

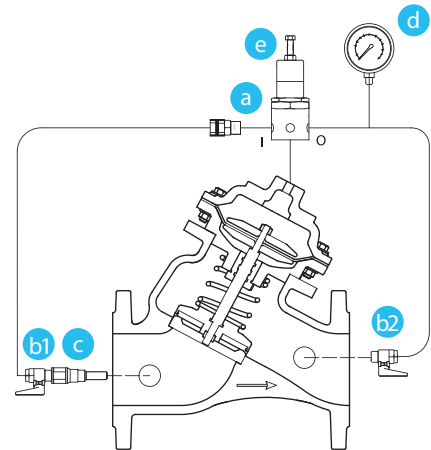


PRESSURE REDUCING CONTROL VALVE

Model: KVS - 801G



DESCRIPTION



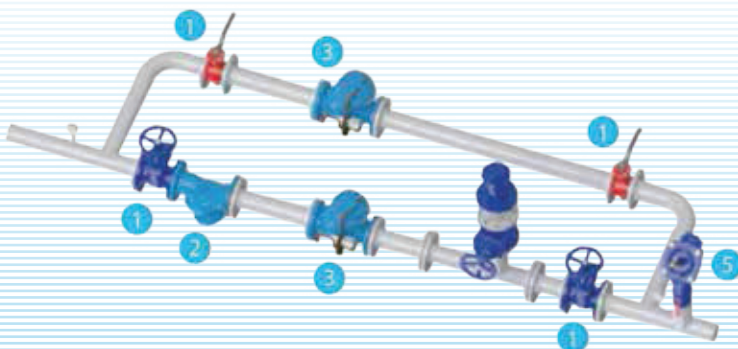
- a Pressure Reducing Pilot Valve
- b Ball Valves
- c In-line Finger Filter
- d Pressure Gauge
- e Adjustment Bolt

KVS - 801G model pressure reducing control valve is the hydraulic control valve which reduces high upstream pressure value into desired lower pressure value by means of built-in pressure reducing pilot valves. Pressure reducer control valve controls downstream pressure value continuously and maintains it constant without being affected from flow rate and upstream pressure values. When no flow exists in the system, it is closer by itself automatically. When valve upstream pressure value decreases below adjusted downstream pressure value, it is opened fully by itself. Valve may be user in vertical and horizontal positions in the system.

INSTALLATION

- Valve nominal diameter must equal to or one size smaller than line diameter.
- Mount valve in direction of arrow indicated on it.
- It is recommended that insulation valves (butterfly or gate valves etc.), air relief valve, quick pressure relief valve (QR) and strainer valves will be used in line-mounting of valve.
- During pressure decrease, cavitation risk is dangerous for valve body. Adjust downstream pressure value by referring cavitation data or consult our technical service.

TYPICAL APPLICATION



- 1 Isolation Valve (Gate, Butterfly Valve etc.)
- 2 Strainer
- 3 Pressure Reducing Valve
- 4 Air Valve
- 5 Quick Pressure Relief Valve



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ADJUSTMENT

- Operate pump, open main valve on network and deliver water to the system.
- Open ball valve indicated with "b1" and close ball valve indicated with "b2".

Wait for a while until water reach valve control chamber. When water reach control chamber, pressure gauge will show a certain pressure value.

- Adjust desired downstream pressure value by means of adjustment bolt with "e" on pilot valve indicated with "a" by referring pressure gauge indicated with "d".

When you turn adjustment bolt clockwise, downstream pressure value will increase and when you turn adjustment bolt counter-clockwise it will decrease.

- After adjusting desired downstream pressure value, tighten contra nut below adjustment bolt. Open ball valve indicated with "b2" and deliver water into system. Pressure gauge will show zero value after opening "b2" valve.

VCheck downstream pressure value continuously. If valve regulating process is not realized, consult our company.

FAITURE	CAUSES	CORRECTING / REPAIR
valve not opening	<ul style="list-style-type: none"> •Ball valves in valve upstream and downstream may be close. •Valve upstream pressure may be too low. •Adjustment bolt of pilot valve may be too loosened. 	<ul style="list-style-type: none"> •Check ball valves and open them if they are closed. •Check your system. •Bring adjustment bolt into desired value and tighten contra nut.
valve not closing	<ul style="list-style-type: none"> •Diaphragm may be punctured. •Foreign substances may exist in disc seat. •Connections of pilot valve may be clogged because of foreign substances. 	<ul style="list-style-type: none"> •Check diaphragm and replace with the new one if it is punctured. •Check disc seat and remove foreign substances if any. •Check connections and clean them. •Clean if it is clogged
valve does not regulate	<ul style="list-style-type: none"> •Pressure gauge may be failed. •Movable parts of pilot valve may be upstream may be clogged. •Pressure gauge may be failed. 	<ul style="list-style-type: none"> •Replace with new one. •Clean it •Replace with new one.



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MAINTENANCE

- System operating conditions that effect on the valve should be checked periodically to determent the required preventative maintenance schedule.
- Check finger filter in valve upstream according to water quality.
- Drain water within actuator of valve not used in winter.

ORDER INFORMATION

Please submit following information to our sales department while ordering.

Maximum flow rate _____ m³/h
 Maximum network/line pressure _____ bar
 Main line size _____ mm
 Valve connection type _____
 Maximum upstream pressure _____ bar
 Minimum upstream pressure _____ bar
 Desired downstream pressure _____ bar

PILOT VALVE PRESSURE ADJUSTMENT RANGE

Standard Pressure Range	5 - 160 meter	7,5 - 240 psi
Medium Pressure Range	10 - 100 meter	15 - 150 psi
High Pressure Range	5 - 240 meter	7,5 - 360 psi

SAMPLE ORDER FORM

Model	Connection	Size	Control Feature	Additional Features	Options
801G	F: Flanged (ISO-ANSI)	2"-16"	Manual Control	EL: Electric Control NV:On/Off Speed Adjustment PG:Pressure Gauge SV-3: 3-Way Selector Valve	Position Indicator
	F	6"	PR	EL	PIR