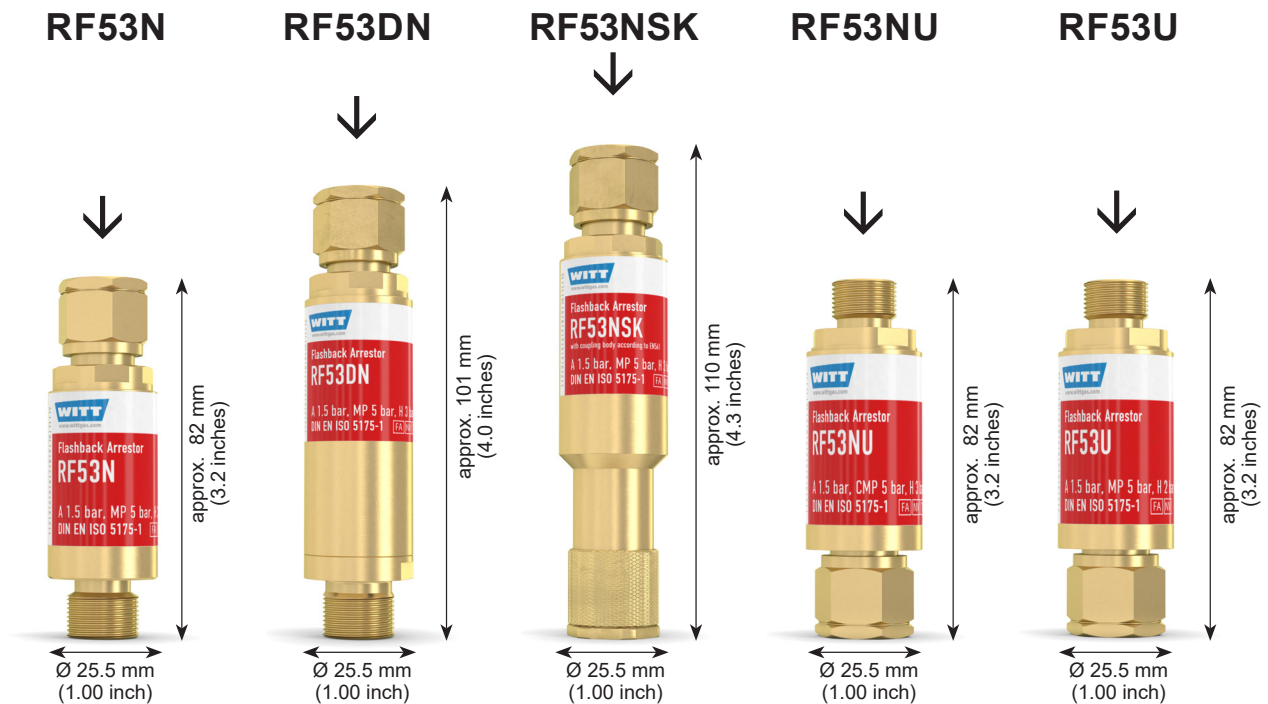


# FLASHBACK ARRESTOR RF53



**WITT RF 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 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 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 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  
 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

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

ST2 USA - M01/0J subject to change

# FLASHBACK ARRESTOR RF53



	Model				
	RF53N	RF53DN	RF53NSK	RF53NU*	RF53U*
<b>Gases</b>	max. working pressure [PSI]				
Acetylene (A)	21	21	21	21	21
Natural gas (M)**	72	72	72	72	72
LP (Propane)**	72	43	72	72	72
Hydrogen (H)	43	43	43	43	29
<b>Connections</b>	Part No.				
1/4" NPT F	145-197	–	–	–	–
3/8" NPT F	145-205	–	–	–	–
9/16"-18 UNF LH (B-size)	145-025	145-044	145SK-004	145-236	145-145

	Model				
	RF53N	RF53DN	RF53NSK	RF53NU*	RF53U*
<b>Gases</b>	max. working pressure [PSI]				
Oxygen (O)	363	145	290	363	363
<b>Connections</b>	Part No.				
1/4" NPT F	145-197	–	–	–	–
3/8" NPT F	145-205	–	–	–	–
9/16"-18 UNF RH (B-size)	145-017	145-051	145SK-003	145-235	145-144

\* no Certification BAM

\*\*\*RF53NSK with coupling body according to EN 561  
– for coupling probes SK100

\*\* LPG „based on test with Propan“

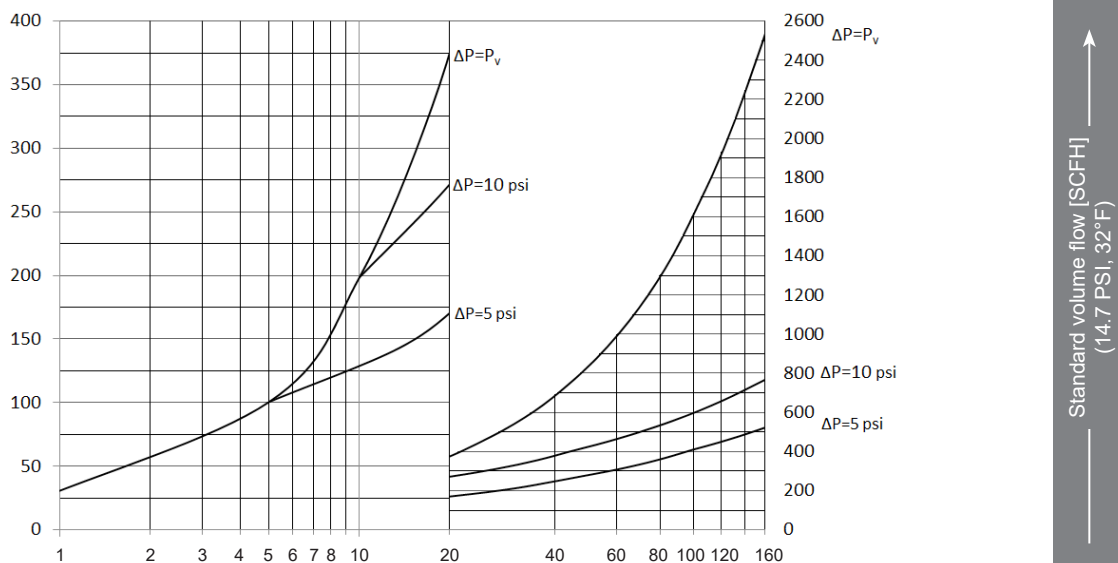
Natural gas „based on test with Methane“

## RF53N RF53NU RF53U

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

Flow diagram for air (68°F)



Inlet pressure:  $P_v$  [PSI]; Opening pressure: 0.4 PSI