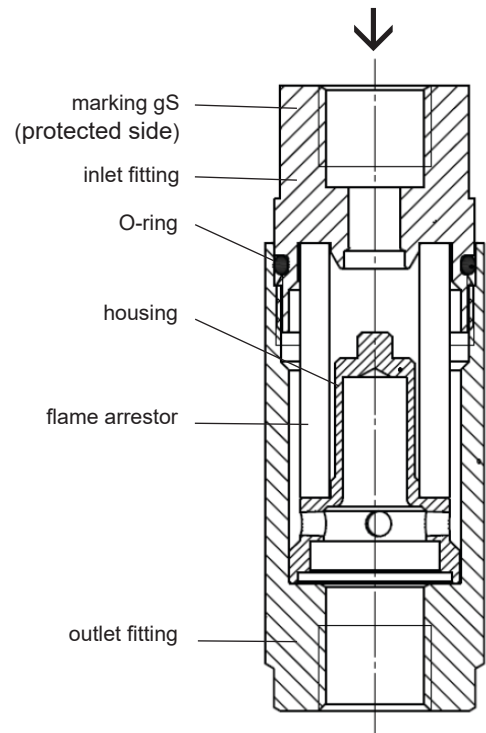


# DETONATION FLAME ARRESTER F53

## DEFLAGRATION VOLUME PROTECTION DEVICE F53



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)
- 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
- EC type-examination certificate PTB 14 ATEX 4003 X


### Function and description

- the fitting protects against deflagrations and stabile detonations. This allows mounting into pipelines in any position / orientation, independent of distance to the potential source of ignition. The small and compact design of the flame arrester is for use in pipelines.

### Approvals

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

### Marking

 II G IIC  
mounting position gS  
(geschützte Seite / protected side)

**Other models, options and accessories available upon request.**

Application	Connection	Volume	max. working pressure absolute	Standard gap width (MESG)	Temperature	Material	O-ring Material	Order-No.
Deflagration volume protection device	Inlet 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	NBR	145-250
	Outlet M, M 12						FKM	145-311
Detonation flame arrester			FFKM				145-312	
Deflagration volume protection device	Inlet F, G 1/4	-	1.5 bar				≥ 0.29 mm	max. 60 °C
	Outlet F, G 1/4			FKM	145-309			
	Detonation flame arrester			FFKM	145-310			

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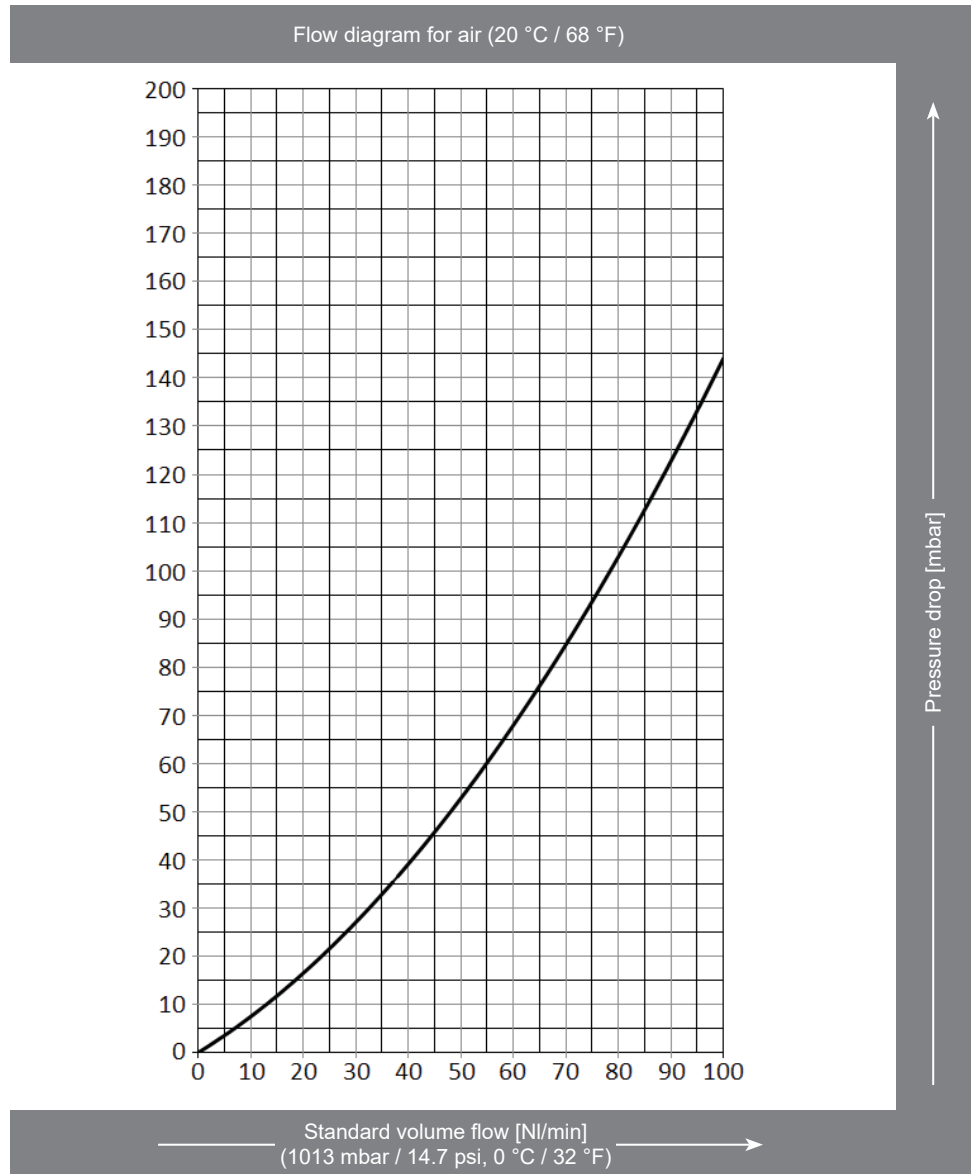
### F53

Detonation flame arrester

- 145-258
- 145-309
- 145-310

Conversion factors:

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



### F53

Deflagration volume protection device

- 145-250
- 145-311
- 145-312

Flow diagram upon request (depend on the system requirements)

Example of installation:

