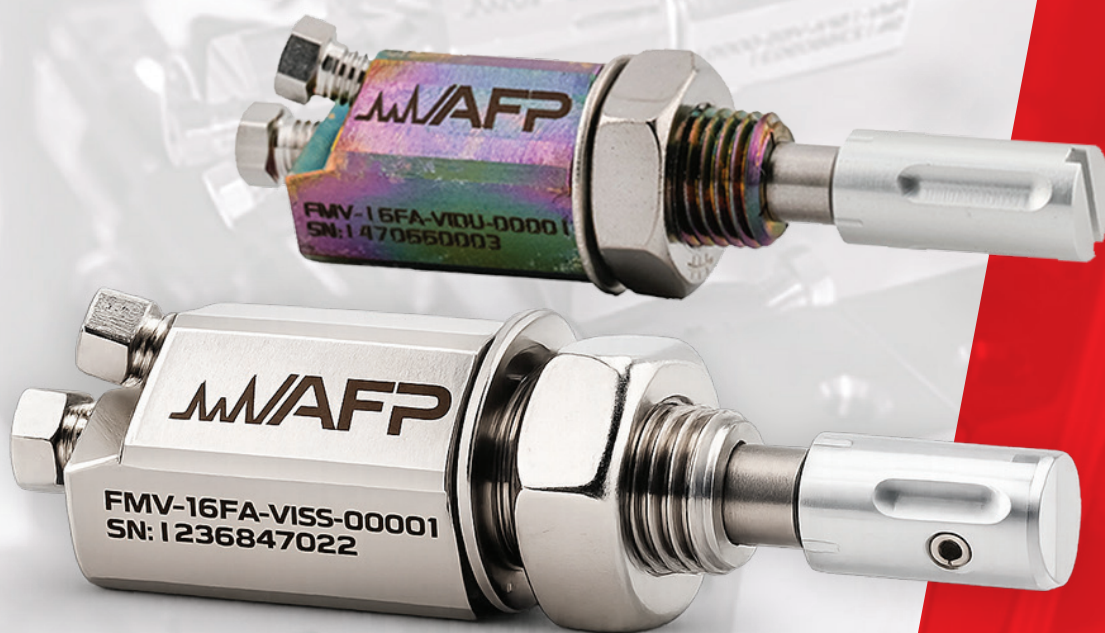


GAS CHROMATOGRAPHY

FLOW METERING VALVES



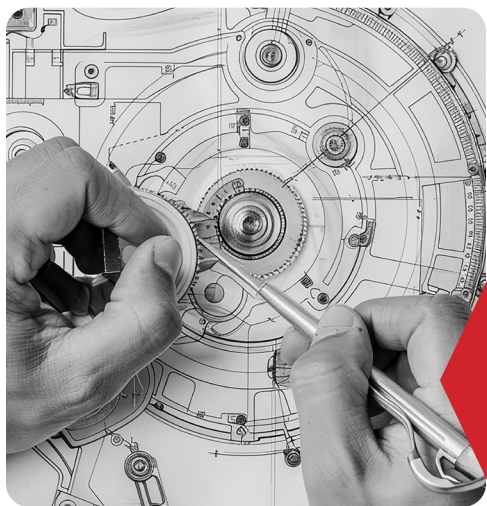
**Flow control solutions
engineered to deliver precise,
reliable gas management**

www.afplifesciences.com

MAFP[®]
Schivo Group

PRECISE GAS FLOW SOLUTIONS

AFP's flow control solutions are engineered to deliver precise, reliable gas management for today's most demanding analytical and gas chromatography applications.



Designed for seamless integration into analytical instruments and OEM platforms, AFP products combine exceptional performance with robust chemical resistance and compatibility with standard GC connections. From laboratory environments to advanced process systems, AFP flow control technologies help ensure stable operation, accurate flow regulation, and dependable analytical results.

At the core of the product family is AFP's precision-engineered Flow Metering Valve platform, available in multiple configurations to support a wide range of application requirements.

Complementing the portfolio, the AFP Needle Valve was specifically developed to provide the high-resolution adjustment and superior sealing performance essential for trace analysis and other high-sensitivity applications. Together, these solutions enable instrument manufacturers and laboratories to achieve greater control, repeatability, and confidence in critical gas flow applications.

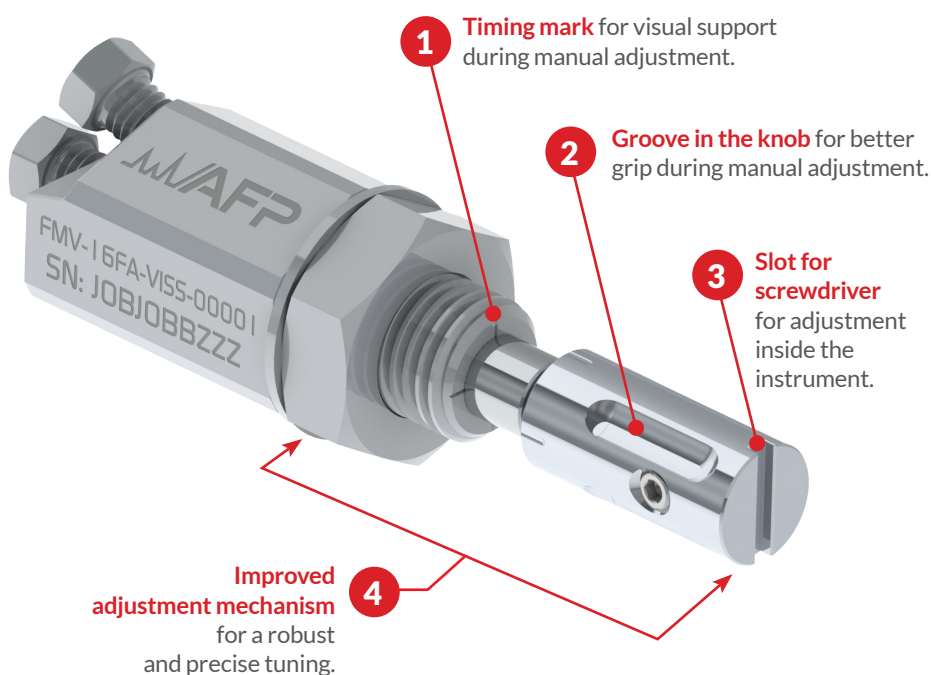
High-resolution adjustment and sealing for trace analysis.

The AFP needle valve was designed to provide a high resolution adjustment and sealing performance required in trace analysis.

Timing marks and screw driver compatibility on the body of this product provide the operator additional tools to achieve precise adjustment in laboratory and process gas chromatographs.

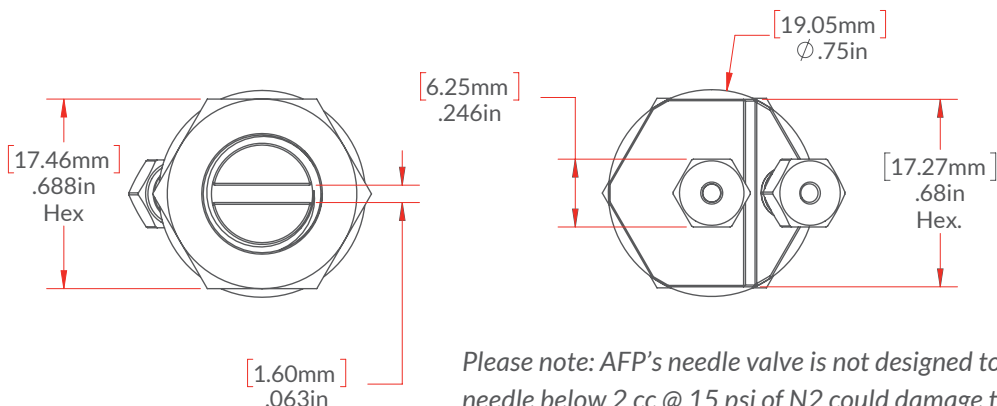
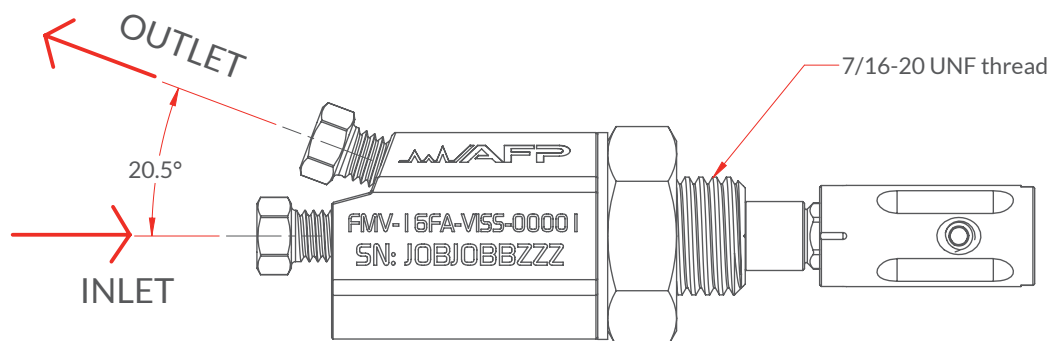
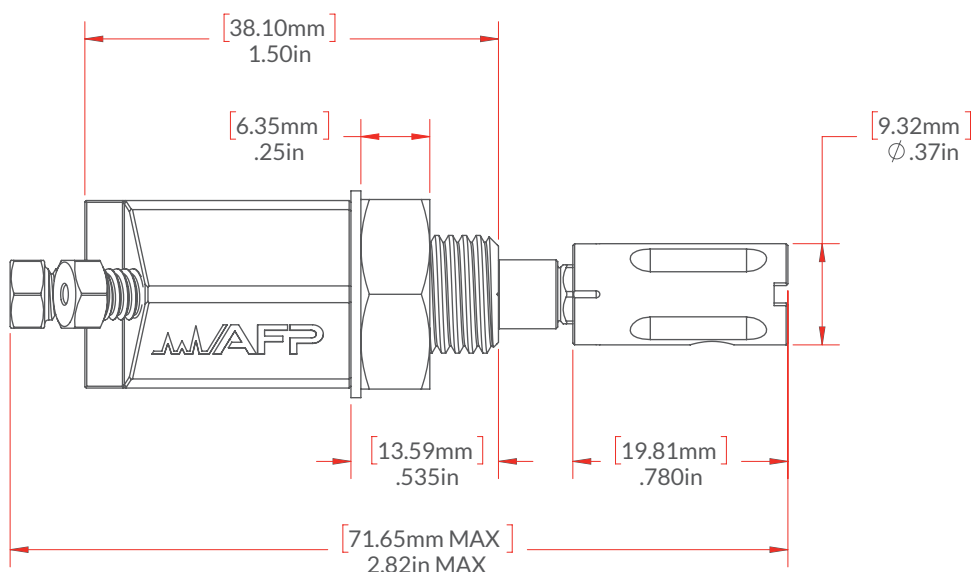
ADVANTAGES

- Better sensitivity for smoother adjustment.
- Stability over time, less drift caused by the adjustment knob.
- Available with Dursan® coating for H2S



VERSATILITY. PRECISION. STABILITY.

AFP Flow Metering Valves combine broad flow-range capability, high-resolution adjustment, and exceptional setting stability in a single platform—helping instrument manufacturers and laboratories simplify fluidic designs while maintaining precise and reliable flow control.



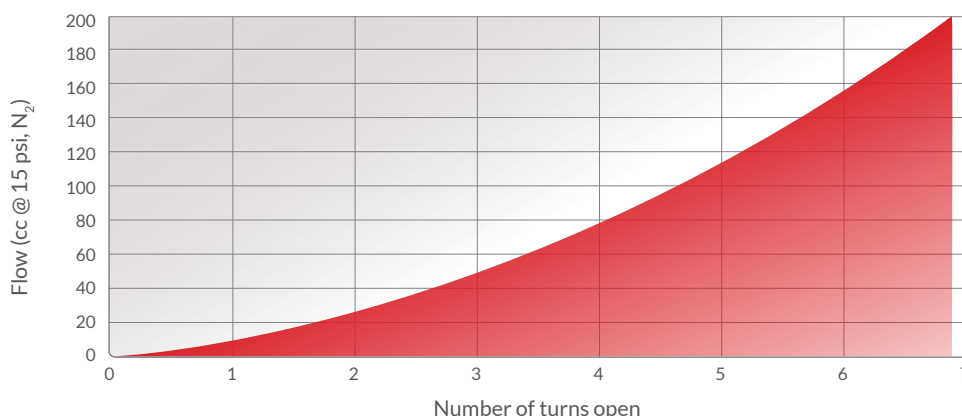
The AFP Needle Valve delivers the high-resolution adjustment and superior sealing required for trace analysis and high-sensitivity applications.

Please note: AFP's needle valve is not designed to provide a complete shut off. Closing the needle below 2 cc @ 15 psi of N2 could damage the product irreversibly.

FEATURES & BENEFITS

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

TYPICAL FLOW CURVE - FMV-16FA-VISS-00001



Product Description	AFP Part No.	Competitor Part No.
Lubricated:		
 Flow Metering Valve, 1/16" fine adjustment, Viton, SS300, short nut, 10 µm frit, clear, lubricated	FMV-16FA-VISS-00001	ZBNV1, ZBNV1F, ZBNV1LF
 Flow Metering Valve, 1/16" fine adjustment, Viton, Dursan, short nut, 10 µm frit, clear, lubricated	FMV-16FA-VIDU-00001	N/A
Non-Lubricated:		
 Flow Metering Valve, 1/16" fine adjustment, Viton, SS300, short nut, 10 µm frit, clear, Non-lubricated	FMV-16FA-VISS-00011	ZBNV1-D, ZBNV1F-D, ZBNV1LF-D
 Flow Metering Valve, 1/16" fine adjustment, Viton, Dursan, short nut, 10 µm frit, clear, Non-lubricated	FMV-16FA-VIDU-00011	N/A

FEATURES

Universal Flow Coverage

A single valve design supports ultra-fine through high-flow applications, reducing SKU complexity and streamlining inventory management.

Precision-Engineered Control

Uniform knob tension combined with enhanced adjustment resolution provides accurate, repeatable flow control and simplified system setup.

Drift-Resistant Performance

Designed to maintain adjustment settings under vibration and routine handling, helping ensure long-term flow stability and process reliability.

BENEFITS

One Valve. Multiple Flow Ranges.

Cover ultra-fine, medium, and high-flow applications with a single valve platform. Reduce part numbers, simplify inventory management, and lower overall ownership costs.

Precision Adjustments Made Easy.

Engineered with consistent knob tension and enhanced adjustment resolution, the AFP Flow Metering Valve delivers smooth, repeatable control for technicians of all experience levels.

Stable Performance You Can Trust.

The valve's optimized tension mechanism helps prevent unintended movement from vibration, handling, or accidental contact, maintaining flow settings and preserving analytical consistency over time.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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