FLASHBACK ARRESTORS
stainless steel

RF85-20N

85-30
RF85-30N/H

WITT Flashback Arrestors for reliable protection against dangerous reverse gas flow and flashbacks according to DIN EN ISO 5175-1. Every Arrestor 100% tested.

Benefits
- a large surface area flame arrester (FA) of stainless steel construction extinguishes any dangerous flashback
- a temperature sensitive cut-off valve (TV) extinguishes sustained flashbacks long before the internal temperature of the arrester reaches a dangerous level
- a spring loaded non-return valve (NV) prevents slow or sudden reverse gas flow from forming explosive mixtures in the gas supply
- a filter at the gas inlet protects the arrester against dirt contamination, extending the service life

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
- ideal for use with corrosive gases in the chemical industry, process technology or in the laboratory area
- for pipeline outlets and single cylinders with high users for example supply units for gas cutting machines
- WITT Flashback Arrestors may be mounted in any position/orientation
- only one piece of equipment may be connected to a single Flashback Arrester
- the maximum ambient/working temperature is 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
CE-marked according to:
- PED 2014/68/EU
Other connections available upon request

Cleaned for Oxygen Service according to:
- EIGA IGC Doc 13/12/E: Oxygen Pipeline and Piping Systems

<table>
<thead>
<tr>
<th>Safety devices</th>
<th>RF85-20N*</th>
<th>85-30</th>
<th>RF85-30N/H*</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAM certified</td>
<td>–</td>
<td>✓</td>
<td>–</td>
</tr>
<tr>
<td>Flame arrester (FA)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Non-return valve (NV)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Temperature sensitive cut-off valve (TV)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Weight [oz]</td>
<td>56</td>
<td>157</td>
<td>153</td>
</tr>
</tbody>
</table>

Material
- Housing – Stainless steel;
- Flame arrester – Stainless steel;
- Seal – Elastomer

Gases
- max. working pressure [PSI]
  - Acetylene (A) 29 21 –
  - Natural gas (M) 58 72 116
  - LP (Propane) 58 50 72
  - Hydrogen (H) 58 58 159
  - Oxygen (O) 232 363 –

Connections
- Part No.
  - 1/2" NPT F 149-009 – –
  - 3/4" NPT F 149-031 147-071 147-039
  - 1" NPT F 149-029 147-092 147-047

* no Certification BAM

Note: The models RF85-20N and 85-30 are suitable for fuel gas and oxygen.
FLASHBACK ARRESTORS
stainless steel

**RF85-20N**

Conversion factors:
- Acetylene: $1.04$ x
- Butane: $0.68$ x
- Natural Gas: $1.25$ x
- Methane: $1.33$ x
- LP (Propane): $0.80$ x
- Oxygen: $0.95$ x
- Hydrogen: $3.75$ x

**Flow diagram for air (68°F)**

Inlet pressure: $P_v$ [PSI] Opening pressure: $0.06$ PSI

**85-30**

147-027
147-071

Conversion factors:
- Acetylene: $1.04$ x
- Butane: $0.68$ x
- Natural Gas: $1.25$ x
- Methane: $1.33$ x
- LP (Propane): $0.80$ x
- Oxygen: $0.95$ x
- Hydrogen: $3.75$ x

**Flow diagram for air (68°F)**

Inlet pressure: $P_v$ [PSI] Opening pressure: $0.15$ PSI

**RF85-30N/H**

147-039
147-047

Conversion factors:
- Acetylene: $1.04$ x
- Butane: $0.68$ x
- Natural Gas: $1.25$ x
- Methane: $1.33$ x
- LP (Propane): $0.80$ x
- Oxygen: $0.95$ x
- Hydrogen: $3.75$ x

**Flow diagram for air (68°F)**

Inlet pressure: $P_v$ [PSI] Opening pressure: $0.15$ PSI

Conversion factors:
- Acetylene: $1.04$ x
- Butane: $0.68$ x
- Natural Gas: $1.25$ x
- Methane: $1.33$ x
- LP (Propane): $0.80$ x
- Oxygen: $0.95$ x
- Hydrogen: $3.75$ x

Flow diagram for air (68°F)

Inlet pressure: $P_v$ [PSI] Opening pressure: $0.15$ PSI