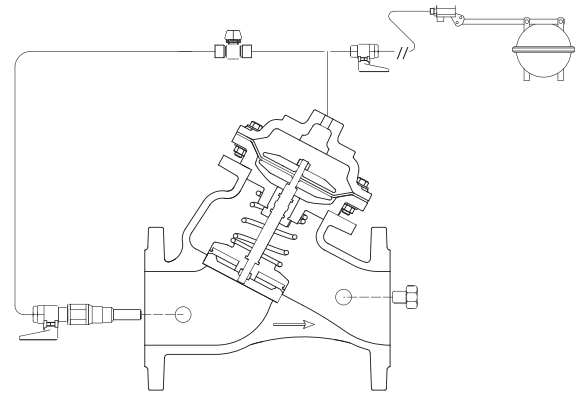




# FLOAT LEVEL CONTROL VALVE

Model: KVS - 803A



Needle Valve  
Ball Valves  
In-line Finger Filter  
Float Valve (Option: Stainless Steel)  
Plug

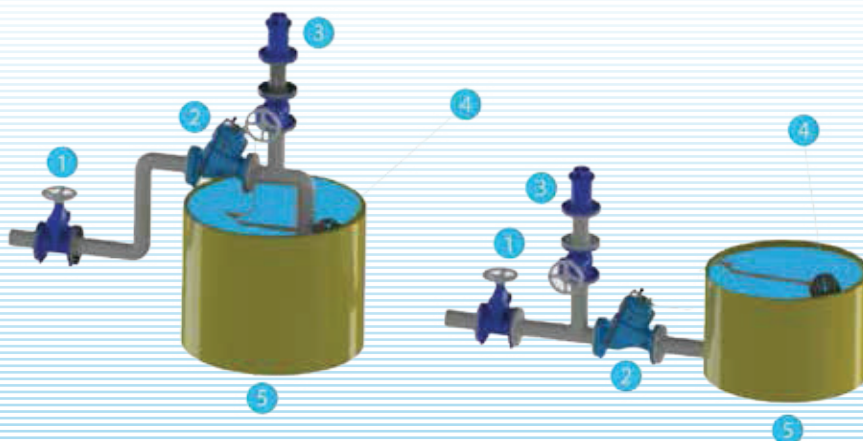
## DESCRIPTION

KVS - 803A model float level control valve is the hydraulic control valve designed to control water level in reservoirs and tanks continuously. Main valve is controlled by 2-way modulating type float pilot valve manually. Main valve mounted on reservoir and tank upstream is closed as fully sealed without causing surge when water level reaches to maximum level. Valve opening/closing speed may be adjusted in set value. It may be used in the system by mounting horizontal or vertical positions.

## INSTALLATION

- Make sure that valve is on a level with the pipeline while mounting it.
- 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 (see sample montage illustration).

## TYPICAL APPLICATION



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



# FLOAT LEVEL CONTROL VALVE

## Model: KVS - 803A



### ADJUSTMENT

- o water level in tank or reservoir.
- Connect one end of hydraulic pressure signal tube supplied with valve to ball valve indicated with valve.
- Open ball valves indicated with "b1" and "b2".
- Needle valve indicated with "a" is used for adjusting opening/closing speed adjustment of main valve.

### MAINTENANCE

- System operating conditions that effect on the valve should be checked periodically to determent the required preventative maintenance schedule.
- Check lean it. Do not make cleaning more than one within a few months unless water is too dirty.
- Drain water within actuator and pilot valves of valves not used in winter.
- Check downstream pressure value continuously.
- Consult us if valve does not perform regulation function.

FAITURE	CAUSES	CORRECTING / REPAIR
valve not opening	<ul style="list-style-type: none"> <li>• "b2" ball valve maybe closed.</li> <li>• Line pressure may be low.</li> <li>• Float Pilot valve may be clogged.</li> </ul>	<ul style="list-style-type: none"> <li>• Check "b2" ball valve and open if it is closed.</li> <li>• Check valve upstream pressure and ensure necessary upstream pressure.</li> <li>• Clean it</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>• Needle valve may be closed.</li> <li>• Float Pilot Valve may be failed.</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 needle valve and open it by one or two tours if it is closed.</li> <li>• Replace with the new one.</li> </ul>

### ORDER INFORMATION

Please submit following information to our sales department while ordering.

Maximum ow rate m<sup>3</sup>/h  
 Maximum network/line pressure bar  
 Main line size mm  
 Valve connection type

### SAMPLE ORDER FORM

Model	Connection	Size	Control Feature	Additional Features	Options
803A	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
	F	6"	PRPS	EL	PIR