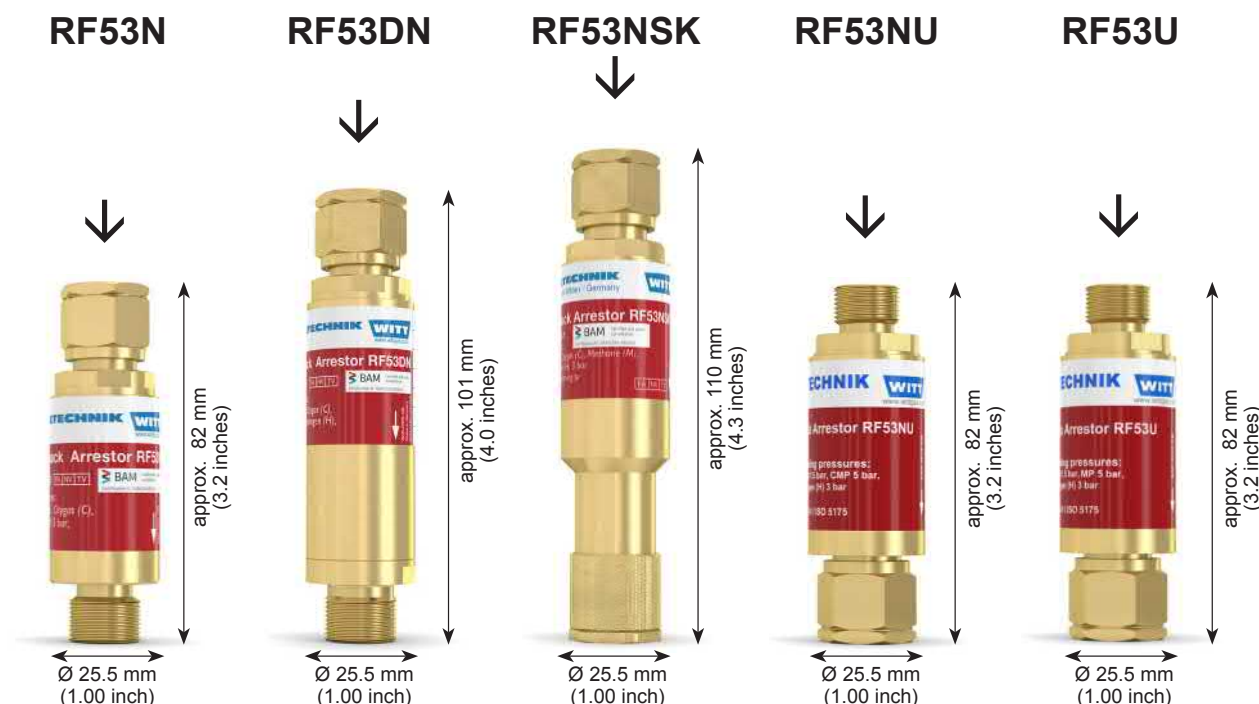




WITT RF Flashback Arrestors for reliable protection against dangerous reverse gas flow and flashbacks according to DIN EN ISO 5175-1.

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 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 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 (only RF53DN)

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 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

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 [g]	191	260	248	191	191
Certification BAM	BAM/ZBA/003/04			—	—
Material	Housing – Brass; Flame arrestor – Stainless steel; Seal - Elastomer				

	Model				
	RF53N	RF53DN	RF53NSK	RF53NU*	RF53U*
Gases	max. working pressure [bar]				
Acetylene (A)	1.5	1.5	1.5	1.5	1.5
Town gas (C)*	5.0	5.0	5.0	5.0	5.0
Natural gas (M)	5.0	5.0	5.0	5.0	5.0
LPG (P)	5.0	3.0	5.0	5.0	5.0
Hydrogen (H)	3.0	3.0	3.0	3.0	3.0
Connections	Order-No.				
G 1/4 LH	145-009	—	—	—	—
G 3/8 LH	145-012	145-041	145SK-002	145-034	145-003
G 1/2 LH	145-016	145-043	—	145-035	—

	Model				
	RF53N	RF53DN	RF53NSK	RF53NU*	RF53U*
Gases	max. working pressure [bar]				
Oxygen (O)	25.0	10.0	20.0	25.0	25.0
Compressed air (D)	25.0	10.0	20.0	25.0	25.0
Connections	Order-No.				
G 1/4 RH	145-021	145-048	145SK-008**	145-036	145-004
G 3/8 RH	145-022	145-049	145SK-001**	145-037	145-005
G 1/2 RH	145-023	145-050	—	145-038	145-006

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

* no Certification BAM

RF53N

RF53NU

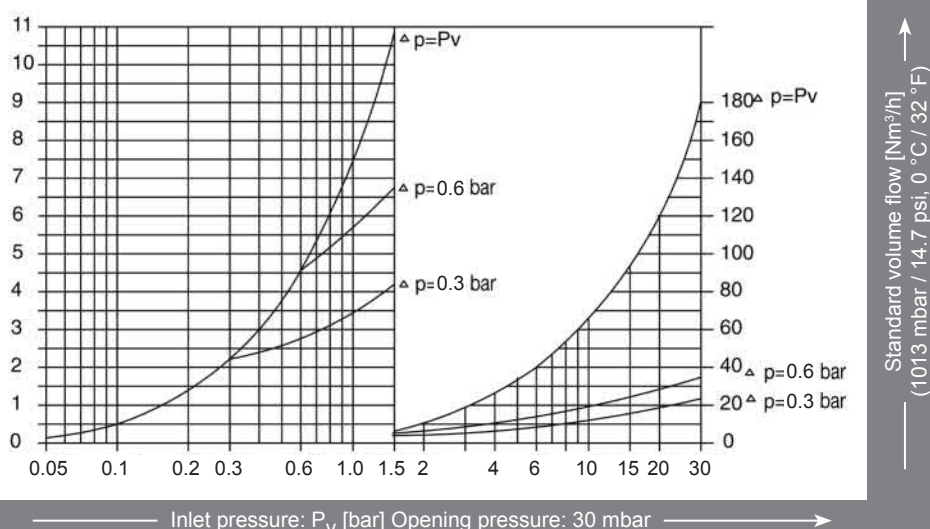
RF53U

RF53DN Flow 10% less

Conversion factors:

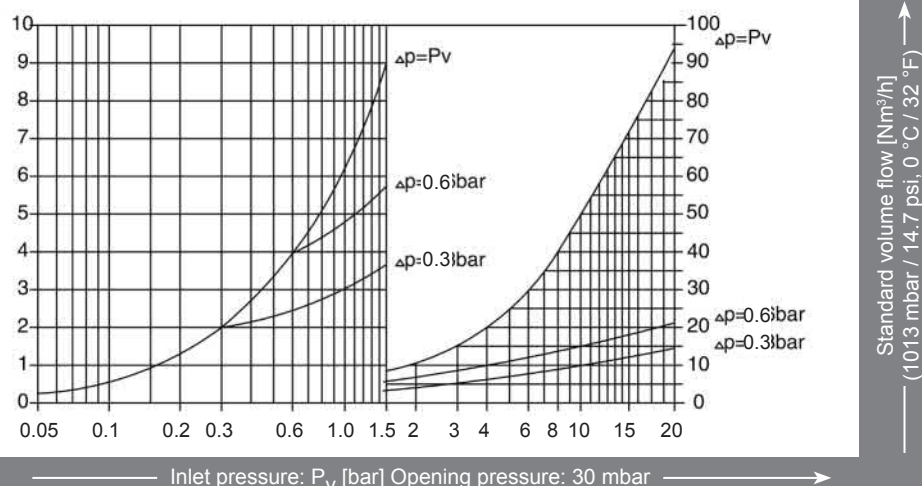
Acetylene	x 1.04
Butane	x 0.68
Natural Gas	x 1.25
Methane	x 1.33
Propane	x 0.80
Oxygen	x 0.95
Town gas	x 1.54
Hydrogen	x 3.75

Flow diagram for air (20 °C / 68 °F)



RF53NSK

Flow diagram for air (20 °C / 68 °F)



Other connections available upon request