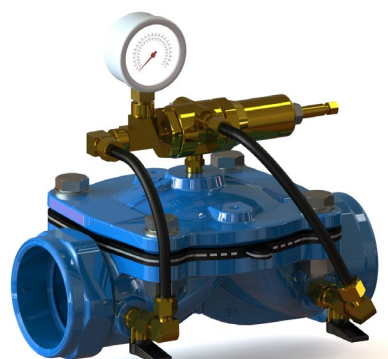




IOM RAF 62

Pressure Reducing Control Valve
2-Way Metal Pilot
2" – 4"



 **RAPHAEL**

Apr-24

DESCRIPTION

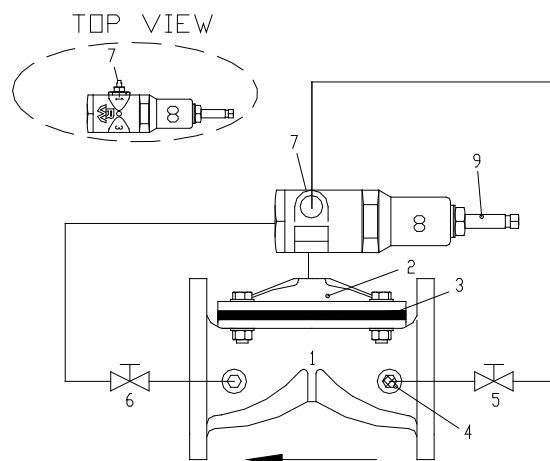
This pressure-reducing valve is an automatic control valve designed to reduce a higher upstream pressure into a preset lower downstream pressure, and to maintain this pressure constantly regardless of flowrate or upstream pressure fluctuations.

INSTALLATION

- Before installing the valve, flush the pipeline to remove scale, dirt and other particles that might affect the valve's performance.
- Install the valve as indicated by the arrow on the valve's cover, showing flow direction.
- It is recommended to install isolation valves (butterfly valves type B8) upstream and downstream the control valve.
- Close 2-way valve # 6. Open 2-way valve # 5 and turn on the water supply to the valve.
- Check for leaks; tighten bolts & fittings if necessary.

PARTS LIST

1. Body
2. Cover
3. Diaphragm
4. Self-Flushing "Finger" Filter
5. 2-Way Valve
6. 2-Way Valve
7. Needle Valve
8. 2-Way Pressure Reducing Brass Pilot P-162
9. Pressure Adjusting Screw



OPERATING INSTRUCTIONS

1. Make sure that there is a downstream flow demand.
2. Loosen security nut and close needle valve # 7 all the way and then reopen it for 1-2 turns. Lock it with the locking nut. The needle valve # 7 adjusts the hydraulic reaction speed. The more the needle valve # 7 is opened, the quicker the reaction is. While adjusting the needle valve, please keep in mind that too quick of a reaction may cause a water hammer.
3. Loosen security nut and turn adjusting screw # 9 counterclockwise, so that there is no pressure on the pilot's spring.
4. Open 2-way valve # 6.
5. Turn adjusting screw # 9 clockwise, until valve will start to open.
6. To increase downstream pressure, continue to turn adjusting screw # 9 clockwise one (1) turn at a time, allowing some time between turns for the valve to respond. Check downstream pressure until required pressure is achieved. Tighten security nut on the adjusting screw # 9.
7. To decrease downstream pressure, turn adjusting screw # 9 counterclockwise one (1) turn at a time, allowing some time between turns for the valve to respond. Check downstream pressure until required pressure is achieved. Tighten security nut on the adjusting screw # 9.

To open the main valve completely, close the 2-way valve # 5 and turn the adjusting screw # 9 clockwise all the way. Please note that by so doing the pressure downstream will be as high as the pressure upstream.

To close the main valve, close 2-way valves # 6 and open 2-way valve # 5.

MAINTENANCE

- No maintenance is required.
- Check downstream pressure. Adjust if required.
- It is recommended that the valve be easily accessible as well as clearly marked to prevent damage.
- In freezing climates, the valve should be dismantled, and water drained during the winter months.

TROUBLESHOOTING RAF 62

PROBLEM	CAUSE	CHECK	SOLUTION
The valve does not open.	<ol style="list-style-type: none"> 1. Valve 6 is turned off. 2. Blocked water connections. 	<ol style="list-style-type: none"> 1. Check state of valve. 	<ol style="list-style-type: none"> 1. Open valve 6. 2. Turn off water supply to the valve. Dismantle and clean connections in valve and pilot. Reassemble and activate.
The valve does not close.	<ol style="list-style-type: none"> 1. Valve 5 is turned off. 2. Clogged or stuck needle valve. 3. Blocked self-flushing filter #4. 4. Foreign object on seal seat. 	<ol style="list-style-type: none"> 1. Check state of valve. 2. Check state of valve. 4. Constant downstream water flow. 	<ol style="list-style-type: none"> 1. Open valve 5. 2. Repeat adjustment and operating instructions from 1 to 3. 3. Turn off water supply to the valve. Remove filter and clean or replace it if needed. Reassemble and activate. <p>Turn off water supply to valve. Remove cover and diaphragm. Remove foreign object. Check that diaphragm body and cover are not damaged. Reassemble and activate.</p>
Unstable pressure.	<ol style="list-style-type: none"> 1. Needle valve is improperly adjusted. 2. Blocked or damaged pilot. 3. Blocked water connections. 	<ol style="list-style-type: none"> 1. Irregular downstream pressure. 2. Irregular downstream pressure. 3. Irregular downstream pressure. 	<ol style="list-style-type: none"> 1. Repeat adjustment and operation instructions from 1 to 6. 2. Turn off water supply to the valve. Dismantle and clean drain connections in pilot. Check that membrane and O-rings are not damaged. Reassemble and activate. 3. Turn off water supply to the valve. Dismantle and clean connections. Reassemble and activate.