

ENVALVE KK

motor-driven 2-/3-way ball valves



[Motorized / pneumatic control valves](#) [Fittings](#)

Description

Envalve ball valves are designed to be used to isolate flow. As they are electrically powered, they can be controlled by remote. The ball valves are made from PVC and have been provided with an EPDM gasket to enable them to withstand contact with corrosive substances. 3-Way union ball valves have 3 ports and the possibility for L or T drilling holes. The valves are also available with an EPDM or a Viton® FPM O-ring.

The ball valves are equipped with union nuts and flange sleeves, which are fitted with O-rings, so that they can be easily replaced after installation.

With an electric actuator, the ball valves can be controlled remotely. The ball valves can be equipped with a Basic or Digital actuator. The actuator is supplied as standard for a supply voltage of 24 V AC/DC. Upon request, the actuator can be supplied with a supply voltage of 230 V AC.

A position indicator on the actuator shows whether the ball valve is open or closed when the motor is off. The actuator is equipped with an Allen wrench that allows the ball valve to be manually set to a specific position.

In the case of the Digital actuator, this is also possible via the display and push buttons as long as the system is powered.

In addition to the limit switches for shutting off the actuator in the open/closed positions, the actuator comes standard with two additional position-indicating switches and a heating element, allowing the actuator to be used in outdoor and/or cold-weather applications.

Product Line Overview

- o 2 -way ball valve: suitable for shutting off individual fluid flows
- o 3-way ball valve: suitable for distributing, switching, or mixing two different fluid flows

Functional Levels

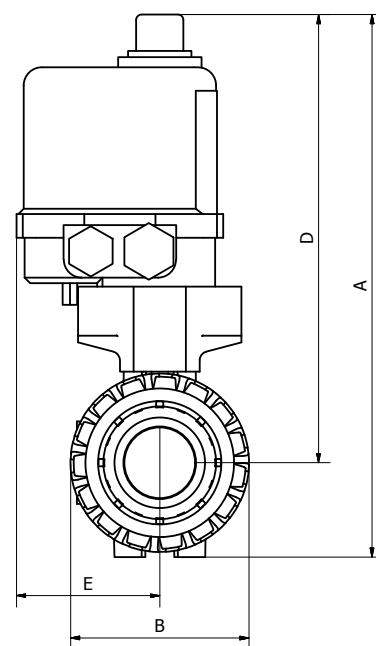
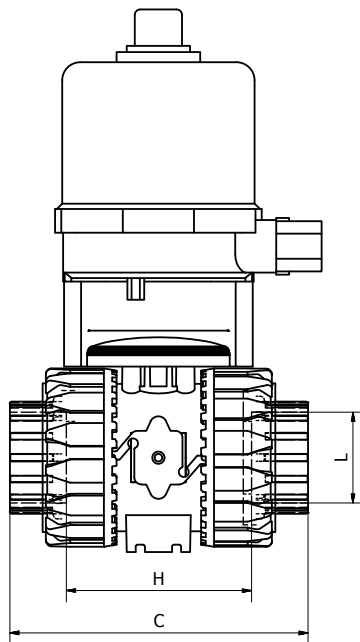
- o Basic: 3-point controlled actuator suitable for on-off control.
- o Digital: Analog-controlled actuator with position-based feedback signal, suitable for precise control of the fluid flow.

Advantages

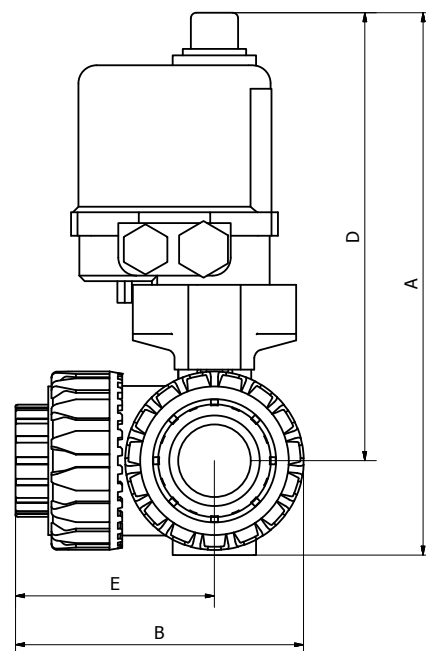
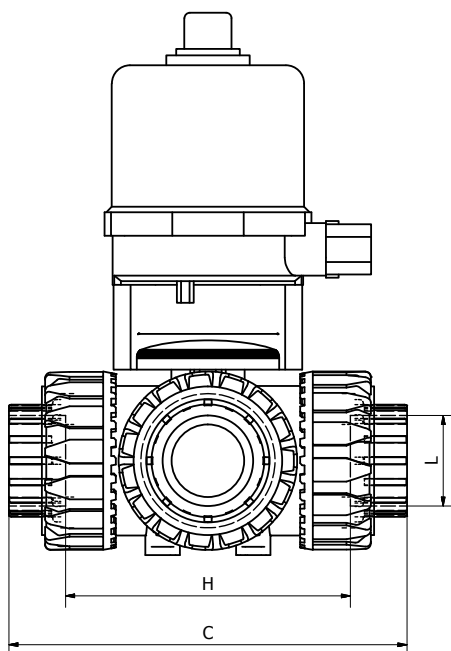
- o Maximum flow capacity
- o Low pressure drop
- o Flow direction to all sides
- o Compact design with a minimal number of components
- o Includes mechanical and electronic emergency manual override
- o Position-based feedback signal available on the Digital version

Dimensions KK 32 - 63 - 2W/3W

KK 32 - 63 - 3W



KK 32 - 63 - 2W





Dimensions of Envalve KK 2- and 3-way (mm)

VALVE TYPE (L)	DN	GLUE (MM)	A	B	C	D	E	F
32-2W	25	32	201	73	128	148	78	84
40-2W	32	40	212	86	143	180	78	91
50-2W	40	50	238	98	164	186	78	102
63-2W	50	63	259	121	200	197	78	123
32-3W	25	32	201	131	160	162	80	116
40-3W	32	40	226	145	188	179	94	137
50-3W	40	50	238	160	219	186	110	157
63-3W	50	63	295	183	267	233	133	190

Hydraulic and Dimensional Data

TYPE	DN	GLUE (mm)	KV-VALUE (m³/hour)	KV-VALUE (L/min)	WEIGHT (kg)
KK32-2W	25	32	15	250	1,4
KK40-2W	32	40	35	583	1,7
KK50-2W	40	50	56	933	2,0
KK63-2W	50	63	100	1667	2,6
KK32-3W	25	32	15	250	1,7
KK40-3W	32	40	35	583	2,3
KK50-3W	40	50	56	933	2,7
KK63-3W	50	63	100	1667	3,8

Technical Data for Actuators

MOTOR TYPE	AEA – 20 Nm	AEA – 50 Nm
VOLTAGE	24 V AC/DC (option 230 V AC)	24 V AC/DC (option 230 V AC)
FREQUENCY	50 Hz	50 Hz
POWER	15 W	25 W
TORQUE	20 Nm	50 Nm
RUNNING TIME	10 sec	12 sec
SEALING	IP67	IP67
AMBIENT TEMP.	-20 °C / +80 °C	-20 °C / +80 °C
CONTROL	BASIC	3-point SPDT
	DIGITAL	4-20mA / 0-10V DC
MOUNTING POSITION	See manual	See manual

Technical data for ball valves

HOUSING = BALL	PVC
BALL SEAT	PTFE
O-RING SEAL	EPDM (option: Viton® FPM)
MAX. PRESSURE	10 bar at 20 °C
MAX. AMBIENT TEMP.	60 °C
MOUNTING	Union nuts