



ISO Registered Company



Model 6A00

Inline Deflagration Flame Arrestor

Easy Maintenance

OBJECTIVE

The Model 6A00 inline deflagration flame arrestor is a device that can be fitted to the opening of an enclosure or to the connecting pipe work of a system of enclosures. Its primary function is to allow the flow of gases or vapor of flammable liquids through the enclosure, but prevent the transmission of a flame. The element inside the housing provides an extinguishing barrier to the ignited vapor mixture by absorbing heat from the flame. The Model 6A00 is used as an independent safety system to ensure explosion protection.

TECHNIQUE

6A00 flame arrestors are designed on the principle of "quenching gap". The crimped SST metal element allows vapor to pass through in order to allow a vessel to breathe, yet prevents the propagation of a flame from the exposed side to the protected side.

CONSTRUCTION

Housing Material: Carbon Steel, Stainless Steel.

Trim Material: Stainless Steel (1.4571) element. Standard element is suitable for explosion group IIA1 and IIA flammable gases and vapors. Elements for other gas groups are available upon request.

SPECIAL FEATURES

The Model 6A00 is designed, manufactured, and tested according to Directive 2014/34/EU (ATEX114) and ISO 16852.

The single element design is bidirectional and available for horizontal or vertical installations.

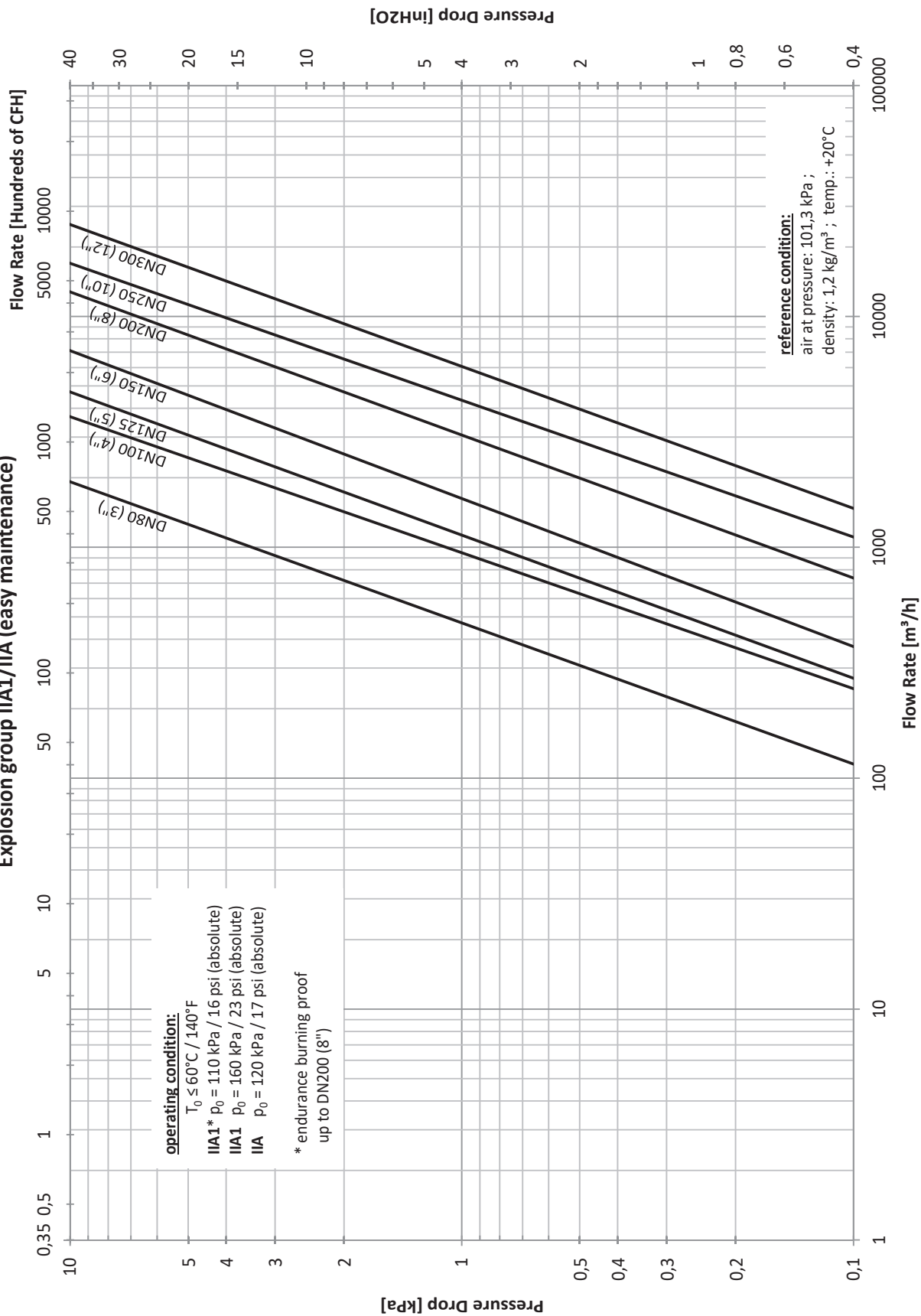
The maximum distance between flame arrestor and ignition source should not be more than 50 x the diameter of the connection size for most hydrocarbon gases.

Easy Maintenance: The Model 6A00 deflagration flame arrestor is a passive device with no moving parts. The flame cell element can be easily removed for inspection and cleaning in appropriate solvent solution.

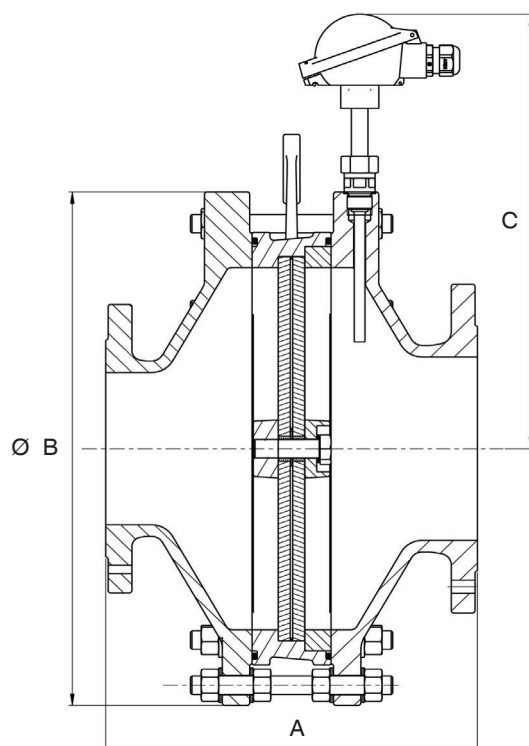
Sizes: Units are available in DN50, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400 (2", 2-1/2", 3", 4", 5", 6", 8", 10", 12", 14", 16") line sizes; thread connections according to ISO7/1, BS21 or ASME B1.20.1. Standard for flange connections to EN1092-1 PN10 or ASME B16.5 150#RF.

Series 6A00 Flow Curves

Explosion group IIA1/IIA (easy maintenance)



DIMENSIONS



Metric Units - mm					
SIZE		A		Ø B	C
DIN, ASME (*)		IIA1	IIA		
DN50		205		181	248
DN65		216		215	265
DN80		235		240	278
DN100		253		288	302
DN125 (**)		280		370	343
DN150		312		445	380
DN200		346		545	430
DN250		385		665	490
DN300		424		765	540
DN350	DIN	562		886	601
	ASME	682			
DN400	DIN	642		980	648
	ASME	742			

(*) DIN (PN10) Flange, ASME 150RF Flange
(**) NOT available with ASME 150RF Flange

English Units - in					
SIZE		A		Ø B	C
DIN, ASME (*)		IIA1	IIA		
2"		8.1		7.1	9.8
2-1/2"		8.5		8.5	10.4
3"		9.3		9.4	10.9
4"		10.0		11.3	11.9
5" (**)		11.0		14.6	13.5
6"		12.3		17.5	15.0
8"		13.6		21.5	16.9
10"		15.1		26.2	19.3
12"		16.7		30.1	21.3
14"	DIN	22.1		34.9	23.7
	ASME	26.9			
16"	DIN	25.3		38.6	25.5
	ASME	29.2			
(*) DIN (PN10) Flange, ASME 150RF Flange					
(**) NOT available with ASME 150RF Flange					

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6A00 Series PRODUCT CODER

11/25/24

6A

POS
3 & 4

POS
5

B

POS
7 & 8

POS
9

POS
10 & 11

POS
12

POS
13

POS
14 & 15

POS
16

POS
17

POS
18

POSITION 3 & 4 SIZE / EXPLOSION GROUP		
Size metric (in)	IIA1	IIA
	CODE	
DN50 (2")	0V	4F
DN65 (2-1/2")	13	4P
DN80 (3")	1B	4Y
DN100 (4")	1K	56
DN125 (5")	VW	VX
DN150 (6")	1U	5E
DN200 (8")	22	5N
DN250 (10")	2A	5X
DN300 (12")	2H	64
DN350 (14")	2S	6C
DN400 (16")	30	6L

POSITION 5 OPERATING CONDITION				
Explosion Group	Size	p _{max} absolute in kPa (psi)	T _{max} in °C (°F)	CODE
IIA1	DN65 - 200	110 (16)	≤ 60 (140)	X *
	DN50 - 200	160 (23)	≤ 60 (140)	Y
	DN250 - 400			6
IIA	DN50 - 200	120 (17)	≤ 60 (140)	W
	DN250 - 400			2

* Endurance burning proof. Please regard pos. 17.
Consult factory for additional operating conditions.

POSITION 7 & 8 CASING / ELEMENT / RIM MATERIALS	
Material	CODE
Stainless Steel (1.4571) Size DN350 - 400 (14" - 16")	0D
Stainless Steel (1.4581) Sizes DN50 - 300 (2" - 12")	0P

POSITION 9 GASKET MATERIALS	
Material	CODE
NBR	1
FKM	2
EPDM	3
FKM/FEP seamless covered	4

POSITION 10 & 11 HOUSING MATERIALS / CONNECTION		
(Flanged) Sizes DN50 - 400 (2" - 16")	DIN (PN10)	ASME(150#RF) *
	CODE	
Carbon Steel Sizes DN350 & 400 (14" & 16")	17	19
Carbon Steel (1.0619) Sizes DN50 - 300 (2" - 12")	37	39
Stainless Steel (1.4571) Sizes DN350 & 400 (14" & 16")	87	89
Stainless Steel (1.4581) Sizes DN50 - 300 (2" - 12")	97	99

(*) Not Available in Size 5".

POSITION 12 PORTS	
Number / Location	CODE
One port G1/2" on each side Std for all explosion groups and sizes	2
Two ports G1/2" on each side	4

POSITION 13 MOUNTING KIT MAT'L FOR HOUSING	
Material	CODE
8.8 Zinc Plated (Standard CS)	1
A2 Stainless Steel (Standard SST)	2
A4 Stainless Steel	3

POSITION 14 & 15 TEMPERATURE SENSOR (PT100)		
Quantity	Ex ia 3-wire	Ex ia 3-wire plus transmitter
	CODE	
None	00	00
One	01	02

Please regard pos. 17

POSITION 16 NAME PLATE	
Material / Language	CODE
Alum / German	7
Alum / English	8

POSITION 17 CONTINUOUS BURNING	
Description	CODE
Without PT100	0
Endurance burn proof	3
Short time burn proof *	7

* If PT100 is selected (pos. 14 & 15)

POSITION 18 PAINT	
Color	CODE
No Paint (Only Stainless Steel)	0
Epoxy (Standard) Signal Blue (RAL5005)	1
Hempadur (Off-Shore) Flame Red (RAL3000)	9

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