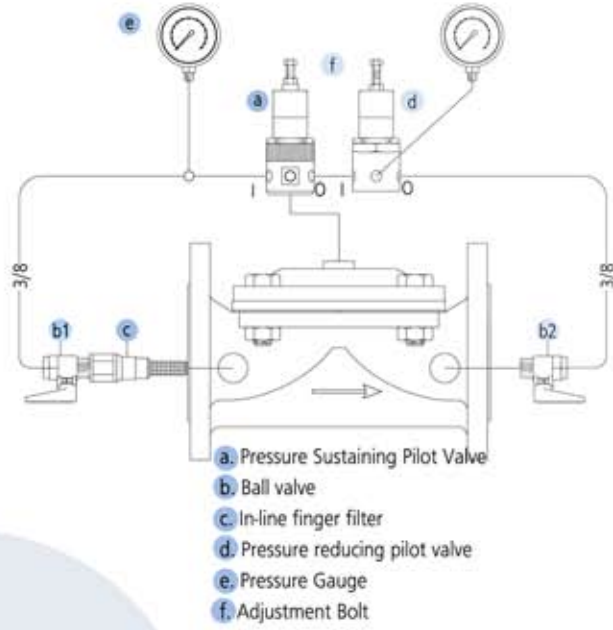


PRESSURE REDUCING / SUSTAINING VALVE BASINÇ DÜŞÜRÜCÜ / SABİTLEME VANASI

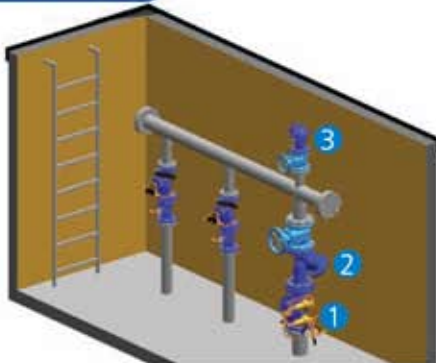


Description model pressure reducing/sustaining hydraulic control valve reduces valve downstream pressure to desired value by sustaining upstream pressure. Two pilot valves exist on valve. Pilot valve on upstream side is the pressure sustaining pilot valve and sustains upstream pressure. Other pilot valve is pressure reducing pilot valve and keeps downstream pressure constant by reducing it to desired value. Reducing/sustaining control valve pumps fluid downwards; it ensures that system works within normal values by regulating over flow and high pressure in pumping systems. It controls upstream and downstream pressure continuously and keeps them within constant values.

Adjustment

- Operate pump, open main valve on network and deliver water to system.
- Open ball valves indicated with "b1" and close ball valve indicated with "b2".
- Adjust desired upstream pressure value by means of adjustment bolt indicated with "e" on pressure sustaining pilot valve indicated with "a" by referring pressure gauge. Tighten contra nut after determining set point.
- Adjust pressure reducing pilot valve indicated with "d" by means of adjustment bolt indicated with "f" on it by referring pressure gauge. Pressure gauge indicated with "e" on pressure reducing pilot valve will show valve downstream pressure value.
- When you turn adjustment bolt of both pilot valves clockwise, downstream pressure value will increase and when you turn adjustment bolt counter-clockwise it will decrease.
- After adjusting desired pressure set point on both pilot valves, open spherical valve indicated with "b2" and deliver water to system. During normal operation of valve, upstream pressure gauge will show valve upstream pressure value and downstream pressure gauge will show zero value. Close spherical valve indicated with "b2" to see downstream pressure value.

Typical Application



- 1 Pressure Reducing and Sustaining Control Valve
- 2 Strainer Valve
- 3 Air Relief Valve



PRESSURE REDUCING / SUSTAINING VALVE

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Maintenance

- Check finger filter indicated with "c" according to water quality and clean 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 our company if valve does not perform regulation and control functions

Pilot Valve Pressure Adjustment Range

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

FAILURE	CAUSES	CORRECTING/REPAIR
Valve not opening	<ul style="list-style-type: none">• Ball valves in valve downstream may be closed.• Valve upstream pressure may be too low.• Adjustment pressure of pilot valve may be too high.• Needle valve on pilot valve may be closed.• Adjustment bolt of pilot valve may be too loose.	<ul style="list-style-type: none">• Check ball valves and open them if they are closed.• Check your system.• Bring pressure value into adjusting value by means of set screw• Open needle valve one or two tours according to system adjustment.• 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 diaphragm seat.• Connections of pilot valve may be clogged because of foreign substances• Finger filter may be clogged	<ul style="list-style-type: none">• Check diaphragm and replace with the new one if it is punctured.• Check diaphragm seat and remove foreign substances if any.• Check connections and clean them.• Clean if it is clogged.
Non-uniform Regulation	<ul style="list-style-type: none">• Movable parts of pilot valve may be clogged because of calcification.• Needle valve adjusting point on Pressure Sustaining Pilot Valve may be wrong.• Pressure gauge may be failed.	<ul style="list-style-type: none">• Replace with new one.• Close needle valve fully and open it one to two tours.• Replace with new one.

Order Information

- Please submit following information to our sales representative while ordering,
- Maximum Flow Rate (in l/s or m³/h)
 - Maximum Network pressure (in bar, atm, meter)
 - Desired Valve Upstream pressure (in bar, atm, meter)

Model	Connection	Diameter	Control Property	Additional Properties	Options
67-67D	F:Flanged(ISO PN 16)	2"-12"	Pressure Reducing	NV: Opening-Closing speed adjustment	Posizyon
66-66D-64	TH:Threaded (BSP)	2"-3"	and Sustaining	EL Electric Controlled:	Indicator
63-63D	VIC:Victaulic	2"-4"		SV-3: 3-way Manual Valve	

