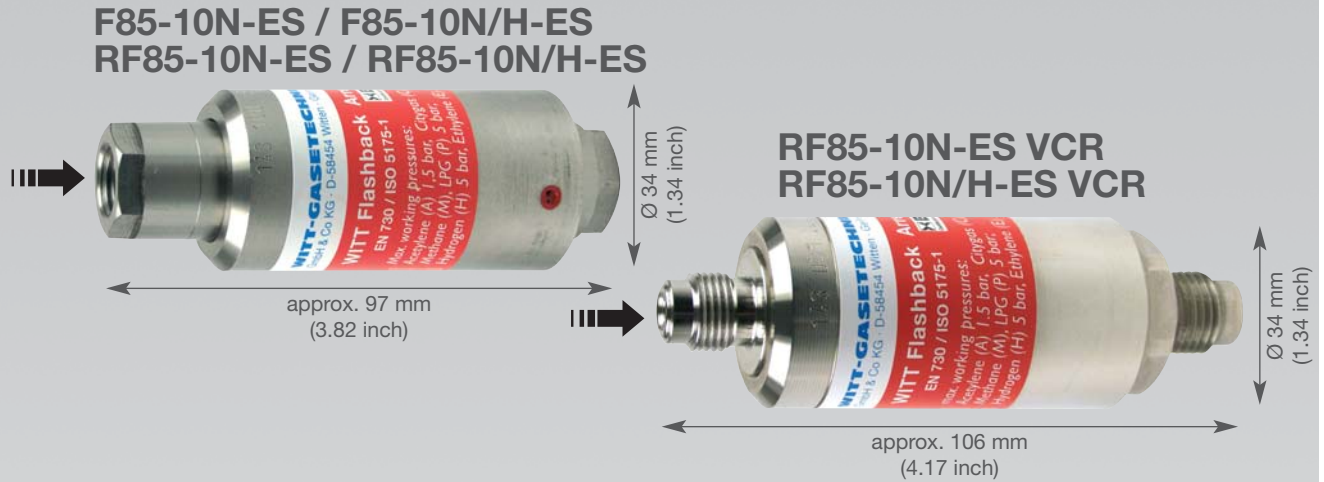


**SAFETY DEVICES**

www.wittgas.com



**WITT Flashback Arrestors for reliable protection against dangerous reverse gas flow and flashbacks according to EN 730 / ISO 5175-1 Certified and under surveillance. 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 RF85-10N-ES)

**Operation / Usage**

- Flashback Arrestors are used to protect gas cylinders and pipeline outlet points (hoses and any equipment) with high flow against dangerous reverse gas flow (RF85-10N-ES) and flashbacks
- without non-return valve (F85-10N-ES) for lower working pressures with low pressure drop i.e. before and after analysers
- ideal for use with corrosive gases in the chemical industry, process technology or in the laboratory area
- WITT Flashback Arrestors may be mounted in any position / orientation
- the maximum ambient / working temperature is 70 °C / 158 °F

**Maintenance**

- annual testing of the non-return valve, body leak tight-ness 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

Safety devices	Model ...-ES			
	F85-10N	F85-10N/H	RF85-10N	RF85-10N/H
Flame arrestor <b>[FA]</b>	X			X
Non-return valve <b>[NV]</b>	-			X
Temperature sensitive cut-off valve <b>[TV]</b>	X			X
Weight [g]	385		385	
Approval BAM	BAM/ZBA/003/04			
Material	Housing – Stainless steel; Flame arrestor – Stainless steel; Seal – Elastomer			
Gases	max. working pressure [bar]			
Acetylene (A)	-	-	1.5	-
Town gas (C)	5.0	-	5.0	-
Natural gas (M)	5.0	10.0	5.0	10.0
LPG (P)	5.0	5.0	5.0	5.0
Hydrogen (H)	4.0	10.0	4.0	10.0
Ethylene (E)	5.0	9.0	5.0	9.0
Connections	Order-No.			
1/4" NPT F	143.028	143.100	143.061	143.077
3/8" NPT F	143.122	-	143.069	143.087
9/16"-18UNF VCR	-	-	143.031	-
7/8" -14UNF VCR	-	-	143.048	143.076
Gases	max. working pressure [bar]			
Oxygen (O)	30.0	-	30.0	-
Compressed air (D)	30.0	-	30.0	-
Connections	Order-No.			
1/4" NPT F	143.149	-	143.101	-
3/8" NPT F	143.198	-	143.119	-
9/16"-18UNF VCR	-	-	143.163	-
7/8" -14UNF VCR	-	-	143.134	-

Product Information / Technical Data

Other connections available on request

**SAFETY DEVICES**

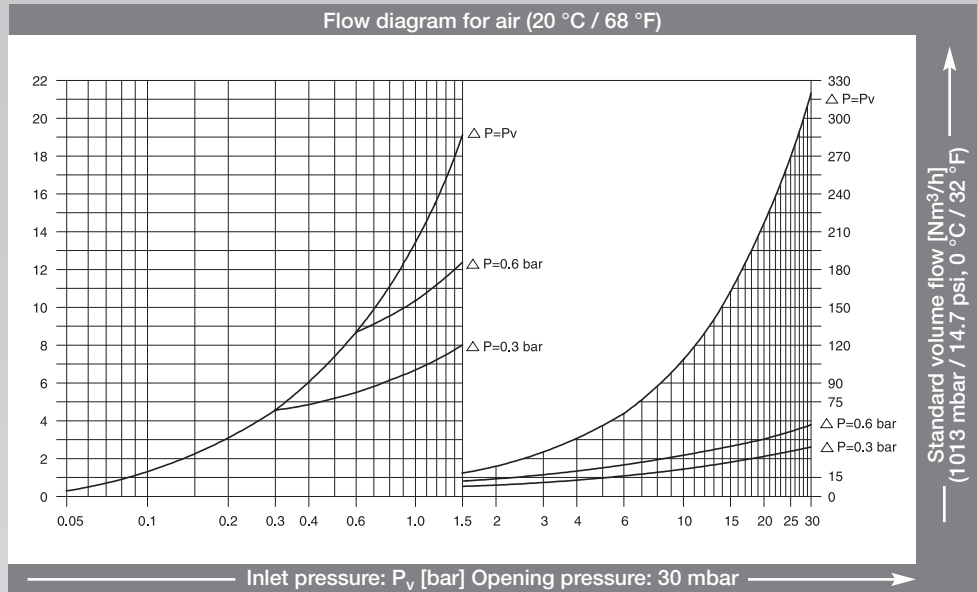
www.wittgas.com

**RF85-10N-ES**  
**RF85-10N-ES VCR**

- 143.031
- 143.048
- 143.061
- 143.069
- 143.101
- 143.119
- 143.134
- 143.163

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

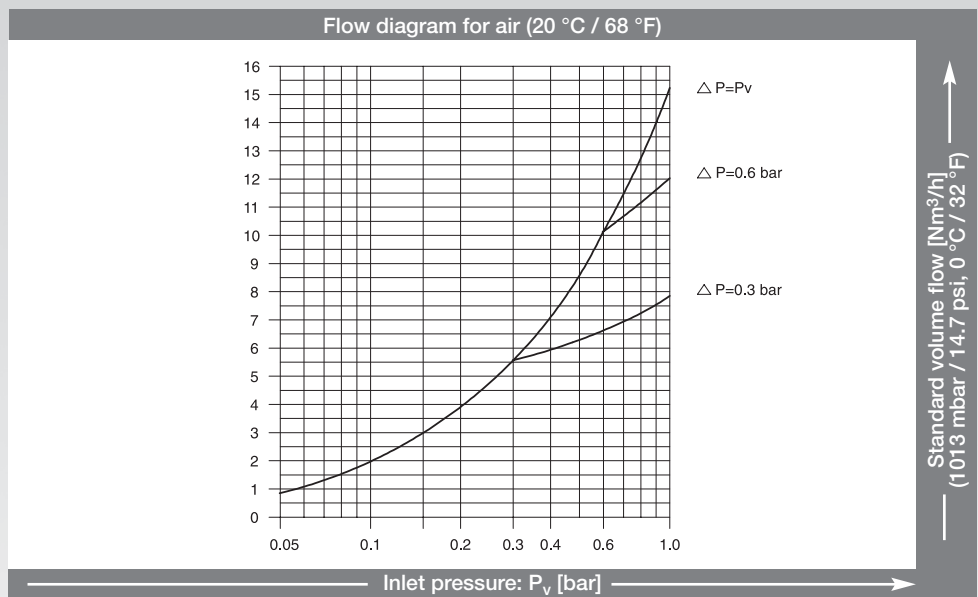


**F85-10N-ES**

- 143.028
- 143.122
- 143.149
- 143.198

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

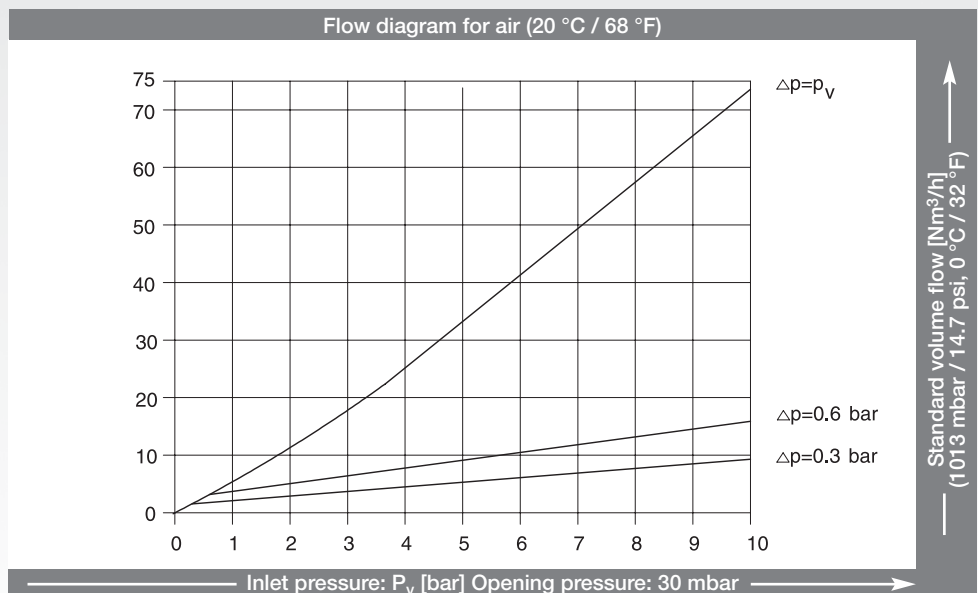


**RF85-10N/H-ES**

- 143.076
- 143.077
- 143.087

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



Technical Data

L7 subject to change