**FLASHBACK ARRESTORS**

stainless steel

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**RF85-20N**

- Ø 62 mm (2.44 inches)

**85-30**

- Ø 84 mm (3.31 inches)

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 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

**Safety devices**

<table>
<thead>
<tr>
<th></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 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>
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<tr>
<td>Weight [g]</td>
<td>1584</td>
<td>4455</td>
<td>4344</td>
</tr>
</tbody>
</table>

**Material**

- Housing – Stainless steel;
- Flame arrestor – Stainless steel;
- Seal – Elastomer

**Gases**

<table>
<thead>
<tr>
<th>Max. Working Pressure [bar]</th>
<th>Acetylene (A)</th>
<th>Natural gas (M)</th>
<th>LPG (P)</th>
<th>Hydrogen (H)</th>
<th>Ethylene (E)</th>
<th>Oxygen (O)</th>
<th>Compressed air (D)</th>
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</thead>
<tbody>
<tr>
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<td>5,0</td>
<td>5,0</td>
<td>11,0</td>
<td>11,0</td>
<td></td>
<td></td>
<td></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.

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*ST - 12 - K010 subject to change*
FLASHBACK ARRESTORS
stainless steel

**RF85-20N**

Conversion factors:
- Acetylene: 1.04
- Butane: 0.68
- Natural Gas: 1.25
- Ethylene: 1.02
- Methane: 1.33
- Propane: 0.80
- Oxygen: 0.95
- Town gas: 1.54
- Hydrogen: 3.75

**Inlet pressure: PV [bar] Opening pressure: 4 mbar**

**85-30**

Conversion factors:
- Acetylene: 1.04
- Butane: 0.68
- Natural Gas: 1.25
- Ethylene: 1.02
- Methane: 1.33
- Propane: 0.80
- Oxygen: 0.95
- Town gas: 1.54
- Hydrogen: 3.75

**Inlet pressure: PV [bar] Opening pressure: 10 mbar**

**RF85-30N/H**

Conversion factors:
- Acetylene: 1.04
- Butane: 0.68
- Natural Gas: 1.25
- Ethylene: 1.02
- Methane: 1.33
- Propane: 0.80
- Oxygen: 0.95
- Town gas: 1.54
- Hydrogen: 3.75

**Inlet pressure: PV [bar] Opening pressure: 10 mbar**