FLASHBACK ARRESTOR RF53

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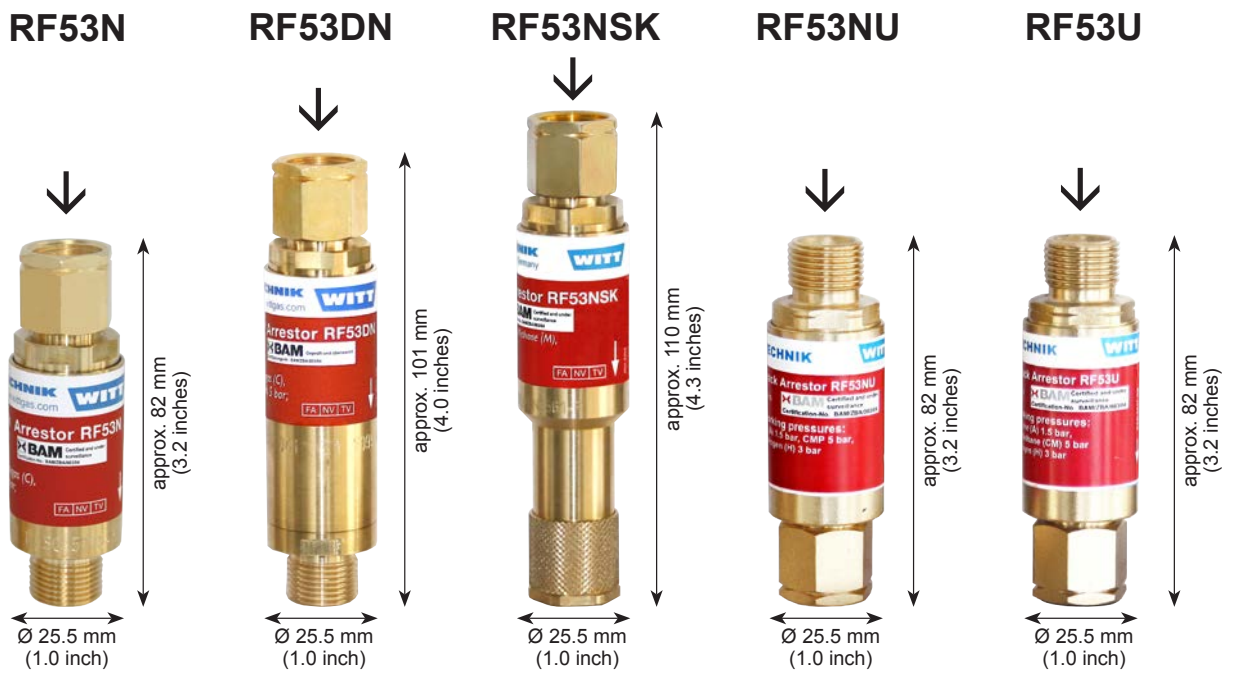

WITT RF Flashback Arrestors for reliable protection against dangerous reverse gas flow and flashbacks according to EN 730-1, ISO 5175, UL 1357/1358.
Every Arrestor 100% tested.

UL LISTED

BAM Certified and under surveillance
Certification N°: BAM/ZBA/003/04

The best Flashback Arrestors in the world

- a large surface area flame arrestor 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 arrestor reaches a dangerous level
- a spring loaded non-return valve NV prevents slow or sudden reverse gas flow from forming explosive mixtures in the gas supply
- a filter at the gas inlet protects the arrestor against dirt contamination, extending the service life
- a pressure relief valve RV vents excessive pressure and soot into the atmosphere, protecting the hose from bursting and the flame arrestor from clogging up, thus maintaining the flow rate (Model RF53DN only)

Operation / Usage

- RF Flashback Arrestors are used to protect gas cylinders and pipeline outlet points (hoses and any equipment) against dangerous reverse gas flow and flashbacks
- for pipeline outlets and single cylinders: Models RF53N, RF53DN and RF53NSK
- for torches or burners with high flow: Model RF53NU
- for cutting machines with high flow: Model RF53U
- WITT Flashback Arrestors may be mounted in any position/orientation
- only one piece of equipment may be connected to a single Flashback Arrestor
- the maximum ambient/working temperature is 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

	Model				
Safety devices	**RF53N**	**RF53DN**	**RF53NSK**	**RF53NU**	**RF53U**
Flame arrestor FA	X	X	X	X	X
Non-return valve NV	X	X	X	X	X
Temperature sensitive cut-off valve TV	X	X	X	X	–
Pressure relief valve RV	–	X	–	–	–
Weight [oz]	6.74	9.17	8.75	6.74	6.74
UL listed / BAM certified	UL 20110503-MH10017; BAM/ZBA/003/04				
Material	Brass (housing); Stainless steel (flame arrestor); Elastomer (seal)				

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	Model									
	RF53N		RF53DN		RF53NSK		RF53NU		RF53U	
	max. working pressure [PSI]									
Gases	UL	BAM	UL	BAM	UL	BAM	UL	BAM	UL	BAM
Acetylene (A)	15	21	15	21	15	21	15	21	15	21
Natural gas (M)	50	72	50	72	50	72	50	72	50	72
LP (Propane)	50	72	50	43	50	72	50	72	50	72
Hydrogen (H)	50	43	50	43	50	43	50	43	50	43
Connections	Part No.									
1/4" NPT F	145-197F-UL		–		–		–		–	
3/8" NPT F	145-205F-UL		–		–		–		–	
9/16"-18 UNF LH (B-size)	145-025-UL		145-044-UL		145SK-004-UL		145-236-UL		145-145-UL	

	Model									
	RF53N		RF53DN		RF53NSK		RF53NU		RF53U	
	max. working pressure [PSI]									
Gases	UL	BAM	UL	BAM	UL	BAM	UL	BAM	UL	BAM
Oxygen (O)	150	435	150	145	150	290	150	435	150	435
Connections	Part No.									
1/4" NPT F	145-197O-UL		–		–		–		–	
3/8" NPT F	145-205O-UL		–		–		–		–	
9/16"-18 UNF RH (B-size)	145-017-UL		145-051-UL		145SK-003-UL		145-235-UL		145-144-UL	

*RF53NSK with coupling body according to ISO 7289 – for coupling probes SK100
Other connections available upon request

Conversion factors:

Acetylene	x 1.04
Butane	x 0.68
Natural Gas	x 1.25
Methane	x 1.33
LP (Propane)	x 0.80
Oxygen	x 0.95
Hydrogen	x 3.75

RF53N
RF53NU
RF53U

Flow diagram for air (68°F)