

**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 °C / 158 °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

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

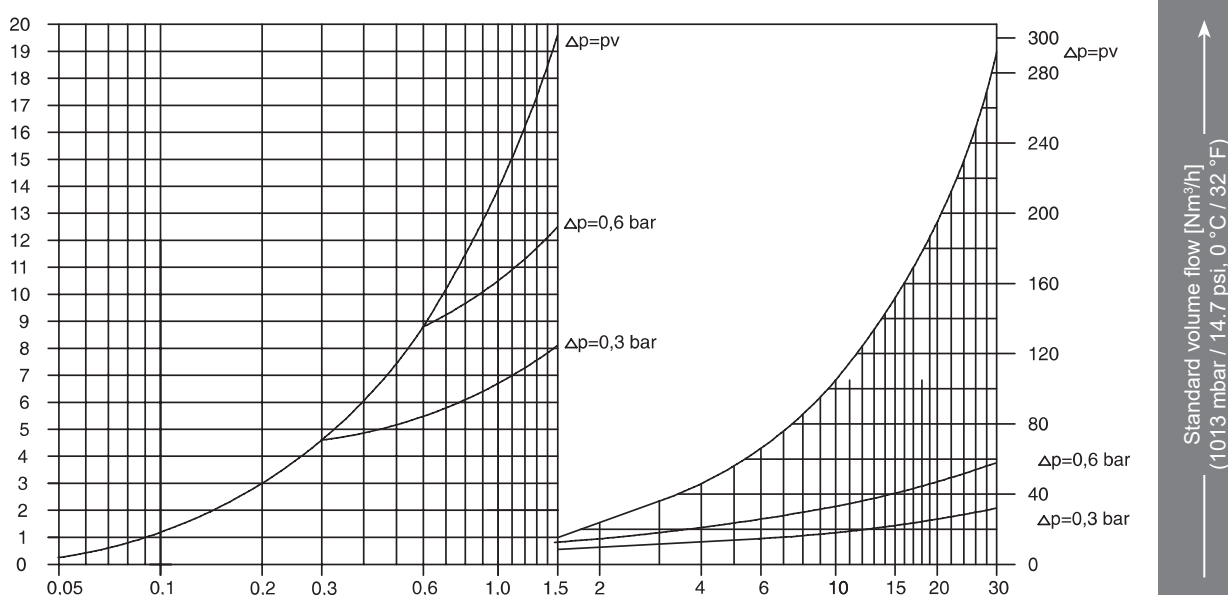
Safety devices	Model			
	85-10	85-10NU	85-10U	85-10 eccentric
Flame arrestor <b>[FA]</b>	✓	✓	✓	✓
Non-return valve <b>[NV]</b>	✓	✓	✓	✓
Temperature sensitive cut-off valve <b>[TV]</b>	✓	✓	–	✓
Weight [g]	434	434	434	417
Material	Housing - Brass; Flame arrestor - Stainless steel; Seal - Elastomer			

	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

**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)



Inlet pressure:  $P_v$  [bar] Opening pressure: 30 mbar

Other connections available upon request