Parallel connection from 2 and 4 Flashback Arrestors model FN40.

WITT Safety groups for reliable protection against decomposition of acetylene.

For applications with high flow rates.

Every safety group 100% tested.

Benefits
• a large surface area flame arrestor \( \text{FA} \) of stainless steel construction:
  - stops dangerous decomposition of acetylene independent from flow direction
  - extinguishes any dangerous flashback entering the device in any direction
• a temperature sensitive cut-off valve \( \text{TV} \) extinguishes sustained flashbacks long before the internal temperature of the arrestors reaches a dangerous level

Operation / Usage
• as a Decomposition Arrestor for acetylene in medium pressure pipe-lines for protection from cylinder equipment and bundles according to DIN EN ISO 14114
• as a Decomposition Arrestor to protect pipelines in supply systems
• WITT safety groups may be mounted in any position / orientation
• the maximum ambient / working temperature is 70 °C / 158 °F

Maintenance
• it is recommended that an annual body leakage test is performed
• safety groups are only to be serviced by the manufacturer

Options
• flange end connections (nominal diameter 32 - 65)
• connection: two-sided female thread (G-; NPT-thread; Rc-thread)

Approvals
Company certified according to ISO 9001 and PED 2014/68/EU Module H
CE-marked according to:
- PED 2014/68/EU

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<td>Steel Brass Elastomer</td>
<td>38</td>
<td>468</td>
<td>flange DN 50 / PN40</td>
<td>182-001</td>
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<td>(2 x FN40)</td>
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Other connections and pressures available upon request
SAFETY GROUP 645/FN40

Flow diagram for Acetylene (20 °C)

Example
(4 x FN40) 182-002

Flow diagram for Acetylene (20 °C)

Inlet pressure: $P_v$ [bar]

Standard volume flow [Nm$^3$/h] (1013 mbar / 14.7 psi, 0 °C / 32 °F)

$\Delta P = 0.6$ bar

$\Delta P = 0.3$ bar

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