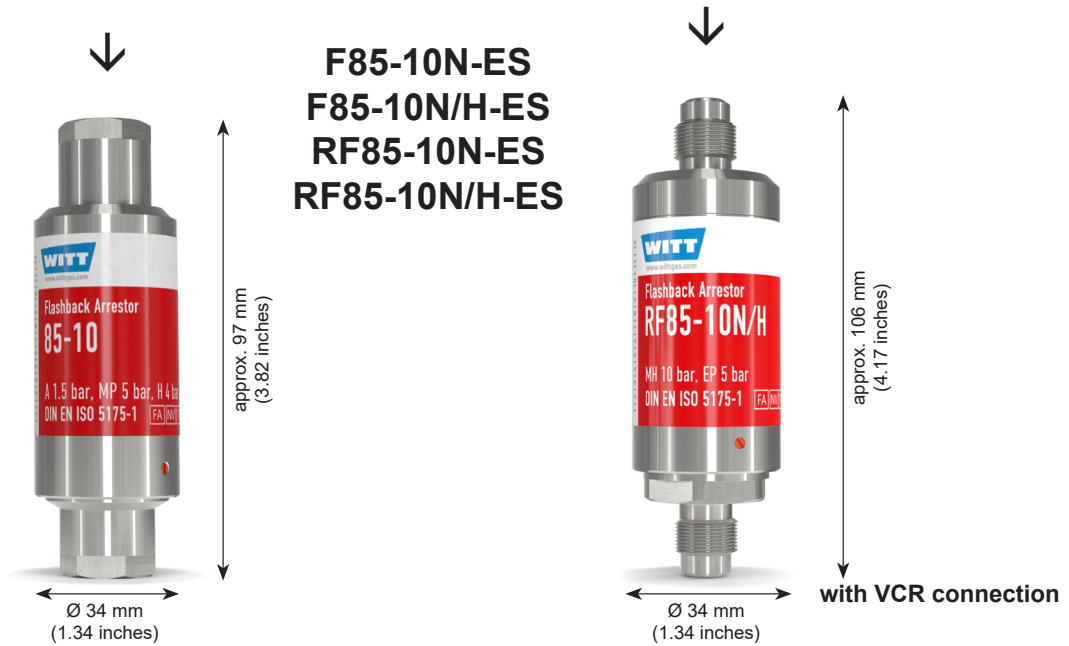


# FLASHBACK ARRESTORS

## 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 arrester [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 F85-10N-ES / RF85-10N-ES)

### 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 (F85-10N-ES / RF85-10N-ES) 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 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 by competent staff

### Approvals

Company certified according to ISO 9001

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

Other connections available upon request

Safety devices	F85-10N-ES		RF85-10N-ES	
	F85-10N/H-ES	RF85-10N/H-ES		
Flame arrester [FA]	✓		✓	
Non-return valve [NV]	-		✓	
Temperature sensitive cut-off valve [TV]	✓		✓	
Weight [g]	385		385	
<b>Gases</b>	<b>max. working pressure [bar]</b>			
Acetylene (A)	1.5	-	1.5	-
Natural gas (M)	5.0	10.0	5.0	10.0
LPG (P)	5.0	5.0	5.0	5.0
Hydrogen (H)	4.0	10.0	4.0	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	-
<b>Connections</b>	<b>Order-No.</b>			
1/4" NPT F	143-149	143-100	143-061	143-077
3/8" NPT F	143-198	-	143-119	143-087
<b>Material</b>	Housing – 1.4305/303/SUS303; Flame arrester – 1.4404/316L/SUS316L; Seal – Elastomer			
9/16"-18UNF VCR	-	-	143-163	-
7/8"-14UNF VCR	-	-	143-134	143-076
<b>Material</b>	Housing – 1.4404/316L/SUS316L; Flame arrester – 1.4404/316L/SUS316L; Seal – Elastomer			

**Note:** The models F85-10N-ES / RF85-10N-ES are suitable for fuel gas and oxygen.

# FLASHBACK ARRESTORS

## stainless steel - ES

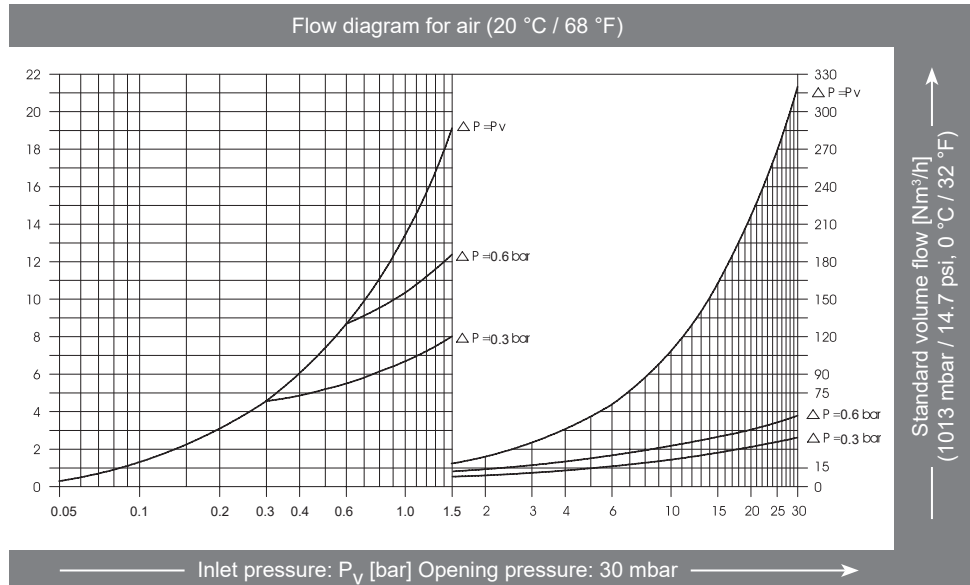


### RF85-10N-ES

143-061  
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

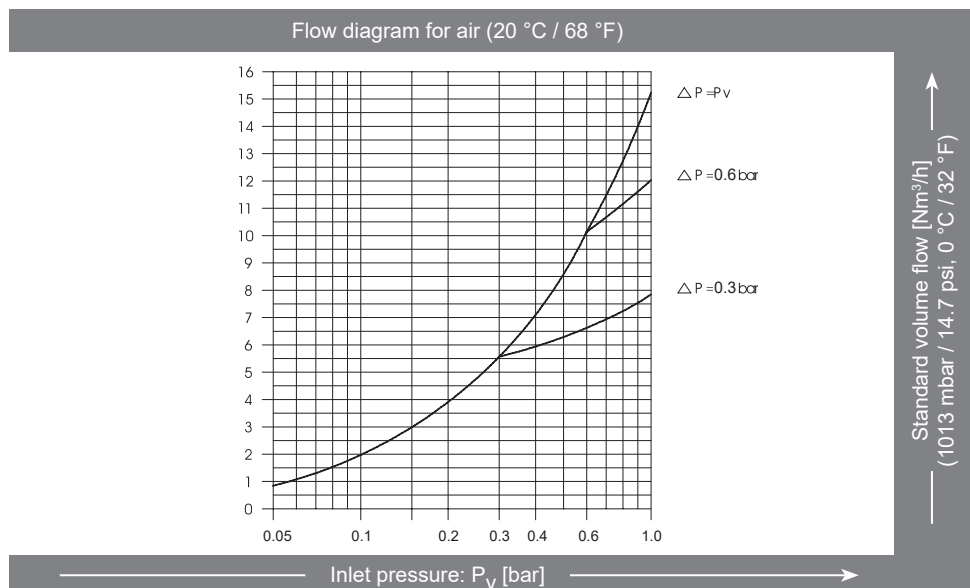


### F85-10N-ES

(without NV)  
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



### F85-10N/H-ES

143-100

### RF85-10N/H-ES

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

