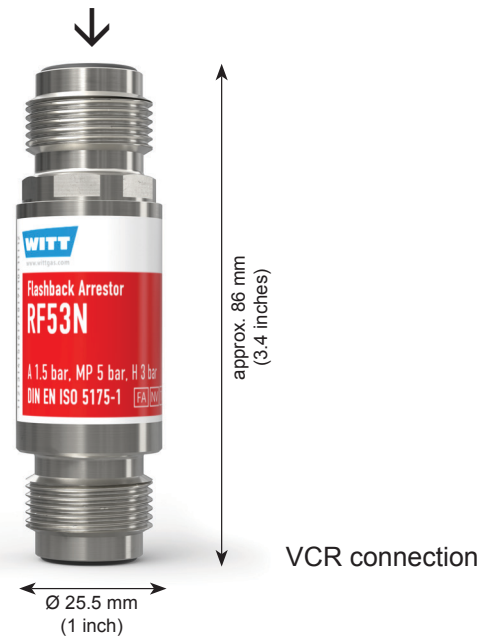


# FLASHBACK ARRESTORS

## 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 DIN EN ISO 5175-1. Every Arrestor 100% tested.**



The best Flashback Arrestors in the world

### Benefits

- a large surface area flame arrestor [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 (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  
 Cleaned for Oxygen Service according to:  
 - EIGA IGC Doc 13/12/E: Oxygen Pipeline and Piping Systems  
 Other connections available upon request

Safety device	Model ...-ES			
	F53N*	F53N/H*	RF53N	RF53N/H
Flame arrestor [FA]	✓		✓	
Non-return valve [NV]	–		✓	
Temperature sensitive cut-off valve [TV]	✓		✓	
Weight [g]	181		195	
Certification BAM	BAM/ZBA/003/04			
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	10.0*
Ethylene (E)	–	9.0	–	9.0*
Oxygen (O)	25.0	–	25.0	–
Compressed air (D)	25.0	–	25.0	–
Connections	Order-No.			
1/4" NPT F	145-227	145-106	145-262	145-107
3/8" NPT F	–	–	145-024	145-121
Material	Housing – 1.4305/303/SUS303; Flame arrestor – 1.4404/316L/SUS316L; Seal – Elastomer			
7/8"-14UNF VCR	–	–	145-142	–
Material	Housing – 1.4404/316L/SUS316L; Flame arrestor – 1.4404/316L/SUS316L; Seal – Elastomer			

\* no Certification BAM

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

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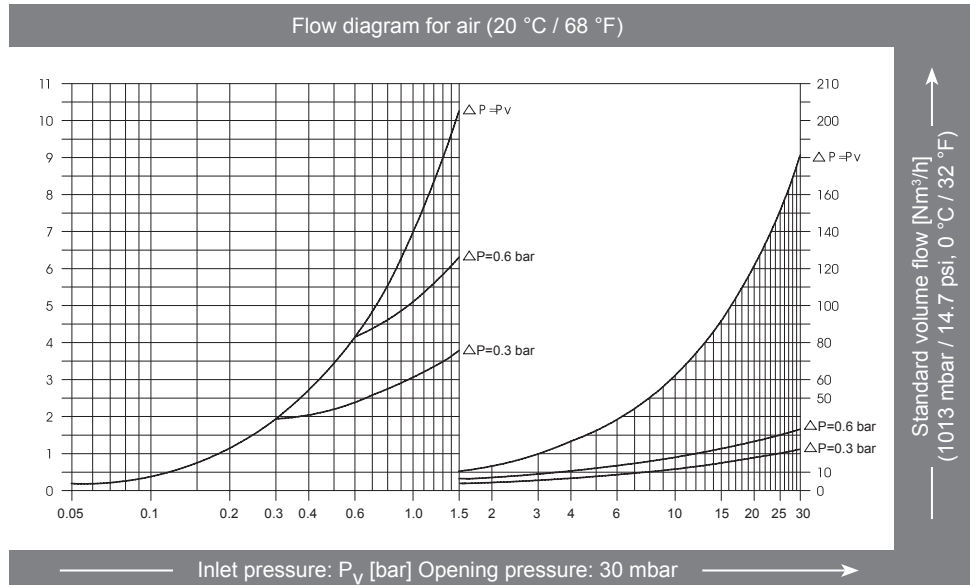


### RF53N-ES

145-262  
145-024  
145-142

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

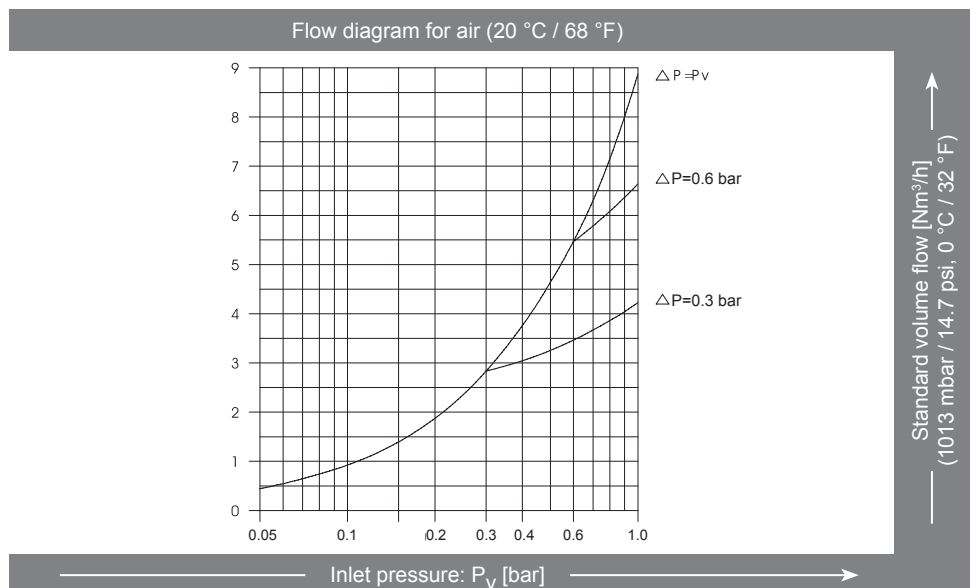


### F53N-ES

145-227

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

