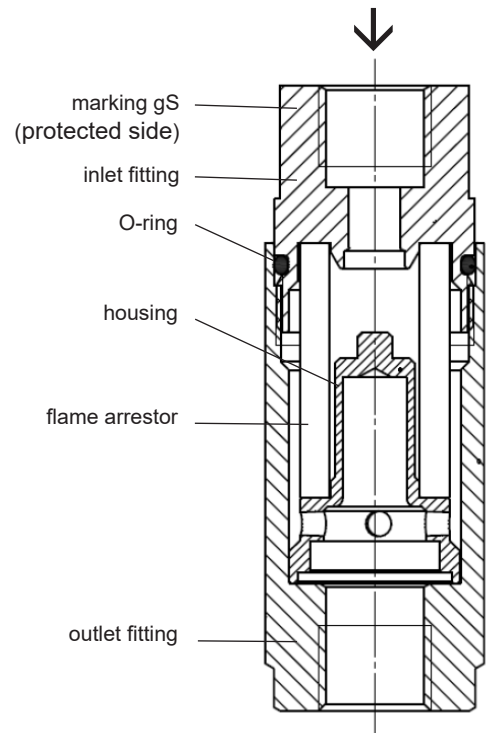


DETONATION FLAME ARRESTER F53

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	Temperature	Material	O-ring Material	Order-No.
Deflagration volume protection device	Inlet F, G 1/4	max. 4.6 l	1.1 bar	< 0.5 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				max. 60 °C	flame arrester 1.4404 / AISI 316L
	Outlet F, G 1/4			FKM	145-309			
Detonation flame arrester			FFKM	145-310				

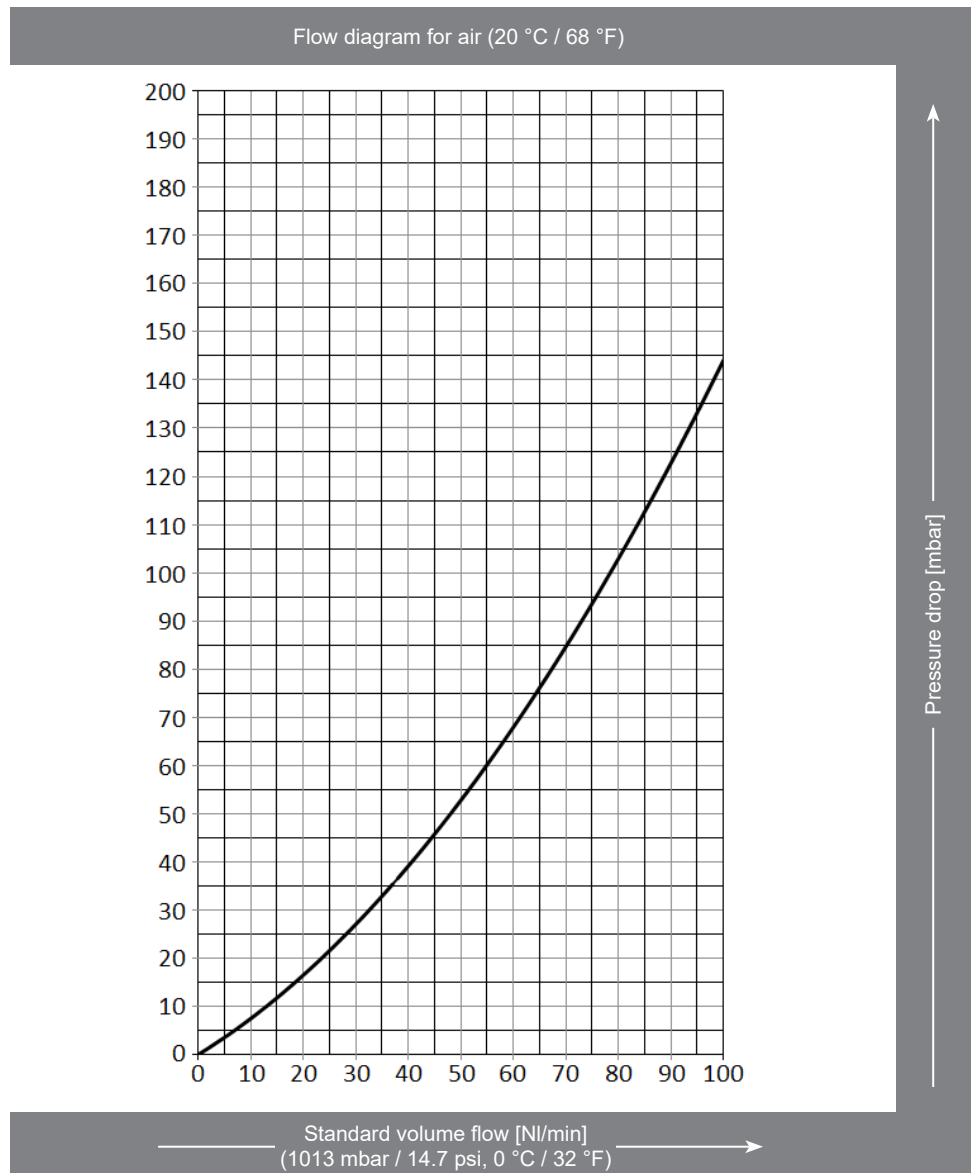
DETONATION FLAME ARRESTER F53

DEFLAGRATION VOLUME PROTECTION DEVICE F53

F53
 Detonation flame arrester
 145-258
 145-309
 145-310

Conversion factors:

Acetylene	x 1.04
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



F53
 Deflagration volume
 protection device
 145-250
 145-311
 145-312

Flow diagram upon request (depend on the system requirements)

Example of installation:

