A·80 SMALL SPACES are 1/4 turn angle valves that are designed for being connected to water pipe systems. They are characterized for being compact valves that are easily connected in inaccessible spaces.

They are used to shut off individually water supply to basins, sinks and other different water supply points to proceed to their repairing or replacement.

A·80 SMALL SPACES are 1/4 turn valves.

**SCOPE**

A·80 SMALL SPACES are 1/4 turn angle valves that are designed for being connected to water pipe systems. They are characterized for being compact valves that are easily connected in inaccessible spaces.

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**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

**COMPONENTS**

<table>
<thead>
<tr>
<th>Item</th>
<th>Component</th>
<th>Material</th>
<th>Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Seat</td>
<td>NBR</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Supporting clip</td>
<td>POM</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Nut*</td>
<td>European Brass CW614N</td>
<td>Chrome plated</td>
</tr>
<tr>
<td>4</td>
<td>Bicone*</td>
<td>Polyamide</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Handle</td>
<td>ABS</td>
<td>Chrome plated</td>
</tr>
<tr>
<td>6</td>
<td>O-rings</td>
<td>NBR</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Stem</td>
<td>European Brass CW614N</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Body</td>
<td>European Brass CW617N</td>
<td>Chrome plated</td>
</tr>
</tbody>
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* According to model
COMPONENTS

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MAIN CONSTRUCTIVE FEATURES

EASY INSTALLATION

Compact valves, their dimensions are appropriated when the space able for the installation is reduced, inside or outside cisterns, reduced hollow between the wall and the toilet.

Moreover, A 80 SMALL SPACES series have a great range of connections that allows to fit in mostly of the installations.

STEM

Stem and ball are manufactured in one piece with European Brass CW614N, which increases its resistance and performance.

This original component from ARCO has been designed to reduce loss of pressure and attenuate the sound pressure, increasing the comfort of the water facilities.
MAIN CONSTRUCTIVE FEATURES

Internal leak tightness

The supporting clip made of POM is placed in the valve to push the NBR seat against the stem-ball.

This system cannot be dismantled, avoiding improper manipulations.

External leak tightness

A pair of NBR o-rings placed on the stem assure external leak tightness. This double joint system guarantees safety against external leakage, use, ageing...

ASAG: TEFLON COVERING SELF-TAPPING RING*

These are models with a Teflon system on the inner thread. They can be directly threaded to the water inlet without the need of applying Teflon tape, esparto grass or any other sealing material.

The valves with the self-tapping Teflon ring save around 30% of time in the installation.

* According to model
## DIMENSIONS

### A 80 SMALL SPACES Male NOVA Handle

<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>60</td>
<td>28</td>
<td>G 1/2</td>
<td>G 3/8</td>
</tr>
</tbody>
</table>

G Thread ISO 228

### A 80 SMALL SPACES Male - with loose nut

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8 M x 3/8 x 10</td>
<td>60</td>
<td>28</td>
<td>G 3/8</td>
<td>10</td>
</tr>
<tr>
<td>1/2 M x 3/8 x 10</td>
<td>60</td>
<td>28</td>
<td>G 1/2</td>
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</tbody>
</table>

G Thread ISO 228

### A 80 SMALL SPACES Female - with nut

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8 F x 3/8 Ø10</td>
<td>59</td>
<td>27</td>
<td>G 3/8</td>
<td>12</td>
<td>10</td>
</tr>
<tr>
<td>1/2 F x 3/8 Ø10</td>
<td>59</td>
<td>27</td>
<td>G 1/2</td>
<td>12</td>
<td>10</td>
</tr>
</tbody>
</table>

G Thread ISO 228
## DIMENSIONS

### A-80 SMALL SPACES ASAG VERTICAL Handle

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<tr>
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<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 x 3/8</td>
<td>51</td>
<td>23</td>
<td>-</td>
<td>G 1/2</td>
<td>G 3/8</td>
<td>41</td>
</tr>
<tr>
<td>*1/2 x 3/8 x 10</td>
<td>56</td>
<td>28</td>
<td>12</td>
<td>10</td>
<td>G 3/8</td>
<td>41</td>
</tr>
</tbody>
</table>

*With nut and chrome plated
G Thread ISO 228

### A-80 SMALL SPACES ORIGINAL Handle

<table>
<thead>
<tr>
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<td>G 3/8</td>
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</table>

*Handle available made of metal or ABS
G Thread ISO 228
HYDRAULIC FEATURES

Hydraulic characteristics obtained according to norm EN 1267.

![Flow vs. Loss of pressure graph]

INSTALLATION 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.