

# Purged Rotary Valves

AFP's Purged Rotary Valves are engineered to elevate performance in gas chromatography by minimizing contamination risk while simplifying system design. Built around a uniquely integrated purge architecture, these valves eliminate common failure points associated with traditional sealing and external purge solutions, enabling more reliable operation under demanding conditions. With configurations to support a range of applications, high temperature and pressure capabilities, and compatibility across AFP actuation platforms, they deliver precision, durability, and seamless system integration. The result is a compact, cost-efficient solution that supports trace-level detection while reducing maintenance and total cost of ownership.

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# RVP Series

AFP's Purged Rotary Valves for Gas Chromatography systems feature a patented **real internal purged rotor** design. This feature eliminates the need for an external purged housing, or multiple o-ring seals that increase the risk of atmospheric contamination due to tendency to wear by friction under normal valve operation.

## Features

- 6 or 10 port
- Certified up to 225°C
- Certified up to 325 psi gas
- Compatible with AFP actuators and accessories
- The purged rotary valve can be offered with inert coatings (Dursan®)

## RVP Advantages

- Does not require an external purge box or purge housing
- Cost saving/space saving
- All RVP valves are leak-tested and certified and no additional charge

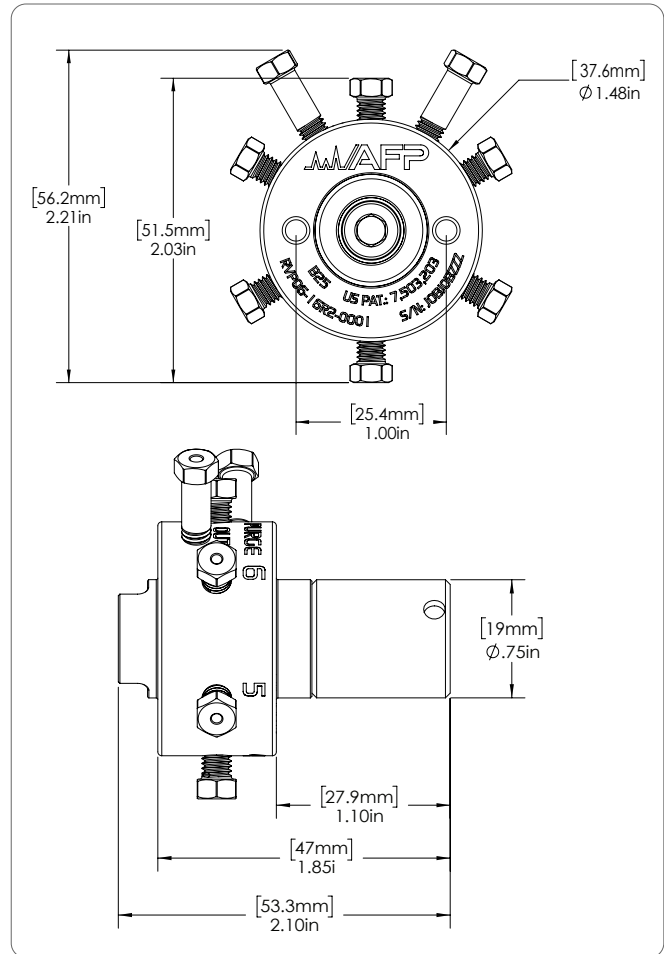
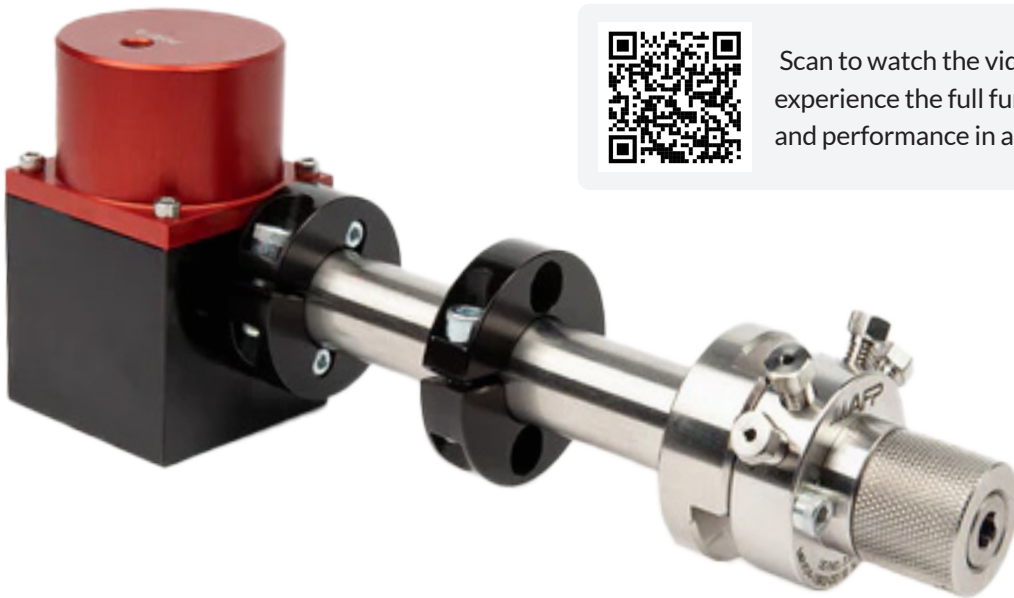
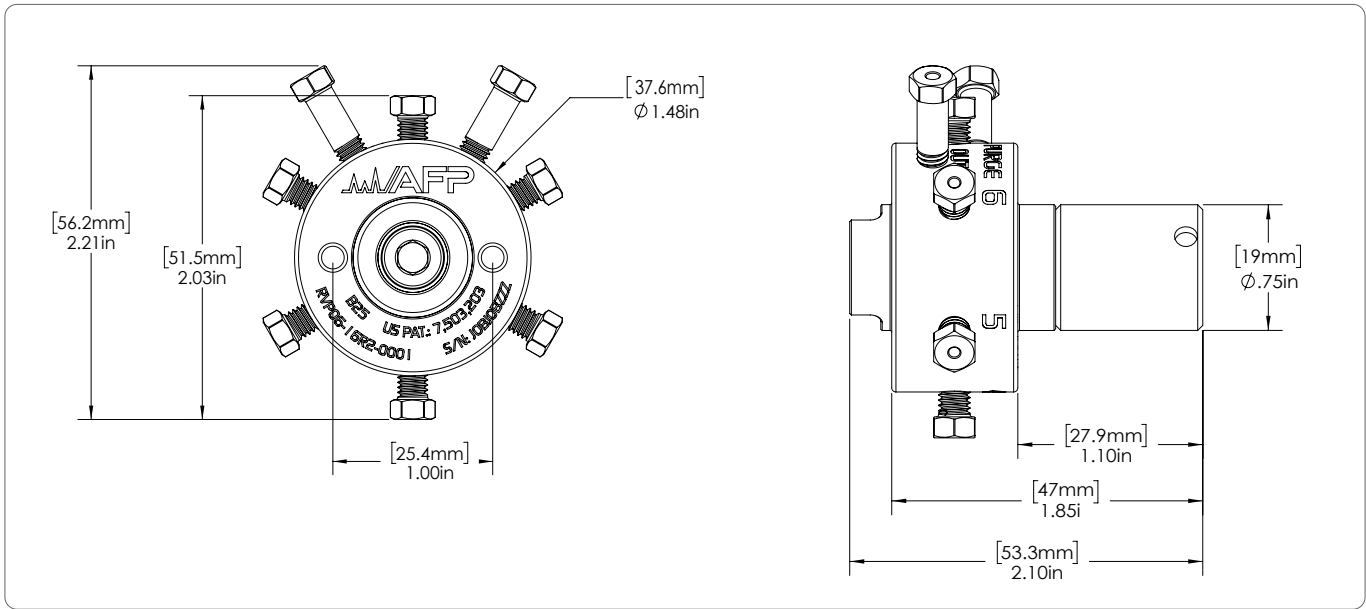


Figure 1. Valve dimensions.



Scan to watch the video and experience the full functionality and performance in action.

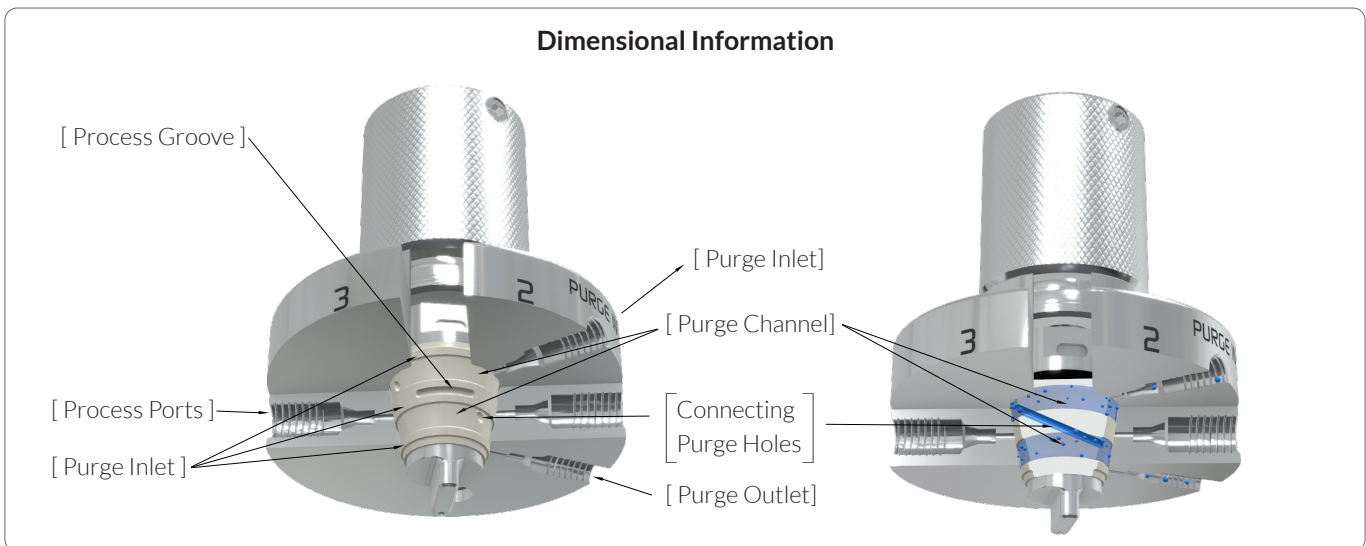


### Innovative Design

The patented design of the AFP's Purged Rotary Valve, including guiding pins and double stoppers, prevents inboard/outboard contamination and allows for ppb and trace detection limits.

### Lower Total Cost of Ownership

AFP's Purged Rotary Valves are designed with lower total ownership costs in mind. No external purge box is required, which simplifies the design and creates a smaller footprint. No external o-rings are used in the valve, which removes failure points. The Purged Rotary Valves are developed to be compatible with AFP's standoffs and actuators, which allows for an easy upgrade for current systems.



## RVP Purged Rotary Valves and Replacement

Product Description	AFP SKU	Competitor SKU
Internally Purged Sampling Valve 6 ports   225°C   325 psi	RVP06-16R2-0001-00	DC6UWEPI
Internally Purged Sampling Valve 10 ports   225°C   325 psi	RVP10-16R2-0001-00	DC10UWEPI
Internally Purged Sampling Valve 6 ports   225°C   325 psi <i>Assembled on a pneumatic actuator with a 4" standoff</i>	RVP06-16R2-0001-4P	A4C6UWEPI
Internally Purged Sampling Valve 10 ports   225°C   325 psi <i>Assembled on a pneumatic actuator with a 4" standoff</i>	RVP10-16R2-0001-4P	A4C10UWEPI
Internally Purged Sampling Valve 6 ports   225°C   325 psi <i>Assembled on a electronic actuator with a 4" standoff</i>	RVP06-16R2-0001-4I	EUDA-4C6UWEPI
Internally Purged Sampling Valve 10 ports   225°C   325 psi <i>Assembled on a electronic actuator with a 4" standoff</i>	RVP10-16R2-0001-4I	EUDA-4C10UWEPI
Internally Purged Sampling Valve Dursan® coated 6 ports   225°C   325 psi	RVP06-16R2-0002-00	N/A
Internally Purged Sampling Valve Dursan® coated 10 ports   225°C   325 psi	RVP10-16R2-0002-00	N/A

Contact AFP for information on cables, power supply and other configurations not mentioned in this document.

## 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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