

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 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 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 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
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 [g]	1 584	4 455	4 344	
Material	Housing – Stainless steel; Flame arrester – Stainless steel; Seal – Elastomer			
Gases	max. working pressure [bar]			
Acetylene (A)	2.0	–	1.5	–
Natural gas (M)	4.0	5.0	–	8.0
LPG (P)	4.0	3.5	–	5.0
Hydrogen (H)	4.0	4.0	–	11.0
Ethylene (E)	4.0	4.0	–	–
Oxygen (O)	16.0	25.0	–	–
Compressed air (D)	16.0	25.0	–	–
Connections	Order-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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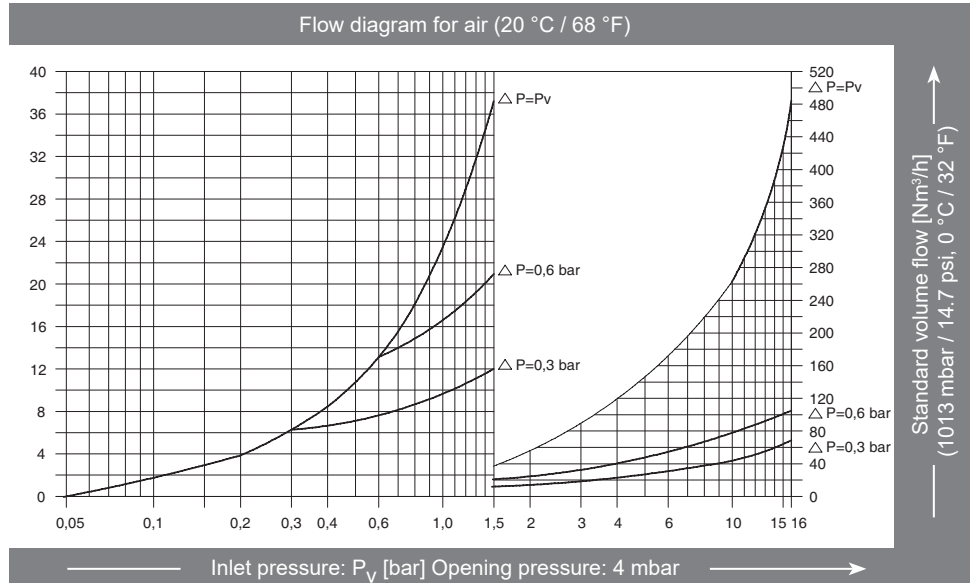


RF85-20N-ES

149-009
149-029
149-031

Conversion factors:

Acetylene	x 1.04
Butane	x 0.68
Natural Gas	x 1.25
Ethylene	x 1.02
Methane	x 1.33
Propane	x 0.80
Oxygen	x 0.95
Town gas	x 1.54
Hydrogen	x 3.75

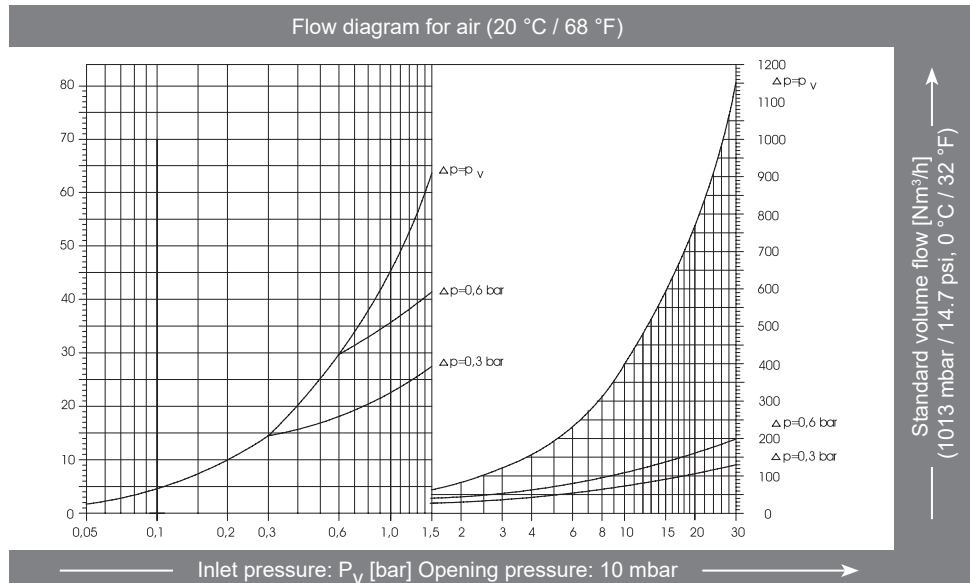


85-30-ES

147-071
147-092
147-130

Conversion factors:

Acetylene	x 1.04
Butane	x 0.68
Natural Gas	x 1.25
Ethylene	x 1.02
Methane	x 1.33
Propane	x 0.80
Oxygen	x 0.95
Town gas	x 1.54
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
Propane	x 0.80
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