Description:
- 2-way flanged ball valve in steel and stainless steel design
- compact construction
- full passageway
- flange acc. to EN1092-1 / PN40 and PN16
- top flange acc. to EN ISO 5211
- antistatic device starting from DN40
- blow out safe, spindle mounted from inside
- stainless steel: starting from DN32 made of cast iron
- with stainless steel hand lever
- any installation position

Range of application:
- 1-piece flanged ball valve for industrial applications
- space-saving installation by compact construction
- top flange for direct actuator mounting
- pneumatic and electric automatable
- working pressure PN16 - PN40 (see pressure-temperature-diagram)
- temperature range: -20°C up to +180°C (see pressure temperature diagram)

Comments
Optionally we can supply the stainless steel design starting from DN32 made of solid material. All types are also available with flanges acc. to ANSI150 and ANSI300.

Between sizes DN15 and DN32 the ball valves have an antistatic device.

<table>
<thead>
<tr>
<th>pos.</th>
<th>part</th>
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<th>standard ST</th>
<th>optional material</th>
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<td>PTFE-fibre glass reinforced*</td>
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<td>seat sealing</td>
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<td>St 37 coated</td>
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<td>1.4310</td>
<td>50CrV4</td>
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<td>1.4305</td>
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<td>spindle</td>
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<td>1.4401 / 1.4408</td>
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<td>up to DN25: 1.4401</td>
<td>from DN32: 1.4408</td>
<td>A 105</td>
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<td>17</td>
<td>body</td>
<td>up to DN25: 1.4401</td>
<td>from DN32: 1.4408</td>
<td>J</td>
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</tbody>
</table>

*higher temperature resistance with other seat sealing:
- PTFE fibre-glass reinforced: -10°C up to +195°C medium temperature
- PTFE graphite/|carbon: -10°C up to +210°C medium temperature

options:
- SV: spindle extension
- SP: gland extension
- EB: relief well
- OF: free of oil and grease
- SF: free of silicone
- EX: ATEX certificate
- ZG: certificate 3.1
- HZ: heating jacket
- TD: minimal clearance volume with half shells
- FW: free spindle

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.

For pneumatic actuated valves only:
- SD: sound absorber
- AD: exhaust air regulator
- PV: pilot valve For details see data sheet "GMV3197", "GMV3163" (3/2 way) and "MVA01" (5/2 way). Other types on request.
- PS: positioning indicator
For details see data sheet "MCM2" (mechanical), "MCN2" (inductive, with ATEX 94/9/EC) and "MCS2" (inductive). Other types on request.

For electric actuated valves only:
- AP: accumulator security pack
- PT: potentiometer
- PO: positioning system
**2-WAY FLANGED BALL VALVE, MANUALLY OPERATED AND AUTOMATED**

**Type:** KFA19

**Errors and changes excepted. Revision: 07/2020-006**

**Strong Basis. Individual Solutions.**

### System Valves

<table>
<thead>
<tr>
<th>match code</th>
<th>size [inch]</th>
<th>nominal pressure</th>
<th>nominal size [mm]</th>
<th>L [mm]</th>
<th>H [mm]</th>
<th>B [mm]</th>
<th>CV* [m³/h]</th>
<th>breakaway torque** [Nm]</th>
<th>weight [kg]</th>
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</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.

**Breakaway torque:** all data is determined with water at max $\Delta p$ and normal ambient temperature. Multiplier for frictional media is 1.3. If your configuration has special sealing material or your application has critical media consultation is obligatory.

**Pressure temperature diagram**

The pressure temperature diagram refers to the ball valve of this type. 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 your temperature variations with your order.

**Order information:**

1. automation:
   - no specification: manually operated
   - D: pneumatic double acting
   - S: pneumatic single acting
   - E: electric actuated

2. type: KFA19

3. connection size:
   - 52-60 (DIN, see table)
   - 82-90 (ANSI, on request)

4. materials:
   - 1. digit: body material
     - O = stainless steel
     - J = steel
   - 2. digit: sealing for spindle
     - T = PTFE
   - 3. digit: ball material
     - O = stainless steel
   - 4. digit: seat sealing
     - T = PTFE

5. actuator:
   - no specification: steel hand lever
   - automated: see column "actuator"

6. 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!
DKFA19 / SKFA19

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
- pilot pressure: 6 - 8 bar
- medium temperature: -20°C up to +120°C (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.
EKFA19
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 of 40°C)

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

<table>
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<tr>
<th>match code</th>
<th>actuator</th>
<th>H [mm]</th>
<th>B [mm]</th>
<th>D [mm]</th>
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</table>

actuator of type J... (up to DN125) actuator of type CH... (starting from DN150)