V-AMMO

Vertical Deep and Shallow Mixed Metal Oxide Anode System (Imperial Units)

Custom configured V-AMMO (Vertical Anode utilizing Mixed Metal Oxide) suitable for all well anode applications. Fully customized, allowing designer flexibility for varying project conditions.

Overview
• Based on extensive experience manufacturing products and years of service utilizing specialty anodes for vertical anode applications.
• Designed and assembled using high quality materials manufactured in North America to the highest standards. Items are stocked for immediate assembly and quick shipping.
• Industry leading venting system ensures generated gases are vented efficiently providing optimum anode performance.
• Multi-component, chemical resistant layered anode-to-cable splices.

Fully Customized Ordering
Customized anode output:
• 150 mA/linear foot—40 year design life*
• 250 mA/linear foot—40 year design life*
• 250 mA/linear foot—20 year design life*
• 500 mA/linear foot—20 year design life*
* Based on well backfilled with carbon/coke for anode section.

Cable Selection
Can be ordered with either of the below cable types:
• HMWPE—High Molecular Weight Polyethylene—Standard Cathodic protection cable for shallow anodes.
• HALAR/HMWPE—Chemical resistant, recommended for deep well applications.

Note: To avoid drying the anode, limit the current density at the coke column-soil interface to 100 mA/sqft in clay and 150 mA/sqft in other soils.

Features & Benefits
+ North American assembled for quick shipping to job sites.
+ Reel-mounted assembling prevents damage and facilitates fast installation.
+ Premium HALAR/HMWPE chemical resistant cable option.
+ Suitable for any hole diameter larger than 6”.
+ Built-in redundancy, including looped cable system and multiple cable to anode splices.
+ Light weight anode system reducing transportation costs for your project.
+ Multiple current outputs and life expectancy ensuring the anode system meets your project requirements.
+ Vent system is directly connected to anode ensuring immediate gas venting.
Recommended Uses

- Deep-well groundbeds 6" dia or more.
- Semi-deep well groundbeds 6" dia or more.
- Shallow-well groundbeds 6" or more.

Technical Data

<table>
<thead>
<tr>
<th>VENT PIPE</th>
<th>ORDERING</th>
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<td>Filter Cloth</td>
<td>Included*</td>
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*Unless specified otherwise the vent pipe is included as part of the system and can be ordered separately.

**ANODE**

CHECK ONE OF THE BELOW

- Output/Life
  - 150 mA/linear foot—40 year design life
  - 250 mA/linear foot—40 year design life
  - 250 mA/linear foot—20 year design life
  - 500 mA/linear foot—20 year design life

**CABLE TYPE**

CHECK ONE OF THE BELOW

- Type
  - HALAR: Ultimate chemical protection
  - HMWPE: Standard cathodic protection cable

**CABLE SIZE**

CHECK ONE OF THE BELOW

- Size
  - #4 AWG—Less than 5% Attenuation
  - #6 AWG—Less Than 5% Attenuation
  - #8 AWG—Less Than 5% Attenuation

**LOWERING SYSTEM**

CHECK ONE OF THE BELOW

- Rope
  - 3/8" Polypropylene

- Weight
  - 2" Carbon Steel (40lbs)

**ANODE WELL CABLE LENGTHS**

<table>
<thead>
<tr>
<th>Active Anode Section</th>
<th>Length of active anode material m</th>
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<tbody>
<tr>
<td>Non Active Anode Section</td>
<td>Length of cable between top of anode and well surface m</td>
</tr>
<tr>
<td>Cable Tail</td>
<td>Length of cable extending outside from anode well m</td>
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**ATTENUATION**

| Attenuation          | Less than 5% m |

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