

# FLASHBACK ARRESTORS

## stainless steel - ES



### RF85-20N-ES



### 85-30-ES RF85-30N/H-ES



**WITT Flashback Arrestors for reliable protection against dangerous reverse gas flow and flashbacks according to DIN EN ISO 5175-1. Every Arrester 100% tested.**

#### Benefits

- 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 arrester 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 arrester against dirt contamination, extending the service life

#### 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
- ideal for use with corrosive gases in the chemical industry, process technology or in the laboratory area
- for pipeline outlets and single cylinders with high users for example supply units for gas cutting machines
- WITT Flashback Arrestors may be mounted in any position/orientation
- only one piece of equipment may be connected to a single Flashback Arrester
- the maximum ambient/working temperature is 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  
 CE-marked according to:  
 - PED 2014/68/EU  
 Other connections available upon request

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 ...-ES			
	RF85-20 N	85-30	RF85-30 N/H	
Flame arrester [FA]	✓	✓	✓	✓
Non-return valve [NV]	✓	✓	✓	✓
Temperature sensitive cut-off valve [TV]	✓	✓	✓	✓
Weight [oz]	56	157	153	
Material	Housing – Stainless steel; Flame arrester – Stainless steel; Seal – Elastomer			
Gases	max. working pressure [PSI]			
Acetylene (A)	29	–	22	–
Natural gas (M)	58	73	–	116
LPG (P)	58	51	–	73
Hydrogen (H)	58	58	–	160
Ethylene (E)	58	58	–	–
Oxygen (O)	232	363	–	–
Compressed air (D)	232	363	–	–
Connections	Part No.			
1/2" NPT F	149-009	147-130	147-131	147-107
3/4" NPT F	149-031	147-071	147-122	147-039
1" NPT F	149-029	147-092	147-125	147-047

**Note:** The models RF85-20N-ES and 85-30-ES are suitable for fuel gas and oxygen.

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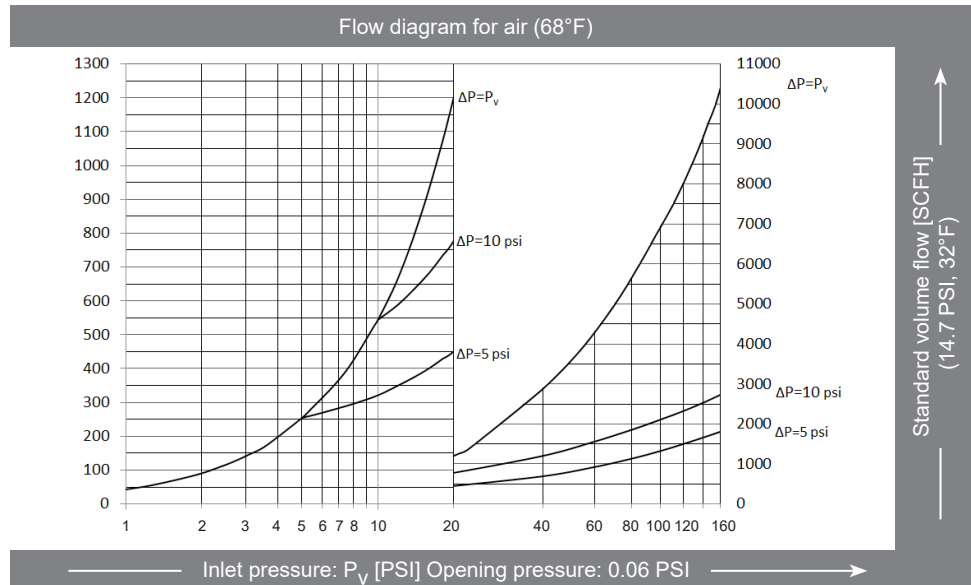


### RF85-20N-ES

149-009  
149-029  
149-031

Conversion factors:

Acetylene	x 1.04
Butane	x 0.68
Natural Gas	x 1.25
Methane	x 1.33
LP (Propane)	x 0.80
Oxygen	x 0.95
Hydrogen	x 3.75

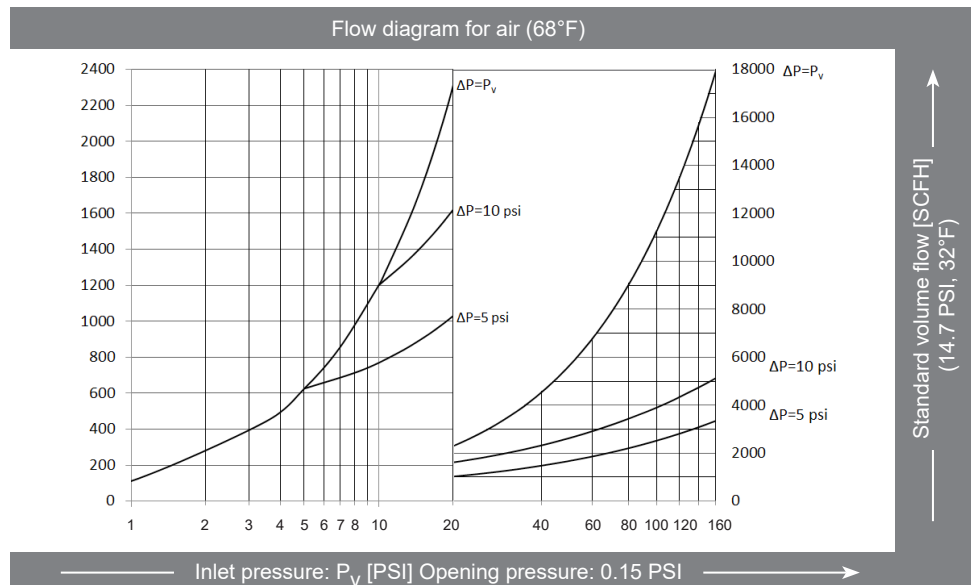


### 85-30-ES

147-071  
147-092  
147-130

Conversion factors:

Acetylene	x 1.04
Butane	x 0.68
Natural Gas	x 1.25
Methane	x 1.33
LP (Propane)	x 0.80
Oxygen	x 0.95
Hydrogen	x 3.75



### RF85-30N/H-ES

147-039  
147-047  
147-107

Conversion factors:

Acetylene	x 1.04
Butane	x 0.68
Natural Gas	x 1.25
Methane	x 1.33
LP (Propane)	x 0.80
Oxygen	x 0.95
Hydrogen	x 3.75

