



The OCV ValveMeter is a self-contained, electronic, flow measuring system. Based upon the variables of valve differential pressure and valve position, the ValveMeter automatically calculates and displays flow rate, eliminating the need for a separate flow meter or other flow measuring device.

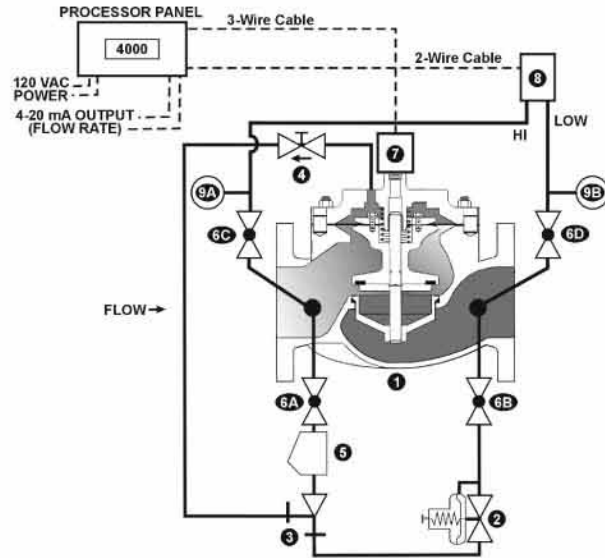
## FEATURES

- ▶ Can be added to any modulating type valve (consult factory).
- ▶ Displays flow rate in several different measurement units.
- ▶ Transmittable output.
- ▶ Local totalizer is standard.
- ▶ Digital valve position transmitter not subject to noise or drift.
- ▶ Integral to valve; no orifice plate required.
- ▶ Three basic components; DP Transmitter, Valve Position Transmitter and ValveMeter processor panel.

## HYDRAULIC PILOT OPERATED REGULATING VALVE

Shown here applied to any modulating valve (i.e. pressure reducing, rate of flow, etc.) Valve performs the specified control function with flow rate being measured by the ValveMeter.

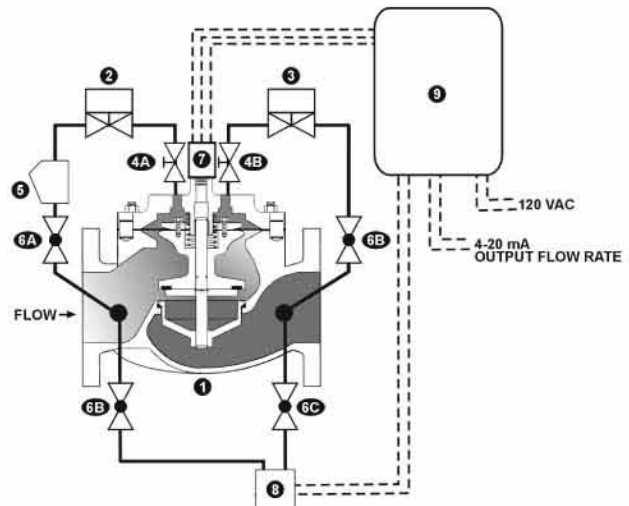
ITEM	DESCRIPTION
1	BASIC VALVE ASSEMBLY
2	HYDRAULIC PILOT
3	EJECTOR
4	SPEED CONTROL VALVE
5	Y-STRAINER
6	ISOLATION BALL VALVE
7	DIGITAL POSITION TRANSMITTER
8	DIFFERENTIAL PRESSURE TRANSMITTER
9	PRESSURE GAUGE



## ELECTRONIC DIGITAL CONTROL Rate of flow function

Shown here the applied to a digital control valve the flow rate is both measured and controlled.

ITEM	DESCRIPTION
1	BASIC ASSEMBLY VALVE
2	TWO-WAY SOLENOID PILOT
3	TWO-WAY SOLENOID PILOT
4	NEEDLE VALVE
5	Y-STRAINER
6	ISOLATION BALL VALVE
7	POSITION TRANSMITTER
8	DIFFERENTIAL PRESSURE TRANSMITTER
9	FLOW PROCESSOR/CONTROLLER PANEL



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## VALVE OPERATION

The ValveMeter System consists of the following components.

- ▶ **Pressure Differential Transmitter**- This transmitter measures the differential pressure across the valve (inlet port vs.outlet port)
- ▶ **Valve Position Transmitter**- Connected to the main valve stem, measures degree of valve opening.
- ▶ **ValveMeter Processor Panel**- Accurately calculates flow rate based on the input from both Differential Transmitter and Valve Position Transmitter. Displays flow rate locally and retransmits same via 4-20 mA signal. This self-contained module also provides 24 VDC loop power to both the differential transmitter and valve position transmitter as well as the retransmission circuit.

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## SPECIFICATIONS

The ValveMeter is factory installed and tested when ordered with a control valve. It can also be retrofitted to most existing OCV control valves.

**Voltage Requirements:** 120, 240 VAC

**ValveMeter Processor Panel Dimensions:** 12" high x 8 1/2" wide x 7" deep

**Enclosure:** NEMA 4X (Weathertight, corrosion resistant)

**ValveMeter Output Measurement Units (user selectable):**

- ▶ Gallons Per Minute
- ▶ Million Gallons Per Day
- ▶ Cubic Meters Per Hour
- ▶ Liters Per Second

**Totalizer Measurement Units:** Gallons, Liters

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## APPLICATION ENGINEERING ASSISTANCE

Due to the fact that differential pressure is an integral part of the flow measurement process, certain types of valves may not be candidates for the ValveMeter System. Consult Factory.

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Represented by:

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