

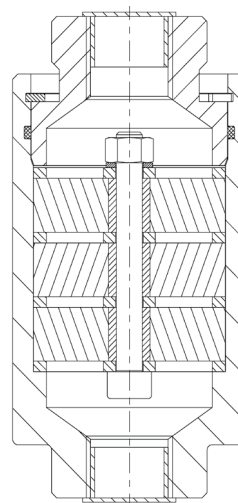


ISO Registered Company

## TECHNICAL BULLETIN

7A00-S - TB

09-22



# Model 7A00-S

## In-Line Detonation Arrestor

1/8" - 1/2"

### **OBJECTIVE**

The Model 7A00-S detonation 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 7A00-S is used as an independent safety system to ensure explosion protection.

### **TECHNIQUE**

7A00-S flame arrestors are designed on the principle of "quenching gap". The crimped SST metal element allows vapor to pass through, for example, in pipes of gas analyzers, but prevents the propagation of a flame from the exposed side to the protected side.

### **DESIGN**

The flame arrestor can be used for explosive gases or vapors of explosion groups IIA1, IIA, IIB3 and IIC. Other explosion groups on request.

**Housing Material:** Stainless Steel

**Trim Material:** Stainless Steel

### **FEATURES**

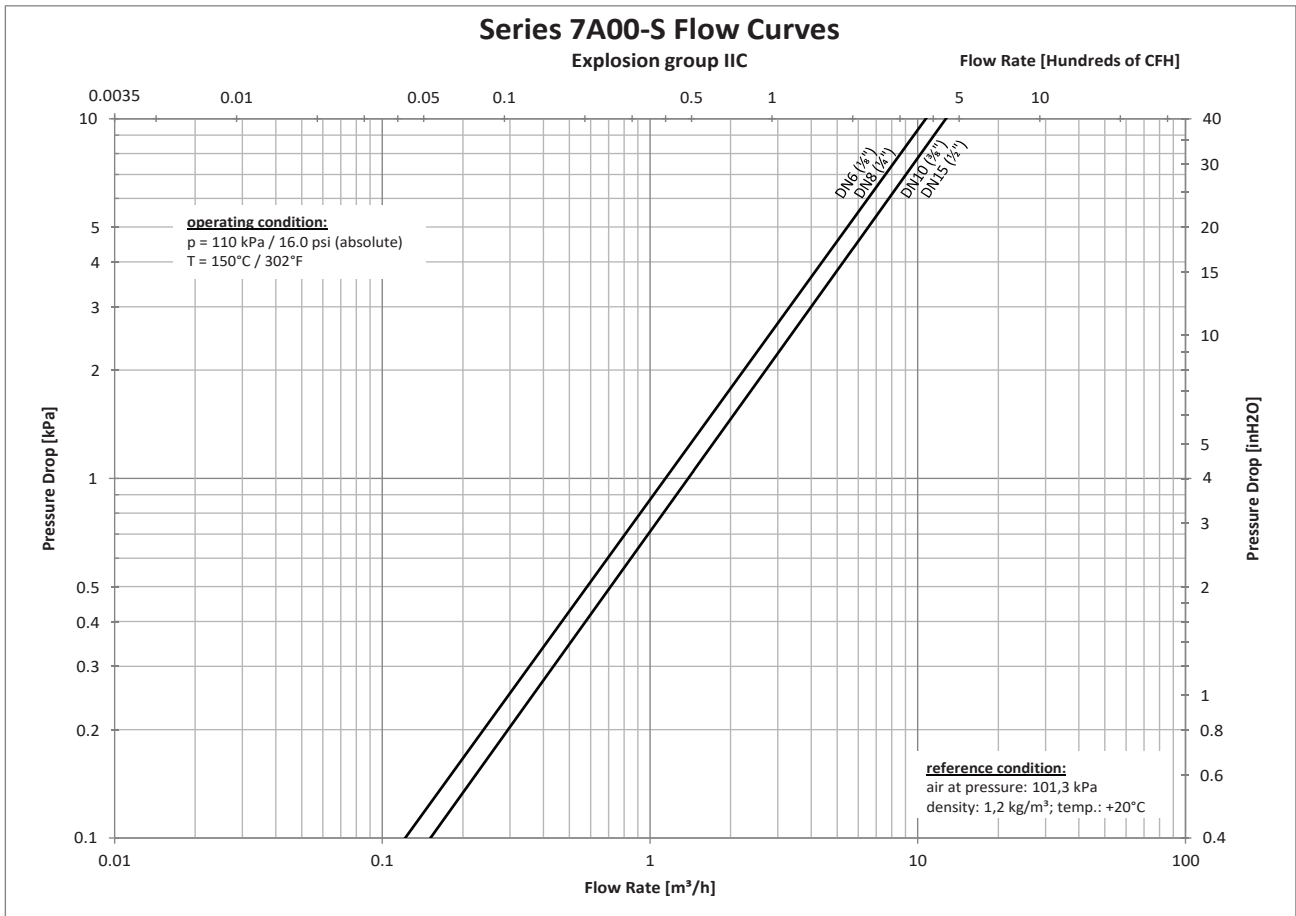
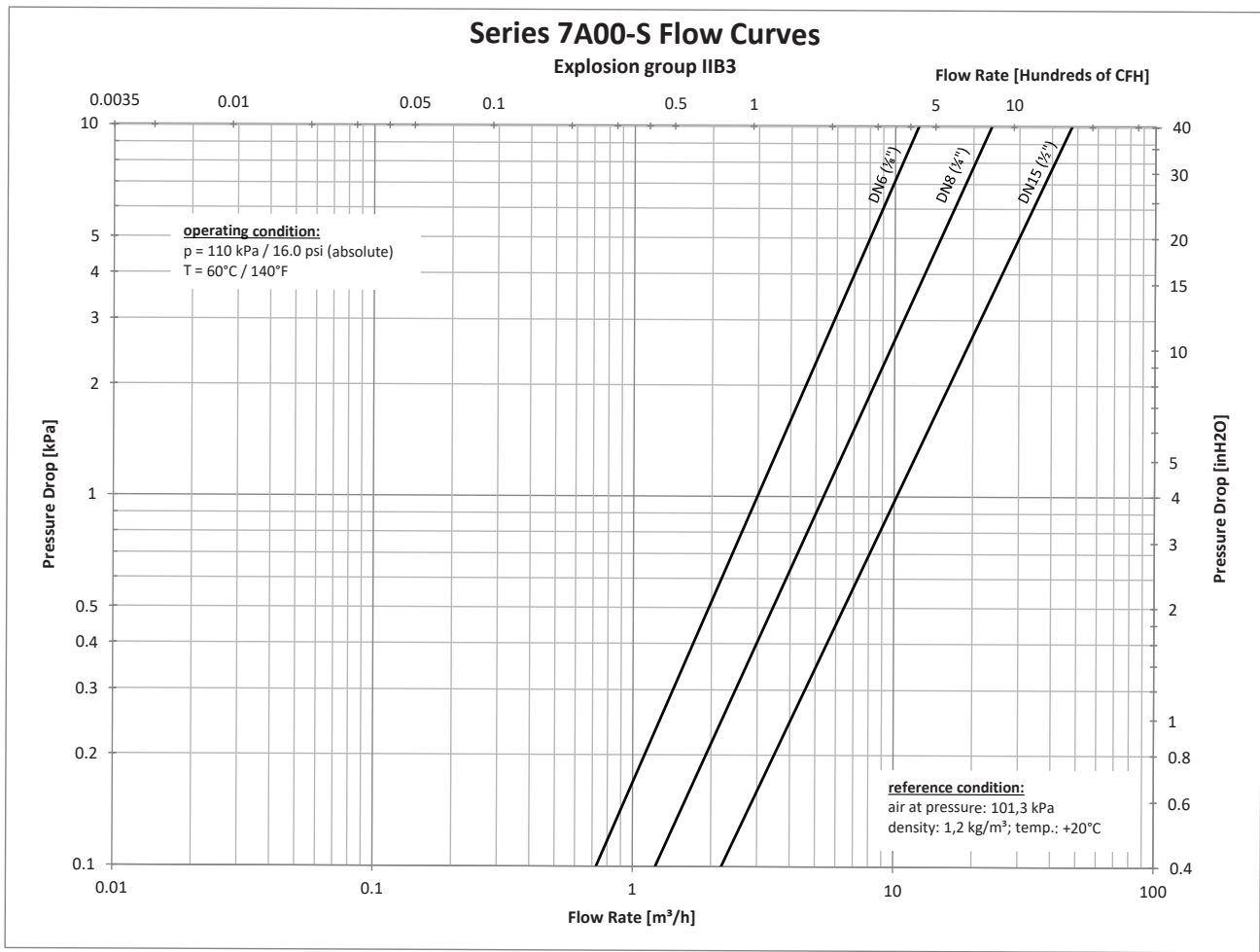
The 7A00-S model has been developed, manufactured, and tested accordance to Directive 2014/34/EU (ATEX114) and EN ISO 16852.

The pipe safety device is bi-directional and can be installed both horizontally and vertically.

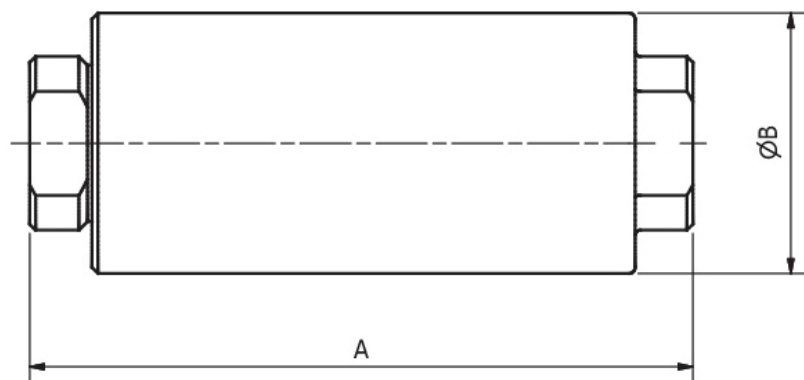
**Easy Maintenance:** The in-line detonation arrestor is a passive protection system without moving parts. The tape lock can easily be removed for inspection or cleaning purposes.

**Connection:** Thread design

**Thread:** 1/8", 1/4", 3/8", 1/2" according to Rp (ISO7-1); BSP (BS21) NPTF (ASME B1.20.1).



## DIMENSIONS & WEIGHTS



Metric Units					
SIZE	A (mm)		Ø B (mm)	Weight (kg)	
	IIB3	IIC		IIB3	IIC
Rp, BSP, NPTF					
DN6 (1/8")	90	115	45	0.6	0.9
DN8 (1/4")	90	115	45	0.6	0.9
DN10 (3/8")	90	115	45	0.6	0.9
DN15 (1/2")	90	115	45	0.6	0.9

English Units					
SIZE	A (in)		Ø B (in)	Weight (lbs)	
	IIB3	IIC		IIB3	IIC
Rp, BSP, NPTF					
DN6 (1/8")	3.5	4.5	1.8	13	20
DN8 (1/4")	3.5	4.5	1.8	13	20
DN10 (3/8")	3.5	4.5	1.8	13	20
DN15 (1/2")	3.5	4.5	1.8	13	20

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# 7A00-S Series PRODUCT CODER

09/14/22

**7** **A**
 POS 3 & 4
 POS 5
 **B** **02**
 POS 9
 POS 10 & 11
 **1** **0**
**00**
 POS 16
 **0** **0**

POSITION 3 & 4 SIZE/EXPLOSION GROUP		
Size metric (in)	IIB3	IIC
	CODE	
DN6 (1/8")	<b>EF</b>	<b>MN</b>
DN8 (1/4")	<b>EG</b>	<b>MP</b>
DN10 (3/8")	<b>EH</b>	<b>MR</b>
DN15 (1/2")	<b>EJ</b>	<b>MS</b>

POSITION 5 OPERATING CONDITION			
Explosion Group	P <sub>max.</sub> absolute in kPa (psi)	T <sub>max.</sub> in °C (°F)	CODE
IIB3	110 (16)	≤ 60 (140)	<b>1</b>
IIC	110 (16)	≤ 150 (302)	<b>H</b>

POSITION 9 GASKET MATERIAL	
Material	CODE
NBR	<b>1</b>
FKM	<b>2</b>
EPDM	<b>3</b>
FKM/FEP seamless covered	<b>4</b>

POSITION 10 & 11 HOUSING MATERIAL / CONNECTION			
Sizes DN6-15 (1/8" - 1/2")	Rp	BSPP	NPT
	CODE		
Stainless Steel (1.4581)	<b>91</b>	<b>92</b>	<b>93</b>

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

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