

85-10



85-10U/NU



85-10 ECCENTRIC



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 entering the device in any direction
- 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

Cleaned for Oxygen Service according to:

- EIGA IGC Doc 13/12/E: Oxygen Pipeline and Piping Systems

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

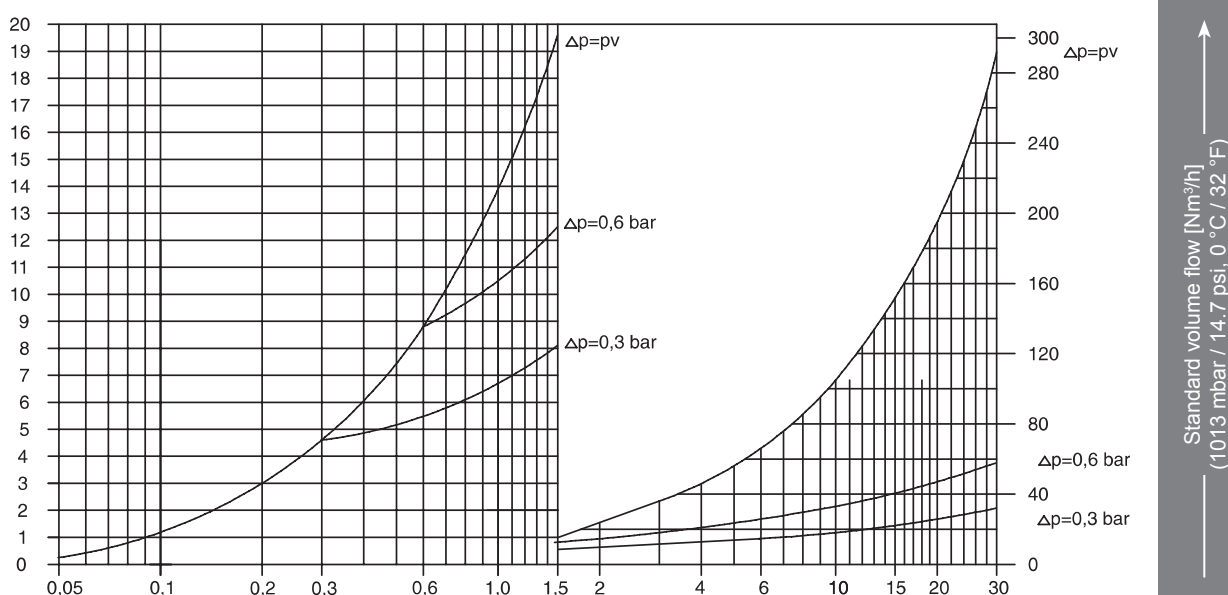
	Model			
	85-10	85-10NU	85-10U	85-10 eccentric
Gases	max. working pressure [bar]			
Acetylene (A)	1.5	1.5	—	1.5
Town gas (C)*	5.0	5.0	5.0	5.0
Natural gas (M)	5.0	5.0	5.0	5.0
LPG (P)	5.0	5.0	5.0	5.0
Hydrogen (H)	4.0	4.0	4.0	4.0
Ethylene (E)*	5.0	5.0	5.0	5.0
Connections	Order-No.			
G 3/8 LH	143-002	143-039	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
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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