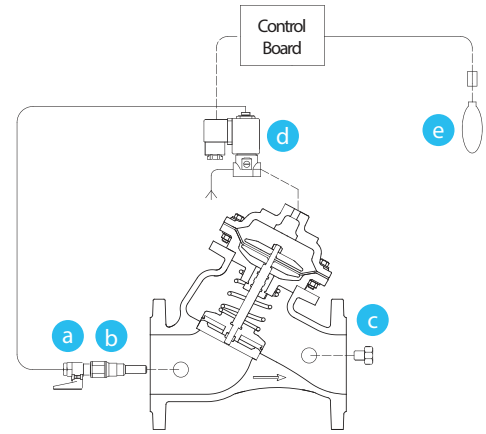




# ELECTRIC FLOAT LEVEL CONTROL VALVE

## Model: KVS - 803E



- a Ball Valve
- b In-line Finger Filter
- c Plug
- d Solenoid Pilot Valve
- e Electric Float Switch

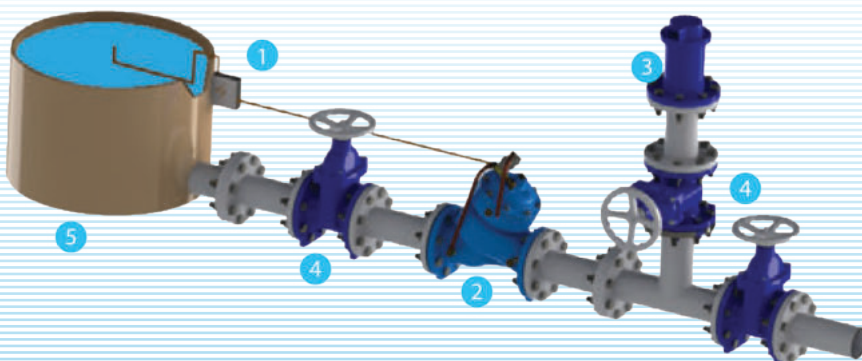
### DESCRIPTION

KVS - 803E model electrical float level control valve is the hydraulic control valve designed to control water level continuously by means of electrical float placed in reservoirs and tanks. Electrical float sends signal to solenoid coil on main valve when water level decreases below set level. Main valve is opened and ensures that tank or reservoir will be filled permanently. When water reaches maximum level, electrical float sends signal to solenoid coil again and main valve is closed as full sealed. Valve may be used in the system by mounting horizontal or vertical positions.

### INSTALLATION

- Install cables of electrical float and solenoid pilot valve in accordance with control device to be used.
- Mount valve in direction of arrow indicated on it.
- While mounting valve on pipeline, place gasket between valve flange and pipe flange to ensure sealing and tighten the bolts as crosswise.
- Mount main valve body on tank or reservoir upstream and mount float components in tank or reservoir as fixed in desired level interval.
- It is recommended that insulation valves (butterfly or gate valves etc.), air relief valve and strainer valves will be used in line-mounting of valve.

### TYPICAL APPLICATION



- 1 Controller
- 2 Electric Float Level Control Valve
- 3 Air Valve
- 4 Isolation Valve (Gate, Butterfly Valve etc.)
- 5 Water Tank



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## ADJUSTMENT

- Mount electrical float switch indicated with "f" as fixed according to water level in tank or reservoir and connect cables to control panel.
- Connect cables of solenoid pilot valve indicated with "e" to control panel conveniently.
- Open ball valve indicated with "a".

## MAINTENANCE

- Mount electrical float switch indicated with "f" as fixed according to water level in tank or reservoir and connect cables to control panel.
- Connect cables of solenoid pilot valve indicated with "e" to control panel conveniently.
- Open ball valve indicated with "a".

## SOLENOID PILOT VALVE SPECIFICATIONS

Body	Connection	Voltage	Power	Options
Brass - 16 bar	3 - way N.O.	6,12,24,110,240	AC 8W - 5,5W 50 Hz	0,8 mm
	3 - way N.C		AC 8W - 5,5W 60 Hz	1,6 mm
			DC 5,5 W	2,0 mm
Plastic - 12 bar	3 - way N.O.	6,12,24,9,12	AC,DC	
	3 - way N.C		Latch	

FAITURE	CAUSES	CORRECTING / REPAIR
valve not opening	<ul style="list-style-type: none"> <li>•Ports of solenoid valve may be clogged.</li> <li>•Voltage value of solenoid pilot valve may be wrong.</li> <li>•Solenoid coil may be burnt.</li> <li>•Line pressure may be low.</li> <li>•Electrical float switch may be failed.</li> </ul>	<ul style="list-style-type: none"> <li>•Check ports and clean them if clogged.</li> <li>•Measure voltage value and select cable with diameter suitable for coil</li> <li>•Replace coil.</li> <li>•Replace with the new one.</li> <li>•Check valve upstream pressure and ensure necessary upstream pressure.</li> </ul>
valve not closing	<ul style="list-style-type: none"> <li>•Diaphragm may be punctured.</li> <li>•Foreign substances may exist in disc seat.</li> <li>•Electrical float may be failed.</li> <li>•Fnder filter may be clogged.</li> </ul>	<ul style="list-style-type: none"> <li>•Check diaphragm and replace with the new one if it is punctured.</li> <li>•Check disc seat and remove foreign substances if any.</li> <li>•Check control screw, Bring it into correct position if it is wrong.</li> <li>•Clean if it is clogged</li> </ul>

## ORDER INFORMATION

Please submit following information to our sales department while ordering.

Maximum flow rate \_\_\_\_\_ m<sup>3</sup>/h

Maximum network/line pressure \_\_\_\_\_ bar

Main line size \_\_\_\_\_ mm

Valve connection type \_\_\_\_\_

Electric voltage value to be used \_\_\_\_\_ volt

## SAMPLE ORDER FORM

Model	Connection	Size	Control Feature	Additional Features	Options
803E	F: Flanged (ISO-ANSI)	2"-16"	Modulating Control	SV-3: 3-Way Selector Valve NV:On/Off Speed Adjustment EL: Electric Controll PG: Pressure Gauge	Position Indicator
803E	F	6"	PRPS	EL	PIR