Description:

- multiple-way block ball valve in compact block design
- flanges acc. to EN1092-1 (PN16)
- female thread acc. to EN 10226
- welding ends
- top flange acc. to ISO 5211
- full passageway
- 4 seat sealing
- double ball bearing
- hand lever with lock device

Range of application:

- applicable as a 3-way or 4-way valve
- L-, T- or X-bore
- top flange for direct actuator mounting
- The multipart design enables you to dismount the center part of the body in-line.
- temperature range: -20°C up to +150°C

Comments:

The ball valve is available with different types of connection:

- flange acc. to DIN (standard) and ANSI, also available in PN40
- thread acc. to IS07/1
- welding ends
- extended welding ends
- clamp connection

L-bore / T-bore / X-bore: Different switch positions are possible, please specify with your order. The ball position is marked on the spindle!

T=T-bore, L=L-bore, X=X-bore, A=automation

pos. part standard VA optional material
--- --- --- ---
1 body 1.4408 0 -
2 end cap 1.4408 - -
3 body sealing 1.4401 PTFE -
4 ball 1.4401 - -
5 seat sealing 1.4401 PTFE 0 -
6 spindle 1.4401 T - -
7 thrust ring 1.4301 PTFE - -
8 o-ring 1.4301 T - -
9 sealing for spindle 1.4301 + plastics - -
10 gland - - - -
11 hand lever (not illustrated) - - - -

options:

- OS: orbital welding ends
- NPT: thread connection acc. to NPT
- ZG: certificate / approval
- ASL: extended welding ends
- EB: relief well
- SF: free of silicone

For electric actuated valves only:

- AP: accumulator security pack
- PT: potentiometer
- PO: positioning system

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.
## Multiple-Way Block Ball Valve with Different Connection Types

**Type:** BFX01

---

Errors and changes excepted. Revision: 07/2020-004

Strong Basis. Individual Solutions.

### System Valves

### BFX01 - Multiple-Way Block Ball Valve with Different Connection Types

#### Match Code

<table>
<thead>
<tr>
<th>Size</th>
<th>Nominal Pressure</th>
<th>L [mm]</th>
<th>H [mm]</th>
<th>E* [mm]</th>
<th>B [mm]</th>
<th>ISO SW** [mm]</th>
<th>S [mm]</th>
<th>Breakaway Torque*** [Nm]</th>
<th>Weight [kg]</th>
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<td>DN15</td>
<td>PN16 15</td>
<td>160</td>
<td>80</td>
<td>130</td>
<td>F03 / F04</td>
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<td>11</td>
<td>12.8</td>
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<td>82</td>
<td>165</td>
<td>F04 / F05</td>
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<td>14</td>
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<td>98</td>
<td>205</td>
<td>F05 / F07</td>
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<td>217</td>
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<td>25</td>
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<td>59.8</td>
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</tbody>
</table>

---

### Design with Flange Connection:

- BFX01-52-1OTOT
  - DN15
  - PN16
  - ISO SW**
  - 160
  - 80
  - 130
  - F03 / F04
  - 9
  - 11
  - 12.8
  - 4.3

- BFX01-53-1OTOT
  - DN20
  - PN16
  - ISO SW**
  - 177
  - 82
  - 165
  - F04 / F05
  - 11
  - 14
  - 15.4
  - 5.6

---

### Design with Thread Connection or Welding Ends:

- BFX01-xxOTOT
  - DN8
  - PN40
  - ISO SW**
  - 88
  - 62
  - 44
  - F03 / F04
  - 9
  - 11
  - n/a
  - 2.1

---

### Order Information:

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

2. **Type (Indicate Switch Position!):**
   - BFX01 with L-, T- or X-bore

3. **Connection Size:**
   - 52 60 (DIN, see table)
   - 82-90 (ANSI, on request)
   - attached is the flange pressure: PN16: 1 / PN40: 3
   - 02-12 (thread connection)
   - 20-30 (welding ends)

4. **Materials:**
   - 1. digit: body material (stainless steel)
   - 2. digit: sealing for spindle (PTFE)
   - 3. digit: ball material (stainless steel)
   - 4. digit: seat sealing (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!
BFX01 MULTIPLE-WAY BLOCK BALL VALVE WITH DIFFERENT CONNECTION TYPES

DBFX01 / SBFX01

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: design with flange connection: 0 - 16bar
  design with thread connection or welding ends: 0 - 40bar
- pilot pressure: 6 - 8 bar
- deviating medium temperature -20°C up to +120°C (at max. ambient temperature of 40°C)

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<th>single acting: SBFX01</th>
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</table>

Automation of the sizes 1/4" / DN8 and 3/8" / DN10 on request (design with thread connections or welding ends)

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.

Errors and changes excepted. Revision: 07/2020-004

Strong Basis. Individual Solutions.
**BFX01**

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:  
  - design with flange connection: 0 - 16bar  
  - design with thread connection or welding ends: 0 - 40bar  
- deviating medium temperature -20°C up to +100°C (at max. ambient temperature of 40°C)

### match code | actuator | H [mm] | B [mm] | D [mm] | weight [kg]
--- | --- | --- | --- | --- | ---
**design with flange connection**
EBFX01-52-1OTOT- | J420 | 240 | 177 | 110 | 5.9 |
EBFX01-53-1OTOT- | J420 | 248 | 177 | 110 | 7.3 |
EBFX01-54-1OTOT- | J435 | 286 | 177 | 110 | 9.2 |
EBFX01-55-1OTOT- | J455 | 319 | 177 | 110 | 13.4 |
EBFX01-56-1OTOT- | J485 | 330 | 177 | 110 | 17.7 |
EBFX01-57-1OTOT- | J485 | 289 | 177 | 110 | 26.3 |
EBFX01-58-1OTOT- | J2140 | 383 | 235 | 214 | 34.1 |
EBFX01-59-1OTOT- | J2140 | 401 | 235 | 214 | 41.8 |
EBFX01-60-1OTOT- | J2300 | 421 | 235 | 214 | 65 |
**design with thread connections**
EBFX01-04OTOT- | J420 | 190 | 177 | 110 | 3.5 |
EBFX01-05OTOT- | J420 | 198 | 177 | 110 | 4.1 |
EBFX01-06OTOT- | J455 | 251 | 177 | 110 | 6.1 |
EBFX01-07OTOT- | J455 | 259 | 177 | 110 | 7.9 |
EBFX01-08OTOT- | J485 | 270 | 177 | 110 | 11.8 |
EBFX01-09OTOT- | J2140 | 357 | 235 | 214 | 20.5 |
EBFX01-10OTOT- | J2300 | 383 | 235 | 214 | 26 |
EBFX01-11OTOT- | J2300 | 401 | 235 | 214 | 32.2 |
EBFX01-12OTOT- | J2300 | 421 | 235 | 214 | 54.2 |
**design with welding ends**
xEBFX01-12OTOT- | J420 | 190 | 177 | 110 | 3.5 |
xEBFX01-13OTOT- | J420 | 198 | 177 | 110 | 4.1 |
xEBFX01-24OTOT- | J455 | 251 | 177 | 110 | 6.1 |
xEBFX01-25OTOT- | J455 | 259 | 177 | 110 | 7.9 |
xEBFX01-26OTOT- | J485 | 270 | 177 | 110 | 11.8 |
xEBFX01-27OTOT- | J2140 | 357 | 235 | 214 | 20.5 |
xEBFX01-28OTOT- | J2300 | 383 | 235 | 214 | 26 |
xEBFX01-29OTOT- | J2300 | 401 | 235 | 214 | 32.2 |
xEBFX01-30OTOT- | J2300 | 421 | 235 | 214 | 54.2 |

Automation of the sizes 1/4" / DN8 and 3/8" / DN10 on request (design with thread connections or welding ends)

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