

## Another Revolution – More for Less !

In 2008, Analytical Flow Products, a new Canadian start-up company, shocked the chromatography community by introducing the first major design improvement in GC Diaphragm Valves since 1961. The **MDVG series, Premium Grade High Performance GC Diaphragm Valve**, was redesigned from the ground up and has completely re-written the book on valve technology. Patented technology such as the introduction of purge grooves has made it possible to analyze samples in the ppt range – reliably.

In this cost conscious world today, not everyone needs the top-of-the line. Analytical Flow Products is pleased to announce the introduction of the **ELDV series – Entry Level, Low Cost, High Performance, GC Diaphragm Valve**. The same patented technology that has garnered world-wide acclaim is now available with an aluminum base which decreases the cost and the weight, yet maintains all the features and benefits of its premium big sister (MDVG).

A special grade of aluminum has been selected and then treated to provide an extremely hard and inert surface. So inert that the cap can also be machined from the same special aluminum, further decreasing the cost and the weight. The Purge Grooves significantly add to the performance and value of the valve, but if your application is not dependant on this feature, it is possible to order your valve without the grooves – further decreasing the cost.

All features and benefits that are standard with the **Premium Grade MDVG series** are available on the new **ELDV series**, including:

- **Purge Grooves** – eliminate permeation and inboard / out-board contamination (optional with the ELDV series)
- **Purge Grooves** – allow vacuum operation
- **Purge Grooves** – create an inert atmosphere under the diaphragm for hazardous operation
- **Purge Grooves** – allow real time monitoring to indicate the operational status of the valve
- **Multilayer Diaphragms** – provide an inert flexible material to prevent permeation, diffusion and gives a high level of sealing
- **Relief Pins** – ease the process of diaphragm replacement in the field by pulling down all plungers
- **Relief Pins** – for long term storage
- **Plunger Design** – incorporates precisely machined metal with tight tolerances
- **Plungers** – are tied to the pistons – pushed up and pulled down – can operate in any orientation
- **Plungers** – have the driving force applied across the entire base, giving equal sealing force on the diaphragm.

All Valves are MS tested at no additional charge and shipped in individual shrink-wrap packages.

**Remember – INNOVATION IS JUST ONE OF OUR MANY PRODUCTS !**

<b>PRICE COMPARISON</b>				
<b>VALVE TYPE</b>	<b>DV-22</b> (Valco)	<b>ELDV1</b> (Aluminum body & valve cap)	<b>ELDV2</b> (Aluminum body & SS-316L valve cap)	<b>MDVG</b> (All SS-316L body & valve cap)
<b>6 PORTS</b>	\$1,035	\$795	\$975	\$1,265
<b>10 PORTS</b>	\$1,200	\$925	\$1,140	\$1,438
*all prices (\$ US)	<b>Valco:</b> - Extra cost: Adaptor and mounting clamp - Mass spectrometer leak tested (\$150) additional		<b>AFP:</b> - Includes: all nuts & ferrules, adaptor and mounting clamp - Mass spectrometer leak tested (standard on each valve)	
Purge feature is standard on MDVG-series, add \$125 for purge feature on ELDV-series.				

**Visit our website for full description of products and performance.**