

Opus Rocker Valve

Specification Highlights:

Compact Size:	10mm, with flow rates competing with typical 16mm valves
Orifice Size:	1.6mm
High Flow Rate:	Cv of .04 (water)
Low Internal Volume:	35µL
MTTF:	15 million cycles

Additional Features:

Ambient/Media Temperature:	0-50°C
Pressure Range:	-11 to 29PSI/-0.75 to 0.2MPa (from Common to NC/NO ports)
Built-in Power Saving Circuit:	3.7W In-rush, <=1W Hold
Power Connector:	Separate power connector for easy electrical hookup irrespective of fluidics
Indicator Lights:	Built-in LED
Construction:	Available manifold mount, or with bottom or side port sub-plates attached
Body Material:	PEEK
Diaphragm Materials:	EPDM, FKM, FFKM
Port Connections:	1/4-28, M6 port connections available. Optional port connections are available – please inquire.

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BECAUSE SUPPORT MATTERS
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Opus Rocker Valve

Optimal Flow from
a Compact Package



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The Opus Rocker Valve

The New Standard in Modern Fluidics is Here.

As a premier manufacturer of solenoid valves for OEM manufacturers of equipment used in clinical diagnostic and analytical chemistry applications, Bio-Chem offers the most durable and efficient solutions to meet the challenges of today's demanding fluidic applications. The Opus rocker valve, a unique entry into the valve marketplace, is reflective of Bio-Chem's tradition of design and engineering excellence.

As rocker valves quickly become the standard for many OEM instrumentation manufacturers requiring dependable fluid handling in a small space, Bio-Chem's Opus rocker valve provides a higher-flowing, more stable, and longer-lasting valve solution that sets a new standard in modern fluidics. ■■

Efficiency Has a New Name: Opus

Maximum Flow Rate. Minimum Footprint. Minimal Internal Fluid Volume.

No rocker valve achieves as high a fluid flow rate (0.04Cv) with such a small footprint (10mm) or internal fluid volume (35µl) as the Opus rocker valve. In fact, Opus provides the best ratio of width-to-Cv of any rocker valve available. Boasting a flow rate equal to that of larger 16mm valve competitors, Opus ensures greater processing efficiency at a fraction of the size.

When it comes to rocker valves, bigger isn't necessarily better.

The Opus compact 10mm footprint yields a significant additional benefit: reduced internal fluid volume and dead fluid 'carryover' volume. Opus makes great strides toward the ultimate goal of 'zero dead volume,' helping to substantially reduce both consumption of expensive reagents as well as additional costs and lost productivity associated with maintenance and cleanings – improving overall efficiency and profitability. ■■



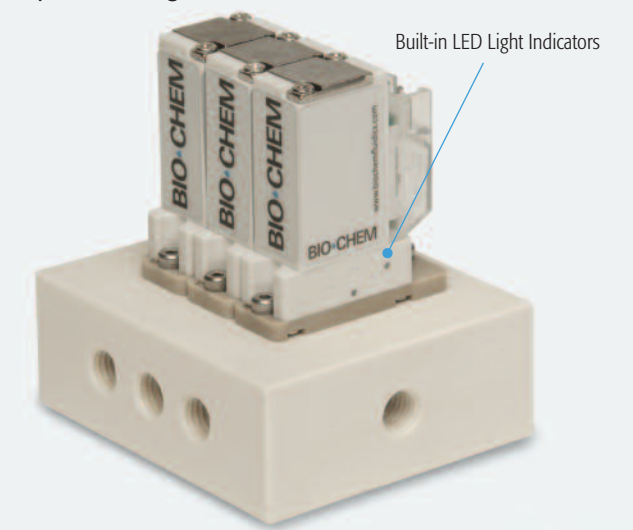
Maestro ULTRA with PEEK Head Shown with Mounted Opus Rocker Valve



A Rocker Valve You Can Really Count On

Long-Term Durability. Worry-Free Performance. 15 Million Cycles Strong.

Reliability is critical. The Opus rocker valve, like all Bio-Chem valves, is tested under typical real life usage, not idealized situations only imagined in test engineering environments. With a mean time to failure of 15 million cycles, Opus displays exceptional durability, making it perhaps the most dependable rocker valve on the market today. ■■



Opus Rocker Valves Manifold Mounted



Opus Rocker Valve – Shown with PEEK Material

3 Available Diaphragm Materials

The Custom Fluidics Solution

A Rocker Valve with Maximum Flexibility and Endless Possibilities.

The Opus rocker valve opens up new opportunities for OEM manufacturers, who now have the ability to develop more compact, highly efficient and durable diagnostic systems with reduced dead fluid volume and lower maintenance costs.

Opus provides OEM manufacturers with additional flexibility in material construction and mounting options. Its wetted components are made entirely from chemically-inert materials, making Opus particularly suitable for use in highly aggressive or high purity fluid applications.

Opus is also designed to be manifold mounted, providing endless configuration options when complemented by Bio-Chem's comprehensive manifold design services. Bio-Chem can develop custom-built manifolds to meet specific flow needs – from simple blocks for two devices to complex shapes with intricate flow paths for multiple devices. Opus can be mounted onto the Maestro ULTRA, combining Bio-Chem's ultimate piston pump and rocker valve technologies for a more integrated, efficient fluidic system. ■■

Bio-Chem believes that fluidics provide an essential part of OEM instrument operations and that better products improve performance and save money in overall operational costs. Opus fulfills the Bio-Chem promise. ■■