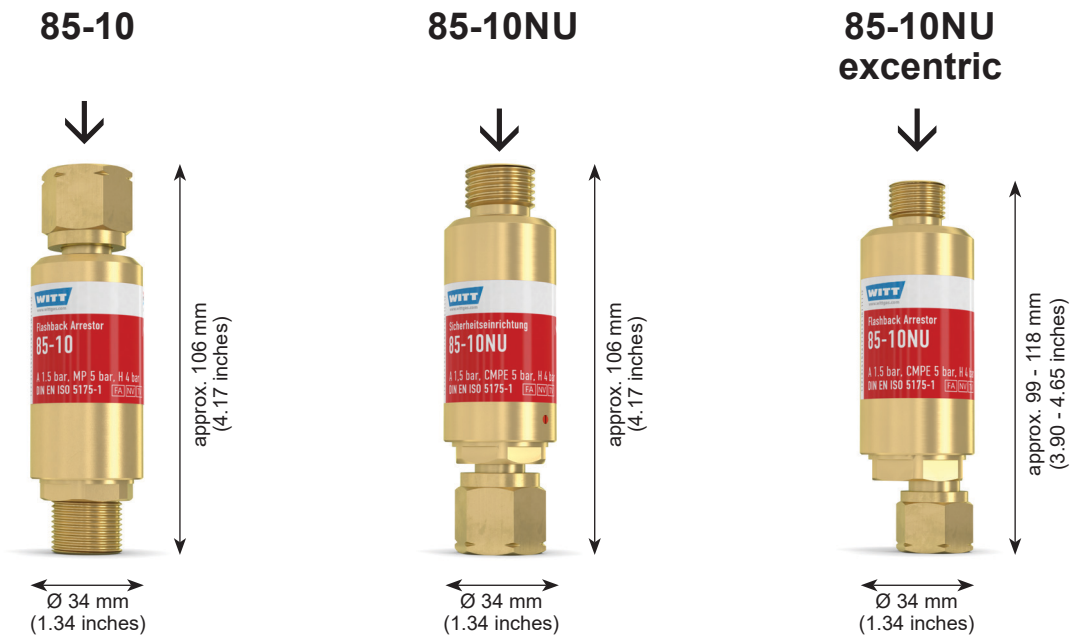


FLASHBACK ARRESTOR 85-10



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

- 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 (Model 85-10 only)

Operation / Usage

- 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 with high flows, for example, supply units for gas cutting machines: Model 85-10
- for torches or burners with high flow: Models 85-10NU and 85-10NU excentric = excentric/offset outlet
- 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 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 according to model by competent staff

Approvals

Company certified according to ISO 9001 and PED 2014/68/EU Module H

CE-marked according to:
- PED 2014/68/EU

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		
	85-10	85-10NU	85-10NU excentric
Flame arrestor [FA]	✓	✓	✓
Non-return valve [NV]	✓	✓	✓
Temperature sensitive cut-off valve [TV]	✓	✓	✓
Weight [oz]	15.31	15.31	14.71
BAM certified	BAM/ZBA/003/04	—	—
Material	Brass (housing); Stainless steel (flame arrestor); Elastomer (seal)		

FLASHBACK ARRESTOR 85-10



	Model		
	85-10	85-10NU	85-10NU excentric
Gases	max. working pressure [PSI]		
Acetylene (A)	21	21	21
Natural gas (M)	72	72	72
LP (Propane)	72	72	72
Hydrogen (H)	58	58	58
Connections	Part No.		
1/4" NPT F	143-323	—	—
3/8" NPT F	143-105	—	—
9/16" - 18 UNF LH (B-size)	143-009	143-245	143-131
	Model		
	85-10	85-10NU	85-10NU excentric
Gases	max. working pressure [PSI]		
Oxygen (O)	363	363	363
Connections	Part No.		
1/4" NPT F	143-323	—	—
3/8" NPT F	143-105	—	—
9/16" - 18 UNF RH (B-size)	143-022	143-244	143-132

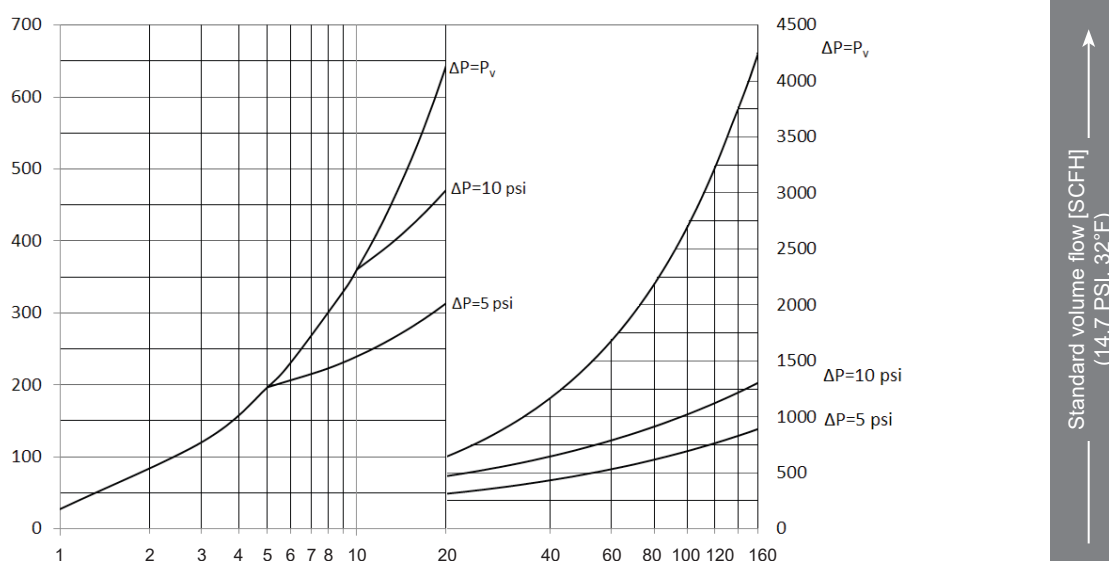
Other connections available upon request

85-10
85-10NU
85-10NU excentric

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
MPS	x 0.83

Flow diagram for air (68°F)



————— Inlet pressure: P_v [PSI]; Opening pressure: 0.44 PSI —————→