### **FLASHBACK ARRESTORS 85-10**





# WITT Flashback Arrestors for reliable protection against dangerous reverse gas flow and flashbacks according to DIN EN ISO 5175-1. Every Arrestor 100% tested.

### The best Flashback Arrestors in the world

- a large surface area flame arrestor FA of stainless steel construction extinguishes any dangerous flashback
- a temperature sensitive cut-off valve TV extinguishes sustained flashbacks long before the internal temperature of the arrestors reaches a dangerous level
- a spring loaded non-return valve NV prevents slow or sudden reverse gas flow from forming explosive mixtures in the gas supply
- a filter at the gas inlet protects the arrestor against dirt contamination, extending the service life (only 85-10)

#### **Operation / Usage**

- Flashback Arrestors are used to protect gas cylinders and pipeline outlet points (hoses and any equipment) against dangerous reverse gas flow and flashbacks
- for pipeline outlets and single cylinders with high users for example supply units for gas cutting machines: Model 85-10
- for torches or burners with high flow: Models 85-10NU and 85-10 eccentric = eccentric outlet
- for cutting machines with high flow: Model 85-10U

- WITT Flashback Arrestors may be mounted in any position /orientation
- only one piece of equipment may be connected to a single Flashback Arrestor
- the maximum ambient / working temperature is 70  $^\circ\text{C}$  / 158  $^\circ\text{F}$

#### Maintenance

- annual testing of the non-return valve, body leak tightness and flow capacity is recommended
- WITT is happy to supply special test equipment
- Flashback Arrestors are only to be serviced by the manufacturer; the dirt filter may be replaced according to model by competent staff

#### Approvals

Company certified according to ISO 9001 and PED 2014/68/EU Module H CE-marked according to: - PED 2014/68/EU

- Cleaned for Oxygen Service according to:
- EIGA IGC Doc 13/12/E: Oxygen Pipeline and Piping Systems

	Model				
Safety devices	85-10	85-10NU	85-10U	85-10 eccentric	
Flame arrestor FA	¥	<b>~</b>	<b>~</b>	✓	
Non-return valve NV	✓	✓	✓	✓	
Temperature sensitive cut-off valve TV	~	<b>~</b>	_	✓	
Weight [g]	434	434	434	417	
Certification BAM	BAM/ZBA/003/04	_	_	-	
Material	Housing - Brass; Flame arrestor - Stainless steel; Seal - Elastomer				

## **FLASHBACK ARRESTORS 85-10**



	Model				
	85-10	85-10NU	85-10U	85-10 eccentric	
Gases	max. working pressure [bar]				
Acetylene (A)	1.5	1.5	-	1.5	
Town gas (C)*	5.0	5.0	5.0	5.0	
Natural gas (M)	5.0	5.0	5.0	5.0	
LPG (P)	5.0	5.0	5.0	5.0	
Hydrogen (H)	4.0	4.0	4.0	4.0	
Ethylene (E)*	5.0	5.0	5.0	5.0	
Connections	Order-No.				
G 3/8 LH	143-002	143-039	143-223	143-217	
G 1/2 LH	143-008	143-231	143-040	-	
9/16" - 18 UNF LH	143-009	-	143-245	143-131	
	Model				
	85-10	85-10NU	85-10U	85-10 eccentric	
Gases	max. working pressure [bar]				
Oxygen (O)	25.0	25.0	25.0	25.0	
Compressed air (D)	25.0	25.0	25.0	25.0	
Connections	Order-No.				
G 1/4 RH	143-013	-	-	143-215	
G 3/8 RH	143-016	143-041	143-133	143-216	
G 1/2 RH	143-019	-	143-042	143-152	
9/16" - 18 UNF RH	143-022	_	143-244	143-132	

\* no Certification BAM

85-10 85-10U 85-10NU 85-10 eccentric

Conversion fac	tors:
Acetylene	x 1.04
Butane	x 0.68
Ethylene	x 1.02
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



Other connections available upon request