

Flame arrester

as coupling element for mounting in zone 0

Type series MF21xx



Application area

For liquid and gaseous media in all areas of the process industry.

Features

For gas, mist and vapour-air mixtures of explosion groups IIC, IIB and IIA with a standard gap width ≥ 0.29 mm.

Options

- material certificate per EN 10204-3.1
- As per UKCA regulations

Application

Flame arresters of the MF21xx series are installed as coupling elements between a mechanical pressure gauge or a pressure transmitter of category 2G and the process to be measured.

Flame arresters prevent a possible flame arcing from a measuring device into the process.

Measuring devices that are suitable for use in zone 1 are suitable for mounting in zone 0 if the flame arrester is used and the conditions of use specified in Ex instruction XA_018 are complied with.

Technical data

Constructional design

Design:	Flame arrester
Material:	stainless steel mat.-no. 1.4404 (316L)
	with volume reducing element
Material:	stainless steel mat.-no. 1.4401 (316)
Type of device:	<ul style="list-style-type: none">■ Pre-volume deflagration flame arrester VDEF with threaded connection■ Pre-volume deflagration flame arrester VDEF for diaphragm seal operation
Connection variant:	see order code

Operating conditions

Operation temperature:	$\leq 60\text{ °C}$ *
Ambient pressure:	$\leq 1.1\text{ bar abs}$

* provide temperature decoupler if necessary

Tests and certificates

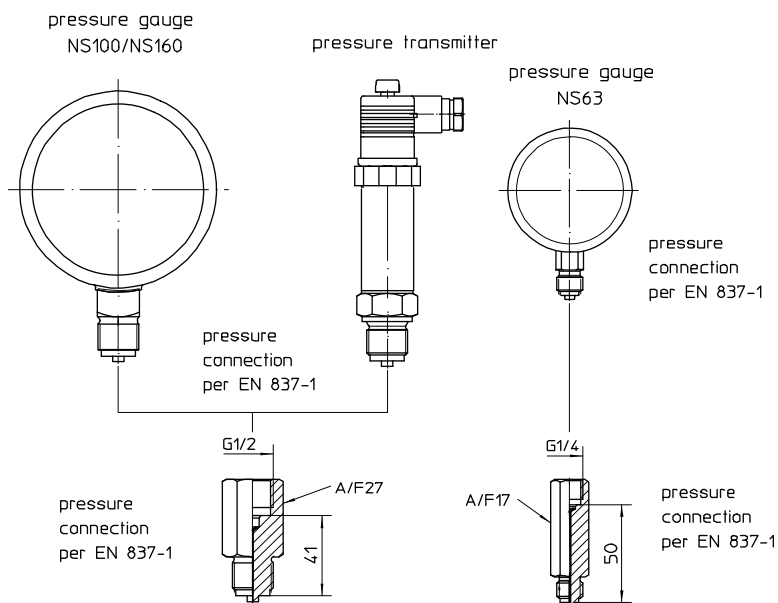
Ex approval

ATEX:	PTB 20 ATEX 4003 X Ⓔ II G IIC
UKEX:	CML 21UKEX91178X Ⓔ II G IIC

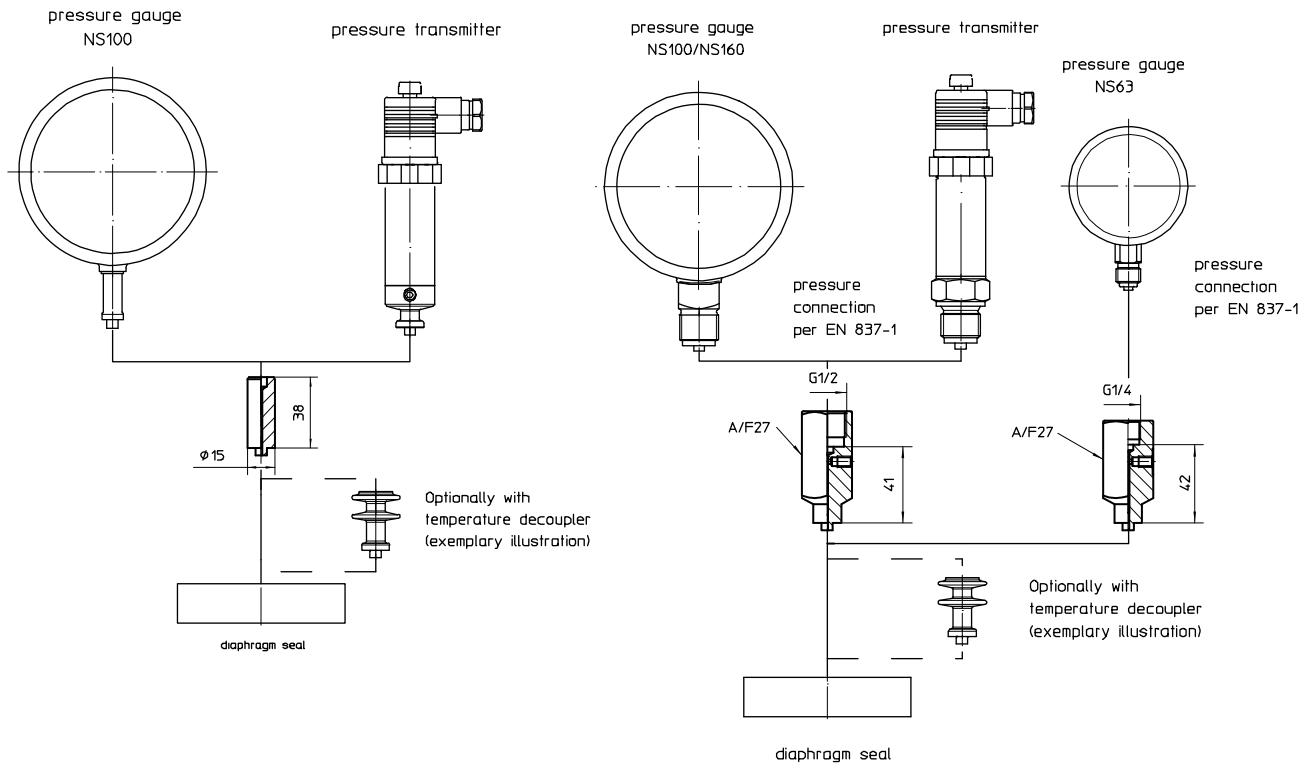
For detailed information see Ex Instruction XA_018.

Dimensions

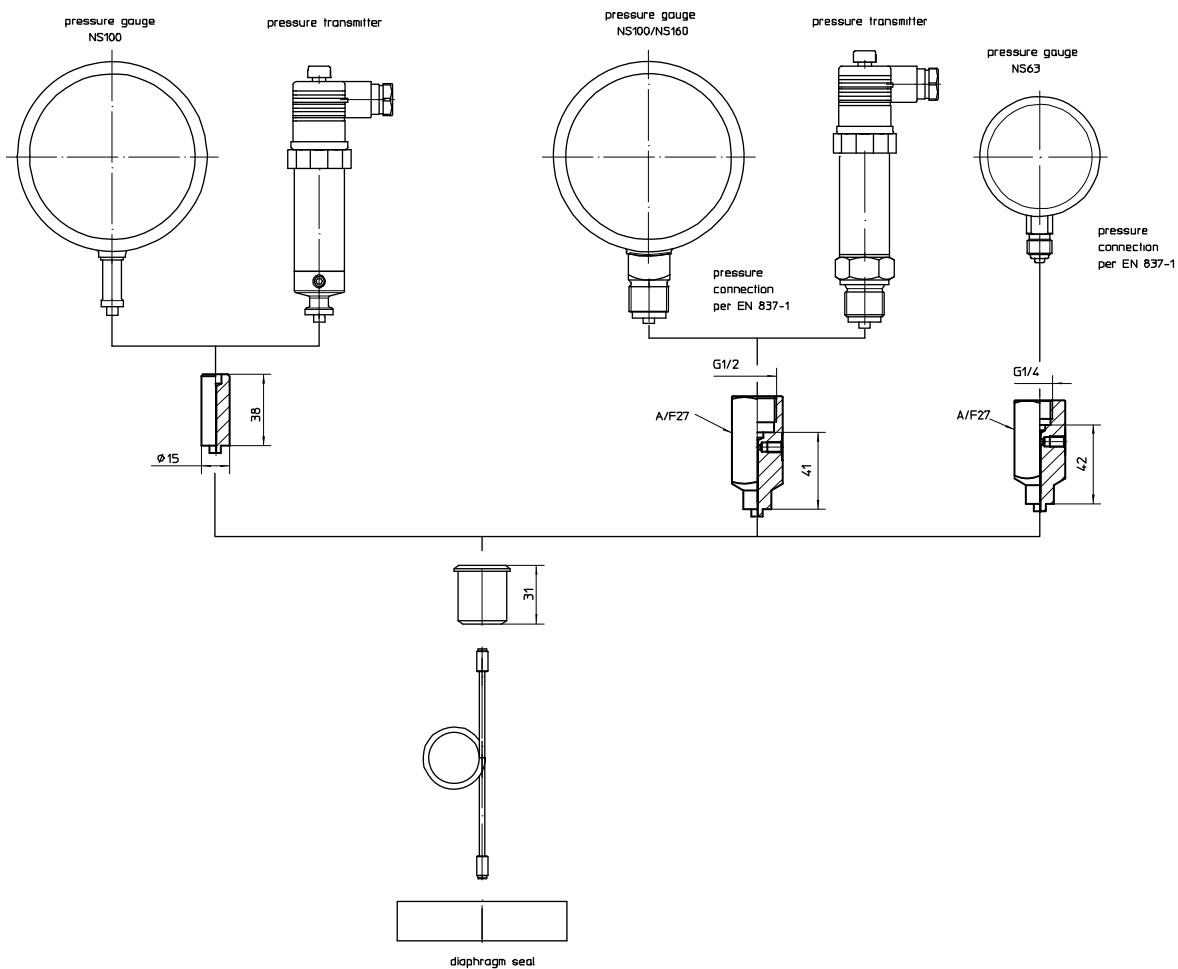
Flame arrester MF2100, Pre-volume deflagration flame arrester VDEF with threaded connection



Flame arrester MF2110, Pre-volume deflagration flame arrester VDEF for diaphragm seal operation





Flame arrester MF2110, Pre-volume deflagration flame arrester VDEF for diaphragm seal operation via capillary





All dimensions in mm

Order details

Flame arrester, Type series MF21xx

Order details MF2100			
MF2100	design	pre-volume deflagration flame arrester VDEF with threaded connection	
S92	Ex marking	PTB 20 ATEX 4003 X	 II G IIC
S93		CML 21UKEX91178X	 II G IIC
		<u>measuring device connection</u>	<u>process connection</u>
B1	connection	G1/2 female (EN 837-1)	G1/2 B (EN 837-1)
B2		G1/4 female (EN 837-1)	G1/4 B (EN 837-1)

Additional features (to be indicated in case of need, only):	
W1020	material certificate per EN 10204-3.1
W2660	as per UKCA regulations

MF2110	design	pre-volume deflagration flame arrester VDEF for diaphragm seal operation	
S92	Ex marking	PTB 20 ATEX 4003 X	 II G IIC
S93		CML 21UKEX91178X	 II G IIC
		<u>measuring device connection</u>	<u>diaphragm seal connection</u>
C1	connection	welded	welded
C1.1		welded	welded with capillary
C3		G1/2 female	welded
C3.1		G1/2 female	welded with capillary
C4		G1/4 female	welded
C4.1		G1/4 female	welded with capillary

Additional features (to be indicated in case of need, only):	
W2660	as per UKCA regulations

Order code (example): BA4200-A2057-S30 MF2100-B1