

WITT Flashback Arrestors for reliable protection against dangerous reverse gas flow and flashbacks according to EN 730 / 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 forming explosive mixtures in the gas supply
- a filter at the gas inlet protects the arrestor against dirt contamination, extending the service life (only 85-10 and 85-30)

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 users for example supply units for gas cutting machines: Models 85-10 and 85-30

- for torches of burners with high flow: Model 85-10NU
- for cutting machines with high flow: Model 85-10U
- 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 9001:2000 and ISO 14001
 CE-marked according to:
 - PED 97/23/EC

Product Information

Technical Data

Safety devices	Model			
	85-10	85-10NU	85-10U	85-30
Flame arrestor [FA]	X	X	X	X
Non-return valve [NV]	X	X	X	X
Temperature sensitive cut-off valve [TV]	X	X	-	X
Weight [g]	434	434	434	4580
Approval DVGW	NG-4390BL0421	-	-	NG-4390AL0031
Approval BAM	BAM/ZBA/003/04			
Material	Housing - Brass; Flame arrestor - Stainless steel; Seal - Elastomer			

B01/K0 subject to change

SAFETY DEVICES

www.wittgas.com

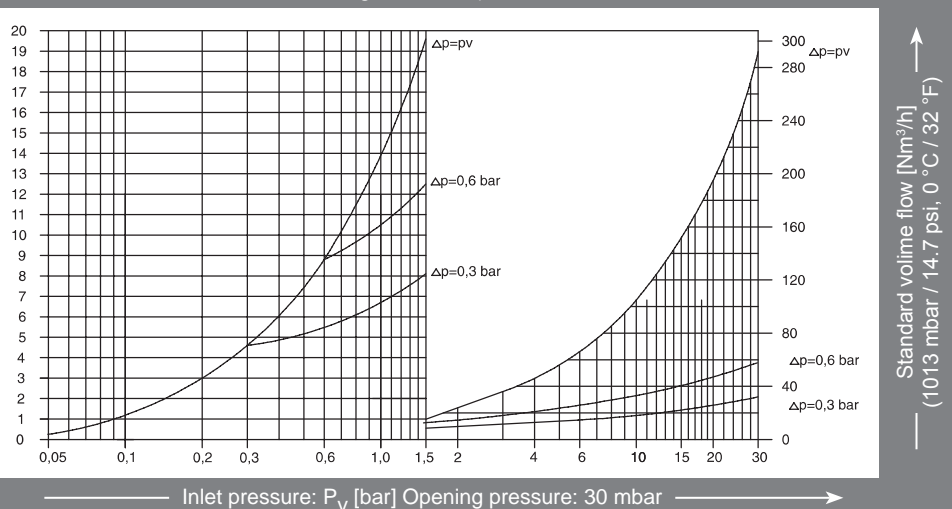
	Model			
	85-10	85-10NU	85-10U	85-30
Gases	max. working pressure [bar]			
Acetylene (A)	1.5	1.5	—	1.5
Town gas (C)	5.0	5.0	5.0	5.0
Natural gas (M)	5.0	5.0	5.0	5.0
LPG (P)	5.0	5.0	5.0	3.5
Hydrogen (H)	4.0	4.0	4.0	4.0
Ethylene (E)	5.0	5.0	5.0	4.0
Connections	Order-No.			
G 3/8 LH	143.002	143.039	—	—
G 1/2 LH	143.008	143.231	143.040	—
G 3/4 LH	—	—	—	147.001
G 1 LH	—	—	—	147.003
G 1.1/2 F	—	—	—	147.004
3/4" NPT F	—	—	—	147.034
	Model			
	85-10	85-10NU	85-10U	85-30
Gases	max. working pressure [bar]			
Oxygen (O)	30.0	30.0	30.0	30.0
Compressed air (D)	30.0	30.0	30.0	30.0
Connections	Order-No.			
G 1/4 RH	143.013	—	—	—
G 3/8 RH	143.016	143.041	143.133	—
G 1/2 RH	143.019	—	143.042	—
G 3/4 RH	—	—	—	147.065
G 1 RH	—	—	—	147.068
G 1.1/2 F	—	—	—	147.069
3/4" NPT F	—	—	—	147.038

**85-10
85-10U
85-10NU**

Conversion factors:

- Acetylene x 1.04
- Butane x 0.68
- Ethylene x 1.02
- 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)

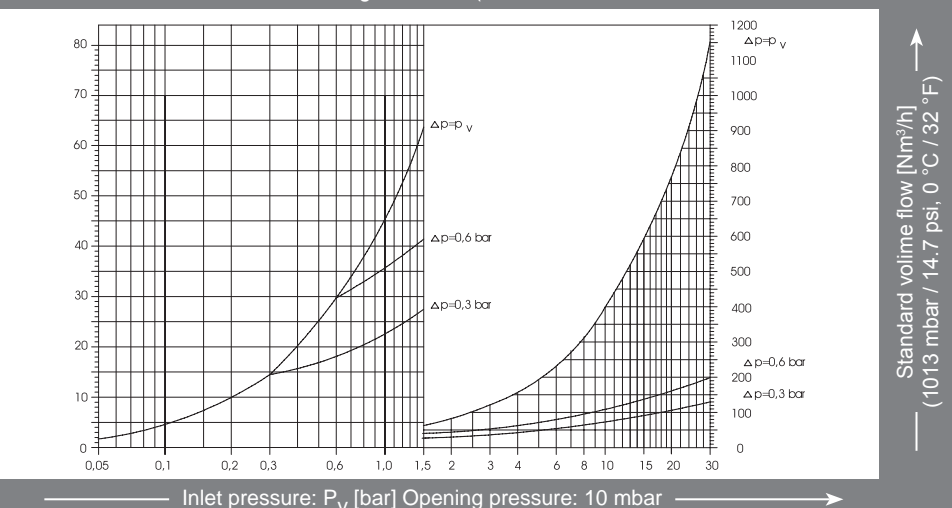


85-30

Conversion factors:

- Acetylene x 1.04
- Butane x 0.68
- Ethylene x 1.02
- 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)



Other connections available on request

Technical Data

B01/K0 subject to change