Open and close valves in record time.

"Our lab has been using ValveLink controllers for years with good, reliable results. The new ValveLink8.3 is even smaller and faster than its predecessor. It also looks cool and the buttons feel nicer than the previous version. I use it manually or programmed by outputs from my stimulator. I haven't observed any noise from the valve system on my electrophysiology rig."

Hillel Adesnik, Ph.D.
Department of Cellular and Molecular Pharmacology
University of California, San Francisco

ValveLink8.3® Controller

- **ValveGuard™ technology detects bad valves**
  Prevent damage to your ValveLink8.3® and easily observe problem valves.

- **Run experiments automatically – even unattended**
  By running experiments automatically, AutoMate Scientific systems will leave you free to accomplish other tasks – saving you both time and money.

- **Microprocessor-based for accuracy and flexibility**
  Our low-cost ValveLink8.3 controller has powerful perfusion commands and capabilities not offered by competing valve drivers: open single or multiple valves, master channel for control/buffer solution, computer control.

- **Low noise & low voltage valve control**
  Designed for electrophysiology. CE marked for Europe.

- **Manual, TTL (digital), analog, and USB inputs**
  Control valves manually (by pushbutton) or by computer – simultaneously thanks to the microprocessor design. Optional spill sensor protects your equipment when a leak is detected.

VALVELINK8.3 CONTROLLER

ValveLink8.3 Controller

- Manual pushbuttons
- Red/green LED indicators
- 1.5 amp, 12V AC supply included
- Dimensions: 9.28" x 1.6" x 5.13"
- Weight: 3 lbs. (1.4 kg.)

- Eight TTL inputs directly activate 8 valves
- Or control 16 valves with only four digital outputs

Additional Features

- One analog input can control eight valves
- Analog event marker allows you to record all valve activity
- An optional spill sensor stops all valves when a leak is detected to protect your microscope and table. All LEDs blink until you press a button to continue.

Free ValveLink PC Software

- Control valves directly from your PC screen by USB
- Network multiple ValveLinks into a single, virtual instrument

ValveLink8.3s can switch 12V DC solenoid valves open and closed in one millisecond using full power, then hold-in at 1/2 power to prevent thermal transfer to your solutions. Low noise circuitry minimizes recording artifacts in electrophysiology. The ValveLink8.3 is less expensive than AutoMate Scientific's ValveBank controller. It is the controller of choice for dose response work. Both ValveLink8.3s and ValveBanks are designed for use with pClamp, Patchmaster, SutterPatch, et al. All AutoMate Scientific products include a one-year warranty.

ValveGuard™ technology detects bad valves to prevent damage to your ValveLink8.3 and easily observe problem valves. Front-panel LEDs are dark for broken or disconnected valves, or blink for short-circuited valves. Automatic networking lets you connect up to eight ValveLink8.3s to a USB hub and PC to create a single 64-channel controller. A ValveLink8.3 can power individual valves up to 1 amp (12 watts), and a total of 2 amps for all valves open simultaneously.

ValveBank or ValveLink8.3: Which controller is right for you?

Features	ValveBank	ValveLink8.3
CHANNELS	4 or 8 channels available	8 channels each + USB network to 64 channels
COMPUTER I/O	8 digital in, 8 digital out, serial (RS-232)	8 digital in, USB, analog input, event marker out
DIGITAL INPUTS	One pulse can start a ValveBank program, or TTL inputs each control 1 valve	One TTL input per valve, or demultiplex and control up to 16 valves with 4 inputs
PROGRAMMABLE	Yes- ValveBank keypad, EasyCode software or digital outputs from your data acquisition software	Only using real-time analog or digital outputs from your computer / data acquisition software.
SOFTWARE	Optional "EasyCode" software to pre-program ValveBanks (up to 16 ch.)	Free Windows real-time USB control and networking software for up to 64 valves at once
MANUAL CONTROL	External keypad	Front panel buttons
MANUAL FEATURES	1-on, primary channel, timed open, TTL outputs	1-on, primary channel
SPEED	10 milliseconds	1 millisecond
VALVE POWER	4 watts per channel or 8 watts total	Up to 12 watts (1 amp) per channel, 24 watts (2 amps) total
PRICE	Higher	Lower

Ordering Information

Part No.	ValveLink8.3 Controller
01-18	**ValveLink®8.3 digital/manual controller**
01-26	**ValveLink®16.3 digital/manual controller**
01-19	**BNC cable** - ValveLink8.3 to pCLAMP/Digidata, et al., 4 BNC plugs to DB-9
01-27	**BNC cable** - ValveLink16.3 to pCLAMP/Digidata, et al., 5 BNC plugs to DB-15
01-29	**USB cable** - USB-A male, USB-B male 10' cable
01-30	**USB hub** - 4 port unpowered
01-17	**Rack-mounting brackets** - ValveLink8.3 to standard 19" rack
	Cables for Heka/InstruTECH and LabView

U.S./Canada prices shown. International prices add 15%. Email or visit web store for latest prices.

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