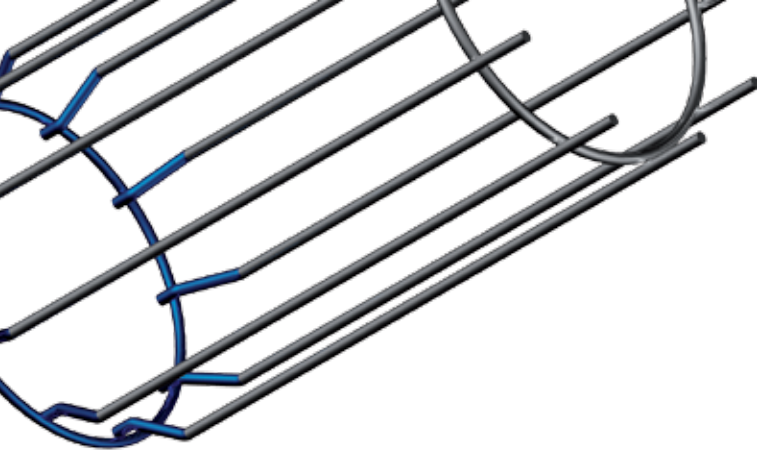


FREE RING NUT

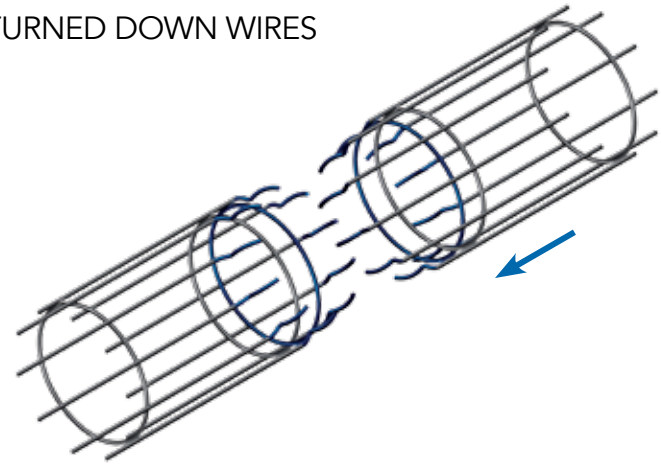


CATCHED JUNCTION

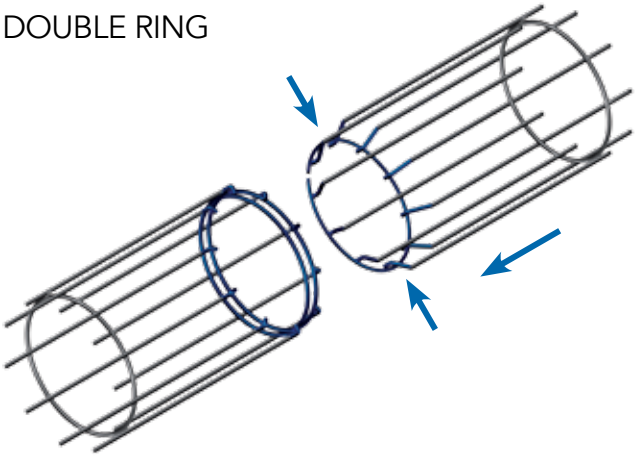




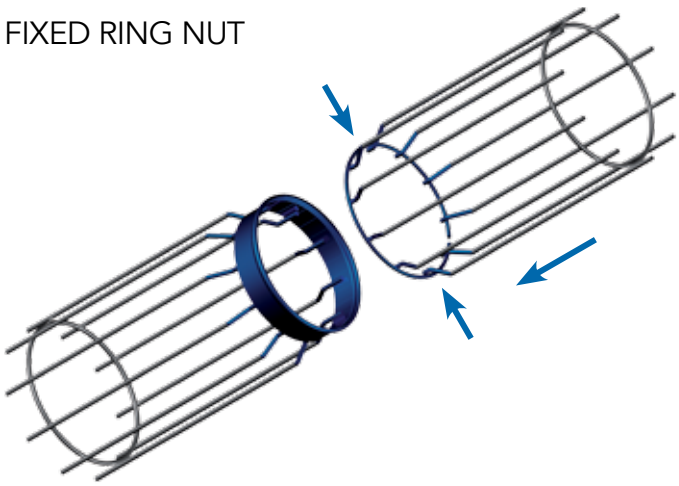
TURNED DOWN WIRES

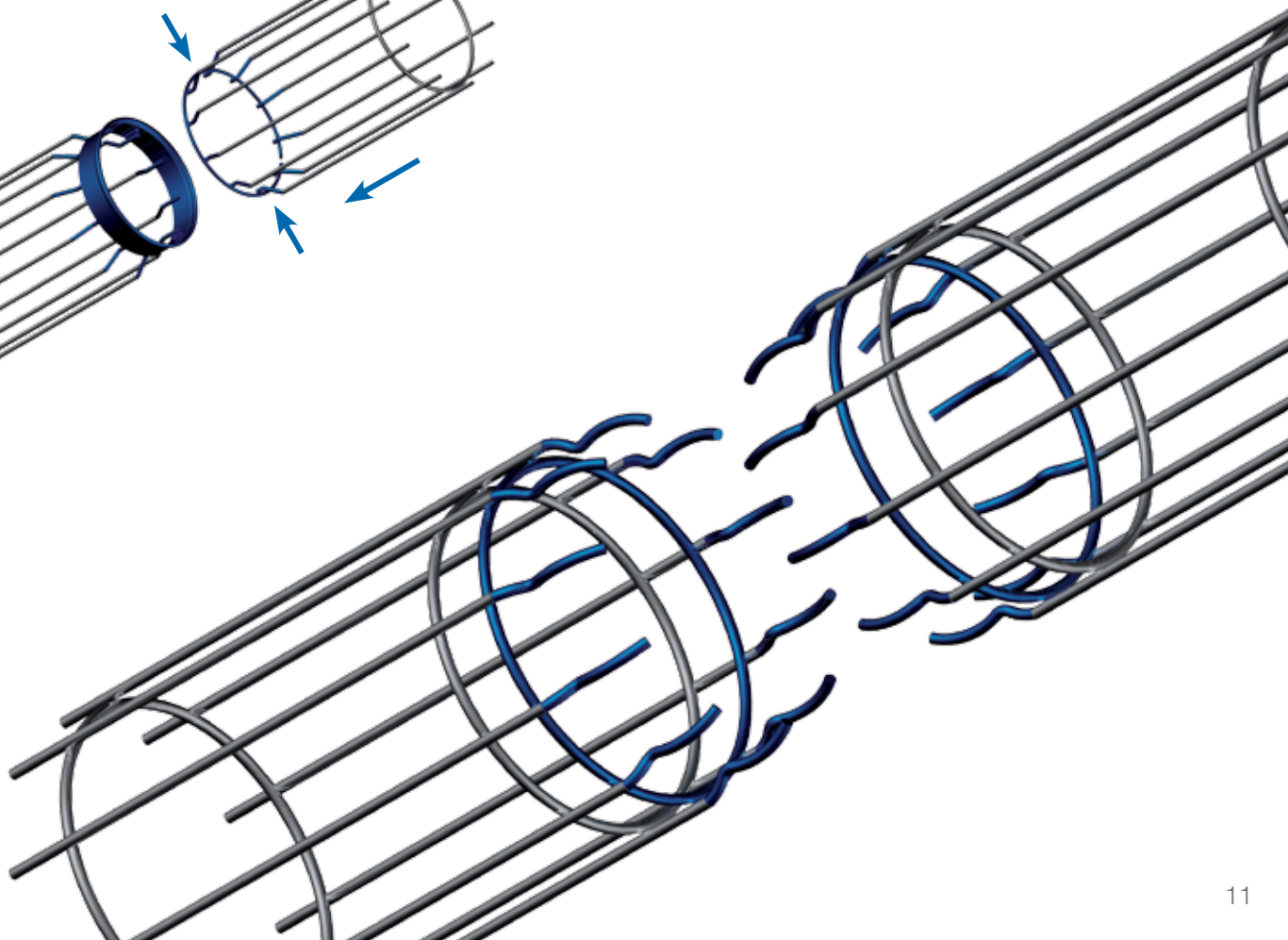


DOUBLE RING



FIXED RING NUT





Venturis / Complements

FilSystem's Venturis for round section FILCAGES are used upon a specific equipment exigence to increase the speed of air emission thanks to the homonymous principle.

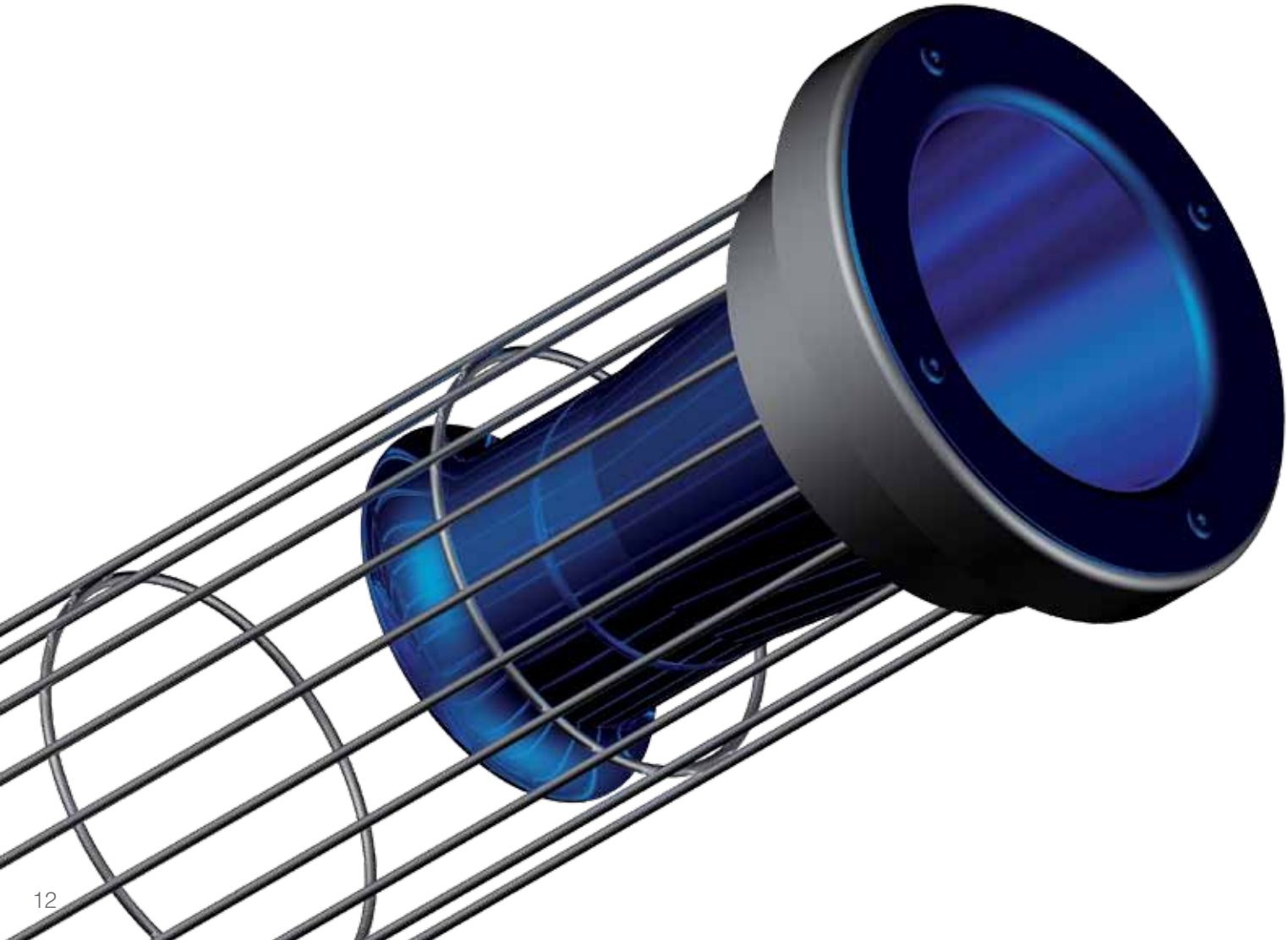
FilSystem's Venturis are manufactured in different materials:

- Rough steel
- Pre-galvanized steel
- Stainless steel
- Die-cast aluminium
- ABS

Venturis can be used inside or outside the cage.

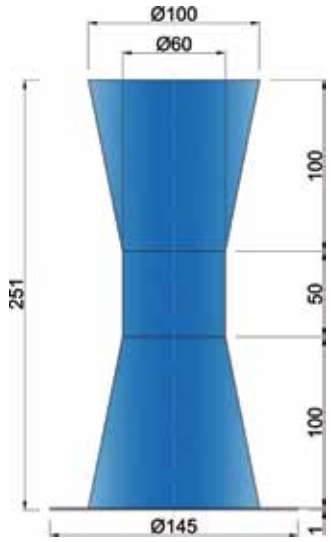
They can be welded, fixed with rivets, incorporated (newness), placed upon the cage depending on structural demand.

FilSystem can produce Venturis upon customer's requirement.

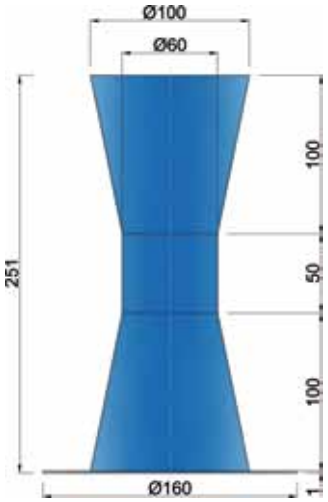


Rounded and pressed / Rough steel - Pre-galvanized steel - Stainless steel

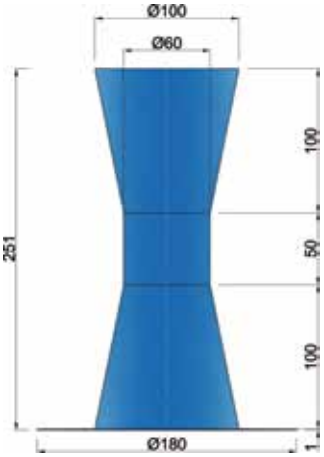
5 - 145



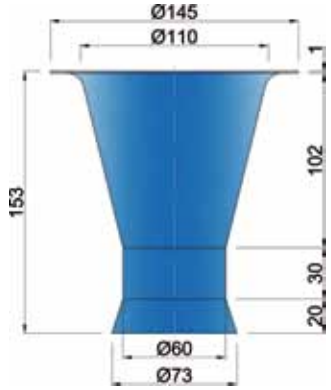
5 - 160



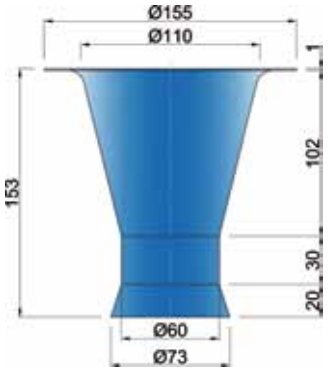
5 - 180



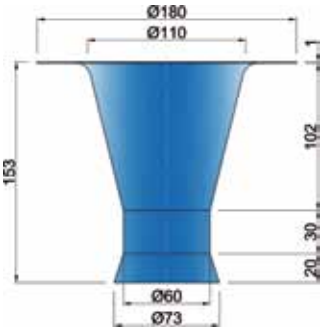
8 - 145



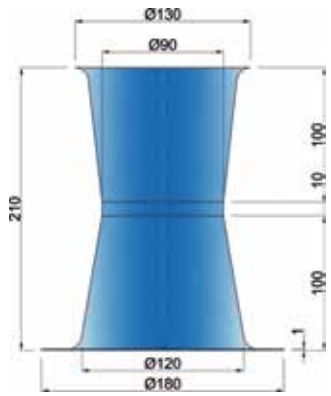
8 - 155



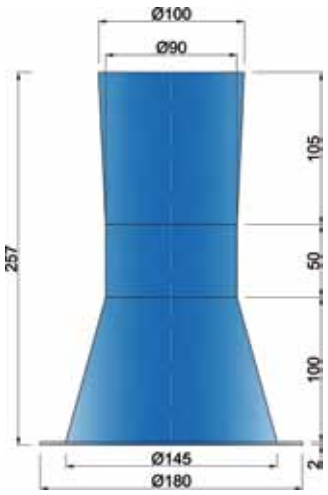
8 - 180



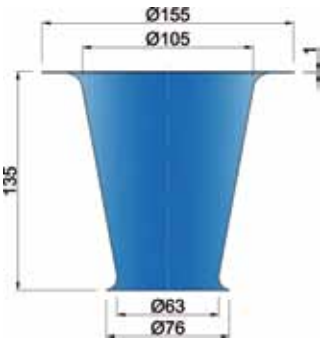
11



12

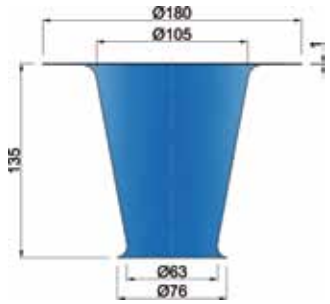


13 - 155

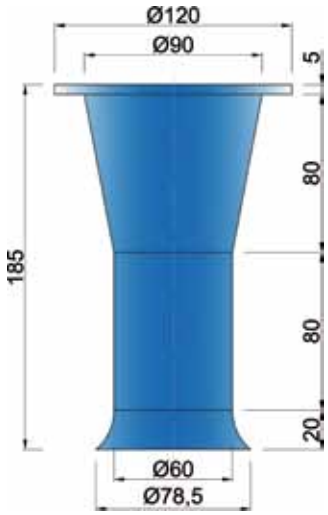


Rounded and pressed / Rough steel - Pre-galvanized steel - Stainless steel

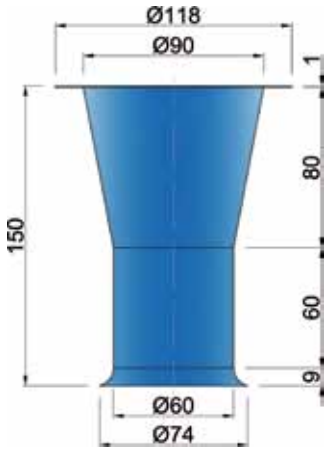
13 - 180



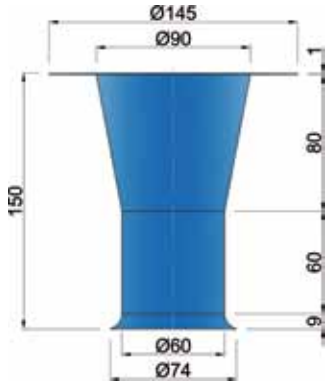
14



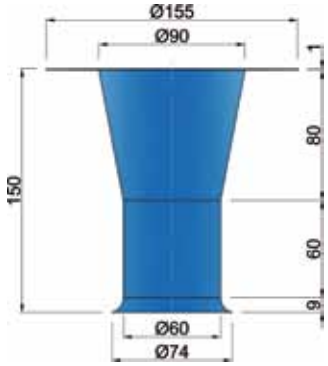
15 - 118



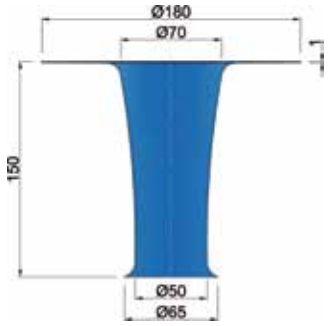
15 - 145



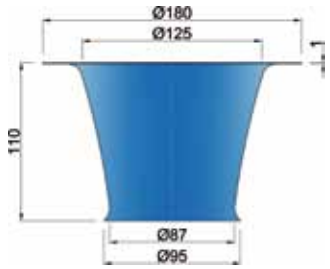
15 - 155



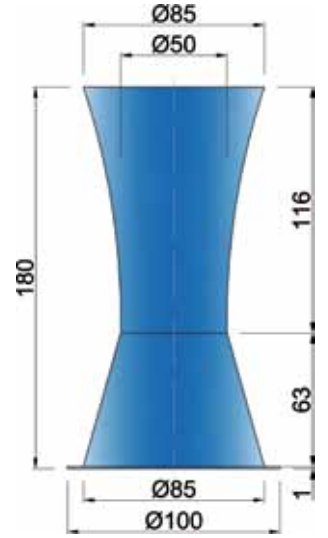
16



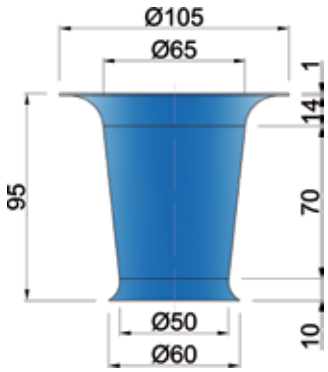
17



18

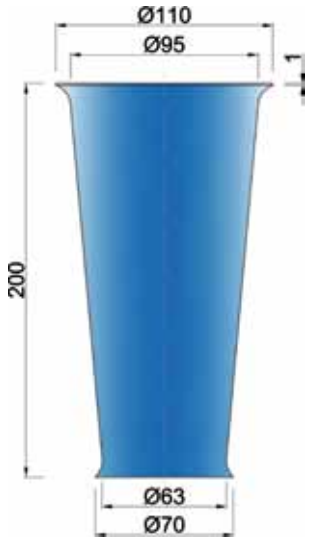


19

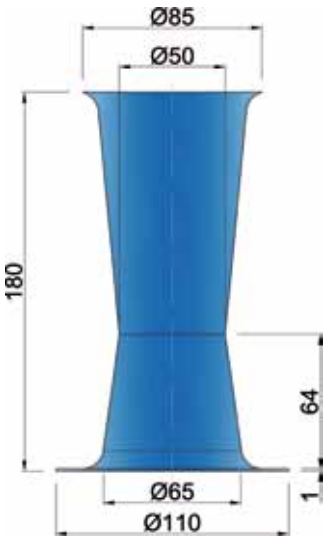


Rounded and pressed / Rough steel - Pre-galvanized steel - Stainless steel

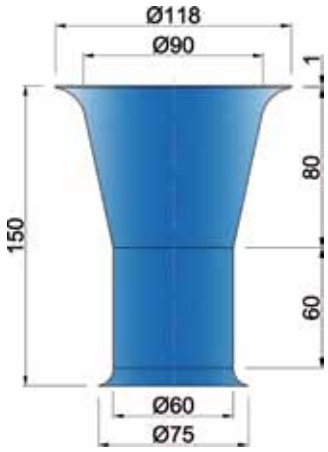
20



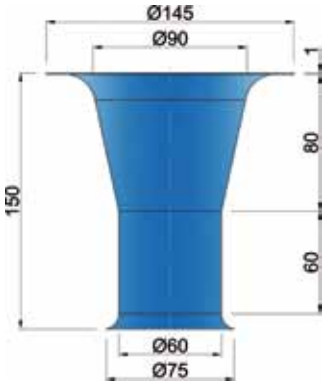
21



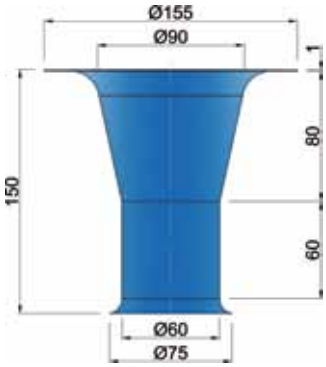
22 - 118



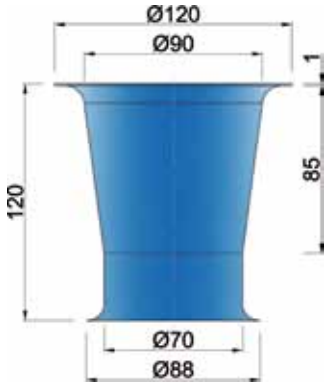
22 - 145



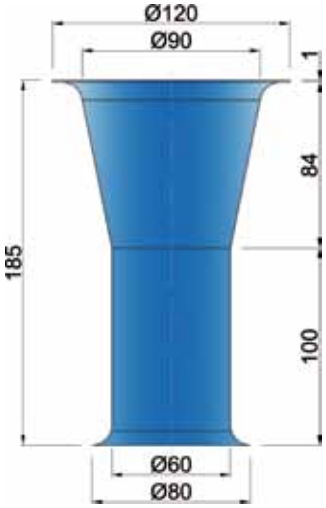
22 - 155



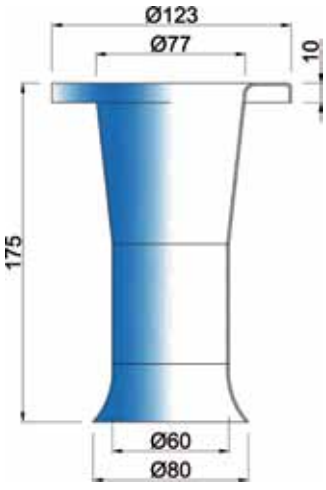
23



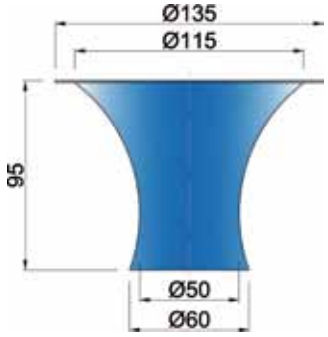
24



25

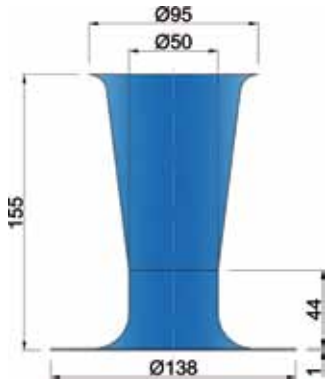


26

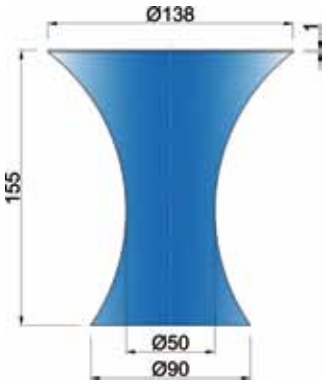


Rounded and pressed / Rough steel - Pre-galvanized steel - Stainless steel

27

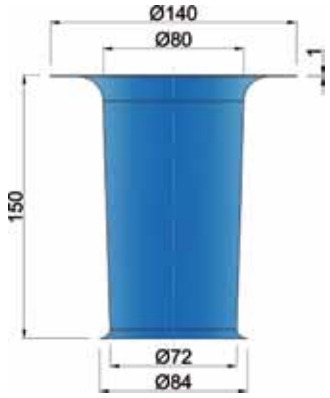


28

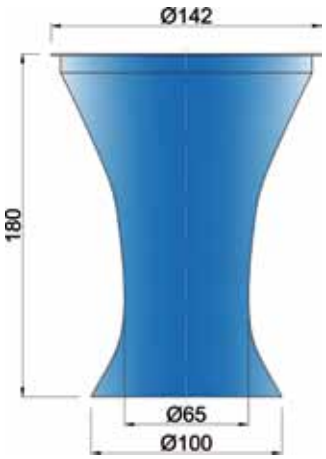


29

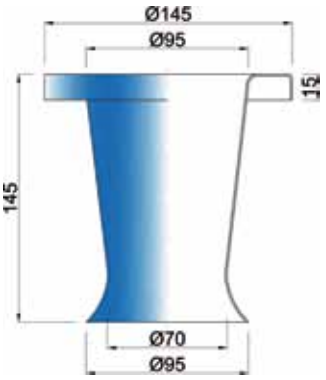
30



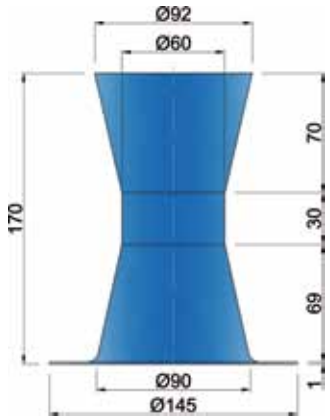
31



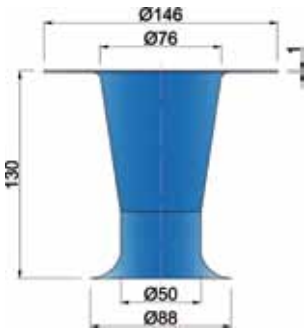
32



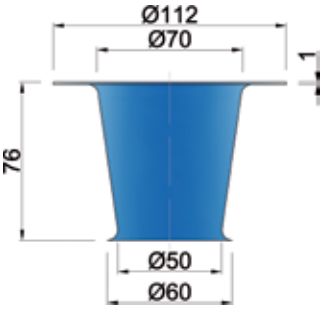
33



34

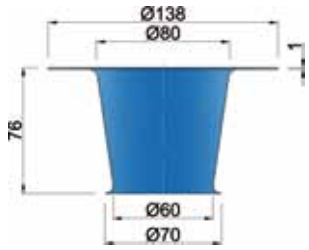


35 - 112

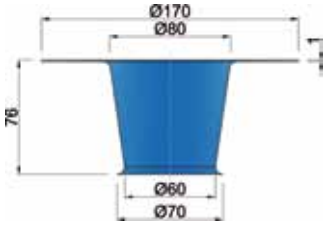


Rounded and pressed / Rough steel - Pre-galvanized steel - Stainless steel

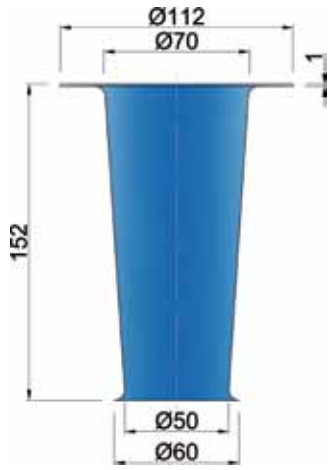
35 - 138



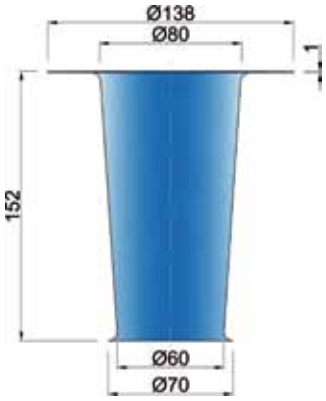
35 - 170



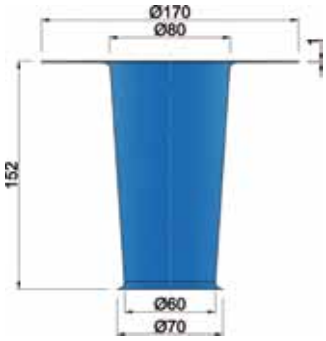
36 - 112



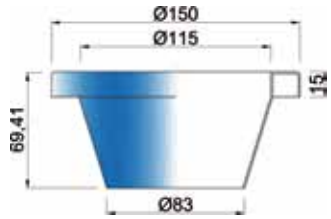
36 - 138



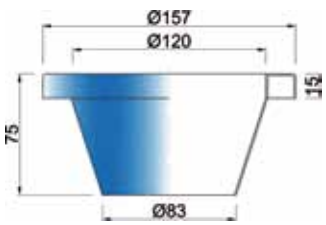
36 - 170



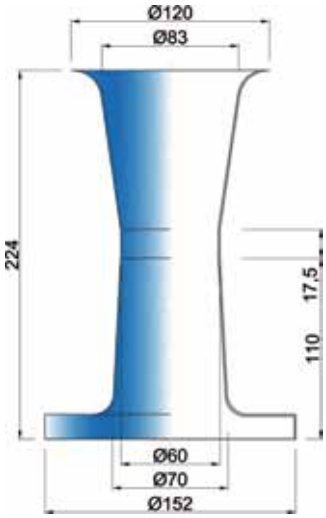
37



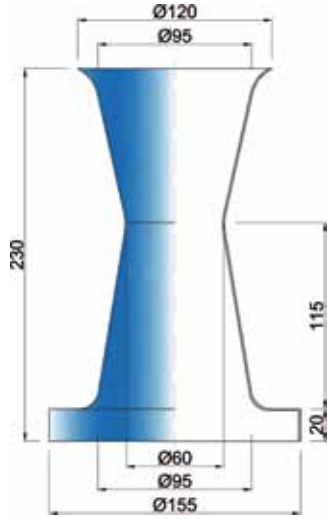
38



39

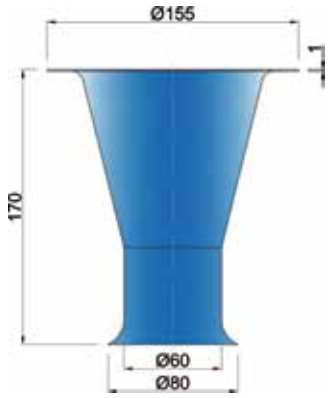


40

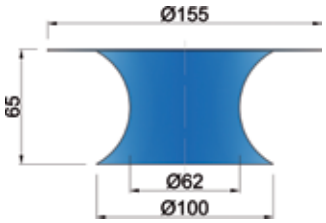


Rounded and pressed / Rough steel - Pre-galvanized steel - Stainless steel

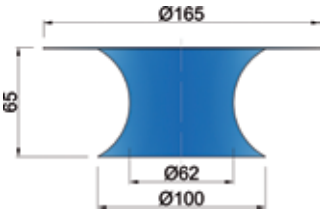
41



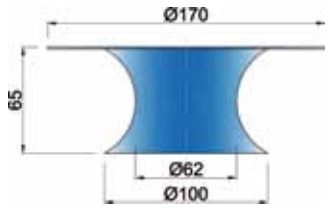
42 - 155



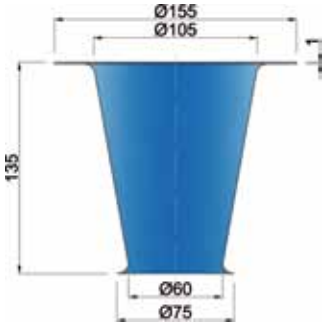
42 - 165



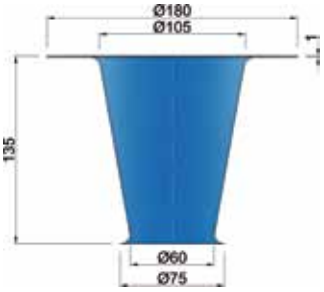
42 - 170



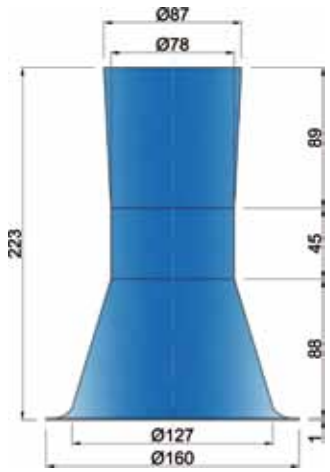
43 - 155



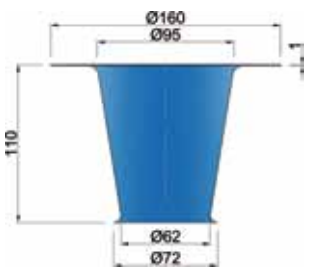
43 - 180



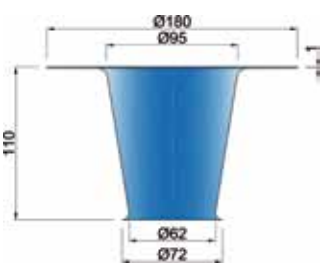
44



45 - 160

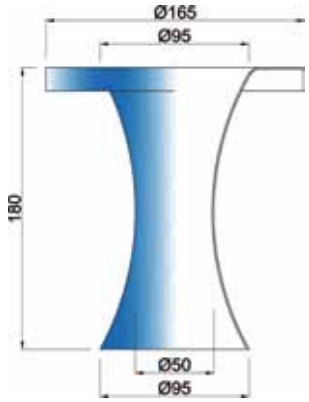


45 - 180

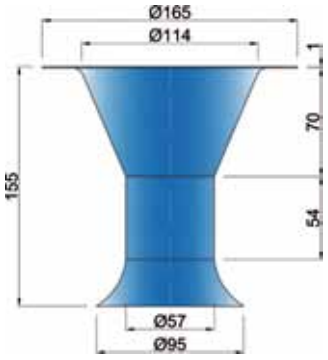


Rounded and pressed / Rough steel - Pre-galvanized steel - Stainless steel

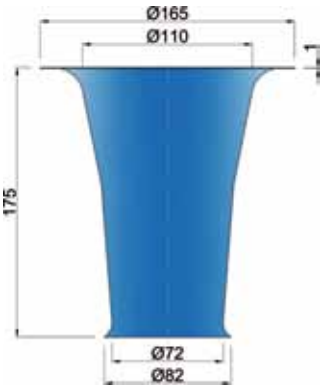
46



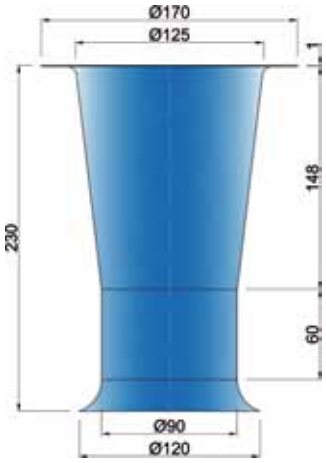
47



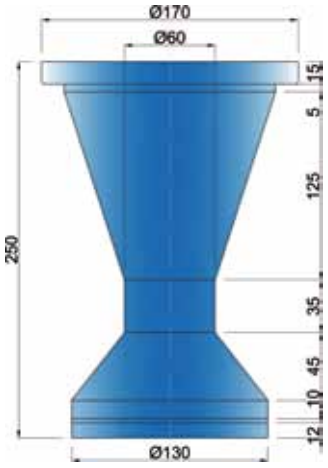
48



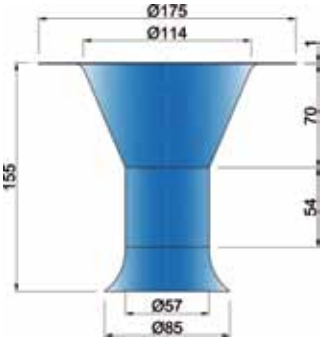
49



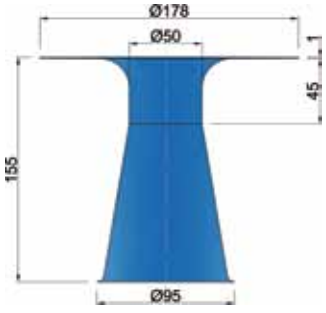
50



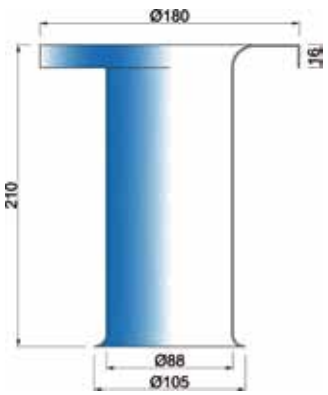
51



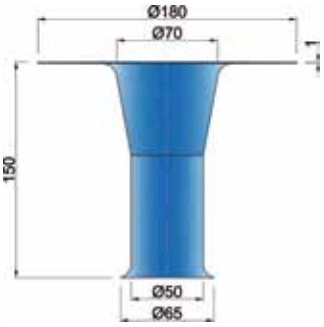
52



53

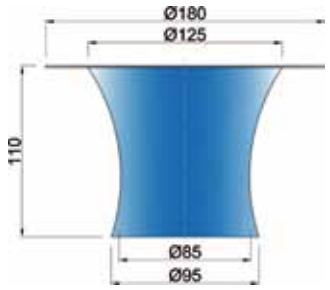


54

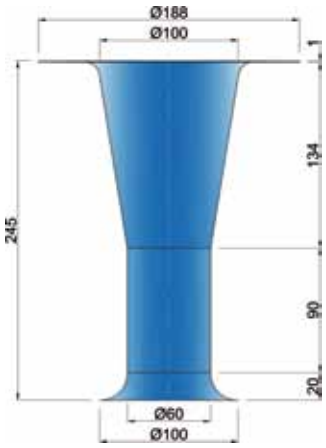


Rounded and pressed / Rough steel - Pre-galvanized steel - Stainless steel

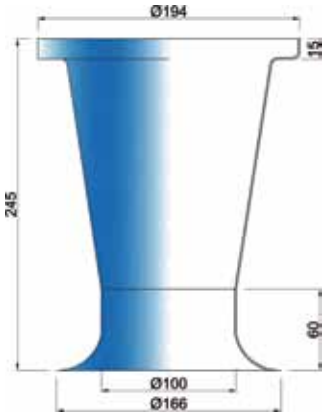
55



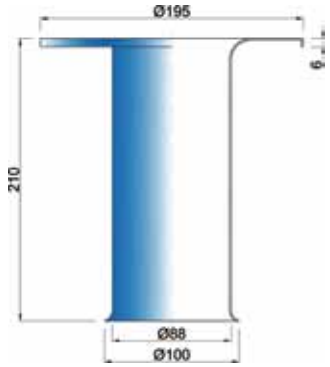
56



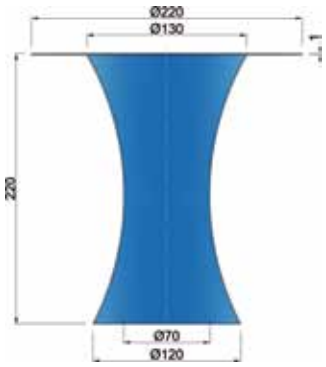
57



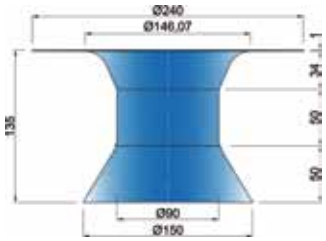
58



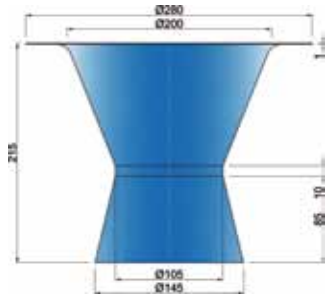
59



60

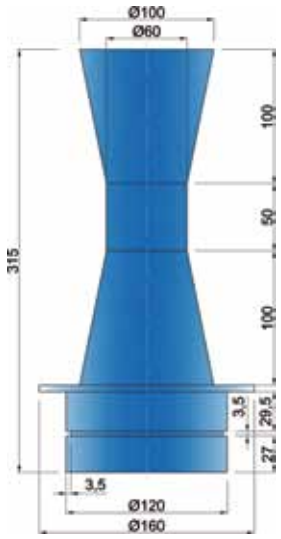


61

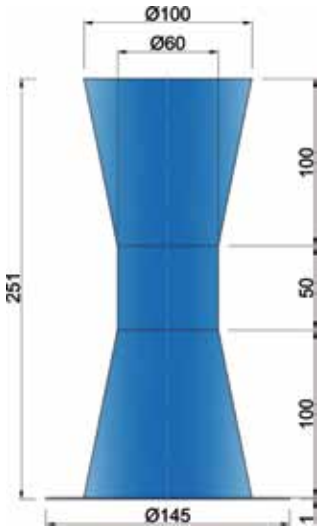


Die-cast aluminium

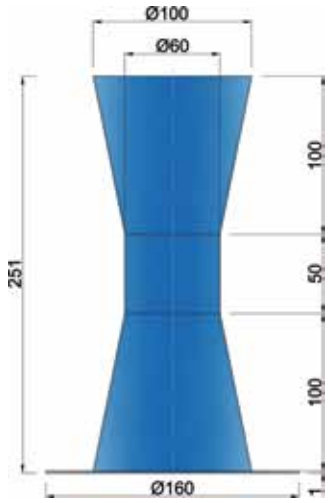
1



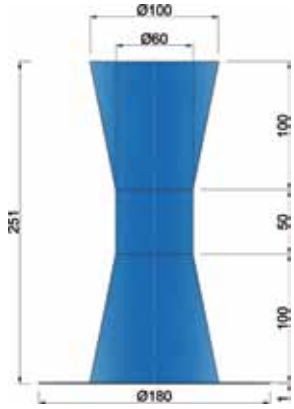
5 - 145



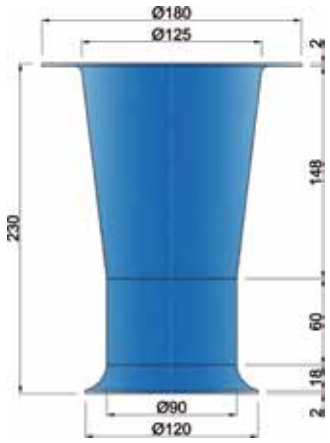
5 - 160



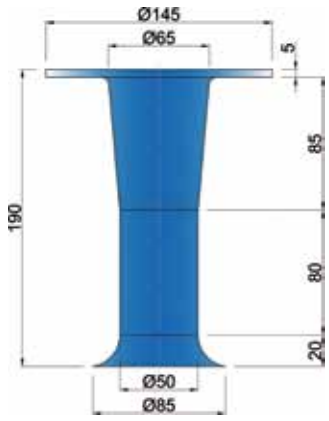
5 - 180



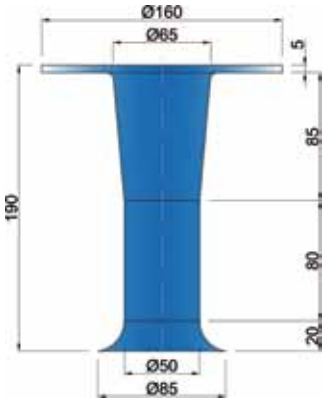
6



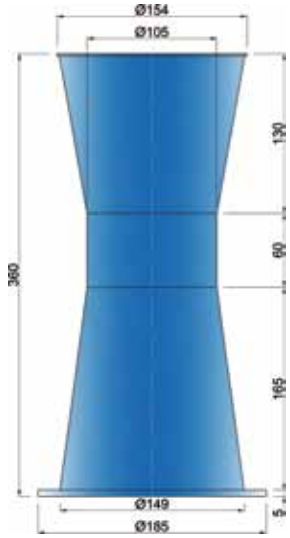
7 - 145



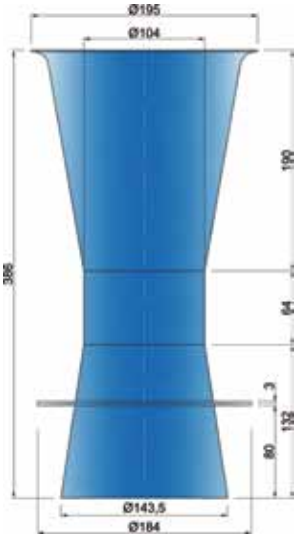
7 - 160



9

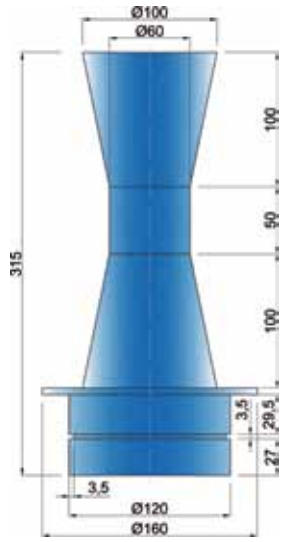


10

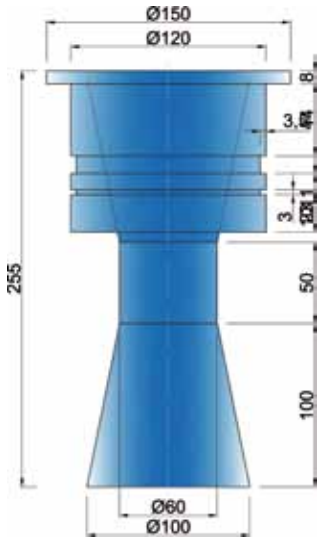


ABS

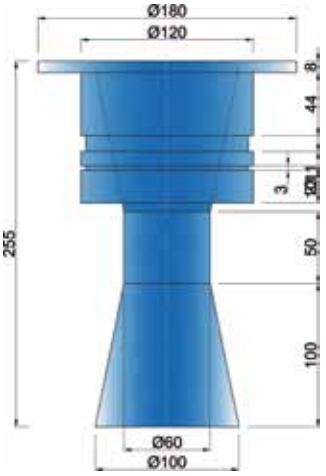
1



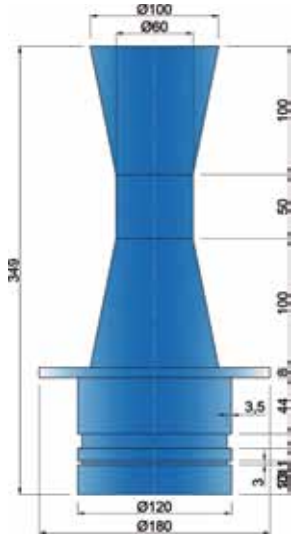
2 - 150



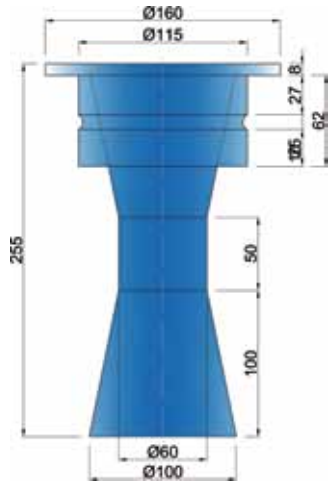
2 - 180



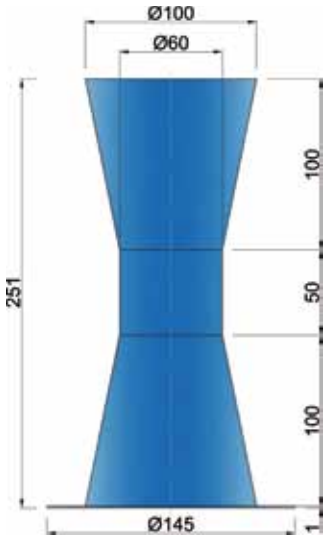
3



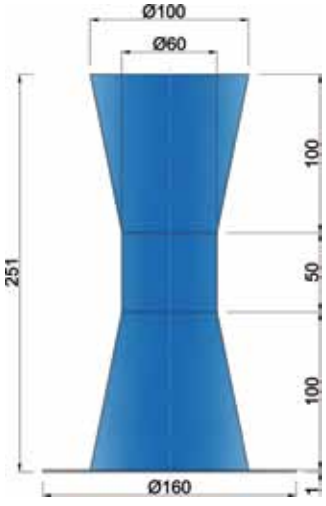
4



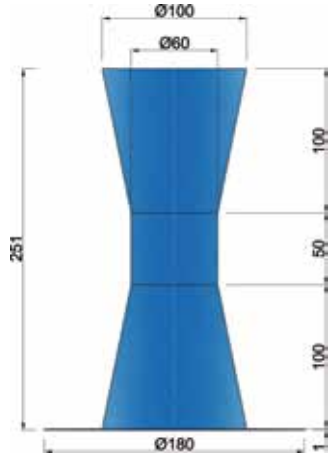
5 - 145



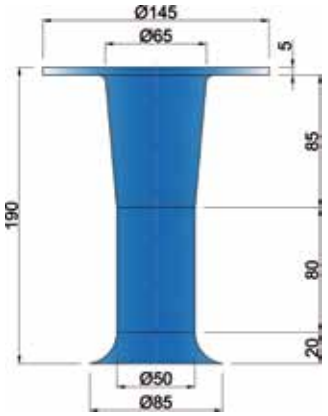
5 - 160



5 - 180

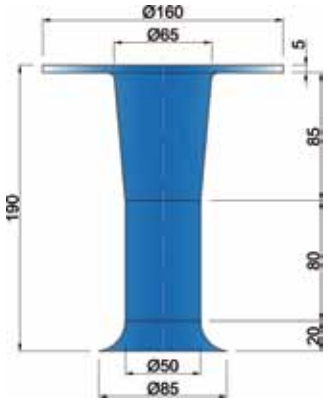


7 - 145

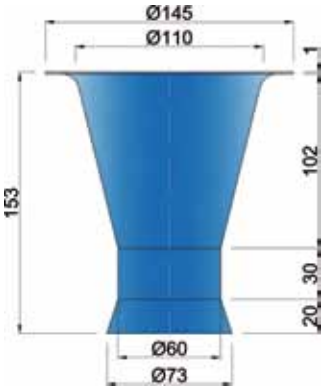


ABS

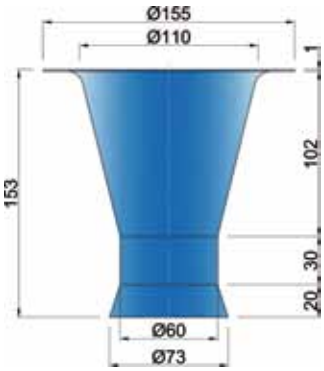
7 - 160



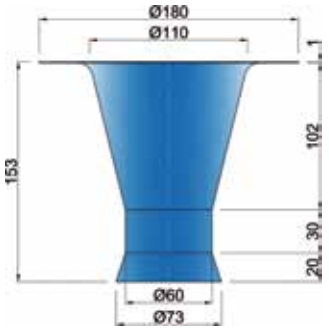
8 - 145



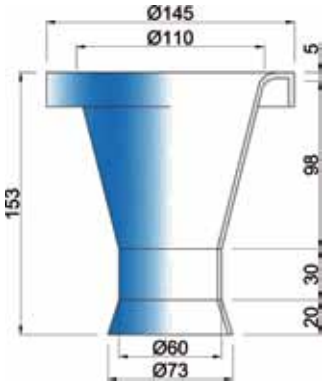
8 - 155



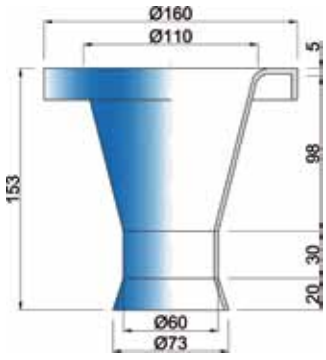
8 - 180



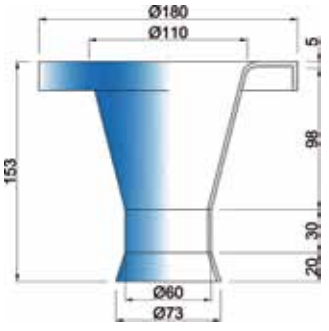
8R - 145

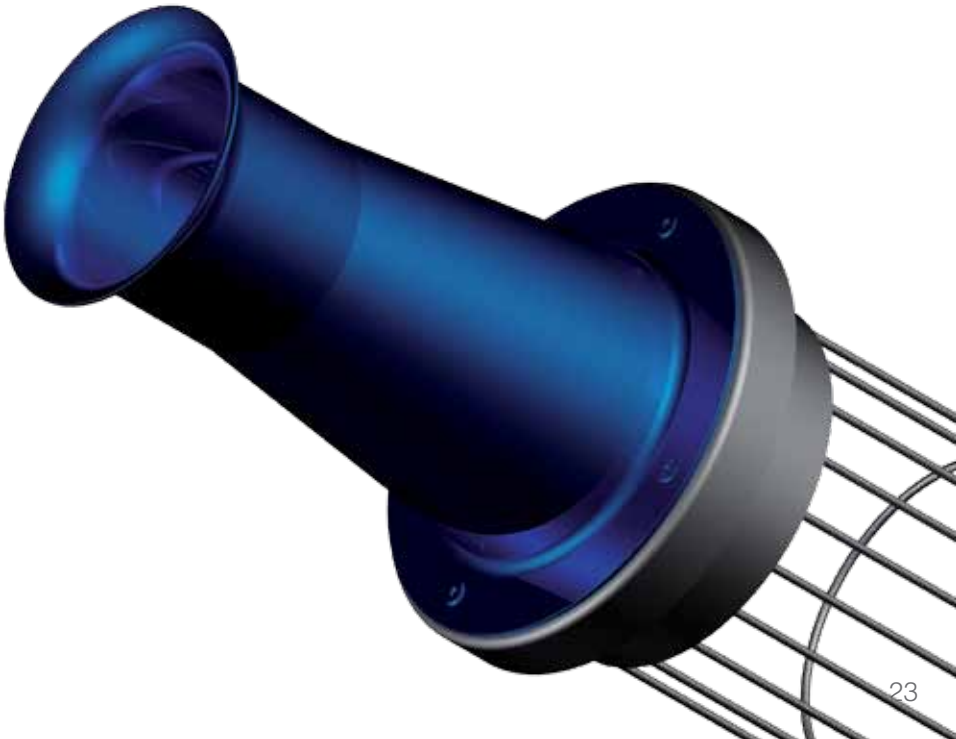


8R - 160



8R - 180

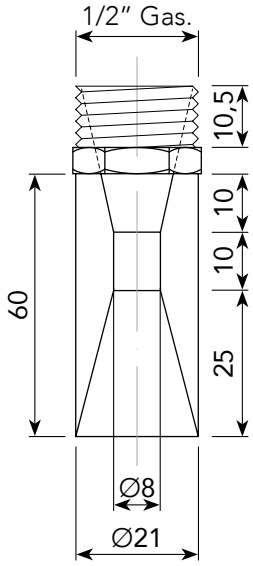


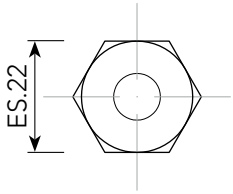


Nozzles / Fittings

FilSystem's nozzles are manufactured in plastic or die-cast aluminium.

VENTURI-SHAPED
IN ALUMINIUM

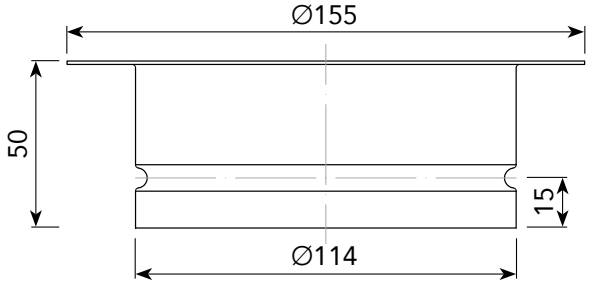




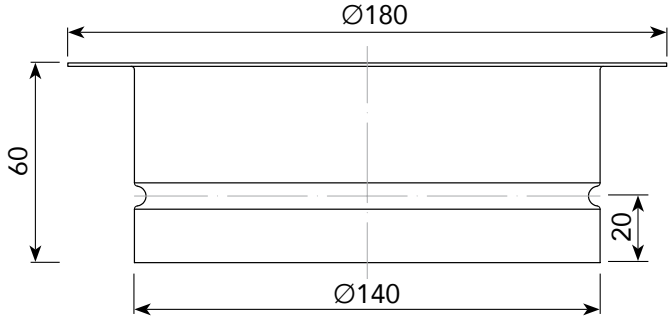
Support collars / Fittings

FilSystem's support collars are realized in either rough or galvanized or stainless steel.

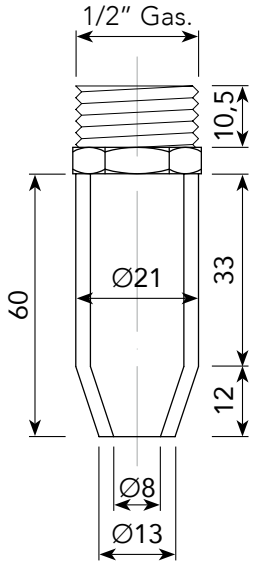
SUPPORT COLLAR
3 HOLES

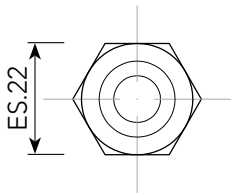


SUPPORT COLLAR
4 HOLES

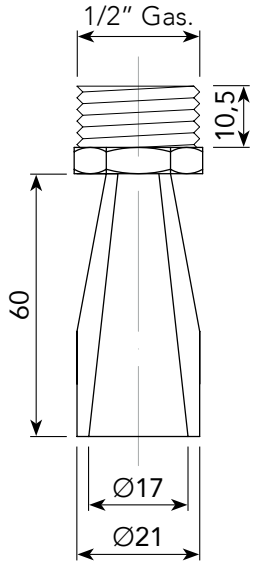


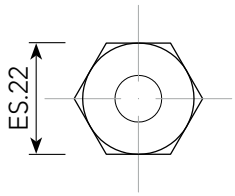
POINTED
IN ALUMINIUM
OR PLASTIC





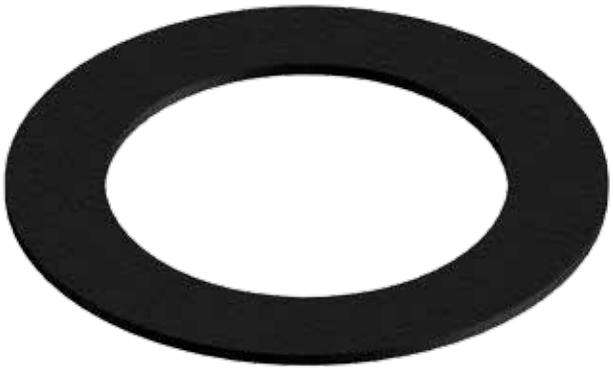
VENTURI-SHAPED
IN PLASTIC

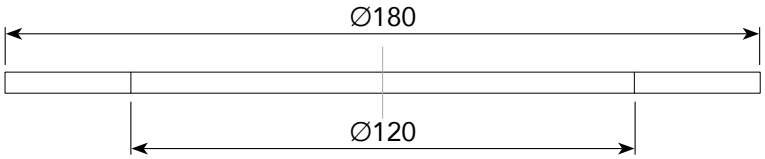


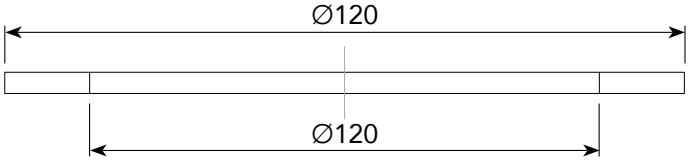


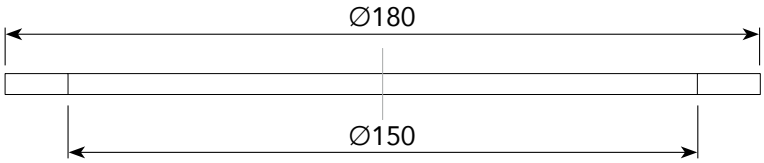
Gaskets / Fittings

Filsystem's Gaskets can be in Silicone, Neoprene or in glass fibre.









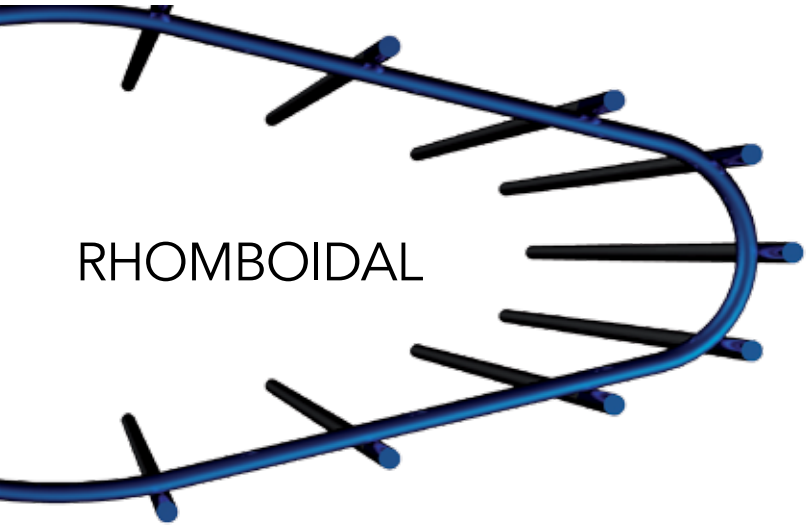
Sections

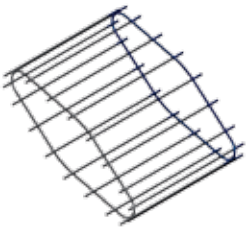
FilSystem is able to produce different sections for its filter cages.

Collars, End caps and Junctions are realized to be suitable for the chosen section of the cage.

RHOMBOIDAL
Standard diameter: 200x70

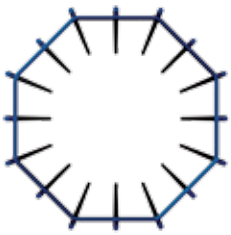
18 wires

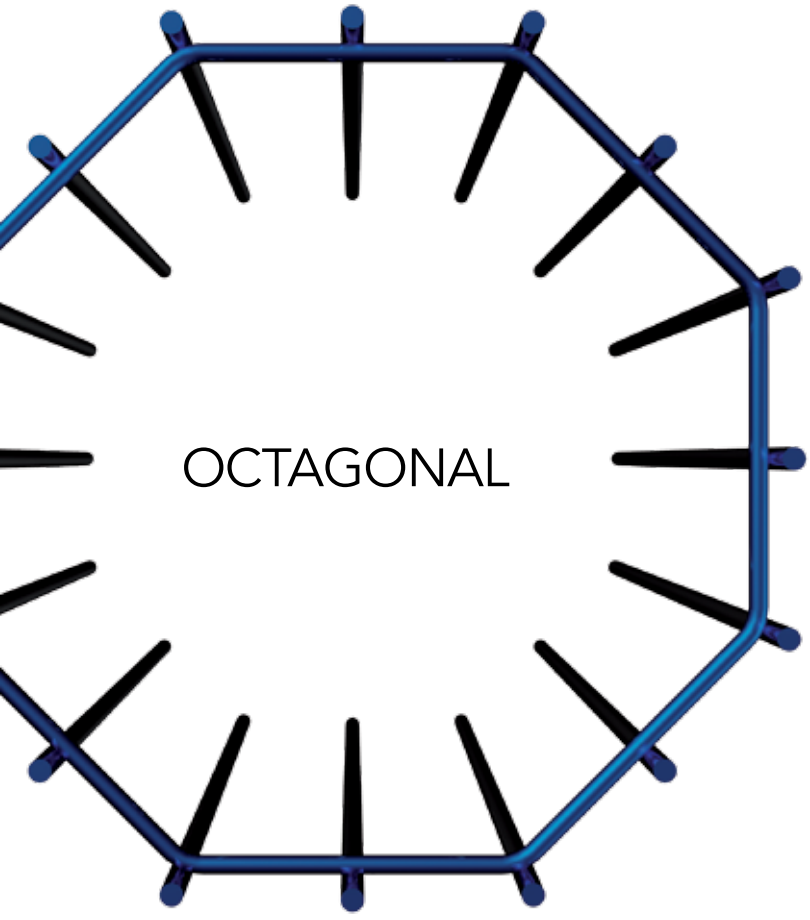


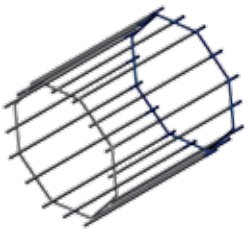


OCTAGONAL
Standard diameter: Ø125

16 wires

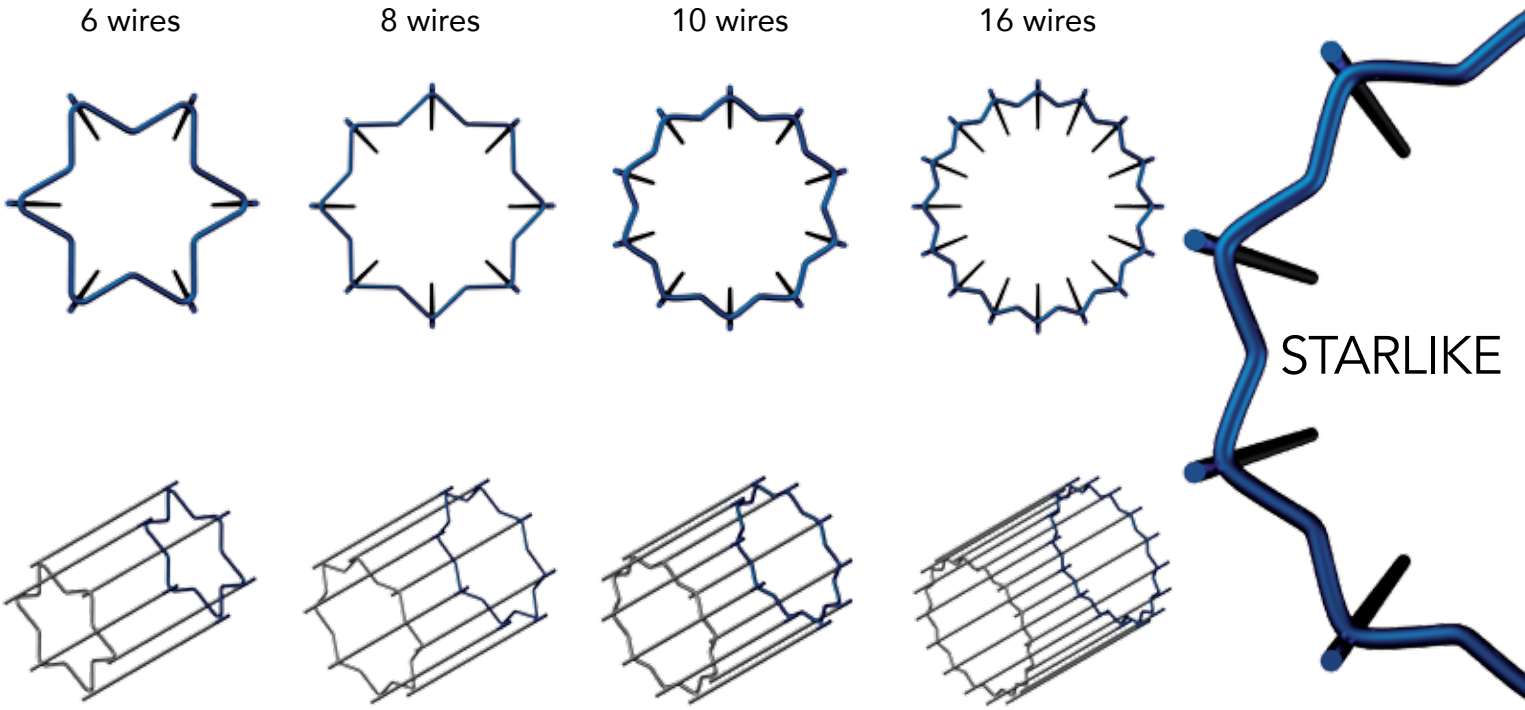






STARLIKE
Standard diameter: Ø125

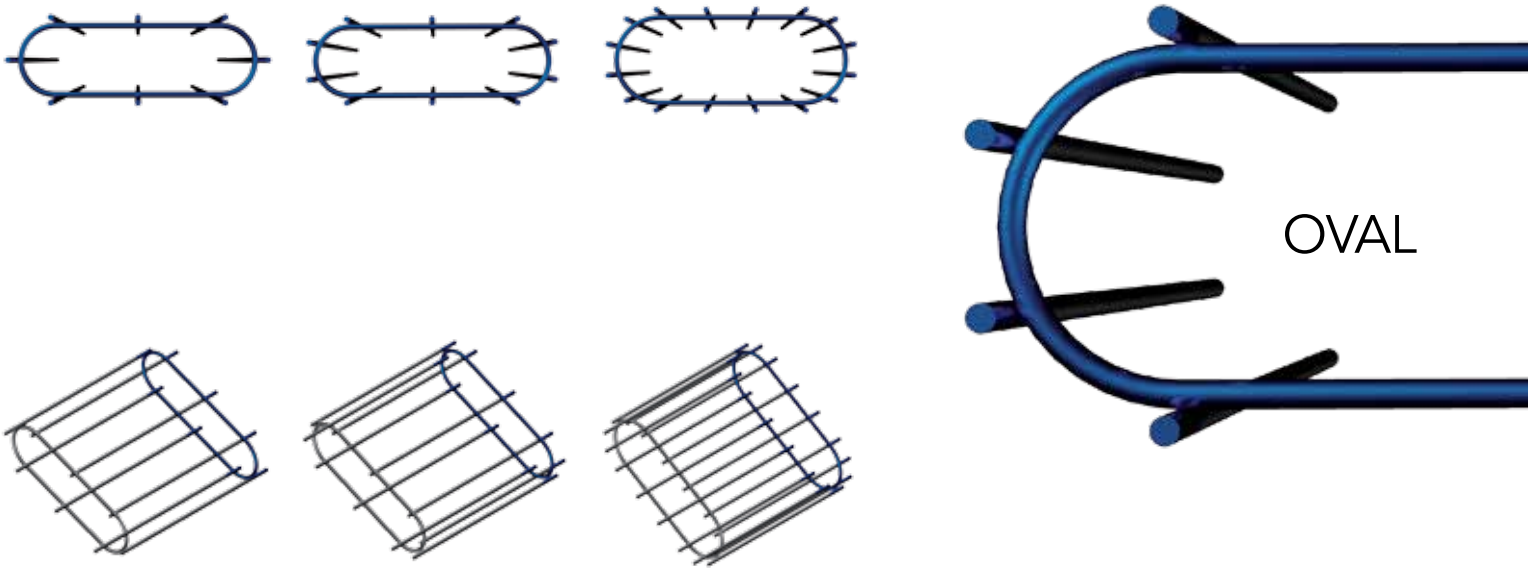
6 wires | 8 wires | 10 wires | 16 wires



OVAL
Standard diameter: 145x50 / 155x65

Other diameter upon request.

8 wires | 10 wires | 16 wires

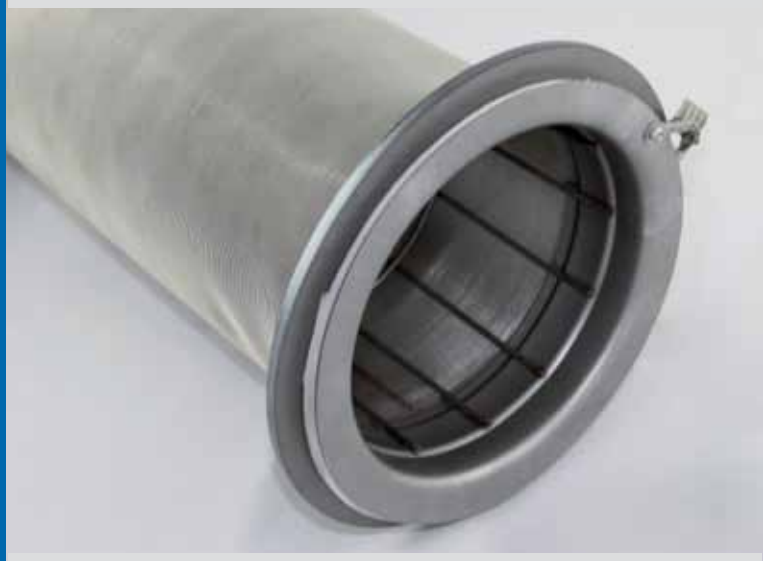


Newness

FILTER BAG CAGE WITH BAYONET COLLAR FOR THE EXTRACTION FROM THE LOW

FILTER BAG CAGE WITH SELF-SUPPORTING STRUCTURE AND INCORPORATED VENTURI

FILTER BAG CAGE WITH STEEL CLOTH FOR FILTER BOILER

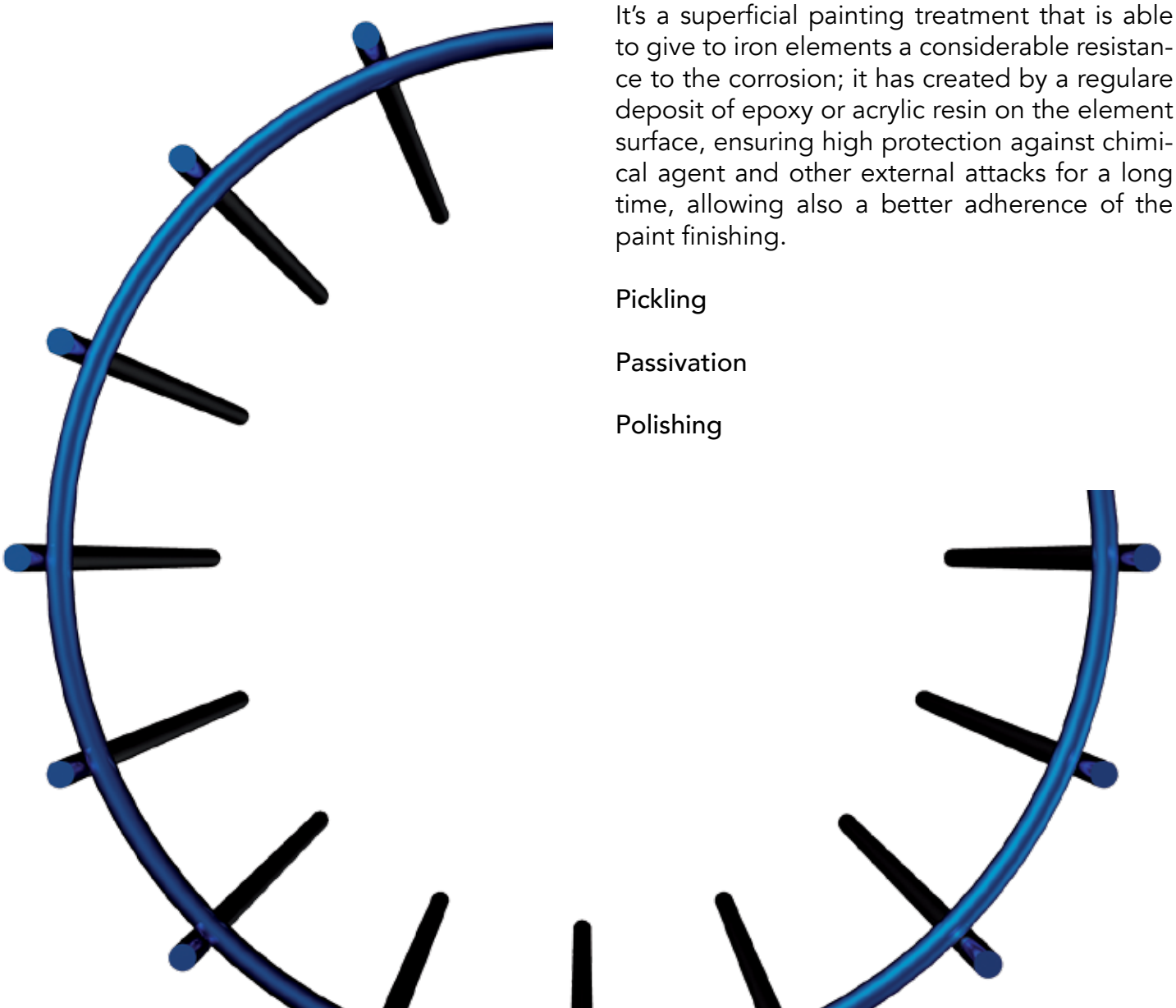


CONIC FILTER BAG CAGE WITHOUT COLLAR

Materials

FilSystem manufactures FILCAGES in a lot of different materials upon the specific applicatory requirement of the customer:

- Rough steel
- Pre-galvanized steel
- Corten-A (patent)
- AISI 304L stainless steel
- AISI 316L stainless steel
- 321 stainless steel
- Stainless steel in other alloys



Finishings

FilSystem's filter cages are carried out with different finishings:

Eloctrolytic galvanization

Epoxy powder coated
The paint we offer to our customer is of epoxy type, much more performance than the other normal paints because realized with a coating thick 100 µm: anti-acid, non-toxic and resistant up to 150 ° C.

High resistant powder coated

- HT 250°C
- HTT400°C

Cataphoresis coated by immersion
It's a superficial painting treatment that is able to give to iron elements a considerable resistance to the corrosion; it has created by a regulare deposit of epoxy or acrylic resin on the element surface, ensuring high protection against chimical agent and other external attacks for a long time, allowing also a better adherence of the paint finishing.

Pickling

Passivation

Polishing

Services

FilSystem offers to its customers services to make the difference.

Our staff will be on hand to:

- technical advice
- design
- after sales support
- delivery
- installation (upon request)

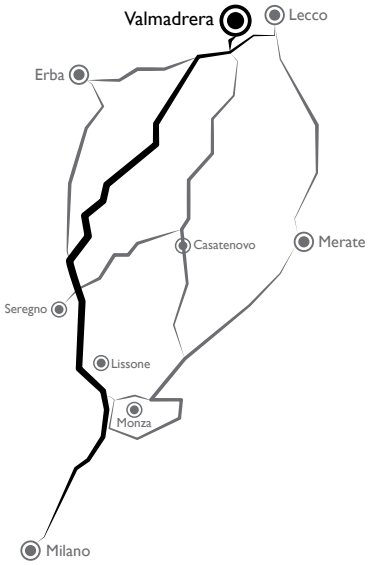
"….the only way to do great work is to love what you do. If you haven't found it yet, keep looking. Don't settle. As with all matters of the heart, you'll know when you find it…"

Steve Jobs

FILSYSTEM

PRODOTTI IN FILO METALLICO H.T.

Via Santa Vecchia, 80
23868 Valmadrera
Lecco - Italy

Tel. +39 0341 551176
Fax +39 0241 219224

info@filsystem.it
www.filsystem.it