Ball check valves - Type 11133

Flanged and threaded type

Features:
- Maximum working pressure 16 bar up to DN200, bigger sizes 10 bar.
- Valid for installation between PN10 or PN16 flanges or BSP thread.
- Temperature from -10ºC to +80ºC
- Minimum differential pressure to ensure water tightness 0.5 bar.
- Full bore.
- Easy maintenance.
- Anti-corrosion epoxy coating.

Operation:
- Operation is based on a free ball housed inside the body which is pushed by the pumped flow to the side cavity, allowing the liquid to pass through. When the pump stops and the ball is no longer pushed aside, it takes up a position in the inlet port and prevents flow return.

Ball check valve specially designed for pumping waste water.
It can also be used with clean water because of its low headloss.

Pressure drop:

Internal ball types:
- Ball check valves may also be supplied with balls of lower weight depending on particular requirements.
- Floating balls may be supplied on request for the following models to work as a dual-purpose vent (air admission and discharge):
  - Flanged type: ND 80 to ND 200
  - Threaded type: ND 40 to ND 65

Installation:
- May be fitted horizontally or vertically.
  - Horizontal flow
    Valves to be installed with cover at the top, as figure 1
  - Vertical flow upwards
    Valves to be installed as figure 2
  - Floating ball-check valves
    Ball check valves can be fitted as an air valve (vertically installed) or to prevent used water from flowing back. In this case, valves can be installed in either horizontal or vertical pipes, but they must always be fitted as shown in figure 3 for upward vertical flow and according to figure 4 for horizontal flow.
### Flanged type

#### Materials and dimensions

**DN ISO 2531 PN-10**

<table>
<thead>
<tr>
<th>DN</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>E</th>
<th>KvE m^3/h</th>
<th>Weight Kg</th>
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</table>

*Valves without bonnet. Drawing upon request.*

#### Threaded type

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<th>KvE m^3/h</th>
<th>Weight Kg</th>
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