Wafer ball valves Stainless steel

Nominal diameter options (DN) 15-100
Nominal pressure options (PN) 16-40
Maximum working temperature 180°C

APPLICATIONS:
Chemical products, food plants, distribution lines for gas, air, water.
Suitable for average vacuum, steam up to 200°C with PTFE+CARBOGRAPHITE SEATS. Silicone free.

FEATURES:
• CONSTRUCTION: AISI 316 (body from casting)
  AISI 316L (body from bar)**
  AISI 304.
• CERTIFICATION:
  Fire safe according to BS 6755 – API 6 FA – API 607
  DVGW for gas (-20°C + 60°C) PN16, TÜV for TA Luft (only PTFE).
• PRESSURES:
  PN16/40 DN15 - DN100 body from BAR
  PN16 DN40 - DN100 body from CASTING.
• TEMPERATURE LIMITS:
  -20°C / +180°C (PTFE).
• CONNECTIONS with flanges:
  UNI-EN 1092 and DIN2501 BL.1.
• FLANGE DRILLING: metric.
• STEM:
  Anti blow out with anti-static device.
• ANTISTATIC DEVICE:
  starting from DN25 (upon request DN15-DN20).
• SEAL:
  triple patented stem-packing with labyrinth effect and automatic adjustment by washers.
• UPPER CONNECTION:
  ISO 5211.
• OPERATOR:
  lever.

* Ball valve can be equipped with hydraulic, pneumatic or electric actuator. Ask more from Econosto Oy.
**ADDITIONAL INFORMATION**

- **PTFE+15% GLASS FIBRE:** -20°C + 190°C.
- **PTFE + CARBOGRAPHITE:** +200°C (optimum from 60°C to 200°C).
- **Peek for high temperatures up to +260°C.** (optimum condition from 100°C to 260°C).
- **PTFE with metal core** (on request).
- **Integral seal in PTFE DN15 – DN100 from bar.**
- **PN40 (DN40 – DN100)** (from bar).
- **PLAIN AND THROUGH DRILLED FLANGE DRILLING.**
- **Reduction gears with manual operator.**
- **Heating jacket** (see series MOON CR).
- **Ball drilling.**
- **Degreased for oxygen service.**
- **Body – ring nut – stem – ball made of AISI316L.**
- **Bottom valve (tie-rods are also supplied).**
- **For further special requests please consult us**
- **PN64.**

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**TECHNICAL INFORMATION**

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For DN 125 to DN 200 see “SELENE” split body wafer valve
TECHNICAL INFORMATION

Wafer ball valves - stainless steel
SERIE 03

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www.econosto.fi

FLANGE DRILLINGS ANSI 150

<table>
<thead>
<tr>
<th>SIZE</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<tbody>
<tr>
<td>DN15</td>
<td>M12</td>
<td>16</td>
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</tr>
<tr>
<td>DN20</td>
<td>M12</td>
<td>16</td>
<td>0</td>
</tr>
<tr>
<td>DN25</td>
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<td>0</td>
</tr>
<tr>
<td>DN32</td>
<td>M16</td>
<td>18</td>
<td>0</td>
</tr>
<tr>
<td>DN40</td>
<td>M16</td>
<td>18</td>
<td>10</td>
</tr>
<tr>
<td>DN50</td>
<td>M16</td>
<td>18</td>
<td>15</td>
</tr>
<tr>
<td>DN65</td>
<td>M16</td>
<td>20</td>
<td>15</td>
</tr>
<tr>
<td>DN80</td>
<td>M16</td>
<td>24</td>
<td>17</td>
</tr>
<tr>
<td>DN100</td>
<td>M20</td>
<td>24</td>
<td>17</td>
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</table>

The values in Nm may vary as a function of the seal material, temperature and type of medium. For a firm operation of the various types of actuators, in the different working conditions it is necessary to consider a safety factor of 1.5. During operation, with frequent open and close cycles, the operating torque can decrease considerably in comparison with the initial breakaway torque.

BREAKAWAY TORQUES in Nm

<table>
<thead>
<tr>
<th>PN - bar</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>32</th>
<th>40</th>
<th>50</th>
<th>65</th>
<th>80</th>
<th>100</th>
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<tr>
<td></td>
<td>4</td>
<td>7</td>
<td>10</td>
<td>16</td>
<td>25</td>
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<td>150</td>
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<td>4</td>
<td>8</td>
<td>11</td>
<td>19</td>
<td>28</td>
<td>39</td>
<td>59</td>
<td>84.5</td>
<td>168</td>
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<tr>
<td>25</td>
<td>5.2</td>
<td>9.1</td>
<td>12</td>
<td>20.5</td>
<td>29.5</td>
<td>41.5</td>
<td>62.5</td>
<td>92</td>
<td>180</td>
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<tr>
<td>40</td>
<td>6</td>
<td>10.5</td>
<td>13</td>
<td>22.5</td>
<td>31.5</td>
<td>44</td>
<td>67</td>
<td>99</td>
<td>195</td>
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</tbody>
</table>

PRESSURE/TEMPERATURE DIAGRAM
At each pressure level corresponds the admissible temperature level.

LOSS OF HEAD DIAGRAM/FLOW RATE
The Kv value is the flow rate causing a pressure drop of 1 bar.