

# XR-6

Miniature Liquid Isolation Valve



ENGINEERING YOUR SUCCESS.

# XR-6 Miniature Liquid Isolation Valve

*"Miniature Size, Maximum Performance: The New Standard in Liquid Rocker Valves"*

## Highlights

### Phenomenal Performance

0.020" Orifice; Vacuum to 45 PSID  
0.030" Orifice: Vacuum to 30 PSID  
Only 3 Way Valve in 6 mm Class  
2.5 W Max, <0.7 W H & H



Face Seal (Manifold Mount)

### Ease of Integration

Bi Directional Flow  
Manifold, Barbed and Threaded Port Options  
Minimal Connector Profile



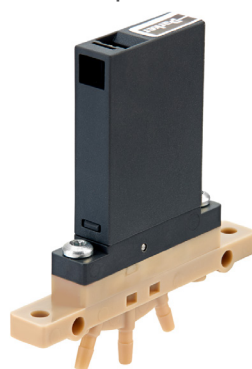
1/4-28 Threaded Ports

### Optimized Fluidics

Media Isolated  
Very Low Internal Volume  
Streamlined Flow Path to Reduce Carryover

### Maximized Outcomes

Reduced Instrument Size  
Increased Throughput  
Improved Time to Market  
Minimized Cost of Ownership



Barb Connections  
Fits 2mm ID Tubing

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## Product Specifications

Physical Properties	Electrical	Performance Characteristics
<b>Valve Technology:</b>	<b>Power:</b>	<b>Orifice Size &amp; Pressure Ranges:</b>
Diaphragm Rocker Isolation Valve	12 VDC, 24 VDC (+/- 5%)	0.020": 45 PSIG (3.1 bar)
<b>Valve Configurations:</b>	3 Watts Max (Hit and Hold Available)	0.030": 30 PSIG (2.1 bar)
2-Way Normally Closed	Typical <0.6 W Using Hit and Hold	<b>Proof Pressure:</b>
2-Way Normally Open	Hit and Hold Required for Operation	90 PSIG (6.2 bar)
3-Way Universal	<b>Resistance (Ohms):</b>	<b>Leak Rate:</b>
<b>Media:</b>	12 VDC: 66 Ohms	Internal: 0.15 SCCM Air
Liquids	24 VDC: 248 Ohms	External: 0.15 SCCM Air
<b>Operating Environment:</b>	<b>Connection:</b>	<b>Response Time:</b>
0 to 50°C (32 to 122°F) - EPDM	Molex Housing P/N: 51065-0200	20 msec Max at Room Temp
10 to 50°C (50 to 122°F) - FFKM	<b>Wetted Materials</b>	<b>Reliability:</b>
<b>Storage Temperature:</b>	<b>FFKM Version:</b>	10 Million Cycles
-20°C to 70°C (-4°F to 158°C)	Body: PEEK	Reliability Factor of 0.90
<b>Dimensions:</b>	Diaphragm and O Rings: FFKM	95% Confidence
Width: 0.26" (6.7mm)	<b>EPDM Version:</b>	
Length: 1.34" (34.2mm)	Body: PEEK	
Height: 1.13" (28.8mm)	Diaphragm and O Rings: EPDM	
<b>Porting:</b>	<b>Adaptor Plates:</b>	
Manifold Mount	PEEK	
1/4-28		
Barbs - 2mm Tubing		

## Ordering Information

Sample Part ID	945-	20	10	1	2	-000
Description	Series	Orifice Size	Valve Voltage	Configuration	Elastomer	
Options		20: 0.020" (0.508 mm)	12: 12 VDC	0: Non Vented	1: FFKM	Standard
		30: 0.030" (0.762 mm)	24: 24 VDC	1: Vented	2: EPDM	

Accessories (not included)	
290-006061-006:	Wire Leads with Molex Micro Latch Connector
195-000324-001:	1/4-28 Threaded Port Sub-Base
195-000325-001:	Barbed Sub-Base for 2 mm ID Tubing
191-000279-001	Mounting Screws, Torx #2x3/8" Zinc Plated

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Scan for more detailed information:



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The Precision Fluidics Division of Parker Hannifin is a leading supplier of miniature fluidic components and system solutions integral to the world's life sciences, life safety and high technology markets. Our innovations allow people to get more out of life. Our product portfolio includes miniature pneumatic, proportional and liquid control valves, diaphragm pumps, thermal mass flow and electronic pressure controllers, high-precision regulators and rotameters.

### Miniature Solenoid Valves



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### Miniature Liquid Valves



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### Miniature Proportional Valves



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For more information about our miniature liquid valve offerings, [visit our website](#).

### Pressure and Flow Control



For more information about our miniature liquid valve offerings, [visit our website](#).

### Customized Systems and Solutions

Our team of experienced engineers and technical support staff is dedicated to helping our customers find the right solutions for their specific needs. We work closely with our customers to understand their unique requirements and provide tailored solutions that meet their exact specifications.

