

**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)

- only one piece of equipment may be connected to a single Flashback Arrestor
- the maximum ambient / working temperature is 60 °C / 140 °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

### 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

### Approvals

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

Designed for Oxygen Service in accordance with EIGA 13/20 and CGA G-4.4: Oxygen Pipeline and Piping Systems

Cleaned for Oxygen Service in accordance with EIGA 33/18 and CGA G-4.1: Cleaning of Equipment for Oxygen Service

Safety devices	Model			
	85-10	85-10NU	85-10U	85-10 eccentric
Flame arrestor [FA]	✓	✓	✓	✓
Non-return valve [NV]	✓	✓	✓	✓
Temperature sensitive cut-off valve [TV]	✓	✓	-	✓
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
<b>Gases</b>	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
<b>Connections</b>	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
<b>Gases</b>	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
<b>Connections</b>	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

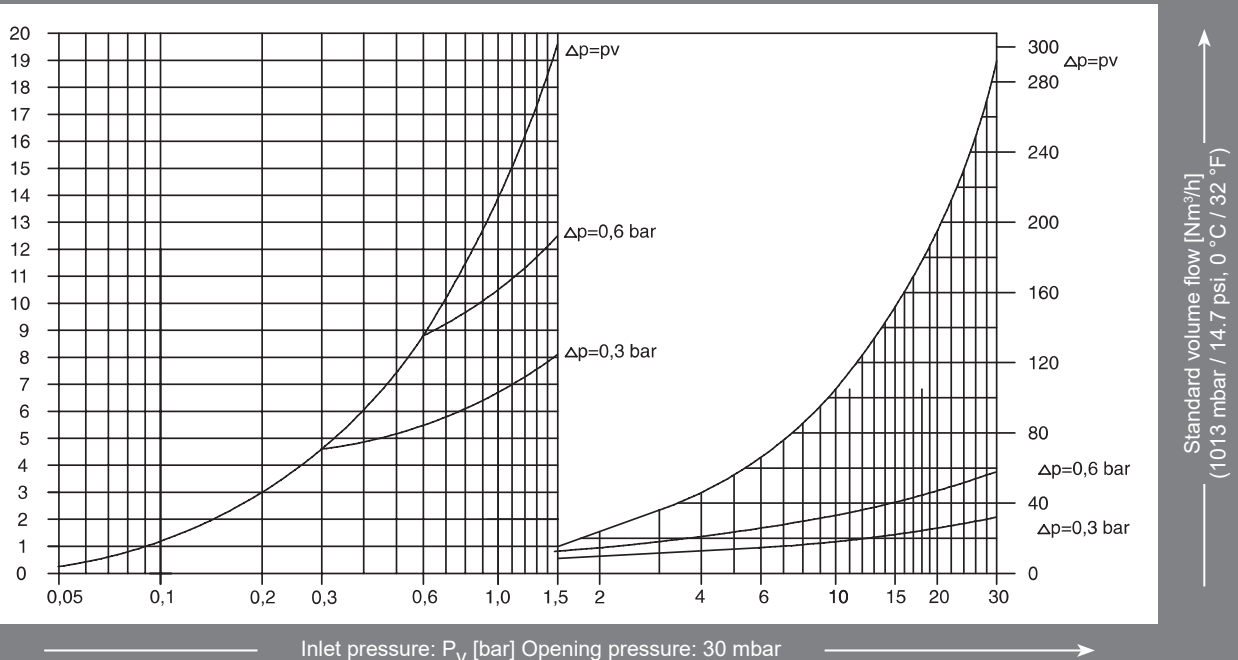
\* no Certification BAM

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

Conversion factors:

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

Flow diagram for air (20 °C / 68 °F)



Other connections available upon request