



FNC S.p.A. is an Italian company established in 1927 with the purpose of manufacturing high precision mechanical products on customer request. For more than 50 years it has specialised in the manufacture of safety systems and components for Oil&Gas, Chemical and Pharmaceutical plants.

The products

FNC has developed two main lines within a vast range of products, the FLAME ARRESTERS and the BREATHING VALVES, which are applied widely in the storage sector.

The quality

In order to guarantee the best service for the customer, FNC has structured itself throughout the years in a way to obtain the highest qualitative standards, thus obtaining ISO9001 certification in 1994, ATEX 94/9/EC certification in 2003 and successively ISO14000, GOST and GLLOYD certification.

The mission

FNC wants to be a company acknowledged worldwide for the best quality/price ratio in the main product lines and leader in technological innovation for the service and customer safety.

The strategy

FNC continues with the development of its network or subsidiaries, distributors and agents, selected and prepared worldwide. Larger investments are allocated to Research and Development every year and also in continuous improvement projects regarding the products and processes.



Tank Protection Division



A new reality

Fabbrica Nazionale Cilindri S.p.A.

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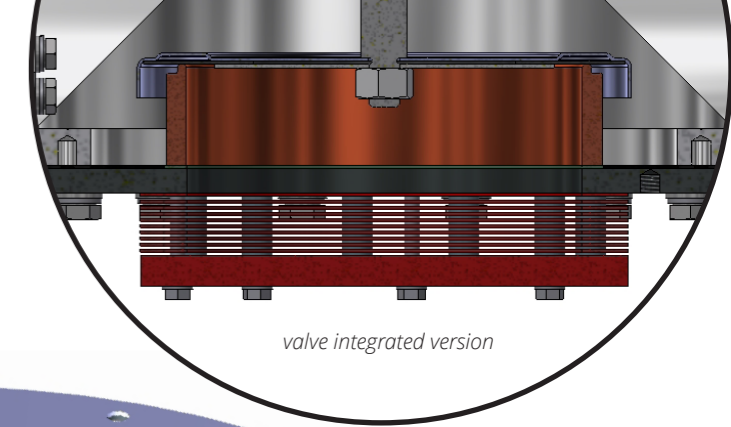
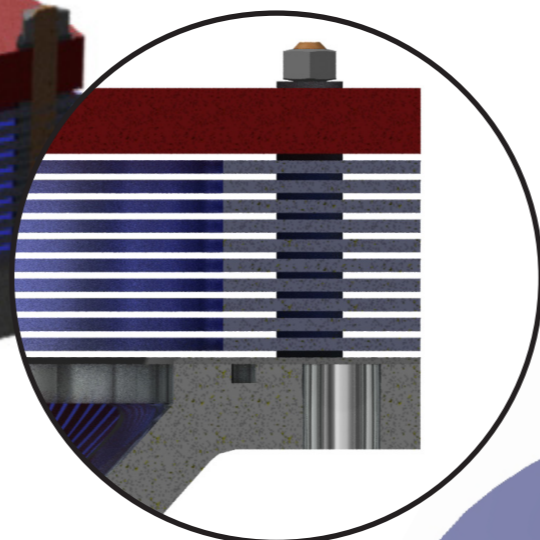
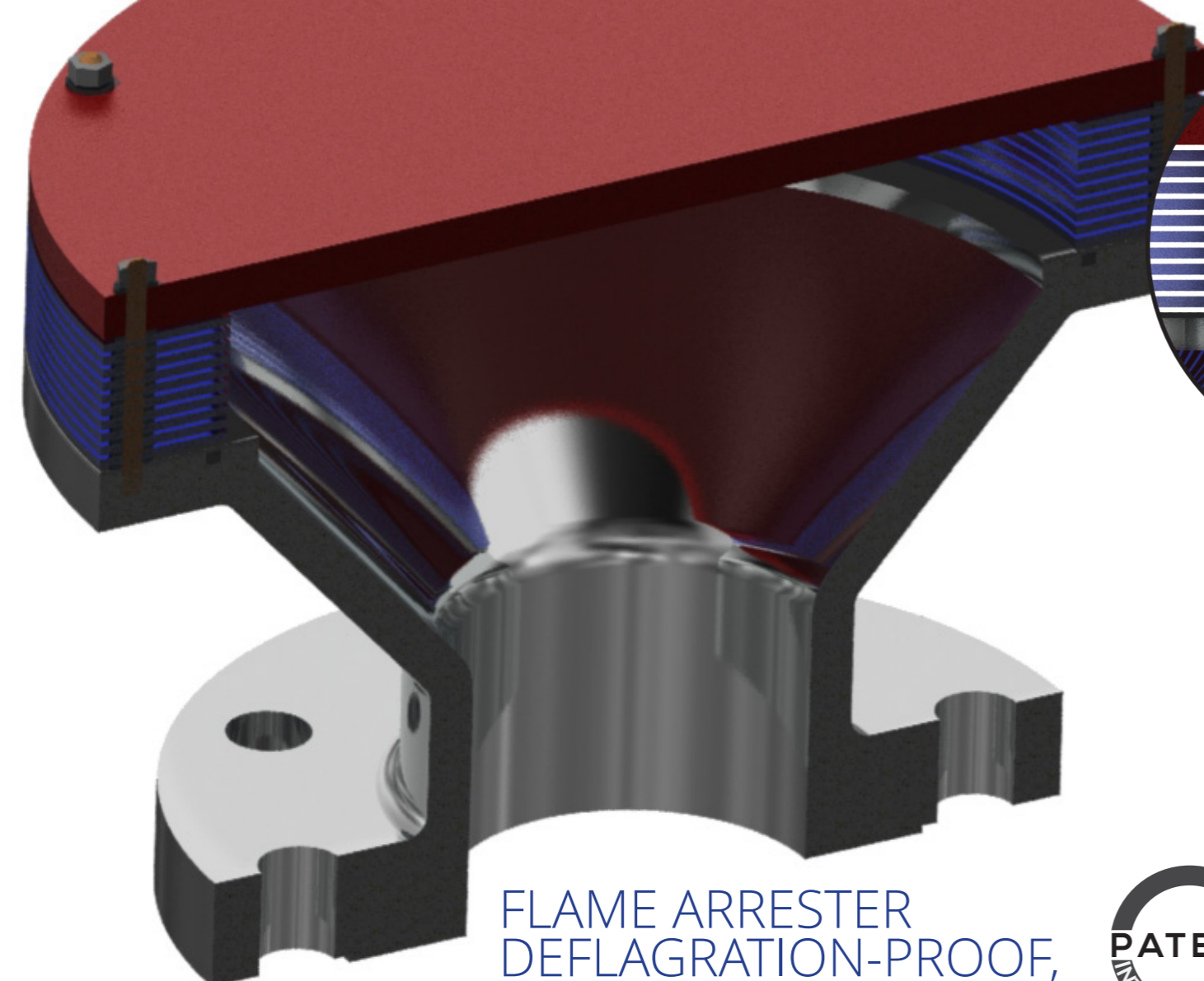
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FLAME ARRESTER DEFLAGRATION-PROOF, ENDURANCE BURNING AND DETONATION-PROOF



A BREAKTHROUGH IN FLAME ARRESTER TECHNOLOGY
FNC has developed and PATENTED a NEW GENERATION of flame arresters, thanks to over 50 years in the sector and a strong drive for innovation. The consolidated but delicate system based on CRIMPED METAL RIBBON filters has been replaced by a much simpler and effective REED VALVE system, which eliminates all problems occurring with previous technology.

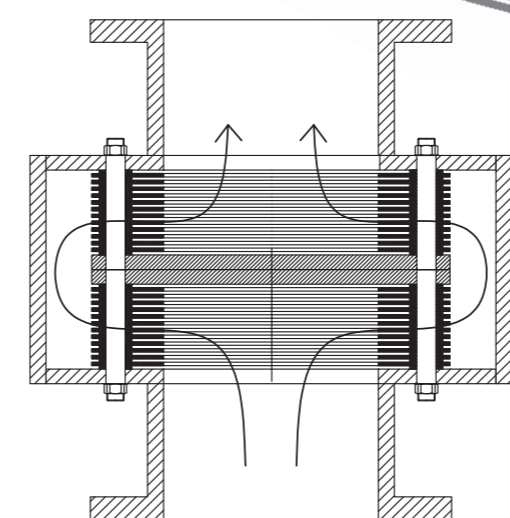
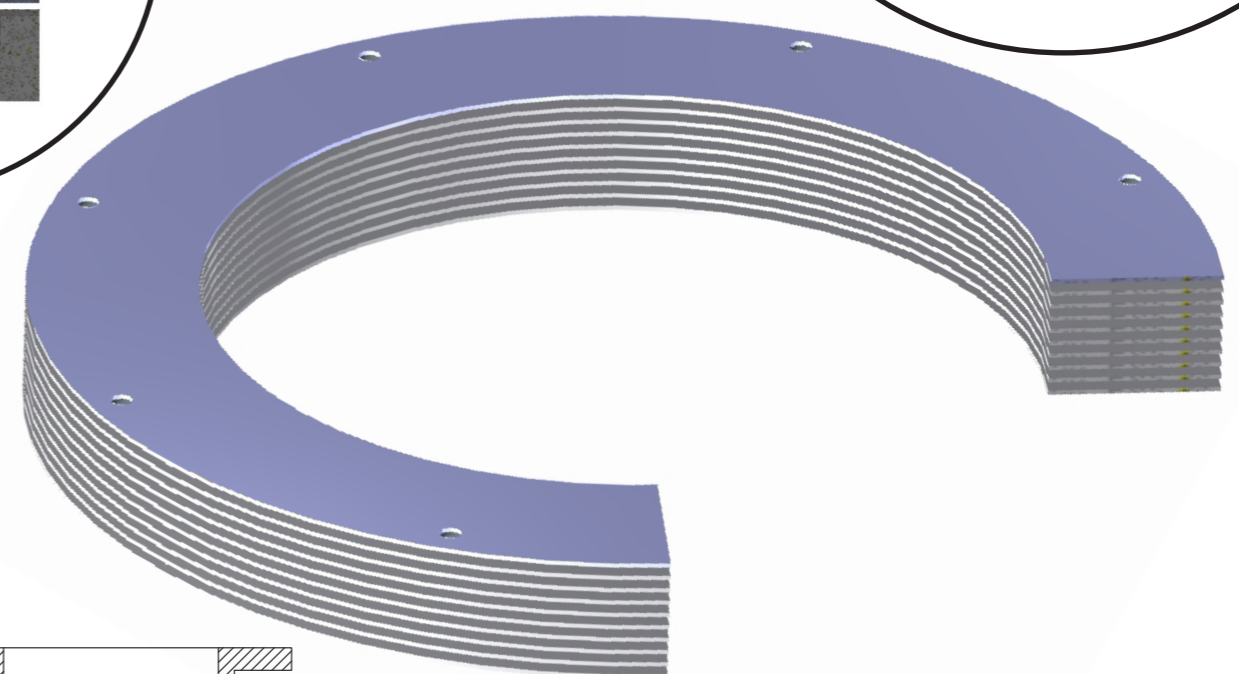
ADVANTAGES

- ✔ Drastic **reduction of pressure drops**, almost nil in some applications
- ✔ **Easier assembly and disassembly** and without risk of damaging the parts
- ✔ **Safer** due to minimisation of assembly errors
- ✔ **Reduction of fouling** thanks to improvement of passages
- ✔ **Simplified cleaning operation** until complete elimination of all dirt.
- ✔ **Smaller design** dimensions and lighter weight
- ✔ **Elimination** of the rain cap
- ✔ **Reduction** of spare parts
- ✔ **Lower cost**

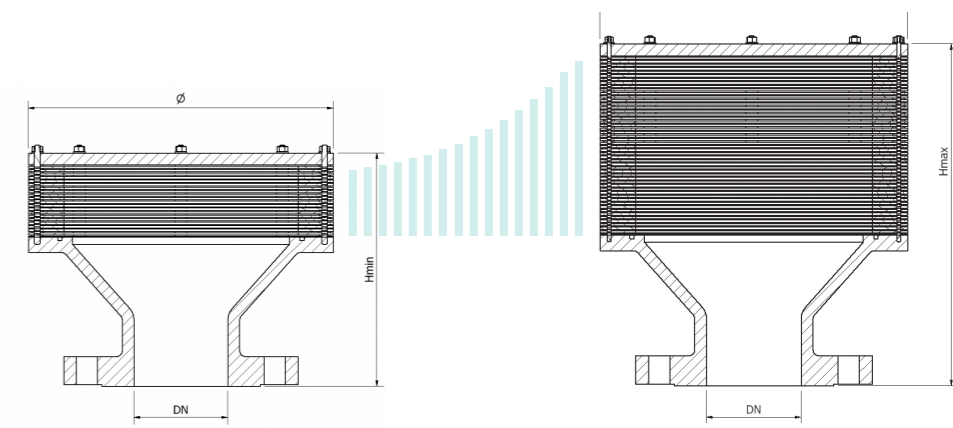
DEFLAGRATION-PROOF END OF LINE FLAME ARRESTER
The deflagration-proof end of line flame arrester, that prevents flame propagation from the outside towards the inside of a casing or piping, can be realised in the STAND ALONE or VALVE INTEGRATED version.

ENDURANCE-BURNING VERSION
The ENDURANCE BURNING version of the flame arrester can prevent the propagation of steady-state flames present indefinitely on the flame arrester, generated by an explosion and then fed by a continuous flow of gas.

The deflagration-proof and anti-detonation flame arresters in line prevent flame propagation, with or without pressure wave, through a line. These devices are still in the development and test phase but the first data indicates results just as positive as those for end of line arresters and therefore it is already possible to forecast a wide range of uses and advantages.



Inline deflagration-proof and endurance burning-proof



end of line deflagration-proof and endurance burning-proof

SIZE: from **DN25** to **DN600** (different sizes available upon request)
 OPERATING TEMPERATURE: from **-60°C** to **200°C**
 OPERATING PRESSURE: from **1,1bar** to **1,5bar** (can be extended in some cases up to **5bar**)
 EXPLOSION UNITS: **IIA, IIB3, IIC**

PARTS	C.STEEL	S.STEEL	COATED	HASTELLOY	SPECIAL
Body	C.Steel	SS316	C.Steel	C-276	Upon request
Elements	SS316	SS316	C-276	C-276	Upon request
Spacers	SS316	SS316	C-276	C-276	Upon request
Cover plate	C.Steel	SS316	C-276	C-276	Upon request
Bars	SS304	SS316	C-276	C-276	Upon request

DN	25	32	40	50	80	100	150	200	250	300	350	400	500	600
Ø	125	140	150	212	260	327	404	470	568	685	930	930	1130	1390
Hmin	95	95	95	130	151	171	233	263	290	325	405	405	433	452
Hmax	230	230	230	265	286	306	368	398	425	460	540	540	568	587

