**Description:**

- 2-pieces body construction
- light-weight design
- full passageway
- female thread acc. to EN 10226
- blow out safe, spindle mounted from inside
- top flange acc. to EN ISO 5211
- any installation position

**Range of application:**

- light-weight design for a variety of industrial applications
- with mounting flange acc. to DIN ISO 5211 for direct mounting
- very low torque allow an economical actuator design
- working pressure PN40 up to PN16 (see pressure temperature diagram)
- temperature range: -20°C up to +130°C (see pressure temperature diagram)
- hot and cold water, compressed air, oils, not corrosive liquids, hydrocarbon

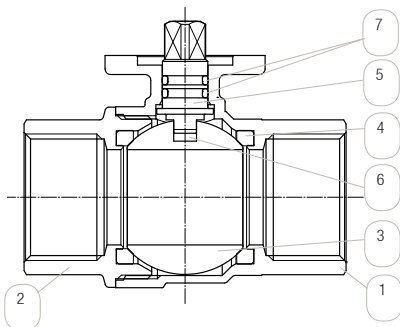
**Comments:**

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).**

More threaded connections are available on request:

- parallel thread "G" acc. to ISO 228
- threads acc. to NPT or BSPT



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	anti-friction ring	PTFE		-
7	o-ring	HNBR	H	-

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:**

- SV: spindle extension
- EB: relief well
- OF: free of oil and grease
- SF: free of silicone

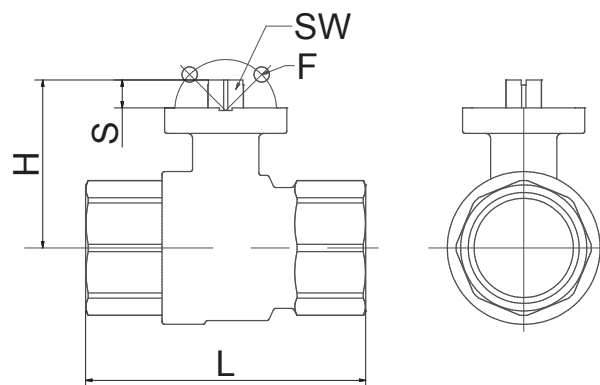
**For electric actuated valves only:**

- 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.

## 2-WAY BALL VALVE WITH MOUNTING FLANGE FOR AUTOMATION

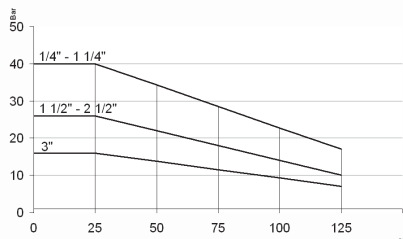


match code	size [inch]	no-minal pressure	no-minal size [mm]	L [mm]	H [mm]	F	thread depth [mm]	SW* [mm]	S [mm]	CV value** [m3/h]	breakaway torque*** [Nm]	weight [kg]
NKA27-02EHFT	1/4	PN40	10	61	29.4	F03	15	9	9	5.9	3.2	n/a
NKA27-03EHFT	3/8	PN40	10	61	29.4	F03	15	9	9	9.4	3.2	n/a
NKA27-04EHFT	1/2	PN40	15	61	29.4	F03	15	9	9	17	3.2	0.22
NKA27-05EHFT	3/4	PN40	20	69.5	33	F03	16.3	9	9	41	4.8	0.32
NKA27-06EHFT	1	PN25	25	84.5	37.2	F03	19.1	9	9	70	6.8	0.54
NKA27-07EHFT	1 1/4	PN25	32	98.5	47.5	F04	21.4	11	11	121	8.2	0.87
NKA27-08EHFT	1 1/2	PN25	40	110	53	F04	21.4	11	11	200	10.5	1.16
NKA27-09EHFT	2	PN25	48	130	64	F04	25.7	11	11	292	13	1.99
NKA27-10EHFT	2 1/2	PN25	61	158.5	82.75	F07	30.2	14	14	535	33	3.61
NKA27-11EHFT	3	PN25	78	182	94.5	F07	33.3	14	15.5	850	34	5.92

\*Spindle as square (standard).

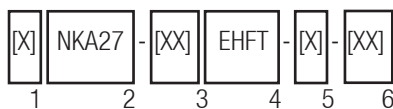
\*\*CV value: The nominal flow rate CVs acc. to VDI/VDE 2173 shows the water quantity in cubic meter per hour with the valve fully opened,  $\Delta p=1$  and the water temperature between 5°C and 30°C.

\*\*\*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 sealina 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: free spindle
- D: pneumatic double acting
- S: pneumatic single acting
- E: electric actuated

##### 5: actuator:

- free spindle: no specification
- automated: see column "actuator"

##### 6: options (see "options")

##### 2: type: NKA27

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

##### 4: materials:

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

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!

## 2-WAY BALL VALVE WITH MOUNTING FLANGE FOR AUTOMATION



## DNKA27 / SNKA27

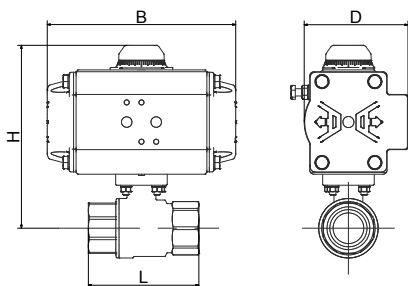
High quality pneumatic actuator made of alloy with air connection according to NAMUR and positioning indicator. The actuator works with the rack/bevel method. For further details see the technical data sheet "DR/SC".

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!

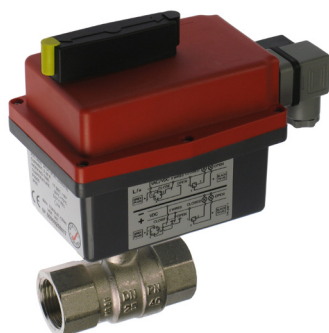
## Description:

- working pressure: 0 - 16 bar
- medium temperature: -20°C up to +100°C (at max. ambient temperature 40°C)
- pilot pressure: 6 - 8 bar



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.

match code	double acting: DNKA27					single acting: SNKA27				
	actuator	H [mm]	B [mm]	D [mm]	weight [kg]	actuator	H [mm]	B [mm]	D [mm]	weight [kg]
xNKA27-02EHFT-	DR010	115.4	118	62	n/a	SC010-K	110.4	118	62	n/a
xNKA27-03EHFT-	DR010	115.4	118	62	n/a	SC010-K	110.4	118	62	n/a
xNKA27-04EHFT-	DR010	115.4	118	62	0.966	SC010-K	110.4	118	62	1.116
xNKA27-05EHFT-	DR010	119	118	62	1.064	SC010-K	114	118	62	1.214
xNKA27-06EHFT-	DR010	123.2	118	62	1.287	SC015-I	126.2	136	72	1.637
xNKA27-07EHFT-	DR010	132.5	118	62	1.62	SC030-G	152.5	153.5	84.5	2.6
xNKA27-08EHFT-	DR010	139	118	62	1.91	SC030-H	158	153.5	84.5	2.86
xNKA27-09EHFT-	DR010	150	118	62	2.74	SC030-I	169	153.5	84.5	3.69
xNKA27-10EHFT-	DR030	187.75	153.5	84.5	5.21	SC060-I	205	203.5	93	6.71
xNKA27-11EHFT-	DR030	199.5	153.3	84.5	7.52	SC060-K	216.5	203.5	93	9

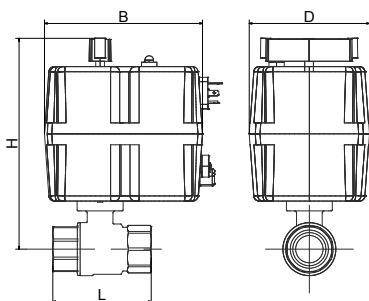


## ENKA27

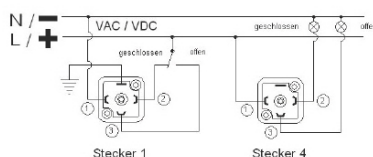
High-quality electric actuator in compact design with a body made of high-strength plastics. It has a high-performance motor and a gear drive made of metal. A central control room heater and an electronic torque limiter are equipped as standard. For further details see the technical data sheet "J".

## Description:

- working pressure: 0 - 16 bar
- medium temperature: -20°C up to +70°C (at max. ambient temperature of 40°C)



AC/DC Beschaltung  
(3 Drähte):



match code	actuator	H [mm]	B [mm]	D [mm]	weight [kg]
ENKA27-02EHFT-	J210-	155.9	169	104	n/a
ENKA27-03EHFT-	J210-	155.9	169	104	n/a
ENKA27-04EHFT-	J210-	155.9	169	104	0.966
ENKA27-05EHFT-	J210-	159.5	169	104	1.064
ENKA27-06EHFT-	J210-	163.7	169	104	1.287
ENKA27-07EHFT-	J320-	196.5	177	110	2.27
ENKA27-08EHFT-	J320-	202	177	110	2.56
ENKA27-09EHFT-	J335-	213	177	110	3.39
ENKA27-10EHFT-	J355-	253.75	177	110	5.31
ENKA27-11EHFT-	J355-	265.5	177	110	7.62

## connection voltage type:

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