



MRV-ISL Internal Sampling Rotary Valves

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 μ L to 3.0 μ L

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.

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



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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	ACI4UWE1
2.0 µl	MRV04-16R2-0026-CP	ACI4UWE2
3.0 µl	MRV04-16R2-0027-CP	