

## 2-WAY STAINLESS STEEL BALL VALVE, AUTOMATABLE (HIGH PRESSURE)



Picture: EKA25

**Description:**

- 2-pieces body construction
- high pressure application
- full passageway
- female thread acc. to EN 10226
- blow out safe, spindle mounted from inside
- EKA25: stainless steel hand lever
- EKA15: for automation with top flange acc. to EN ISO 5211
- any installation position

**Range of application:**

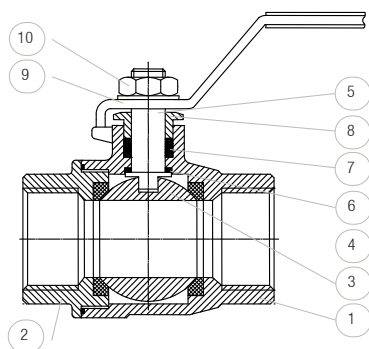
- for high pressure applications up to PN100
- standardized length of body allows easy replacement in existing applications
- working pressure PN100 (see pressure-temperature-diagram)
- temperature range: -10°C up to +200°C (see pressure temperature diagram)

**Comments:**

EKA15/EKA25: The EKA25 is the economical type of EKA15 without mounting flange for manual applications. Optionally the EKA15 is available with free spindle.

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	1.4408	0	-
2	connector	1.4408	-	-
3	ball	1.4401	-	-
4	seat sealing	PTFE	G	-
5	spindle	1.4401	0	-
6	thrust ring	PTFE	-	-
7	packing for spindle	PTFE	T	-
8	gland	1.4301	-	-
9	handle	1.4301 with plastic coating	-	-
10	nut	1.4301	-	-

**options:**

- SV: spindle extension
- EB: relief well
- OF: free of oil and grease
- ZG: certificate 3.1

**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.

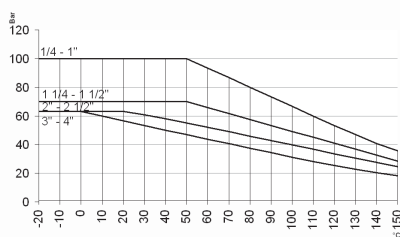
For details about the order code see "Order information". An overview of the complete material code you can find at the beginning of each product section of the product catalogue.

**For electric actuated valves only:**

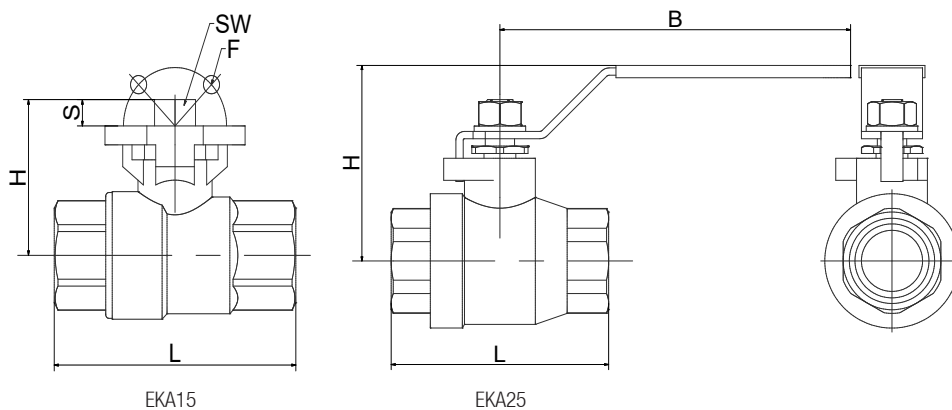
- AP: accumulator security pack
- PT: potentiometer
- PO: positioning system

**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.



## 2-WAY STAINLESS STEEL BALL VALVE, AUTOMATABLE (HIGH PRESSURE)



EKA15

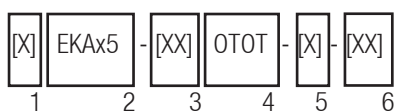
EKA25

match code	size [inch]	nominal pressure	nominal size EKA25 [mm]	CV* [m³/h]	type EKA25 (manually operated)				type EKA15 (free spindle, automatable)							
					L [mm]	H [mm]	B [mm]	weight [kg]	nominal size EKA15 [mm]	L [mm]	H [mm]	F	SW**	S	breakaway torque [Nm]***	weight [kg]
EKAx5-02-OTOT	1/4	PN100	11,6	5.9	55	50	96	0.25	11,6	50	33	F03	9	7	13	0.3
EKAx5-03-OTOT	3/8	PN100	12,7	9.4	60	50	96	0.25	12,7	60	33	F03 / F04	9	7	13	0.3
EKAx5-04-OTOT	1/2	PN100	15	19.4	75	53	96	0.4	15	75	35	F03 / F04	9	7.5	16	0.4
EKAx5-05-OTOT	3/4	PN100	20	45.6	80	64	125	0.5	20	80	41	F04 / F05	11	12	25	0.6
EKAx5-06-OTOT	1	PN100	25	71.5	90	66	125	0.9	25	90	44	F04 / F05	11	12	31	0.8
EKAx5-07-OTOT	1 1/4	PN100	32	105	110	79	170	1.6	31,8	110	51	F04 / F05	11	11.5	53	1.3
EKAx5-08-OTOT	1 1/2	PN100	38	170	120	83	170	2.3	38	120	58	F04 / F05	11	12	76	1.9
EKAx5-09-OTOT	2	PN100	50	275	140	94	190	3.6	50,8	140	68	F05 / F07	14	15.5	99	3.4

\*CV value: The nominal flow rate CVs acc. to VDI/VE 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.

\*\* Spindle as square (standard).

\*\*\*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.

**Order information:****1: automation:**

- no specification: EKA25: manually operated EKA15: free spindle
- D: pneumatic double acting
- S: pneumatic single acting
- E: electric actuated

**2: type:**

- EKA25 (manually operated)
- EKA15 (automated)

**3: connection size: 02-09 (see table)****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: EKA25: stainless steel hand lever EKA15: free spindle
- automated: see column "actuator" (only EKA15)

**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!

## 2-WAY STAINLESS STEEL BALL VALVE, AUTOMATABLE (HIGH PRESSURE)



## DEKA15 / SEKA15

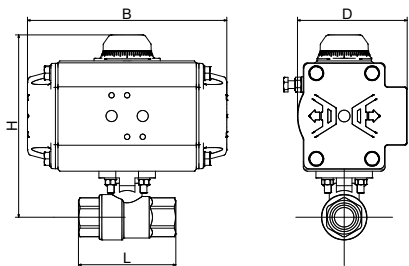
High quality pneumatic actuator made of alloy with air connection according to NAMUR and positioning indicator. The actuator works with the rack/bevel method. For further details see the technical data sheet "DR/SC".

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 - 100 bar
- pilot pressure: 6 - 8 bar
- medium temperature: -20°C up to +100°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.

match code	double acting: DEKA25					single acting: SEKA25				
	actuator	H [mm]	B [mm]	D [mm]	weight [kg]	actuator	H [mm]	B [mm]	D [mm]	weight [kg]
xEKA15-020T0T-	DR015	122	136	72	1.3	SC030-K	138	153.5	84.5	2.0
xEKA15-030T0T-	DR015	122	136	72	1.3	SC030-K	138	153.5	84.5	2.0
xEKA15-040T0T-	DR015	124	136	72	1.4	SC060-G	157	203.5	93	3.5
xEKA15-050T0T-	DR030	146	153.5	84.5	2.2	SC060-J	163	203.5	93	3.7
xEKA15-060T0T-	DR060	166	203.5	93	3.5	SC100-G	179	241	106	5.1
xEKA15-070T0T-	DR060	173	203.5	93	4.0	SC150-I	198	259	118	7.4
xEKA15-080T0T-	DR100	193	241	106	5.6	SC220-H	233	304	136	11.2
xEKA15-090T0T-	DR150	215	259	118	8.6	SC220-K	243	304	136	12.7

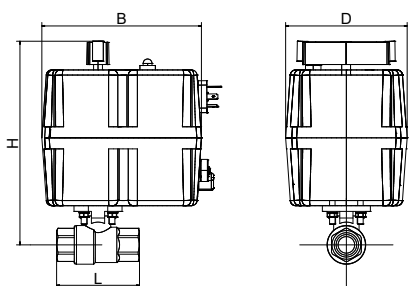
## EEKA15

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".

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



match code	actuator	A [mm]	B [mm]	D [mm]	weight [kg]
EEKA15-020T0T-	J420	182	177	110	1.7
EEKA15-030T0T-	J420	182	177	110	1.7
EEKA15-040T0T-	J420	184	177	110	1.8
EEKA15-050T0T-	J435	212	177	110	2.3
EEKA15-060T0T-	J435	215	177	110	2.5
EEKA15-070T0T-	J455	247	177	110	3.6
EEKA15-080T0T-	J485	254	177	110	4.7
EEKA15-090T0T-	J2140	332	235	214	8.6

## connection voltage type:

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

AC/DC Beschaltung  
(3 Draht):