DECOMPOSITION ARRESTOR MGN
safety device

WITT Decomposition Arrestors for reliable protection against decomposition of acetylene up to 363 PSI. Every Arrestor 100% tested.

Benefits
• meets the requirements according to TRAC 207, clause 8.1 "Decomposition Arrestors in acetylene plants" and EN ISO 15615:2002, clause 6.4 "acetylene decomposition test". Conformity to the Code of practice (EIGA acetylene IGC Doc 123/04)
• single test from BAM
• protect from accidents during filling of acetylene gas cylinders
• a large surface area flame arrester [FA] of stainless steel construction:
  - stop dangerous decomposition of acetylene both-sided or only from one-side depending on version (see table)
• a spring loaded non-return valve [NV] prevents slow or sudden reverse gas flow forming explosive mixtures in the gas supply (option)
  - opening pressure approx. 0.87 PSI

Operation / Usage
• as a Decomposition Arrester for acetylene in high pressure pipe-lines for protection from filling equipment
• WITT Decomposition Arrestors may be mounted in any position / orientation
• the maximum ambient / working temperature is 158°F

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

Approvals
Company certified according to ISO 9001 and PED 2014/68/EU Module H

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetylene (A) 363</td>
<td>Brass</td>
<td>EPDM</td>
<td>X</td>
<td>X</td>
<td>13.83</td>
<td>G 1/2 RH F</td>
<td>1/4&quot; NPT F</td>
<td>022-010</td>
<td>X</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
<td>12.56</td>
<td>G 1/4 RH M</td>
<td>G 1/4 F</td>
<td>022-011</td>
<td>X</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
<td>14.53</td>
<td>1/4&quot; NPT F</td>
<td>1/4&quot; NPT F</td>
<td>022-015</td>
<td>X</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td>–</td>
<td>13.58</td>
<td>G 1/2 RH M</td>
<td>W21.8x1/14 M</td>
<td>022-014</td>
<td>X</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td>–</td>
<td>13.83</td>
<td>5/8LH NEN 3268 Nr. 8</td>
<td>1/8&quot; NPT F</td>
<td>022-002</td>
<td>X</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td>–</td>
<td>13.83</td>
<td>M24x1 M</td>
<td>1/4&quot; NPT F</td>
<td>022-013</td>
<td>–</td>
<td>X</td>
</tr>
</tbody>
</table>

Other connections available upon request
DECOMPOSITION ARRESTOR MGN

safety device

022-010

approx. 88.5 mm (3.48 inches)

Flow direction

Acetylene decomposition (stops $C_2H_2$ decomposition from this direction)

022-011

approx. 85.5 mm (3.48 inches)

022-015

approx. 85 mm (3.35 inches)

022-014

approx. 70.5 mm (2.78 inches)

022-002

approx. 68 mm (2.68 inches)

022-013

approx. 76 mm (2.99 inches)
DECOMPOSITION ARRESTOR MGN
safety device

022-011

Flow diagram for air (68°F)

Conversion factors:
Acetylene x 1.04

Inlet pressure: \( P_v \) [PSI] Opening pressure: 0.87 PSI

Standard volume flow [SCFH]
(14.7 PSI, 32°F)

Acetylene x 1.04

Flow diagram for air (68°F)