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 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

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 Arrestor
- 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
- 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>Certification BAM</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 [g]</td>
<td>1584</td>
<td>4455</td>
<td>4344</td>
</tr>
</tbody>
</table>

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

Gases
<table>
<thead>
<tr>
<th>max. working pressure [bar]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetylene (A)</td>
</tr>
<tr>
<td>Natural gas (M)</td>
</tr>
<tr>
<td>LPG (P)</td>
</tr>
<tr>
<td>Hydrogen (H)</td>
</tr>
<tr>
<td>Ethylene (E)</td>
</tr>
<tr>
<td>Oxygen (O)</td>
</tr>
<tr>
<td>Compressed air (D)</td>
</tr>
</tbody>
</table>

Connections
Order-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

Flow diagram for air (20 °C / 68 °F)

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

85-30
147-027
147-071

Flow diagram for air (20 °C / 68 °F)

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

RF85-30N/H
147-039
147-047

Flow diagram for air (20 °C / 68 °F)

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