2-WAY BALL VALVE, HEAVY-WEIGHT DESIGN

Description:
- 2-pieces body construction
- heavy-weight design
- full passageway
- NKA04: female thread acc. to EN10226
  NKB04: female-male thread acc. to EN10226
- blow out safe, spindle mounted from inside
- alloy hand lever
- any installation position

Range of application:
- pressure range: PN16 up to PN80
  (see pressure temperature diagram)
- temperature range: -20°C up to +140°C
  (see pressure temperature diagram)
- hot and cold water, compressed air, oils, not corrosive liquids, hydrocarbons

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

Threads according to EN 10226: It describes the threaded connection of a conical male thread (R) with a parallel female thread (Rp).

pos. | part | standard material | optional material |
--- | --- | --- | --- |
1  | body | CW617N nickel plated | E |
2  | connector | CW617N nickel plated | - |
3  | ball | CW614N chromium plated | F |
4  | seat sealing | PTFE | T |
5  | spindle | CW614N | - |
6  | sealing for spindle | PTFE | T |
7  | packing for spindle | PTFE | - |
8  | gland | CW614N | - |
9  | handle | alloy | steel |
10 | self-locking nut | galvanized steel | - |

Notes on the order code, see the end of the data sheet. An overview of the entire material of a key product group, see the catalog at the beginning of each chapter.

options:
- HS: steel hand lever
- FL: butterfly handle
- HP: planetary gear / hand wheel
- SV: spindle extension
- EB: relief well
- SF: free of silicone
- OF: free of oil and grease
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match code | size [inch] | nominal pressure [mm] | L [mm] | H [mm] | B [mm] | thread depth female [mm] | thread depth male [mm] | CV [m³/h] | weight [kg] | NKA04 | NKB04
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
NKx04-02ETFT | 1/4 | PN80 | 10 | 47.5 | 54.5 | 39.5 | 80 | 11 | 9.7 | 5.9 | 0.122 | 0.137
NKx04-03ETFT | 3/8 | PN80 | 10 | 49.5 | 56 | 39.5 | 80 | 11.4 | 10.1 | 9.4 | 0.135 | 0.151
NKx04-04ETFT | 1/2 | PN80 | 15 | 65 | 70.5 | 41.5 | 95 | 15 | 13.2 | 17 | 0.25 | 0.25
NKx04-05ETFT | 3/4 | PN80 | 20 | 73.5 | 79 | 51 | 115 | 16.3 | 14.4 | 41 | 0.38 | 0.399
NKx04-06ETFT | 1 | PN80 | 25 | 86.5 | 91 | 55 | 115 | 19.1 | 16.8 | 70 | 0.612 | 0.617
NKx04-07ETFT | 1 1/4 | PN64 | 32 | 101.5 | 105 | 64.5 | 130 | 21.4 | 19.1 | 121 | 1.01 | 1.035
NKx04-08ETFT | 1 1/2 | PN64 | 40 | 111.5 | 116 | 75.5 | 150 | 21.4 | 19.1 | 200 | 1.579 | 1.44
NKx04-09ETFT | 2 | PN64 | 50 | 132.5 | 139 | 87.5 | 170 | 25.7 | 23.4 | 292 | 2.678 | 2.714
NKx04-10ETFT | 2 1/2 | PN40 | 65 | 158 | - | 108 | 170 | 30.2 | - | 535 | 3.484 | -
NKx04-11ETFT | 3 | PN25 | 80 | 181.5 | - | 119.5 | 235 | 33.3 | - | 850 | 5.634 | -
NKx04-12ETFT | 4 | PN16 | 100 | 219 | - | 142 | 235 | 39.3 | - | 1360 | 10.64 | -

**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, ∆p=1 and the water temperature between 5°C and 30°C.

Pressure temperature diagram

The pressure temperature diagram refers to the ball valve of this type. 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. type:
   - NKA04 (female thread)
   - NKB04 (female-male thread)

2. connection size: 02-12 (see table)

3. materials:
   - 1. digit: body material (brass nickel plated)
   - 2. digit: sealing for spindle (PTFE)
   - 3. digit: ball material (brass chromium-plated)
   - 4. digit: seat sealing (PTFE)

4. 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!