



Function



| Ref.                   | Dimensions (mm) |
|------------------------|-----------------|
| Flange                 | F10 - F12       |
| C x depth              | M10x15          |
| D x depth              | M12x18          |
| E                      | 102             |
| F                      | 125             |
| B                      | 36              |
| O                      | 38.5            |
| A                      | 648.2           |
| G                      | 19.5            |
| H (bore)               | 78              |
| I                      | 24              |
| L                      | 198             |
| M                      | 93.5            |
| N                      | 104.5           |
| P                      | 74.5            |
| Q                      | 93.5            |
| R                      | 36.5            |
| S                      | 30              |
| T                      | 168             |
| W                      | 1/4" GAS        |
| Ch                     | 27              |
| Ancillaries Attachment | AA2             |

**Spring return Actuators Normally Closed (N.C.) - Output Torque related to rotation angle , in Nm (0° valve closed 90° valve open)**

| Spring Torque | Air pressure supply in bar |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|---------------|----------------------------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
|               | 0°                         |       |       | 2,4   |      |       | 2,8   |       |       | 3     |       |       | 3,5   |       |       | 4,2   |       |       | 5     |       |       | 5,6   |       |       | 6     |       |       | 7     |       |       | 8     |       |       |  |
|               | 0°                         | 50°   | 90°   | 0°    | 50°  | 90°   | 0°    | 50°   | 90°   | 0°    | 50°   | 90°   | 0°    | 50°   | 90°   | 0°    | 50°   | 90°   | 0°    | 50°   | 90°   | 0°    | 50°   | 90°   | 0°    | 50°   | 90°   | 0°    | 50°   | 90°   |       |       |       |  |
| 2,8           | 160,0                      | 120,0 | 240,0 | 182,9 | 85,7 | 102,9 | 240,0 | 120,0 | 160,0 | 268,6 | 137,1 | 188,6 | 340,0 | 180,0 | 260,0 | 440,0 | 240,0 | 360,0 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
| 3,5           | 200,0                      | 150,0 | 300,0 |       |      |       |       |       |       | 228,6 | 107,1 | 128,6 | 300,0 | 150,0 | 200,0 | 400,0 | 210,0 | 300,0 | 514,3 | 278,6 | 414,3 | 600,0 | 330,0 | 500,0 |       |       |       |       |       |       |       |       |       |  |
| 4,2           | 240,0                      | 180,0 | 360,0 |       |      |       |       |       |       |       |       |       | 260,0 | 120,0 | 140,0 | 360,0 | 180,0 | 240,0 | 474,3 | 248,6 | 354,3 | 560,0 | 300,0 | 440,0 | 617,1 | 334,3 | 497,1 | 760,0 | 420,0 | 640,0 | 902,9 | 505,7 | 782,9 |  |
| 5,6           | 320,0                      | 240,0 | 480,0 |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       | 394,3 | 188,6 | 234,3 | 480,0 | 240,0 | 320,0 | 537,1 | 274,3 | 377,1 | 680,0 | 360,0 | 520,0 | 822,9 | 445,7 | 662,9 |  |

**Technical Data**

| Max Pressure | ** Min Pressure | Rotation        | Stroke Adjustment | Screw Stroke Adjustment             | *Moving time (sec.) |         | Operating temperature (°C)   |
|--------------|-----------------|-----------------|-------------------|-------------------------------------|---------------------|---------|--|
|              |                 |                 |                   |                                     | Opening             | Closing |  |
| 8.4 bar      | 2.4 bar         | 92°<br>-1° +91° | 10 °              | For 1° drive<br>Need 1/2 turn screw | 1.8                 | 2       | Standard -20°C +80°C<br>High temperature -20°C +150°C<br>Low temperature -50°C +60°C |

| Weight Kg | Chamber ø (mm) | Air volume L/cycle | Maximum flange torque values  | Spring return Actuator with spring force 2.8 , is manufactured with only one spring cap and normal end cap (available only in standard version). | A1    | Weight Kg |
|-----------|----------------|--------------------|-------------------------------|--|-------|-----------|
| 22.7      | 125            | 2.8                | F10 = 500 Nm<br>F12 = 1000 Nm |  | 563.8 | 19.3      |

\*The moving time could vary on different operating and installation factors.

\*\*Attention: for "High Temperature" and "Low Temperature" version, the Min Pressure is 3.5 bar.

**Operating Medium**

The operating medium shall have a dew point equal to -20 °C or, to be at least, 10 °C below the ambient temperature (ISO 8573-1, Class 3).  
The maximum particle size shall not exceed 40 µm (ISO 8573-1, Class 5).