

MODEL 106-2PR-630 / 206-2PR-630 PRESSURE MANAGEMENT VALVE

KEY FEATURES

- Valve switches between high and low pressure pilots based on flow rate.
- Pressure reducing pilots independently adjustable to suit the desired downstream pressure.
- Orifice is upstream of control valve so downstream pressure setting is unaffected by flow.
- Standard components completely submersible - no electrical power required.
- Simple field retrofit is possible using the paddle style orifice plate.



PRODUCT OVERVIEW

The Singer 106/206-2PR-630 Pressure Management Valve is a simple package to save water loss and money. It meets system needs by providing higher pressure when called for 24/7 and reduced pressure to save water leakage (and money) at all other times.

An orifice with a low pressure drop 1.0 psi, (0.07 Bar) is installed upstream of a standard pressure reducing valve fitted with an extra pressure reducing pilot and a sensitive differential pilot which switches between 2 pressure reducing pilots to suit the system flow

demand. High flow demand or fire flow will cause the differential pilot to automatically switch control from the low pressure to the higher pressure pilot. The action is then reversed when flow demand falls below the differential pilot set point. valve position by modulating the pressure above the diaphragm. The downstream pressure is maintained relatively steady at the pilot set-point.

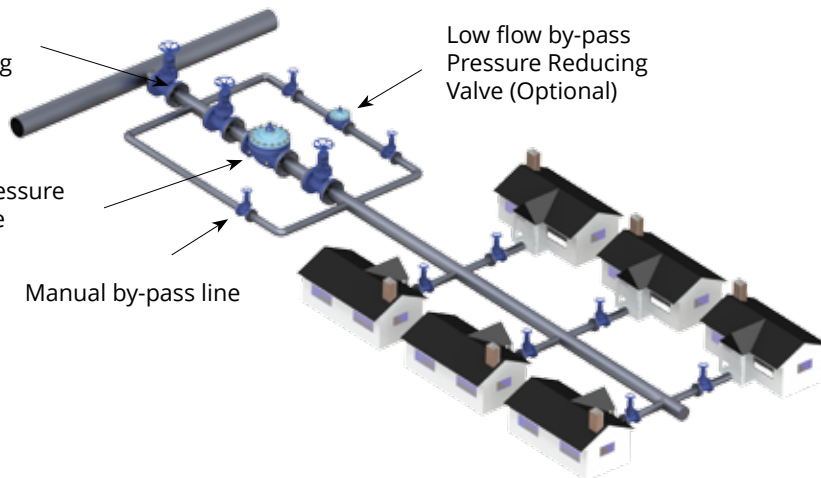
TYPICAL APPLICATION

Orifice plate installed ahead of both Reducing Valves

Low flow by-pass Pressure Reducing Valve (Optional)

Main High Flow Pressure Management Valve

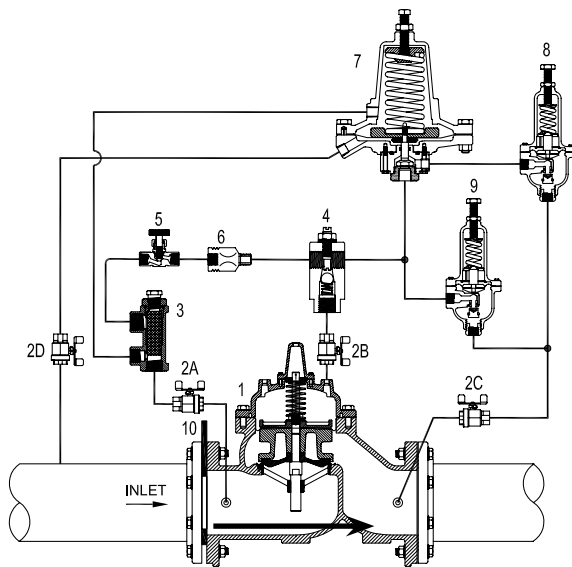
Manual by-pass line



SCHEMATIC DRAWING

1. Main Valve - 106-PG or 206-PG
2. Isolation Valve
3. Strainer - 40 mesh
- 4*. Model 26 Flow Stabilizer / Opening Speed Control
5. Closing Speed Control
6. Fixed Restriction
7. Differential Pilot – Normal Closed – Model 630-RPD
8. Pressure Reducing Pilot – Model 160 Higher Setting
9. Pressure Reducing Pilot – Model 160 Lower Setting
10. Orifice Plate – Paddle style standard – optional with housing

An optional differential gauge is available to indicate flow and simplify adjustment.



Schematic A-10496A2

BENEFITS

- Substantially reduces water loss (non-revenue water) due to leakage
- Decreases downstream pipe bursts and associated repair costs
- Allows constant reliable pressure to users, minimizing over pressure at off peak (flow) periods.

SELECTION SUMMARY

1. Sizes: 4 - 12" (100mm -300mm) for other sizes please consult factory
2. Pressures: Minimum pressure of 29 psi (2 Bar) at valve inlet, (Consult factory for lower pressure applications).
3. Differential required across Orifice plate: 1.45 – 2 psi (0.1 – 0.14 Bar)
4. Fire Flow: if fire flow is greater than twice the normal high flow rate set point, please consult factory.

ORDERING INSTRUCTIONS

Refer to page 244 for the order form and ordering instructions.

Additionally, include the following information for this product:

1. Single chamber (106) or (206)
2. Pilot range