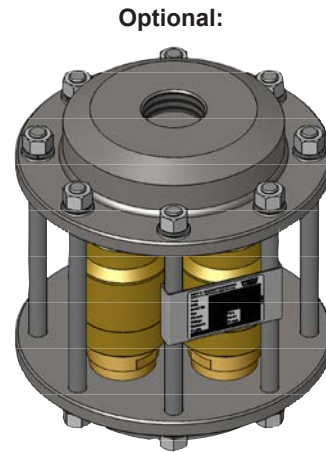


**Parallel connection from 2, 4 or 5 Flashback Arrestors model 85-30**



**WITT Safety groups for reliable protection against dangerous reverse gas flow and flashbacks according to EN 730-1 / ISO 5175.**

**For applications with high flow rates.  
Every safety group 100% tested.**

**Benefits**

- 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

**Operation / Usage**

- in central gas supplies (behind the manifold pressure regulator or in a pipeline system)
- in thermal processing systems according to EN 746-2 (cutting machines, furnace supply equipment)
- WITT safety groups may be mounted in any position / orientation in pipelines / supply pipes

- 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
- safety groups are only to be serviced by the manufacturer

**Options**

- connection: two-sided female thread (G-; NPT-; RC-thread)

**Approvals**

Company certified according to ISO 9001 and PED 97/23/EC Module H

CE-marked according to:

- PED 97/23/EC

Cleaned for Oxygen Service according to:

- EIGA IGC Doc 13/12/E: Oxygen Pipeline and Piping Systems

Model	Max. working pressure [bar]	Material	Weight [kg]	Length [mm]	Connection flange PN 16, DIN 2633	Order-No.
<b>645 5-fold</b> (5 x 85-30)	Acetylene (A)	1.5	68	323	DN 50	upon request
	Town gas (C)	5.0				
	Natural gas (M)	3.5				
	LPG (P)	4.0				
	Hydrogen (H)	4.0				
<b>645 4-fold</b> (4 x 85-30)	Ethylene (E)	4.0	53	430	DN 50	182-007
	Acetylene (A)	1.5				
	Town gas (C)	5.0				
	Natural gas (M)	3.5				
	LPG (P)	4.0				
	Hydrogen (H)	4.0				
	Oxygen (O)	10.0				
Oxygen (O)	16.0					
			53	430	DN 50	182-008 upon request

Other connections and pressures available on request

Model	Max. working pressure [bar]	Material	Weight [kg]	Length [mm]	Connection flange PN 16, DIN 2633	Order-No.
645 2- fold (2 x 85-30)	Acetylene (A)	Steel (stainless steel) Brass Elastomer	44	430	DN 50	182-023
	Town gas (C)					
	Natural gas (M)					
	LPG (P)					
	Hydrogen (H)					
	Ethylene (E)					
Oxygen (O)	10.0	44	430	DN 50	182-027 on request	
Oxygen (O)	16.0					

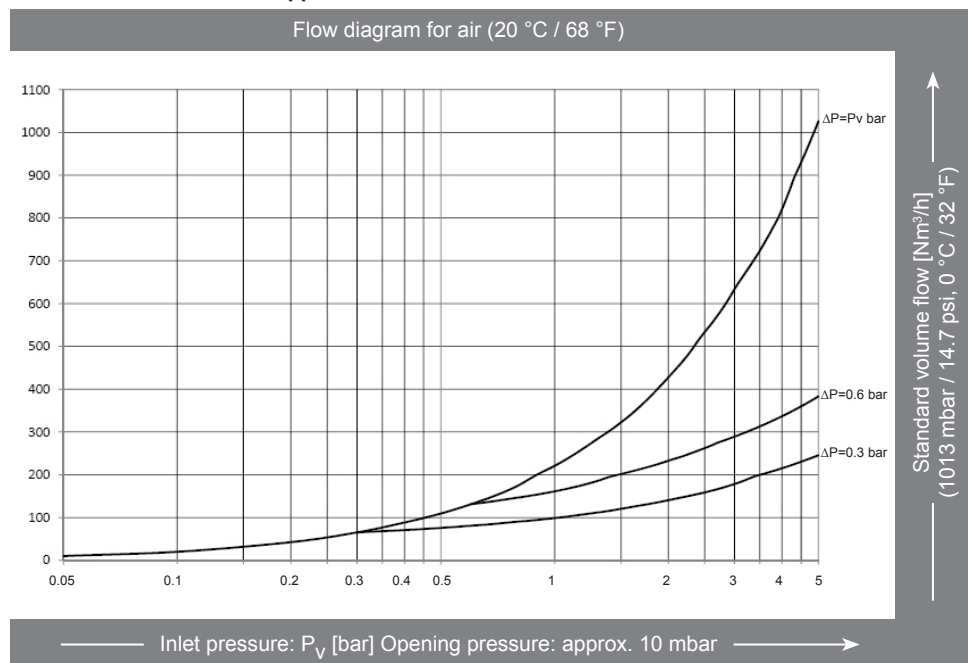
Other connections available on request

**Note:**  
All flow rates are reduced approx. 50% at the 2- fold models

## 645 (4 x 85-30) 182-007

Conversion factors:

Acetylene	x 1.04
Butane	x 0.68
Natural Gas	x 1.25
Ethylene	x 1.02
Methane	x 1.33
Propane	x 0.80
Oxygen	x 0.95
Town gas	x 1.54
Hydrogen	x 3.75



## 645 (4 x 85-30) 182-008

