

FLASHBACK ARRESTORS

stainless steel

F53N-ES
F53N/H-ES
RF53N-ES
RF53N/H-ES



WITT Flashback Arrestors for reliable protection against dangerous reverse gas flow and flashbacks according to EN 730-1 / ISO 5175. Every Arrester 100% tested.



The best Flashback Arrestors in the world

Benefits

- a large surface area flame arrester **FA** of stainless steel construction extinguishes any dangerous flashback entering the device in any direction
- 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 (RF53N-ES)

Operation / Usage

- Flashback Arrestors are used to protect gas cylinders and pipeline outlet points (hoses and any equipment) against dangerous reverse gas flow (RF53N-ES) and flashbacks
- without non-return valve (F53N-ES) for lower working pressures 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
 Other connections available upon request

Safety device	Model ...-ES			
	F53N*	F53N/H*	RF53N	RF53N/H
Flame arrester FA	X			X
Non-return valve NV	–			X
Temperature sensitive cut-off valve TV	X			X
Weight [g]	181		195	
Certification BAM	BAM/ZBA/003/04			
Material	Housing – Stainless steel; Flame arrester – Stainless steel; Seal – Elastomer			
Gases	max. working pressure [bar]			
Acetylene (A)	1,5	–	1,5	–
Natural gas (M)	5,0	12,0	5,0	12,0*
LPG (P)	5,0	8,0	5,0	8,0
Hydrogen (H)	3,0	10,0	3,0	9,0
Ethylene (E)	–	9,0	–	5,0
Oxygen (O)	30,0	–	30,0	–
Compressed air (D)	30,0	–	30,0	–
Connections	Order-No.			
1/4" NPT F	145-227	145-106	145-262	145-107
3/8" NPT F	–	–	145-024	145-121

* no Certification BAM

Note: The Models RF53N and F53N are suitable for fuel gas and oxygen.

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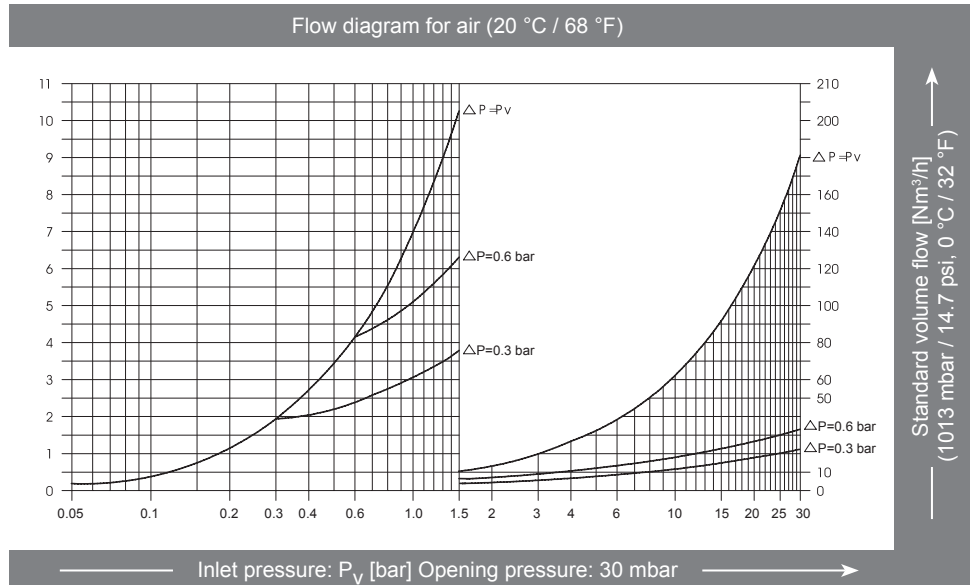


RF53N-ES

145-001
145-031
145-116
145-024

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

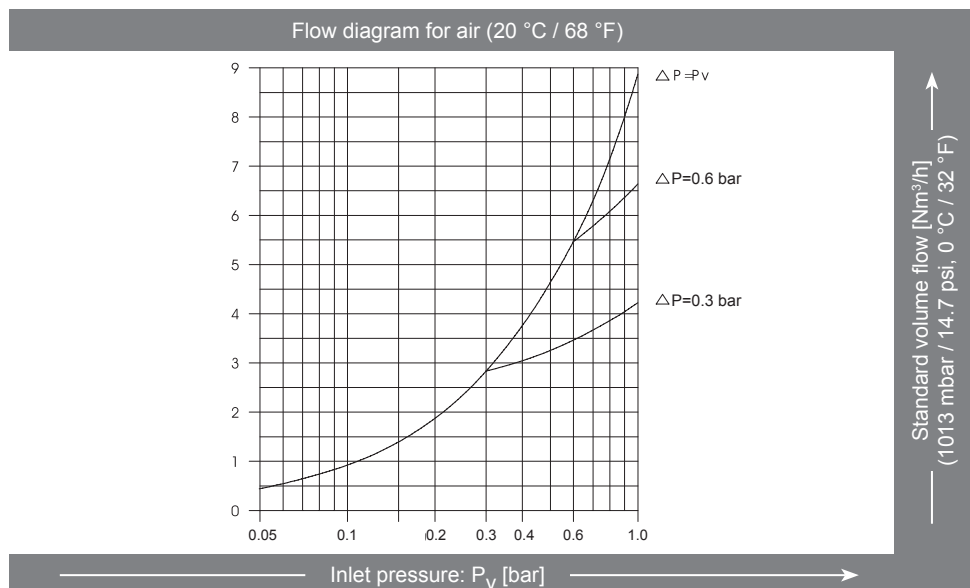


F53N-ES

145-059
145-157

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



RF53N/H-ES

145-107
145-121

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

