



# In-Line Deflagration Flame Arrester



Mod. 182 EN P



## APPLICATION

It's a Protection System with ribbon coil: deflagration in-line flame arrester in according with Directive 2014/34/EU and harmonized standard EN ISO 16852:2016.

Normally installed where a potentially explosive mixture might be generated to isolate flames in a circumscribed area.

- Used for hydrocarbons or chemical pipeline.
- Stage I vapor recovery compliant.
- The Flame Arrester avoids propagation of fire into the piping.
- Surface Protection System is for all ATEX zone (0, 1 and 2).



CE 477 Ex G IIB3

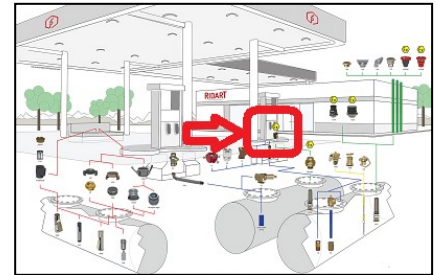
## GAS & VAPOR COMPATIBILITY

Inflammable gases and vapours classification is necessary to correct use of flame arrester. UE-Type Examination Certificate EPT 18 ATEX 3053 X is for Explosion Group "IIB3" tested with Ethylene and compatible for all gas with MESG > 0.65 mm for example: Ammonia, Industrial methane, Blas-furnace gas, Carbon monoxide, Propane, Butane, Pentane, Esane, Eptane, Iso-octane, Decane, Benzene, Xilene, Cyclohexane, Acetone, Ethyl-methyl-ketone, Methyl acetate, Ethyl acetate, Normal propyl acetate, Normal butyl acetate, Amyl acetate, Cloroethylene, Methanol, Ethanol, Iso Butanol, Normal Butanol, Amyl alcohol and Ethyl nitrite. Use only for gas or vapor with MESG > 0.65 mm. Burning rating BC=b,  $t_{BT}=1$  min. Max operational temperature 60°C.

## ATTENTION

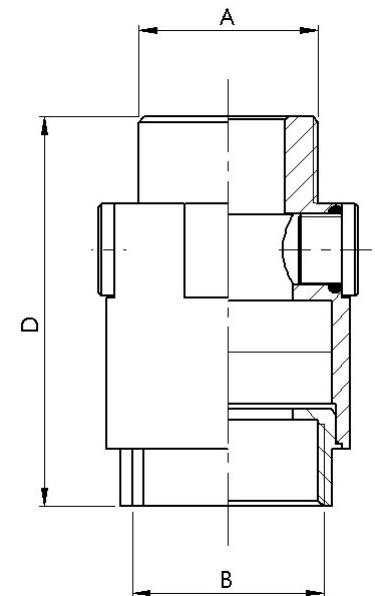
The best performances allowed by the new regulation

- Max distance from the potential ignition is 50 pipe's diameter
- Max operational pressure (relative) is 0,1 bar.



## DIMENSIONS

PRODUCT	182 EN P	182 PTFE	182 SS
CODE	182-25T EN P	182-25T PTFE	182-25T SS
PROTECTED SIDE	MALE THREAD	MALE THREAD	MALE THREAD
THREAD A	1" BSPP M	1" BSPP M	1" BSPP M
THREAD B	1" BSPP F	1" BSPP F	1" BSPP F
SERVICE HOLE	1/4" BSPP F	1/4" BSPP F	1/4" BSPP F
HEIGHT D	72	72	72
AIR FLOW l/min (50 mbar)	870	870	870



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## CHEMICAL SUITABILITY

- Standard model is for traditional fuel without additives.

ON REQUEST:

- "PTFE" coated model is for special fuel, non-aggressive solvents or chemical products.
- "SS" model is for aggressive solvents, acids or bases.

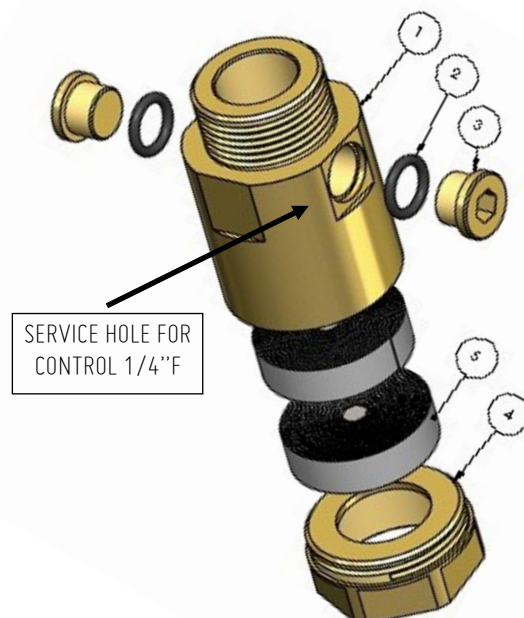
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Product Certification, Declaration of Conformity, User Manual and Testing on: [www.ridart.it/support](http://www.ridart.it/support)

The Data and Images are not binding. We reserve the right to make changes without notice. Pressure & Flow Tolerances  $\pm 20\%$ .

#	PART	182 EN P	182 EN P PTFE	182 EN P SS
#	CODE	182-25T EN P	182-25T PTFE	182-25T SS
1	MALE BODY	BRASS	BRASS + PTFE	STAINLESS STEEL
2	SEAL	VITON®	TEFLON®	TEFLON®
5	RIBBON COIL	STAINLESS STEEL		
3	SCREWS	BRASS	BRASS + PTFE	STAINLESS STEEL
4	FEMALE BODY	BRASS	BRASS + PTFE	STAINLESS STEEL



## INSTALLATION

- In-line flame arrester is for vertical or horizontal installation.
- Protection System is unidirectional, the safety side is the MALE thread.
- For the installation of flame arresters it is necessary to strictly comply with the L/D ratio (pipe length/pipe diameter) and insure that the distance between potential ignition sources and the flame arrester does not exceed the max ratio of 50 L/D that corresponds to explosion group IIA and IIB3 (NEC groups D to C) according to EN ISO 16852.
- Explosion Group is "IIB3" in accordance with EN ISO 16852 (MESG > 0.65 mm).
- For correct installation follow the Directives and product User Manual.
- Contact our technical department for custom application or maintenance by email to: [quality@ridart.it](mailto:quality@ridart.it).
- Product Certification, Declaration of Conformity and User Manuals are available on: [www.ridart.it/support](http://www.ridart.it/support).

## MAINTENANCE

- Periodically check the device is necessary to remove possible dirt.
- Always replace the product after fire or deflagration.
- In case of tampering warranty expires and safety protection is not guaranteed.

To choose the correct Flame Arrester, scan QRcode and fill in the form:



## YOU MAY ALSO BE INTERESTED IN:

CODE	DESCRIPTION	
086855 EN P	In Line Flame Arrester Mod 181 EN P 3"	
085696 EN P SS	In Line Flame Arrester Mod 330 2" SS AISI 316	
086880 EN P	In Line Flame Arrester Mod 180 EN P 4"	
425-150 EN P	In Line Flame Arrester Flanged Mod 425 EN P DN150	
197 EN P-35	Pressure Vacuum vent with End Of Line Deflagration Flame Arrester Mod. 197 EN P 2"	

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