A·80 anti-lime & OEM valve

**SCOPE**

A·80 Anti-lime & OEM are 1/4 turn angle valves that suppose an advanced option for manufacturers of concealed cisterns. They are designed for shut off the water supply to cisterns, to proceed to their repairing or replacement.

The main advantages they offer are:
- Manufacturer and/or model personalized.
- Very silent working.
- Anti-lime system.

**COMPONENTS**

<table>
<thead>
<tr>
<th>Item</th>
<th>Component</th>
<th>Material</th>
<th>Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>European Brass CW617N</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Supporting clip</td>
<td>POM</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Seat</td>
<td>EPDM</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Supporting clip</td>
<td>POM Grey</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Handle</td>
<td>POM Green</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Screw</td>
<td>Stainless steel</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>O-rings</td>
<td>EPDM</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>VITAQ Stem</td>
<td>Anti-lime polymer</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Bind Ring</td>
<td>PA Black</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Valve adapter</td>
<td>PA Black</td>
<td></td>
</tr>
</tbody>
</table>

**SERVICE CONDITIONS**

- Nominal pressure: 16 bar
- Test pressure: 25 bar
- Temperature range: Cold and hot water until 95ºC
- Fluid: Drinking water and domestic hot water
MAIN CONSTRUCTIVE FEATURES

VITAQ SYSTEM

Stem and ball are manufactured in one whole piece made of anti-lime polymer, which increases its resistance and performance, avoiding lime effects.

This original ARCO’s component has been designed to reduce loss of pressure, keeping a constant flow rate and avoiding noise. As well ball-stem’s quarter turn system has the same fundamental features of leak tightness and loss of pressure that you can find in the A·80 series.

VITAQ SYSTEM is the perfect solution to prevent lime problems, that can render useless the valve and maintain the flow rate constant along the time, avoiding the lime to adhere, reducing the water flow.

Internal Leak Tightness

The supporting clip made of POM is placed in the valve to push the EPDM seat against the stem-ball, assuring internal leak tightness.

This system cannot be dismantled, avoiding improper manipulations.

External Leak Tightness

A pair of EPDM O-rings placed on the stem assure external leak tightness.

This double joint system guarantees safety against external leakage, use, ageing, etc.

MODULARITY AND VERSATILITY

The system is provided with an adapter, allows installing the valve in different types of concealed cisterns with just selecting the appropriate adapter. This modularity and versatility comprise a unique valve and different adapter, facilitating the format change.
MAIN CONSTRUCTIVE FEATURES

EASY MANEUVER

The quarter turn maneuver allows an easy and quick maneuver, this feature is specially recommended for their placement in concealed cisterns, where the valve handle accessibility is reduced; specially in those concealed cisterns where the valve is placed in the laterals or in the upper part.

KNURLED THREADS

A·80 OEM angle valves have the classic knurled system of ARCO on the thread to facilitate the installation. It makes easier the application of Teflon, esparto grass... to the thread, avoiding sliding of these elements while application.

SILENT WORKING

A·80 series have a very silent working, being its acoustic level pressure LAP < 15 dB(A) for a 0.20 L/seg flow rate.

DIMENSIONS

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 M x 3/8 M</td>
<td>78</td>
<td>45</td>
<td>G1/2</td>
<td>G3/8A</td>
</tr>
</tbody>
</table>

G Thread ISO 228
HYDRAULIC FEATURES

Hydraulic characteristics obtained according to EN1267.

![Flow vs. Loss of pressure graph]

INSTALATION AND ASSEMBLY

The installation of valves must be done with the right tool, mostly with 15 spanner.

The tool should be adjusted to the flat sides of the body of the valve, avoiding the deformation of the zone by high pressure of the tool.

Components of the valve must not be altered. The substitution or dismantling of the handle can cause external leaks.

All quarter turn handle valves should work totally open.