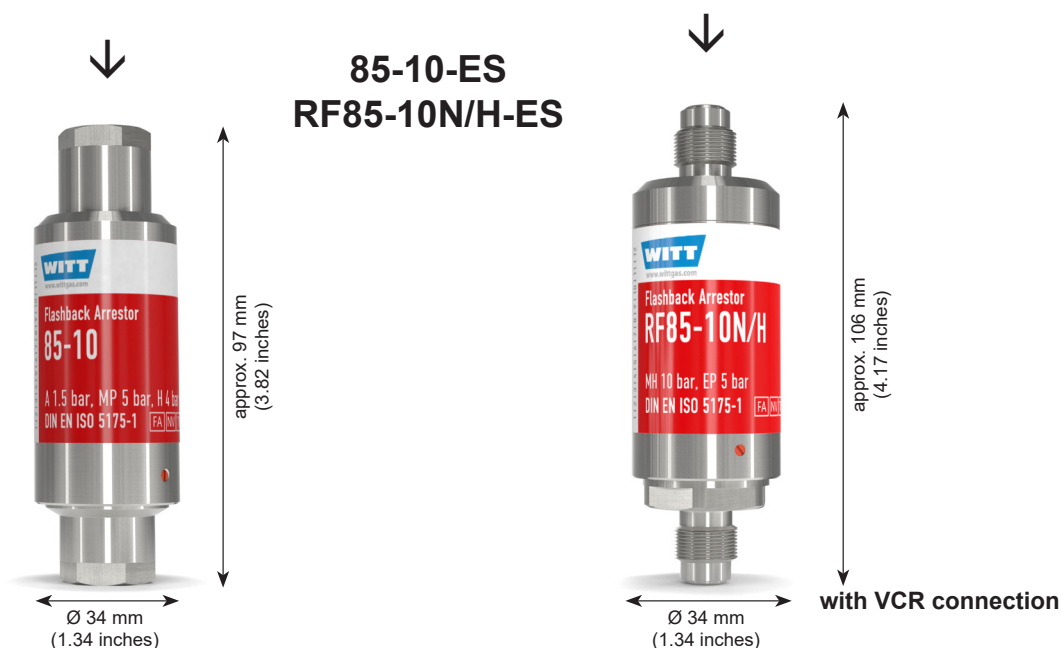


FLASHBACK ARRESTORS

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 85-10-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 (85-10-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 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

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	85-10-ES		RF85-10N/H-ES	
Flame arrester [FA]	✓	✓	✓	✓
Non-return valve [NV]	✓	–	✓	–
Temperature sensitive cut-off valve [TV]	✓	✓	✓	✓
Weight [g]	385	385	385	385
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	–
Material	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	–
Material	Housing – 1.4404/316L/SUS316L; Flame arrester – 1.4404/316L/SUS316L; Seal – Elastomer			

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

FLASHBACK ARRESTORS

stainless steel - ES

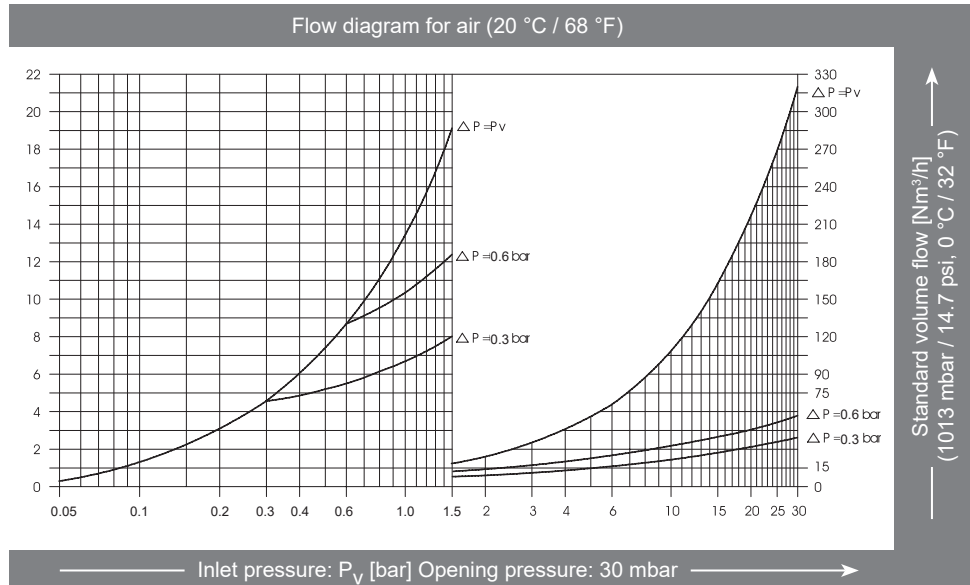


85-10-ES

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

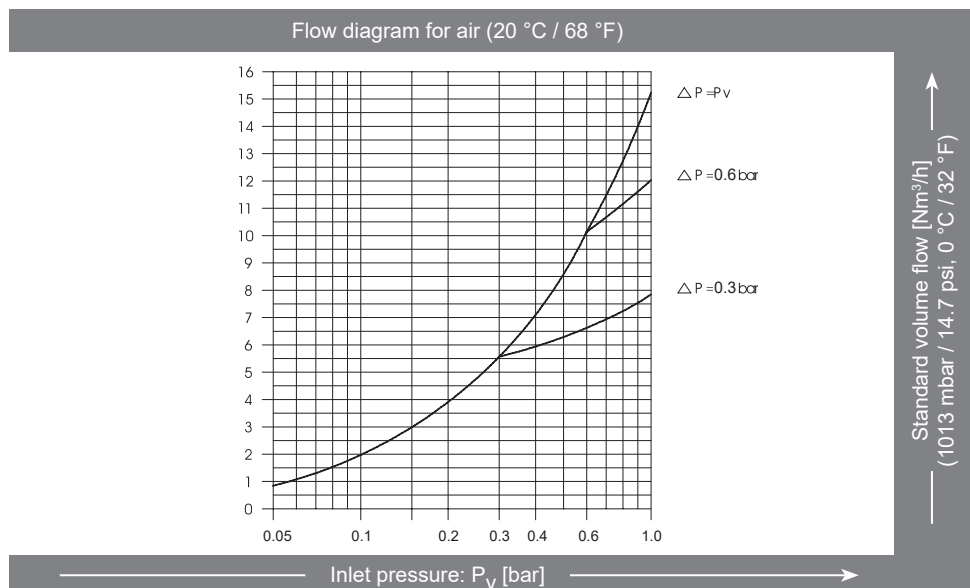


85-10-ES (without NV)

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

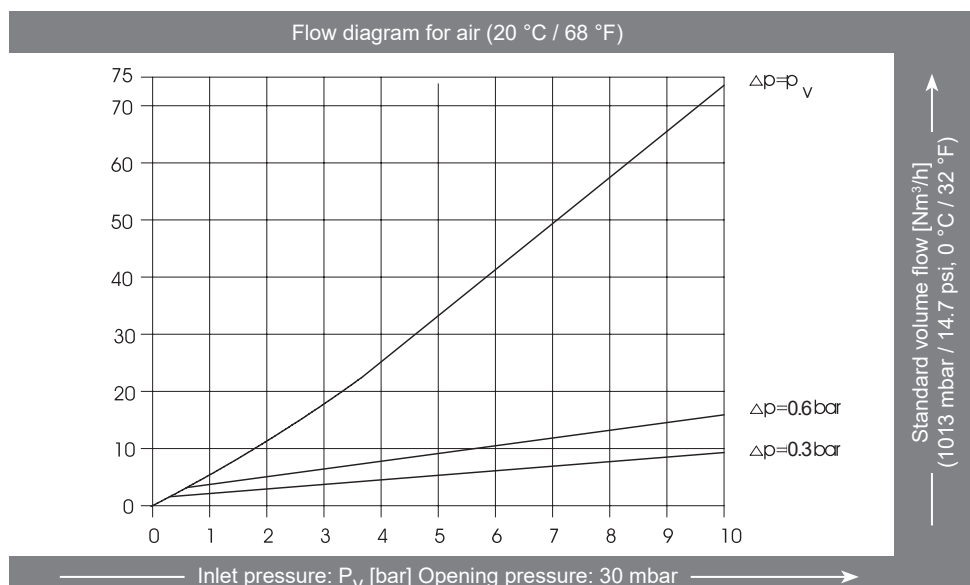


RF85-10N/H-ES

143-076
143-077
143-087
143-100

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 L01/1C subject to change