Description:
- full passageway
- face-to-face length acc. to EN3202, series 27 (short face-to-face length)
- 1-pcs. body construction
- mounting flange acc. to ISO5211 for direct mounting
- flange acc. to EN1092-1 - PN16
- steel hand lever
- blow out safe, spindle mounted from inside
- TA-Luft
- any installation position

Range of application:
- standard length enables easy replacement in existing plants
- working pressure PN16
  (see pressure-temperature-diagram)
- temperature range:
  -20°C up to +120°C, with NBR o-ring
  -20°C up to +160°C with FKM o-ring
  (see pressure temperature diagram)
- pneumatic or electric automatable
- vacuum: max. 10⁻³ torr.

Comments:
Blow out protection: Better protection against unintended disengagement of the spindle and the sealing by a blow out protection. No accidental damage possible from outside.

A type for oxygen is available on request. On request a sealing for the spindle made of FKM is also available.

<table>
<thead>
<tr>
<th>pos.</th>
<th>part</th>
<th>material (standard)</th>
<th>options</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>body</td>
<td>EN-JL 250 (GG25)</td>
<td>L</td>
</tr>
<tr>
<td>2</td>
<td>screw-in part</td>
<td>steel</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>body sealing</td>
<td>NBR</td>
<td>P</td>
</tr>
<tr>
<td>3</td>
<td>ball</td>
<td>stainless steel</td>
<td>T</td>
</tr>
<tr>
<td>4</td>
<td>seat sealing</td>
<td>PTFE</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>spindle</td>
<td>1.4301</td>
<td>T</td>
</tr>
<tr>
<td>9</td>
<td>thrust ring</td>
<td>PTFE</td>
<td>FKM</td>
</tr>
<tr>
<td>10</td>
<td>packing for spindle</td>
<td>PTFE</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>o-ring</td>
<td>NBR</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>hand lever</td>
<td>steel</td>
<td></td>
</tr>
</tbody>
</table>

For details about the order code see "Order information". An overview of the complete material code you can find at the beginning of each product section of the product catalogue.

options:
- DB: through hole
- ZG: certificate 2.2
NFA13 GREY CAST IRON BALL VALVE WITH FLANGES IN DIN FACE-TO-FACE LENGTH, AUTOMATABLE

<table>
<thead>
<tr>
<th>match code</th>
<th>size</th>
<th>nominal pressure</th>
<th>nominal size</th>
<th>L [mm]</th>
<th>H [mm]</th>
<th>B [mm]</th>
<th>CV value** [m³/h]</th>
<th>weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFA13-54-1LTPT</td>
<td>DN25</td>
<td>PN16</td>
<td>25</td>
<td>125</td>
<td>79</td>
<td>174</td>
<td>43</td>
<td>3,1</td>
</tr>
<tr>
<td>NFA13-55-1LTPT</td>
<td>DN32</td>
<td>PN16</td>
<td>32</td>
<td>130</td>
<td>85</td>
<td>174</td>
<td>89</td>
<td>4,8</td>
</tr>
<tr>
<td>NFA13-56-1LTPT</td>
<td>DN40</td>
<td>PN16</td>
<td>40</td>
<td>140</td>
<td>103</td>
<td>250</td>
<td>230</td>
<td>6,1</td>
</tr>
<tr>
<td>NFA13-57-1LTPT</td>
<td>DN50</td>
<td>PN16</td>
<td>50</td>
<td>150</td>
<td>110</td>
<td>250</td>
<td>265</td>
<td>7,8</td>
</tr>
<tr>
<td>NFA13-58-1LTPT</td>
<td>DN65</td>
<td>PN16</td>
<td>65</td>
<td>170</td>
<td>126</td>
<td>321</td>
<td>540</td>
<td>11,4</td>
</tr>
<tr>
<td>NFA13-59-1LTPT</td>
<td>DN80</td>
<td>PN16</td>
<td>80</td>
<td>180</td>
<td>137</td>
<td>321</td>
<td>873</td>
<td>14,1</td>
</tr>
<tr>
<td>NFA13-60-1LTPT</td>
<td>DN100</td>
<td>PN16</td>
<td>100</td>
<td>190</td>
<td>158</td>
<td>381</td>
<td>1390</td>
<td>20,0</td>
</tr>
<tr>
<td>NFA13-61-1LTPT</td>
<td>DN125</td>
<td>PN16</td>
<td>125</td>
<td>200</td>
<td>180</td>
<td>381</td>
<td>1707</td>
<td>30,0</td>
</tr>
<tr>
<td>NFA13-62-1LTPT</td>
<td>DN150</td>
<td>PN16</td>
<td>150</td>
<td>210</td>
<td>265</td>
<td>700</td>
<td>2024</td>
<td>44,5</td>
</tr>
<tr>
<td>NFA13-63-1LTPT</td>
<td>DN200</td>
<td>PN16</td>
<td>200</td>
<td>400</td>
<td>308</td>
<td>700</td>
<td>2720</td>
<td>103,0</td>
</tr>
</tbody>
</table>

**CV value:** The nominal flow rate CVs acc. to VDI/VDE 2173 shows the water quantity in cubic meter per hour with the valve fully opened, $\Delta p=1$ and the water temperature between 5°C and 30°C.

Pressure temperature diagram

The pressure temperature diagram shows the max. permissible working pressure in relation of the media temperature.

For the actuated units the actuator limits the permissible pressure range to the operating pressure as indicated above, as long as this is lower than the pressure range of the ball valve.

If your application has strong temperature variations, you may need additional options like a relief well, to meet the figures. Please tell us you temperature variations with your order.

Order information:
1: type: NFA13
3: connection size: 52-60 (see table)

4: materials:
- 1. digit: body material
  - L = grey cast iron
- 2. digit: sealing for spindle
  - T = PTFE
- 3. digit: ball material
  - P = stainless steel
- 4. digit: seat sealing
  - T = PTFE

5: options (see "options")

Please ask for field specifications that are not listed in this data sheet.

Before installation please consider the installation and maintenance manual, especially the safety indications!
DNFA13 / SNFA13

High quality pneumatic actuator made of alloy with air connection according to NAMUR and positioning indicator. The actuator works with the rack/bevel method. For further details see the technical data sheet "DR/SC".

Types double acting (the actuator opens and closes with compressed air) and single acting (the actuator opens with compressed air and closes with spring pressure).

The actuators are configured for use with fluid, gas and antifriction medium. For critical media it is strictly recommended to inform us!

Description:

- working pressure: 0 - 16 bar
- medium temperature: -20°C up to +120°C
- pilot pressure: 6 - 8 bar
- (at max. ambient temperature 40°C)

**Attention!**

To avoid corrosion inside the spring chamber for single acting actuators caused by aggressive ambient air we recommend pilot valves with integrated air recirculation.

**ENFA13**

High-quality electric actuator in compact design with a body made of high-strength plastics. It has a high-performance motor and a gear drive made of metal. A central control room heater and an electronic torque limiter are equipped as standard. For further details see the technical data sheet "J".

**Description:**

- working pressure: 0 - 16 bar
- deviating medium temperature: -20°C up to +100°C (at max. ambient temperature 40°C)

**connection voltage type:**

- 19: 24V AC/DC up to 240V AC/DC
- other voltages on request