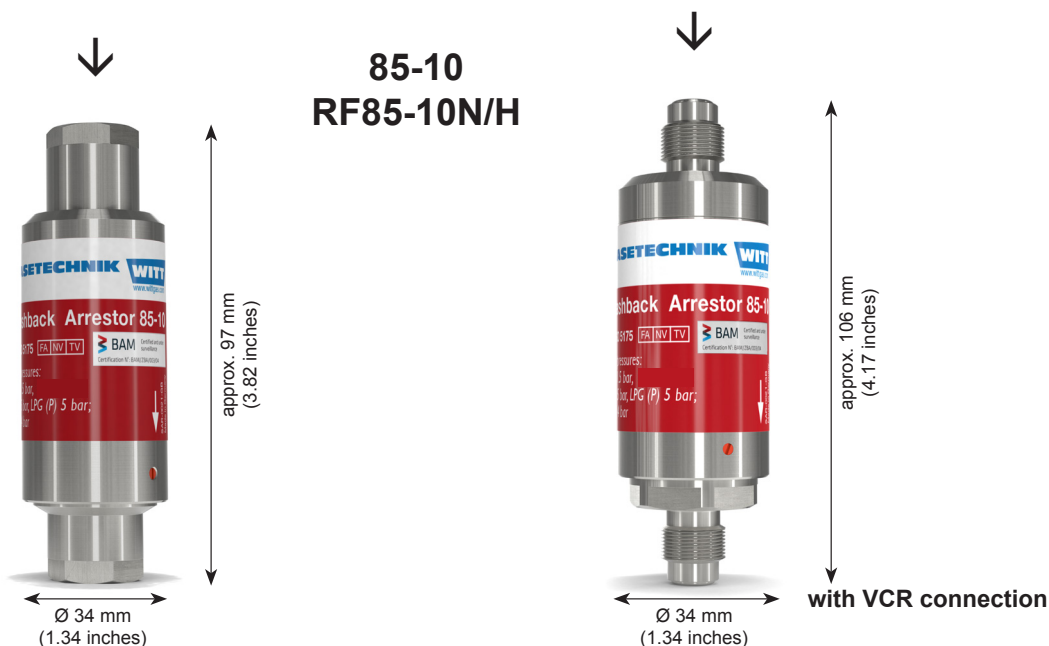


# FLASHBACK ARRESTORS

## stainless steel - ES



**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 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) with high flow against dangerous reverse gas flow (85-10) and flashbacks
- without non-return valve for lower working pressures with low pressure drop i.e. before and after analysers
- ideal for use with corrosive gases in the chemical industry, process technology or in the laboratory area
- WITT Flashback Arrestors may be mounted in any position / orientation
- 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 by competent staff

### Approvals

Company certified according to ISO 9001  
 Cleaned for Oxygen Service according to:  
 - EIGA IGC Doc 13/12/E: Oxygen Pipeline and Piping Systems  
 Other connections available upon request

Safety devices	85-10		RF85-10N/H	
Flame arrestor [FA]	✓	✓	✓	✓
Non-return valve [NV]	✓	–	✓	–
Temperature sensitive cut-off valve [TV]	✓	✓	✓	✓
Weight [g]	385	385	385	385
Certification BAM/ZBA/003/04	✓	–	✓	–
Material	Housing – Stainless steel; Flame arrestor – Stainless steel; Seal – Elastomer			
Gases	max. working pressure [bar]			
Acetylene (A)	1.5	1.5	–	–
Natural gas (M)	5.0	5.0	10.0	10.0
LPG (P)	5.0	5.0	5.0	5.0
Hydrogen (H)	4.0	4.0	10.0	10.0
Ethylene (E)	5.0*	5.0	5.0	5.0
Oxygen (O)	25.0	25.0	–	–
Compressed air (D)	25.0	25.0	–	–
Connections	Order-No.			
1/4" NPT F	143-061	143-149	143-077	143-100
3/8" NPT F	143-119	143-198	143-087	–
9/16"-18UNF VCR	143-163	–	–	–
7/8"-14UNF VCR	143-134	–	143-076	–

\* no Certification BAM

**Note:** The models 85-10 are suitable for fuel gas and oxygen.

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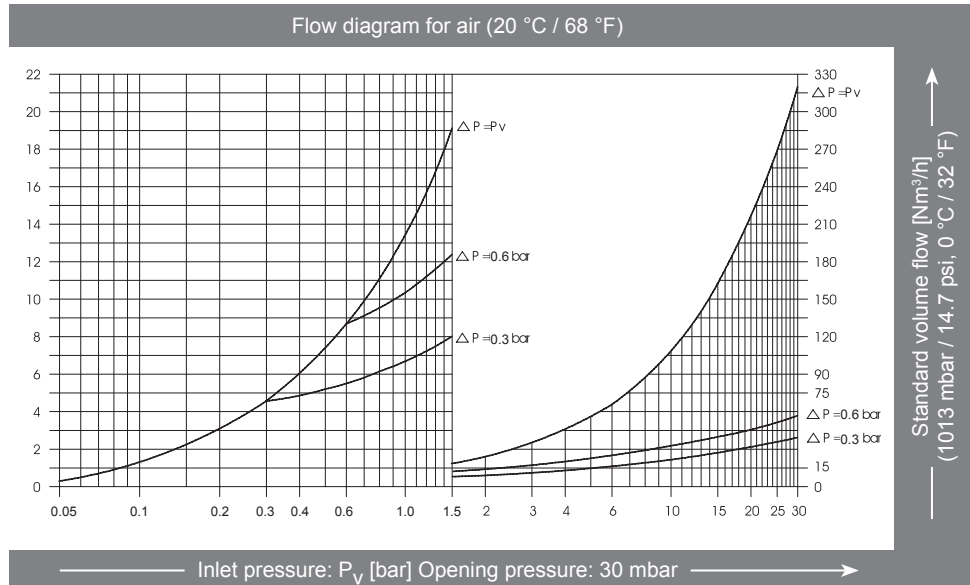


### 85-10

143-031  
143-061  
143-069  
143-101  
143-119  
143-134  
143-163

**Conversion factors:**

Acetylene	x 1.04
Butane	x 0.68
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

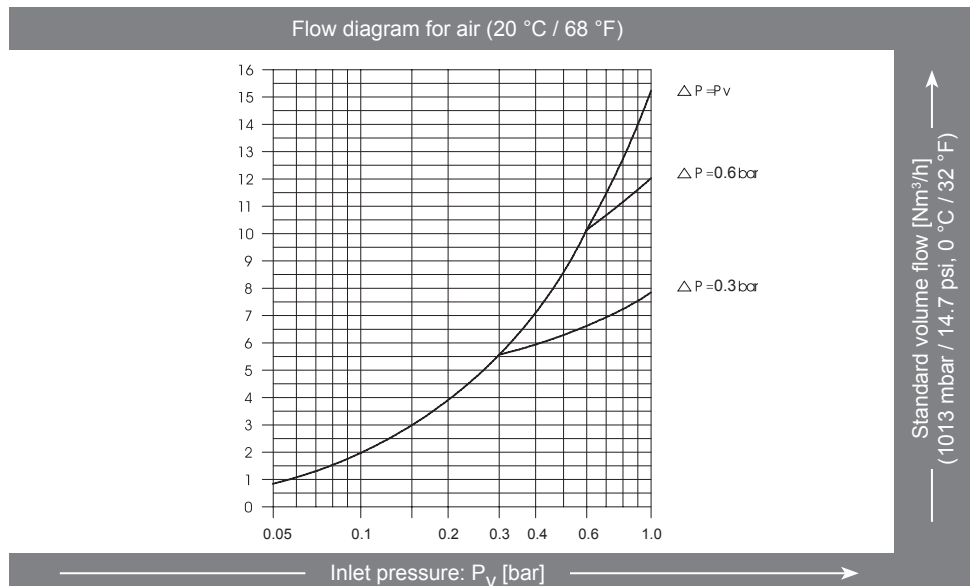


### 85-10 (without NV)

143-028  
143-122  
143-149  
143-198

**Conversion factors:**

Acetylene	x 1.04
Butane	x 0.68
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

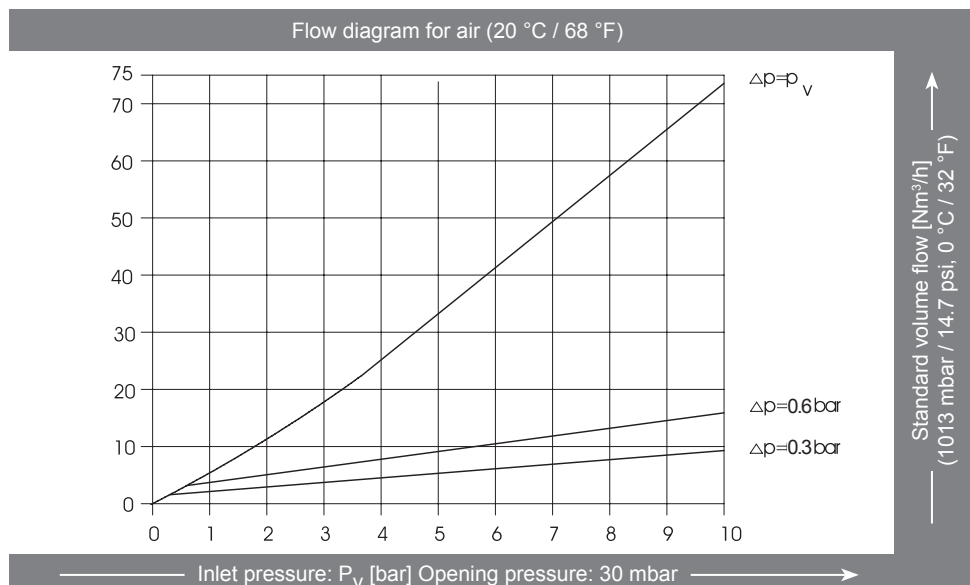


### RF85-10N/H

143-076  
143-077  
143-087

**Conversion factors:**

Acetylene	x 1.04
Butane	x 0.68
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



ST10 - USA G02/E8 subject to change