

## 3-WAY BALL VALVE (UNDERFLOW), WITH MOUNTING FLANGE FOR AUTOMATION

**Description:**

- distribution valve
- 2-pieces body construction
- full passageway
- 2 seat sealing
- NKC76: L-bore or  
NKD76: T-bore
- female thread acc. to EN 10226
- blow out safe, spindle mounted from inside
- top flange acc. to EN ISO 5211 (up to 2")
- any installation position

**Range of application:**

- with mounting flange acc. to DIN ISO 5211 for direct mounting
- working pressure PN25 up to PN06 (see pressure temperature diagram)
- temperature range: -15°C up to +120°C (see pressure temperature diagram)
- hot and cold water, compressed air, oils, not corrosive liquids, hydrocarbon

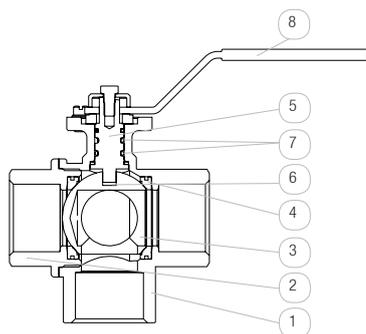
**Comments:**

On request the ball valve can be automated electrically or pneumatically. Please note that the rotation for NKC76 / NKD76 is 180°.

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).

**L-bore/T-bore:** The ball valve can be delivered with L-bore (NKC76) and T-bore (NKD76).

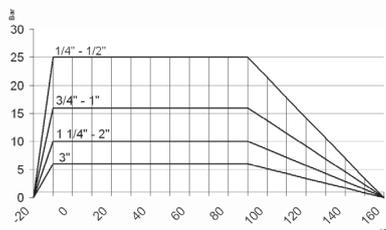


pos.	part	standard material		optional material
1	body	CW617N nickel plated	E	-
2	connector	CW617N nickel plated		-
3	ball	CW617N chromium-plated	F	-
4	seat sealing	PTFE	T	-
5	spindle	CW614N nickel plated		-
6	anti-friction ring	PTFE		-
7	o-ring	FKM	V	-
8	hand lever	steel		-

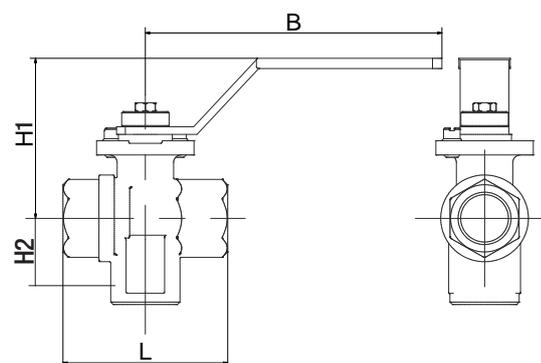
For details about the order code see "Order information". An overview of the complete material code you can find at the beginning of each product section of the product catalogue.

**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.



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match code	size [inch]	no- minal pres- sure	no- minal size [mm]	L [mm]	H1 [mm]	H2 [mm]	thread depth [mm]	F [mm]	SW* [mm]	S [mm]	CV** [m³/h]	weight [kg]	
												NKC76	NKD76
NKx76-02EVFT	1/4	PN25	8	52	60	26	11	F03	9	9	1.5	0.34	0.33
NKx76-03EVFT	3/8	PN25	10	52	60	26	11.4	F03	9	9	1.8	0.28	0.27
NKx76-04EVFT	1/2	PN25	15	64	62	33.5	15	F03	9	9	3.9	0.41	0.39
NKx76-05EVFT	3/4	PN16	20	74	73	39.5	16.3	F03	9	9	7.9	0.6	0.56
NKx76-06EVFT	1	PN16	25	89	76	47	19.1	F03	9	9	13	0.94	0.88
NKx76-07EVFT	1 1/4	PN10	32	100	79.5	54.5	21.4	F03	9	9	20.7	1.27	1.15
NKx76-08EVFT	1 1/2	PN10	40	110	95	61.5	21.4	F05	11	11	38.7	2	1.8
NKx76-09EVFT	2	PN10	50	130	101	73	25.7	F05	11	11	54	3.16	2.65
NKx76-11EVFT****	3	PN6	80	197	152	106	33.3	-	-	-	145.7	9.5	9.01

\* Spindle as square (standard).

\*\*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.

\*\*\*\* Body only available without flange for actuation.

[X]	NKx76	[XX]	EVFT	[X]	[XX]
1	2	3	4	5	6

#### Order information:

##### 1: automation:

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

##### 2: type:

- NKC76 (L-bore)
- NKD76 (T-bore)

##### 3: connection size: 02-11 (see table)

##### 4: materials:

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

##### 5: actuator:

- no specification: steel hand lever
- automation on request (180° - actuator)

##### 6: options: none

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!