

**SIMAX-5 - Series**  
**For Protection of Tapping Points, Distribution lines and Manifolds**



The SIMAX series of flashback arrestors provides a full range of dry type (no water or fluid to check or replenish) flashback, gas reserve flow, and burn back protection in a compact economical package. SIMAX series flashback arrestors are approved safety devices under ANSI Z49.1:1999 safety guidelines and help meet OSHA, NFPA and other strict industry safety standards. They are ideal for high volume gas flow applications in pipelines and manifold.



**Technical Data**

**Threads**

In accordance with EN 560, ISO 3253 for common connections

Fuel Gas: 1" - NPT female  
 Oxygen/ Compressed Air 1" - NPT female

**Weight:**

**Gas-Types**

Acetylene, Town Gas, Compressed Air, Ethylene, Hydrogen, Natural Gas (Methane), Oxygen, Propane, MPS Methylacetylen-Propadien-Mixture

**Working Pressure**

Acetylene: 1.5Bar / 21 psig  
 Hydrogen: 3.5 Bar / 50 psig  
 Town Gas: 5.0 Bar / 72 psig  
 Ethylene: 5.0 Bar / 72 psig  
 Natural Gas (Methane): 5.0 Bar / 72 psig  
 Propane: 5.0 Bar / 72 psig  
 MPS: 5.0 Bar / 72 psig  
 Compressed Air: 15.0 Bar / 217 psig  
 Oxygen: 15.0 Bar / 217 psig

**Always there, where high flow rates with low pressure drops are necessary for an on-going production process. The high flow rates guarantee a long product life with the highest level of safety.**

**Safety elements::**

- \* • Gas non-return valve NV
- \* • Flame arrestor FA
- \* Thermal cut-off valve TV

**Maintenance:**

An examination must be required within a certain period of at least once a year.

According to TRAC 207, 9.36 and BGV D1, § 49

Safety devices may be opened and repaired only by the manufacturer.

**Dust filter promotes long life**

Type of Gas	Part #	Connection	
		Inlet	Outlet
Fuel Gas	SIMAX 5-F	1" NPT F	1" NPT F
Oxygen	SIMAX 5-OX	1" NPT F	1" NPT F

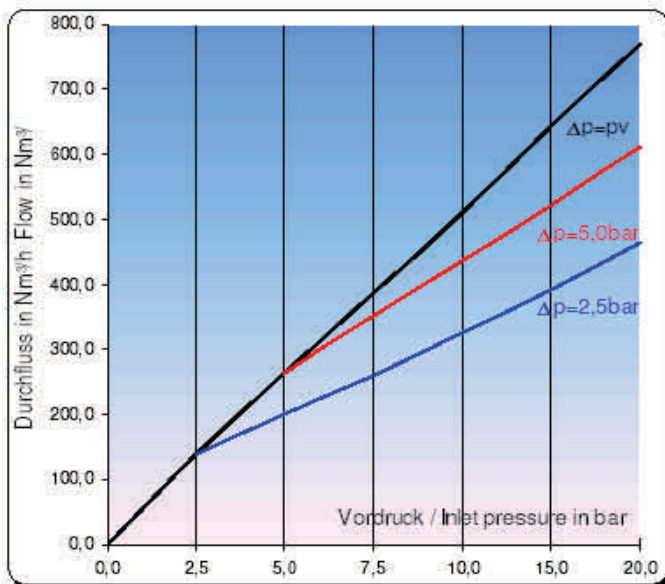
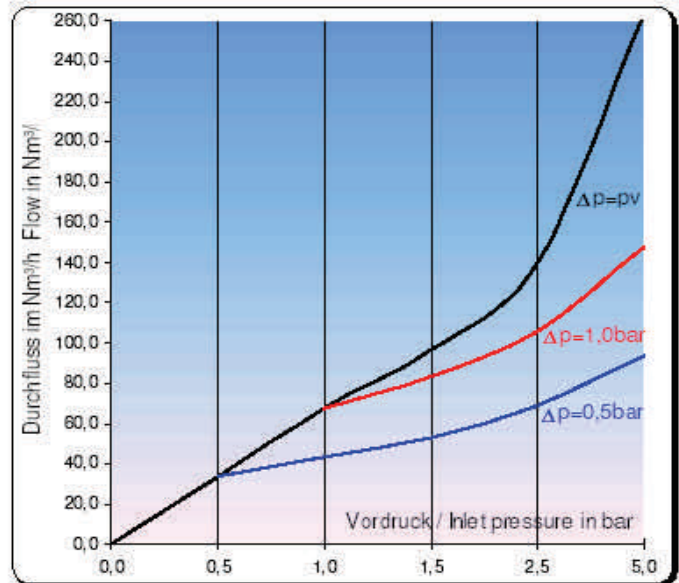
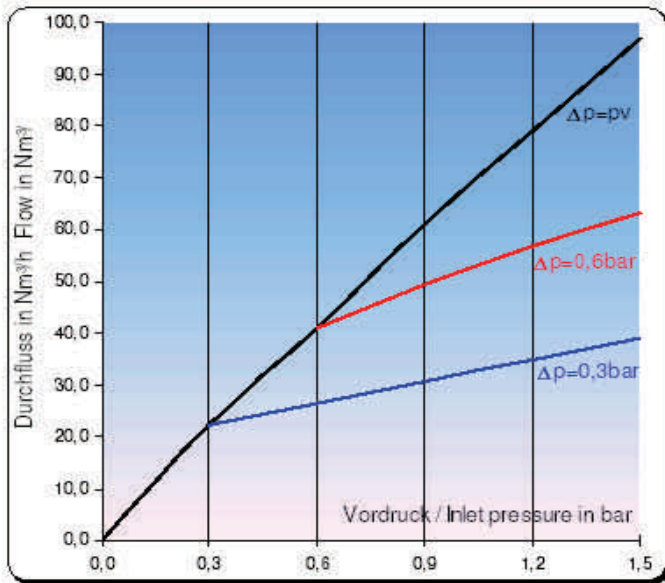
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**Safety device to EN 730-1, ISO 5175**  
**Model: SIMAX-5**

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**Flow-Rate Dates:**



**Conversion Factor:**

( A ) Acetylene C <sub>2</sub> H <sub>2</sub> :	x 1.04
( C ) Town Gas:	x 1.54
( E ) Ethylen	x 1.02
( H ) Hydrogen H <sub>2</sub> :	x 3.75
( M ) Methane: CH <sub>4</sub>	x 1.33
( P ) Propane C <sub>3</sub> H <sub>8</sub> :	x 0.80
( M ) Natural Gas	x 1.25
( Y ) MAPP-Gas C <sub>3</sub> H <sub>4</sub>	x 0.81
( O ) Oxygen: O <sub>2</sub>	x 0.95

1 bar = 14.28 psi

1 bar = 100 kPa

1 m<sup>3</sup> = 1.31 cu.yd