SAFETY DEVICES FOR PROPYLENE SERVICE

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

The best Flashback Arrestors in the world
- 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 (not on E460)
- 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 (only RF53N, 85-10, 85-30)

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
- for pipeline outlets and single cylinders with high users
- for torches of burners: Model E460
- 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 and PED 2014/68/EU module H
CE-marked according to:
- PED 2014/68/EU

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. working pressure [bar]</th>
<th>Gas type</th>
<th>Material</th>
<th>Weight [g]</th>
<th>Length [inch]</th>
</tr>
</thead>
<tbody>
<tr>
<td>E460</td>
<td>6</td>
<td>propylene (\text{C}_3\text{H}_6)</td>
<td>Brass Elastomer</td>
<td>107</td>
<td>2.56</td>
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<tr>
<td>RF53N</td>
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<td>85-10</td>
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<td>434</td>
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<td>1 400</td>
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<td>4 580</td>
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</table>

Connections available upon request

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Flow diagram for propylene (20 °C / 68 °F)

E460
Inlet pressure: $P_v$ [bar]
Opening pressure: 30 mbar

RF53N
Inlet pressure: $P_v$ [bar]
Opening pressure: 30 mbar

Flow diagram for propylene (20 °C / 68 °F)

85-10
Inlet pressure: $P_v$ [bar]
Opening pressure: 30 mbar

85-20
Inlet pressure: $P_v$ [bar]
Opening pressure: 4 mbar

Flow diagram for propylene (20 °C / 68 °F)

85-30
Inlet pressure: $P_v$ [bar]
Opening pressure: 10 mbar