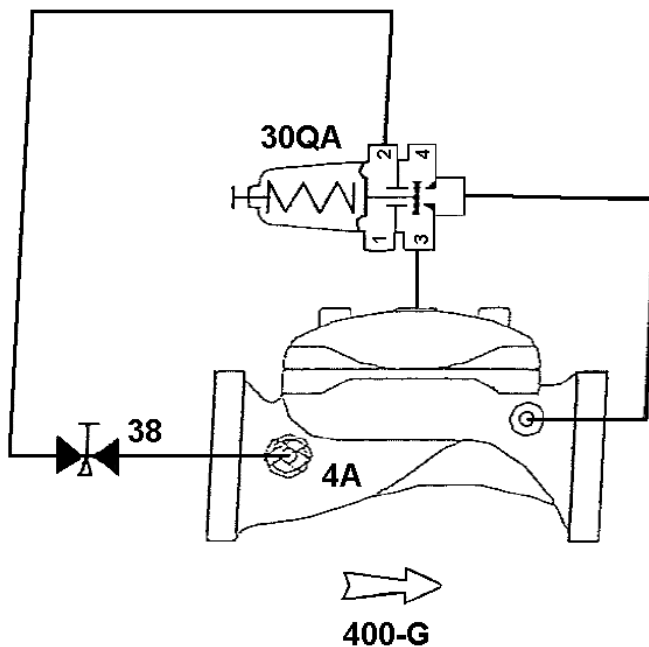

QUICK PRESSURE RELIEF VALVE

■ MAINTENANCE ■ OPERATION ■ INSTALLATION
**PART LIST**

4A	In Line Self-Washing Filter
30QM	Quick Pressure Relief Pilot (Navaton), Metal
38	Cock Valve with Vent

DESCRIPTION

Model 430-Q quick pressure relief valve is an automatic control valve specially designed to provide a solution to the typical problems associated with spring-load relief valves when constant drifting of relief adjustment occurs.

The valve features:

1. Accurate relief pressure setting that remains constant; providing smooth closure without causing pressure surges. It opens to full capacity on minimum pressure rise in the pipe line; and regulates losing speed.
2. Manual override for testing operations.

INSTALLATION

1. Allow enough room around the valve assembly for making adjustments and future maintenance / disassembly work.
2. Thoroughly flush the pipeline to remove any dirt, scale, debris, etc. - failure to do this may result in the valve being inoperable.
3. It is recommended that an isolation valve be installed upstream of the Bermad control valve to allow future maintenance operations.
4. Install the valve in the pipeline with the valve flow arrow on the body casting in the proper direction.
5. Install the valve horizontally with the cover up for best performance.
5. After installation, carefully inspect / correct any damaged accessories, piping, tubing or fittings.

START-UP OPERATION

1. Check / create an inlet pressure equal to the required working pressure.
2. Slowly turn the adjusting screw on the pilot 30QM counter clockwise (CCW) until a small leak occurs. Now Gently turn screw clockwise (CW); allowing the valve to react, until the leak stops.
3. Turn adjusting screw ½ turn more and tighten the locknut on the adjusting screw.
4. Check valve operation by increasing / decreasing system pressure; the pressure relief valve should open and close.

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TROUBLESHOOTING

SYMPTOM

Valve fails to open.

CAUSE

1. Excessive pilot (30QM) spring compression.
2. Insufficient inlet pressure.
3. Cock valve (1) closed.

REMEDY

1. Turn the adjusting screw CCW on pilot (30QM) until the valve opens.
2. Check / create inlet pressure.
3. Open cock valve (1).

Valve fails to close.

1. Filter (4A) blocked.
2. Restriction no 31 is blocked.
3. Insufficient pilot (30QM) spring compression.
4. Debris trapped in main valve.

1. Remove filter and screen to clean.
2. Open restriction and clean it.
3. Turn adjusting screw CW on pilot (30QM) until the valve closes.
4. Remove and inspect diaphragm assembly. Check seat area.

Valve fails to regulate.

1. Air trapped in main valve cover.

1. Loosen cover tube fitting at its highest point and allow the air to escape. Re-tighten.

