

181 EN P

In-Line Deflagration Flame Arrester

Brass



CE Ex G IIB3

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

- 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).

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.



Gas & Vapor compatibility

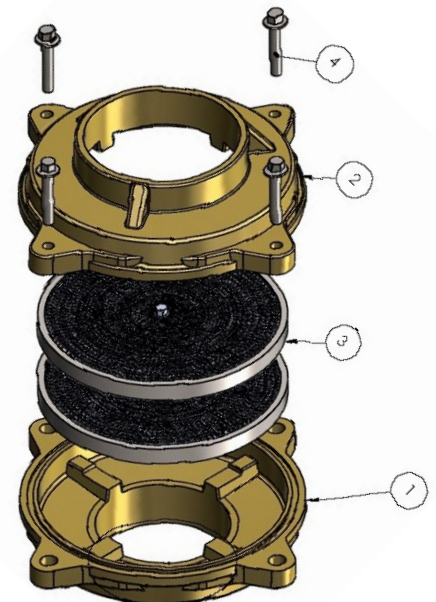
Inflammable gases and vapours classification is necessary to correct use of flame arrester.

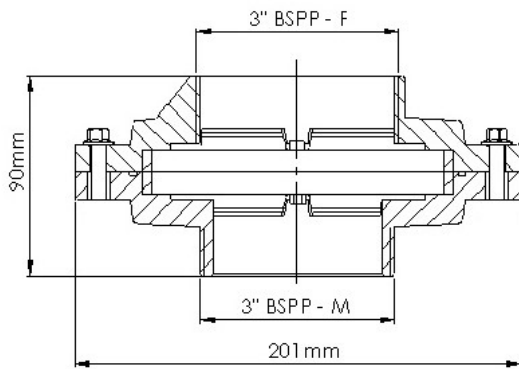
UE-Type Examination Certificate EPT 18 ATEX 3053 X is for Explosion Group "IIB3" tested with Ethylene and compatible for all gas with MESG > 0.65 mm for example: Ammonia, Industrial methane, Blast-furnace gas, Carbon monoxide, Propane, Butane, Pentane, Ethane, Ethane, Iso-octane, Decane, Benzene, Xylene, Cyclohexane, Acetone, Ethyl-methyl-ketone, Methyl acetate, Ethyl acetate, Normal propyl acetate, Normal butyl acetate, Amyl acetate, Chloroethylene, 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.

Specification

PART	181 EN P	181 EN P PTFE
CODE	086855 EN P	086855 ENP PTFE
1 MALE BODY	BRASS	BRASS + PTFE COATING
3 RIBBON COIL & SUPPORT	STAINLESS STEEL	STAINLESS STEEL
4 SCREWS	STAINLESS STEEL	STAINLESS STEEL
2 FEMALE BODY	BRASS	BRASS + PTFE COATING
PROTECTED SIDE	FEMALE THREAD	FEMALE THREAD
AIR FLOW l/min (50 mbar)	8000	8000





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.

Installation

- In-line flame arrester is for vertical or horizontal installation.
- Protection System is unidirectional, the safety side is the FEMALE thread.
- For correct installation follow the Directives and product User Manual.
- 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 according with EN ISO 16852 (MESG > 0.65 mm).
- Contact our technical department for custom application or maintenance by email to:
quality@ridart.it.
- Product Certification, Declaration of Conformity and User Manuals are available on:
www.ridart.it/support.

Maintenance

- Always replace the product after fire or deflagration.
- In case of tampering warranty expires and safety protection is not guaranteed.



Scan the QR code
and select the appropriate
flame arrester