









# Model 6E00

**End-of-Line Deflagration Flame Arrestor** 

#### **OBJECTIVE**

The Model 6E00 end-of-line deflagration flame arrestor is a device that can be fitted directly on a vessel, tank vent nozzle, or on the end of a vent line. 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 from the outside. The element inside the housing provides an extinguishing barrier to the ignited vapor mixture by absorbing heat from the flame. The Model 6E00 is used as an independent safety system to ensure explosion protection.

#### **TECHNIQUE**

6E00 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 breath, 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.

#### SPECIAL FEATURES

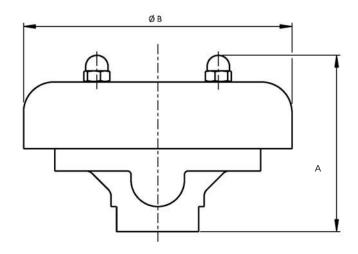
The Model 6E00 is designed, manufactured, and tested according to Directive 2014/34/EU (ATEX114) and ISO 16852.

**Easy Maintenance:** The Model 6E00 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 DN20, 25, 32, 40, 50, 80, 100, 150, 200, 250, 300 (3/4", 1", 1-1/4", 1-1/2", 2", 3", 4", 6", 8", 10", 12") line sizes; thread connections according to ISO7/1, BS21 or ASME B1.20.1. Standard for flange connections to EN1092-1 PN10, ASME B16.5 150#RF or JIS B 2220 10K.



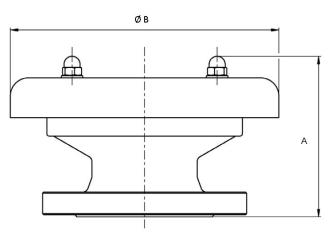
### **DIMENSIONS & WEIGHTS**



THREADED CONNECTION

Metric Units			
SIZE	Α	ØВ	Mojerht
Rp, BSP, NPTF	(mm)	(mm)	Weight (kg)
3/4"	99	150	2.3
1"	99	150	2.3
1-1/4"	99	200	3.0
1-1/2"	102	250	4.8
2"	102	250	4.6
-			

English Units				
SIZE	Α	ØВ	Weight	
Rp, BSP, NPTF	(in)	(in)	(lbs)	
3/4"	3.9	5.9	5.1	
1"	3.9	5.9	5.1	
1-1/4"	3.9	7.8	6.6	
1-1/2"	4.0	9.8	10.6	
2"	4.0	9.8	10.1	
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FLANGED CONNECTION

Metric Units				
DIN, ASME (*)	A (mm) DIN/ASME	Ø B (mm)	Weight (kg) DIN/ASME	
DN25	121	150	3.1	
DN50	135	250	7.2	
DN80	150	250	8.7	
DN100	170	350	12.1/13.8	
DN150	230	500	33.3/34.4	
DN200	240	600	46.3/49.0	
DN250	312/346	700	62.0/71.0	
DN300	305/350	700	63.0/83.0	
(*) DIN (PN10) Flange, ASME 150RF Flange				

English Units				
DIN, ASME (*)	A (in) DIN/ASME	Ø B (in)	Weight (Ibs) DIN/ASME	
1"	4.7	5.9	6.8	
2"	5.3	9.8	15.9	
3"	5.9	9.8	19.18	
4"	6.7	13.8	26.7/30.4	
6"	9.0	19.7	73.4/75.8	
8"	9.4	23.6	102.1/108.0	
10"	12.3/13.6	27.5	136.7/156.5	
12"	12.0/13.8	27.5	138.9/183.0	
(*) DIN (PN10) Flange, ASME 150RF Flange				



## **6E00 Series PRODUCT CODER**

01/26/1



POS 3 & 4 POS 5 B

02

POS 9 POS 10 & 11 POS 12

3

0

) PC

0

POS 18

POSITION 3 & 4 - SIZE/ EXPLOSION GROUP			
Size	IIB3	IIC	
metric (in)	CODE		
DN20 (3/4")	ES	MZ	
DN25 (1")	ET	N0	
DN32 (1-1/4")	F0	N7	
DN40 (1-1/2")	F8	NF	
DN50 (2")	F9	NG	
DN80 (3")	FS	NZ	
DN100 (4")	G0	P7	
DN150 (6")	G8	PF	
DN200 (8")	GG	PP	
DN250 (10")	GR	PY	
DN300 (12")	GS	PZ	

POSITION 5 - OPERATING CONDITION Pmax Tmax.		
P-max. (abs.)	T-max. °C (°F)	CODE
110kPa (16 psi)	≤ 60 (140)	1
110kPa (16 psi)	≤ 220 (428)	S *
* Only available for explosion group IIB3.		

POSITION 7 & 8 - CASING / ELEMENT / RIM MATERIALS	
Material	CODE
Stainless Steel (1.4571)	02

POSITION 9 - HOOD MATERIALS	
Material	CODE
Carbon Steel	1
Stainless Steel	2

POSITION 10 & 11 - HOUSING MATERIALS - CONNECTION				
(Threaded) Sizes	Rp	BSPP	NPT	
DN20, 25, 32, 40, 50 (3/4", 1", 1-1/4", 1-1/2", 2")	CODE			
CS (zinc plated)			23	
CS (1.0619 zinc plated)	41	42		
Stainless Steel (1.4581) Cast	91	92	93	
(Flanged) Sizes	DIN (PN10)	ASME(150#RF)	JIS (10K)	
DN25 - 300 (1" - 12")		CODE		
CS Sizes DN250 & 300 (10" & 12")	17	19	1C	
CS (1.0619) Sizes DN25 - 200 (1" - 8")	37	39	3C	
Stainless Steel (1.4571) Sizes DN250 & 300 (10" & 12")	87	89	8C	
Stainless Steel (1.4581) Sizes DN25 - 200 (1" - 8")	97	99	9C	

POSITION 12 - PORTS	
Number / Location	CODE
Without ports	1

POSITION 13 - BOLTING MATERIAL		
Material	CODE	
A4 Stainless Steel	3	

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

POSITION 18 - PAINT	
Color	CODE
No Paint (CS-Zinc or SST)	0
Blue Epoxy	1
Red Hempadur	9 *
* Design temperature > 60□ C	