GAS CHROMATOGRAPHY

INTERNAL SAMPLING ROTARY VALVES (MRV-ISL)

Designed for the demanding conditions of the oil and gas industry

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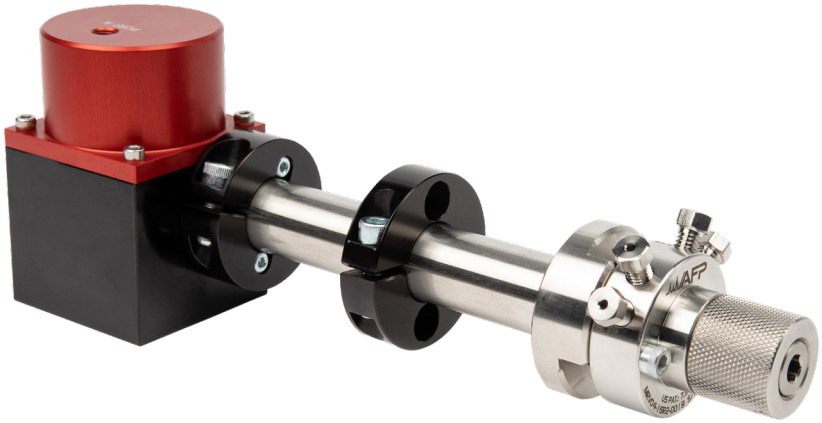
AFP
Schivo Group

MRV-ISL ROTARY VALVES

Designed for the demanding conditions of the oil and gas industry, AFP's expanded MRV valve family provides reliable, high-precision liquid sampling for gas chromatography.



With added internal sampling volume options, these valves ensure accurate, repeatable injections that support consistent analytical results in high-pressure environments. Built with Nitronic® 60 valve bodies to resist wear and galling, and AFP's proven PEEK/PTFE R2 rotor to maintain sample integrity, each valve performs reliably at up to 1,000 psi liquid and 225 °C. Compatibility with inert coatings further enhances performance with aggressive fluids, reducing contamination and extending service life. The result is a durable, versatile GC sampling solution optimized for critical oil and gas analyses.

KEY FEATURES:

Ports: 4
Temperature: 225°C
Pressure: 1,000 psi liquid
Material: Nitronic 60
Port Size: 0.015' or 0.025"' depending on function of model

BENEFITS:

- **High Durability**: High performance alloy increases lifespan of the rotary valve
- **Increased Sensitivity**: Maintain sample integrity thanks to the sealing performance of the AFP rotary valve
- **Higher Quality**: Every valve is leak tested before shipping at no additional cost
- **Extended Lifetime**: AFP's double stopper design minimizes wear, reducing maintenance needs and prolonging service life

As part of our portfolio expansion to better serve customer needs, AFP has broadened its MRV valve family with additional internal sampling volume options. These valves are engineered to deliver precise sample injections into the GC stream. Constructed from Nitronic 60 valve bodies and AFP's R2 rotor made of a PEEK/PTFE composite, they are also compatible with inert coatings—making them an excellent fit for demanding applications in the oil and gas industry.

- **Durable** – Nitronic 60 alloy resists wear and galling
- **Quality** – PEEK/PTFE AFP R2 rotors preserve sample integrity at 1,000 psi liquid and 225 °C
- **Proven** – Every valve is leak-tested before shipping, no added cost
- **Compatible** – Inert coating such as Dursan
- **Versatile** – Internal volumes from 0.05 µL to 3.0 µL

High Pressure 4-Port GC Internal Liquid Sampling Rotary Valve

Engineered for maximum efficiency, this 4-port Internal Liquid Sampling Gas Chromatography Rotary Valve is built with Nitronic 60 to resist wear and galling. This valve is designed to operate at a pressure of 1,000 psi liquid at 225°C and has an internal sampling loop making it ideal for demanding applications in the Oil and Gas Industry.

ORDERING INFORMATION

MRV-ISL 4-Port Replacement Valves

Internal Sampling Loop	Part No.	Competitor Part No.
0.05 µl	MRV04-16R2-0022-00	DCI4WE.06
0.1 µl	MRV04-16R2-0023-00	DCI4WE.1
0.25 µl	MRV04-16R2-0024-00	DCI4WE.2
0.5 µl	MRV04-16R2-0019-00	DCI4WE.5
1.0 µl	MRV04-16R2-0025-00	DCI4UWE1
2.0 µl	MRV04-16R2-0026-00	DCI4UWE2
3.0 µl	MRV04-16R2-0027-00	

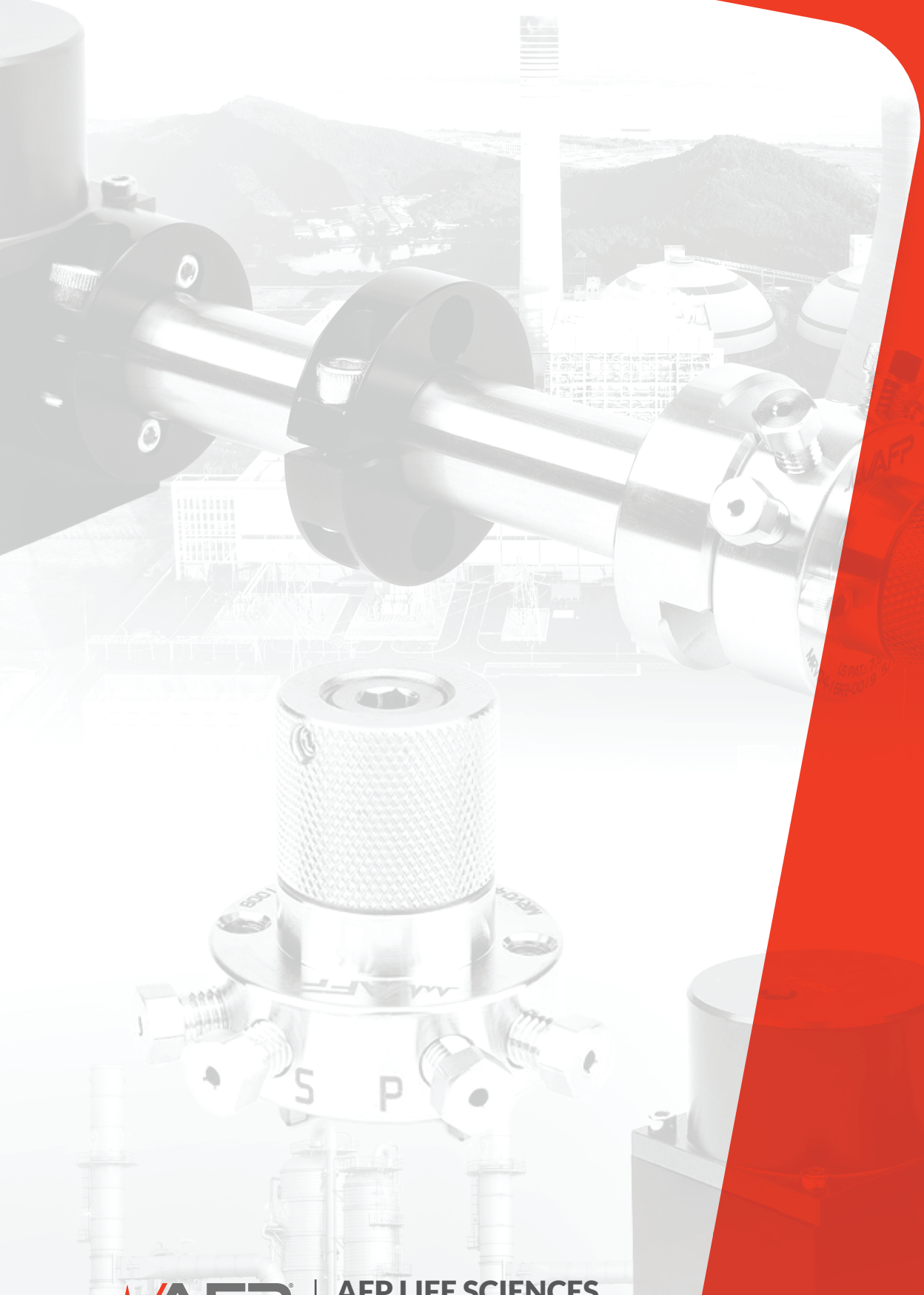
MRV-ISL 4-Port Closemount Configuration

Internal Sampling Loop	Part No.	Competitor Part No.
0.05 µl	MRV04-16R2-0022-CP	ACI4WE.06
0.1 µl	MRV04-16R2-0023-CP	ACI4WE.1
0.25 µl	MRV04-16R2-0024-CP	ACI4WE.2
0.5 µl	MRV04-16R2-0019-CP	ACI4WE.5
1.0 µl	MRV04-16R2-0025-CP	ACI4WE1
2.0 µl	MRV04-16R2-0026-CP	ACI4UWE2
3.0 µl	MRV04-16R2-0027-CP	

AFP: Precision Manufacturing for the Highest-Quality, Ultra-Reliable Valves

AFP's manufacturing capabilities produce high-quality, ultra-reliable rotary valves, diaphragm valves, and accessories that minimize leaks and downtime in chromatography systems. Our valves go through meticulous quality control and 100% testing to eliminate the need for OEM pre-production inspection and validation. This rigorous quality process ensures uninterrupted manufacturing flow for OEMs plus less maintenance and lower cost of ownership for end-users.

AFP is the preferred supplier for customers desiring the highest-quality chromatography valves and accessories that offer superior performance in the most challenging environments.



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