

**Decomposition Arrestors / Safety Devices**



**WITT Decomposition Arrestors for reliable protection against decomposition of acetylene and flashbacks of fuel gases. Every Arrestor 100% tested.**



**The best Safety Devices in the world**

- a large surface area flame arrestor [FA] of stainless steel construction:
  - stops dangerous decomposition of acetylene independent from flow direction
  - 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 arrestor reaches a dangerous level

**Operation / Usage**

- as a Decomposition Arrestor for acetylene in medium pressure pipe-lines for protection from cylinder equipment and bundles
- as a safety device (FN40) to protect against flashbacks in accordance to EN 730 - not for acetylene
- as a Decomposition Arrestor to protect pipelines in supply systems

- FN40 for double flow capacity
- WITT Decomposition Arrestors / safety devices may be mounted in any position / orientation
- the maximum ambient / working temperature is 70 °C / 158 °F

**Maintenance**

- it is recommended that an annual body leakage test is performed
- Decomposition Arrestors / safety devices are only to be serviced by the manufacturer

**Approvals**

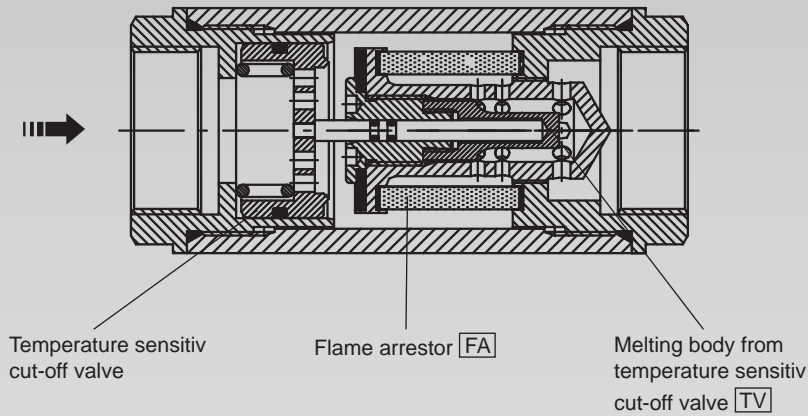
Company certified according to ISO 9001:2000, ISO 14001 and PED 97/23/EC Module H  
CE-marked according to:  
- PED 97/23/EC

Product Information

Technical Data

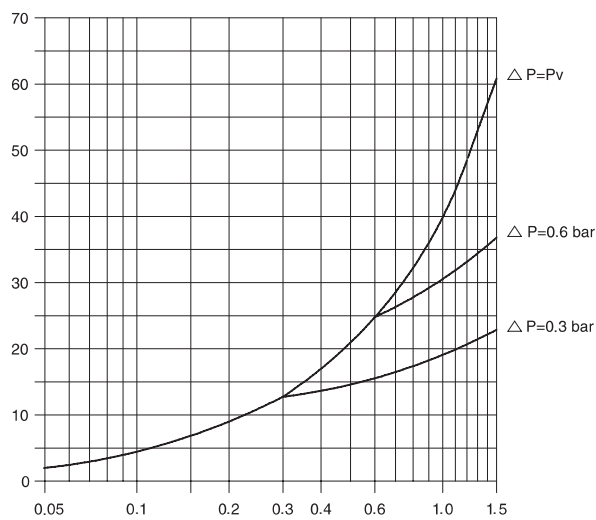
	Model	Max. working pressure [bar]	Housing-Material	Seal-Material	Weight [g]	Connection [inch]	Order-No.
TRAC	FN12 BAM/ZBA/003/04	Acetylene (A) 1.5	Brass	Elastomer	3091	G 1.1/2 RH	021.001
	FN40	Acetylene (A) 1.5			3846	G 1.1/2 RH	021.003
EN 730	FN40	Hydrogen (H) 3.0 Natural gas (M) 2.5 LPG (P) 1.5			3846	G 1.1/2 RH	021.008

Other connections available on request



**FN12**

Flow diagram for air (20 °C / 68 °F)



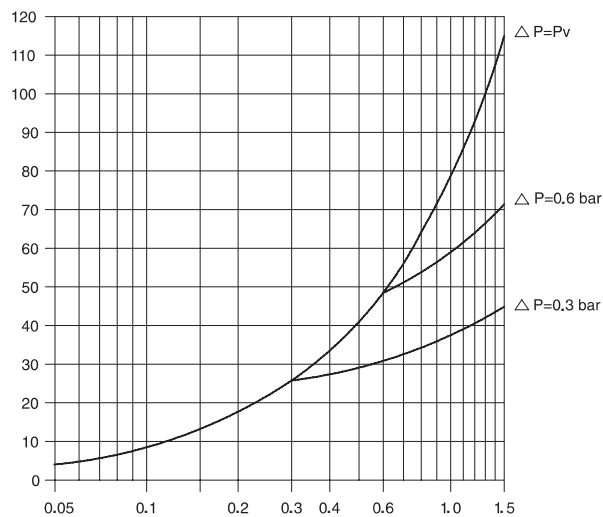
Conversion factor:  
Acetylene x 1.04

Standard volume flow [Nm³/h]  
(1013 mbar / 14.7 psi, 0 °C / 32 °F)

Inlet pressure:  $P_v$  [bar]

**FN40**

Flow diagram for air (20 °C / 68 °F)



Conversion factors:  
Acetylene x 1.04  
Natural Gas x 1.25  
Methane x 1.33  
Propane x 0.80  
Hydrogen x 3.75

Standard volume flow [Nm³/h]  
(1013 mbar / 14.7 psi, 0 °C / 32 °F)

Inlet pressure:  $P_v$  [bar]

Technical Data

A01/K0 subject to change