FLASHBACK ARRESTORS
stainless steel

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 arrestor 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 arrestor 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 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 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 arrestor FA</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Non-return valve NV</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Temperature sensitive cut-off valve TV</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Weight [oz]</td>
<td>56</td>
<td>157</td>
<td>153</td>
</tr>
<tr>
<td>Material</td>
<td>Housing – Stainless steel; Flame arrestor – Stainless steel; Seal – Elastomer</td>
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<table>
<thead>
<tr>
<th>Gases</th>
<th>max. working pressure [PSI]</th>
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<tbody>
<tr>
<td>Acetylene (A)</td>
<td>29</td>
</tr>
<tr>
<td>Natural gas (M)</td>
<td>58</td>
</tr>
<tr>
<td>LP (Propane)</td>
<td>58</td>
</tr>
<tr>
<td>Hydrogen (H)</td>
<td>58</td>
</tr>
<tr>
<td>Oxygen (O)</td>
<td>232</td>
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</table>

<table>
<thead>
<tr>
<th>Connections</th>
<th>Part No.</th>
</tr>
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<tbody>
<tr>
<td>1/2” NPT F</td>
<td>149-009</td>
</tr>
<tr>
<td>3/4” NPT F</td>
<td>149-031</td>
</tr>
<tr>
<td>1” NPT F</td>
<td>149-029</td>
</tr>
</tbody>
</table>

* no Certification BAM

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

Flow diagram for air (68°F)

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

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

85-30

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

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

RF85-30N/H

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

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