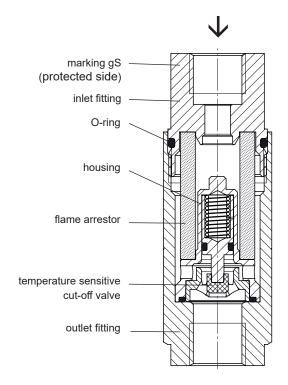
# DETONATION FLAME ARRESTER F53N DEFLAGRATION VOLUME PROTECTION DEVICE F53N







The deflagration volume protection device is ideal for protection of plants and equipment with a volume of max. 4.6 l.

Suitable as a detonation flame arrester ideal for mounting in small pipelines and to protect appliances, for example gas analysers.

### **Benefits**

- compact design according to DIN EN ISO 16852
- offer security in case of deflagrations and stabile detonations
- applicable for almost all flammable gases and gas mixtures (not combined with oxygen)
- a temperature sensitive cut-off valve extinguishes sustained flashbacks long before the internal temperature of the arrestors reaches a dangerous level
- low life cycle costs
- may be mounted in any position / orientation
- compact size for easy, problem free installation
- designing and testing according to Directive 2014/34/EU test report: PTB Ex 14-44012, Ex 23-43002
- EC type-examination certificate PTB 14 ATEX 4003 X

# **Function and description**

 the fitting protects against deflagrations and stabile detonations. Installation may be carried out at a distance from the ignition source of L/D<30 (deflagration) and of L/D>150 (stable detonation).

The small and compact design of the flame arrester is for use in pipelines.

designed for short burning with a burning time t<sub>BT</sub>=4 min.
 During this time there is no flash-back and the gas flow is interrupted ≤ 2 min. by the temperature sensitive cut-off valve

# **Approvals**

Company certified according to ISO 9001 and ATEX Directive 2014/34/EU

Marking



mounting position gS (geschützte Seite / protected side)

Other models, options and accessories available upon request.

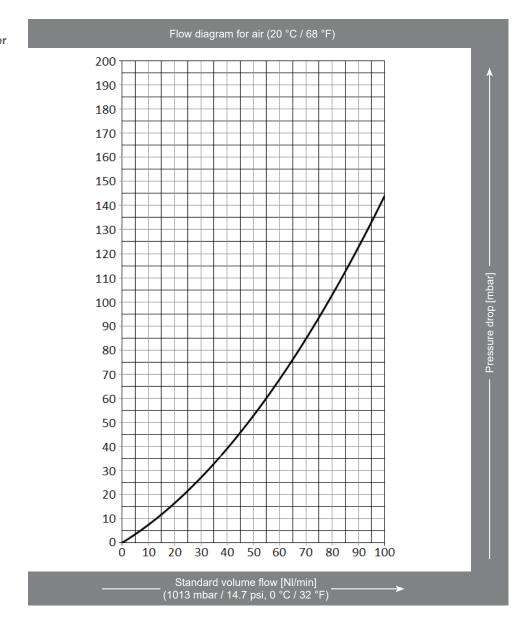
Application	Connec- tion	Volume	max. working pressure absolute	Standard gap width (MESG)	Tempera- ture	Material	O-ring Material	Order-No.
Deflagration volume protection device	Inlet F, G 1/4 Outlet F, G 1/4	max. 4.6 l	1.1 bar	- ≥ 0.29 mm	max. 60 °C	Inlet fitting, Outlet fitting, housing 1.4305 / AISI 303 flame arrester 1.4404 / AISI 316L	FKM	145-337
Detonation flame arrester		_	1.5 bar				FFKM	145-336

# ST24 USA - B01/4A subject to change

# **DETONATION FLAME ARRESTER F53N DEFLAGRATION VOLUME PROTECTION DEVICE F53N**



## **F53N Detonation flame arrester** 145-336 145-337



Butane x 0.68 Natural Gas x 1.25 Methane x 1.33 Propane x 0.80 Oxygen x 0.95 Town gas x 1.54 Hydrogen x 3.75

Conversion factors:

## **F53N Deflagration volume** protection device 145-336 145-337

Flow diagram upon request (depend on the system requirements)

# Example of installation:

