



PROPORTIONAL VALVE CHECKER

One device for voltage & current controlled proportional valves



Key Highlights

- Precision control for proportional hydraulic valves
- Universal compatibility across proportional valve types
- Independent dual-channel operation
- Flexible parameter configuration through software
- Designed for industrial environments
- Ideal for commissioning, testing, and troubleshooting

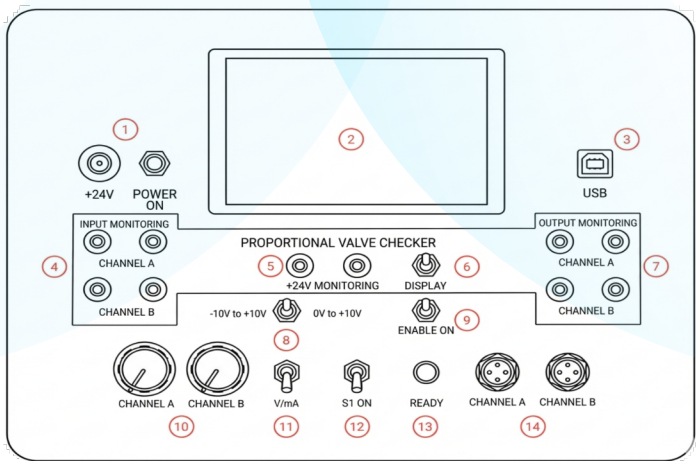


SPECIFICATIONS

The Proportional Valve Checker (PVC) is designed for accurate and reliable control of proportional hydraulic valves in industrial environments.

Electrical Specifications	• Power Supply: 24 VDC • Input Current: 5 A • Maximum drive: 2.6 A / Solenoid
Control Modes	• Voltage control: ± 10 V & 0–10 V • Current control: 4–20 mA
Configuration	• Parameter configuration via WPC software
West Amplifier Section	• Fitted Amp: PAM-199-P • Solenoid Socket: 2 no of 2 pin connectors • Max out Current: 2.6 A / Solenoid • Stable & Precise solenoid coil control
Signal Selection	• Nominal operating voltage: 24 V DC • Maximum current capacity: 5A
Command Signal	• Multiturn potentiometer
Carry Case	• Supplied with a compact and rugged carry case • Dimensions: 270 x 231 x 180 mm • Weight: 2.5 Kg approx

PANEL DESCRIPTION



1	24 V Power Input & Switch	Supplies 24 V DC and powers the unit ON/OFF
2	Display	4.3" HMI LCD Capacitive Touch Display Dual channel: Input/Output Commands, Signal modes, Input power.
3	PAM-199-P Amplifier	Proportional power amplifier configurable via WPC software
4	Input Voltage Monitoring	Test points to measure solenoid input voltage using a multimeter
5	24 V Monitoring Port	Test point to verify 24 V DC supply
6	Display / Multimeter Selector	Selects display or external multimeter monitoring
7	Output Current Monitoring	Test points for measuring solenoid output current in series
8	Control Range Selector	Selects -10 V to +10 V or 0 V to +10 V control range
9	Enable Switch	Enables solenoid current and actuates the valve spool
10	Voltage Control Knobs (A & B)	Adjusts control voltage in 0.1 V steps for Channel A and B
11	V / mA Selector	Selects voltage or current control mode
12	S1 ON Switch	Activates the selected control channel
13	Ready Indicator	Indicates the kit is ready for solenoid testing
14	Solenoid Output Connectors	Independent solenoid connections for Channel A and Channel B

FEATURES

- Portable electronic kit suitable for training engineers and field checking of proportional valves.
- Designed to interface with non-OBE proportional valves of any brand, subject to operating voltage and maximum solenoid current limits.
- Supports both voltage-command and current-command proportional valves.
- Provides precise control and monitoring of command signals without dependence on external machine controllers or PLCs.
- Integrated display and panel test points allow convenient monitoring of voltage and current signals, reducing the need for external instruments.
- Equipped with an integrated PAM-199-P proportional amplifier for accurate solenoid coil current control and repeatable valve performance.
- Amplifier parameters and solenoid current are configured through WPC software, enabling flexible and repeatable setup.
- Test points provided on the panel for easy verification of input voltage, output voltage, and solenoid current.
- Enables testing and verification of proportional valves without pressurized hydraulic systems, improving safety during checks.
- Suitable for bench testing, commissioning, troubleshooting, and maintenance activities.
- Designed for use with external proportional valves and solenoids, independent of valve-integrated electronics.

