



The Global Leader in
Automatic Control Valves



D12+

Intelligent PRV Control

A robust and versatile electronic valve controller for calm pressure management

The control system consists of a D12 electronic valve controller/multi-channel logger and valve mounted PRV* interface kit plus turbine assy. This versatile system provides a range of pressure optimisation control profiles with two-way communication over cellular networks.

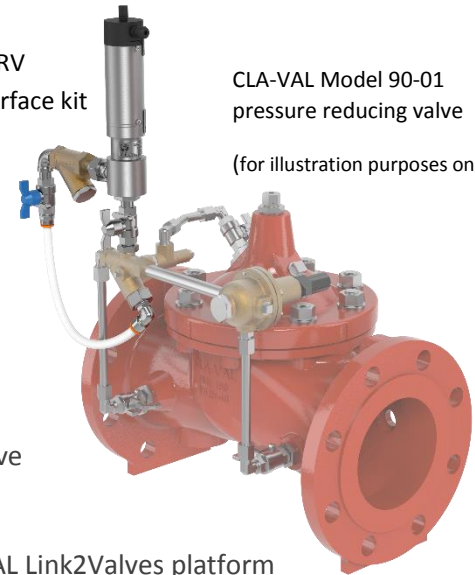
Key Features

- A choice of control profiles
- Remote control profile configuration
- Easy retrofit to existing CLA-VAL pressure reducing valve
- Compatible with CLA-VAL Low head-loss PRV's
- User configurable alarms and pressure fail-safe features
- PC or Tablet based app for programming convenience
- Multi-channel datalogging including channels for monitoring valve stem position or pressures**
- Accepts 3rd party control profiles via API transfer into the CLA-VAL Link2Valves platform

* PRV
Interface kit

CLA-VAL Model 90-01
pressure reducing valve

(for illustration purposes only)



Control profile options:



D12 controller

- ✓ **Flow vs Pressure**
- ✓ **Time vs Pressure**
- ✓ **Remote manual pressure**

* Compatible with other valve functions including pressure sustaining and valve position management – Contact CLA-VAL for further information

** Add DP Flow metering capability to record the flow through your valve or use the extra pressure to alarm on a blocked strainer!



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Specification

Interface kit

- Maximum pressure setpoint: 160 mhd
- Modulation range: 1 to 25 mhd
- Manual failsafe high pressure override
- Bracket mounted e-Power-MP turbine

Electronic Interface (D12 controller)

Inputs

- 2x Analog 0-5 V pressure sensors, range: 0-160 mhd
0.5% accuracy full scale
- 2x Analog 4-20 mA, 0-5 V or 0-10 V
- 1x Digital dry contact – Pulses

Output command

- 1 x 6 VDC to M35/KX Actuator

Communication

- GPRS 2G modem quad band
- USB A (internal)
- WiFi via VNC – PC/Tablet interface
- SIM Card – Roaming
- Antenna – Externally mounted

Power Supply

- Internal rechargeable lithium-Ion battery 3.7V / 7.8Ah
Recharged by e-Power MP turbine (included)
- External power source 6VDC to 24 VDC



e-Power MP turbine

Control Profiles

- 4x control curves including:
 - Pressure v Flow
 - Pressure v Time
 - Manual Remote Pressure

Signal Filters

- Input signal filter 1 to 60 sec

Logging & Data Storage

- Logging intervals ≥ 1 minute
- Real-time backup on 2 GB SD card
- Memory protection 10 years lithium battery

Data Transmission

- Cellular comms
- ≥ 10 minutes (default 1 per day)

Pressure Failsafe Security

- Loss of Flow signal
- Loss of Pressure
- Low battery

Enclosure & Display

- Dimensions H174 x W115 x D85mm
- Weight 0.9 kg
- PC/ABS plastic UV resistant
- Silicon sealed polycarbonate screen
- 1.5" OLED display 128 x 64 pixels
- IP68 Souriau sockets
- Wall mounting bracket in stainless steel
- LED operating status indication
- Alarm messages

Environment

- IP68 - Full immersion 2m water for 1 month
- Temperature range: - 10°C to +60°C

