FLASHBACK ARRESTORS
stainless steel - ES

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

VCR connection

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 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
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

	Model ...-ES			
Safety device	**F53N**	**F53N/H**	**RF53N**	**RF53N/H**
Flame arrestor FA	✔		✔	
Non-return valve NV	–		✔	
Temperature sensitive cut-off valve TV	✔		✔	
Weight [oz]	6.38		6.88	
Gases	max. working pressure [PSI]			
Acetylene (A)	22	–	22	–
Natural gas (M)	73	174	73	174
LPG (P)	73	116	73	116
Hydrogen (H)	44	145	44	145
Ethylene (E)	–	131	–	131
Oxygen (O)	363	–	363	–
Compressed air (D)	363	–	363	–
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			

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

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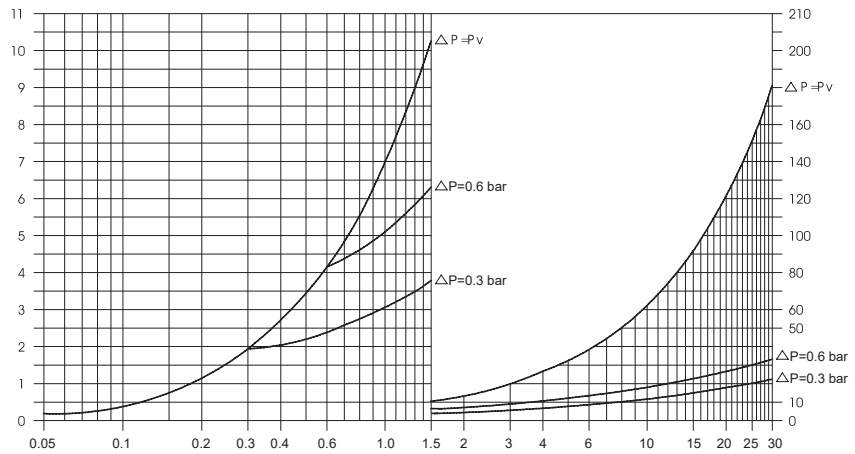
RF53N-ES
145-262
145-024
145-142

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

Flow diagram for air (68°F)

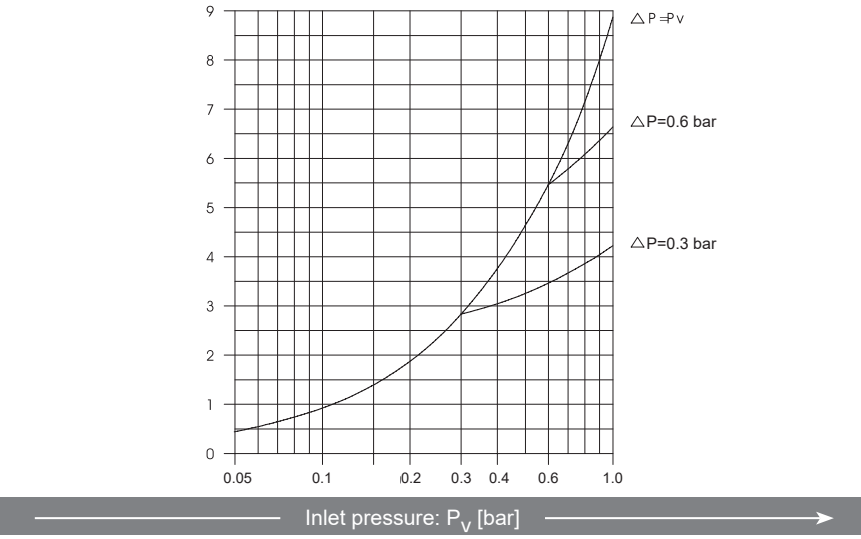


F53N-ES
145-227

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

Flow diagram for air (68°F)

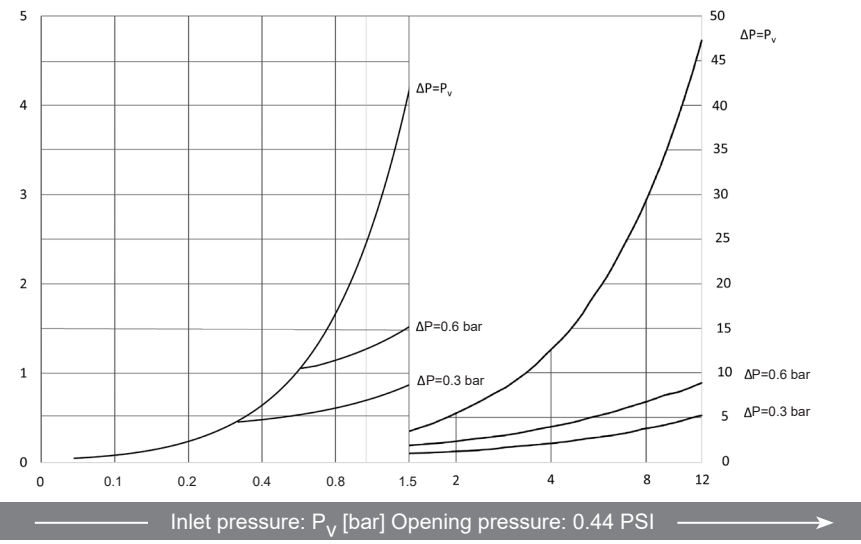


RF53N/H-ES
145-107
145-121

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

Flow diagram for air (68°F)



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