

VD510

Diaphragm Valve



The VD510 is a diaphragm valve designed for precise flow control of low to medium viscosity materials. The diaphragm separates the wetted parts from the moving parts and, therefore, the valve is ideal for dispensing cyanoacrylates, reagents, electrolytes, glues, solvents, paints, alcohol and other volatile substances.

When air pressure is applied to the VD510 valve, the valve will open and the material will be dispensed. At the end of the dispense cycle a spring assists the diaphragm to return quickly to its closed state for immediate shut-off. Shot sizes may be fine tuned by turning the stroke adjustment at the top of the valve.

Features

- Stroke adjustment to fine tune shots
- Separated wetted parts
- Suitable for robot integration
- suitable for anaerobic fluids

Models

VD510	Diaphragm valve
VD510-SS	Stainless steel diaphragm valve
VD510-UV	UV suitable diaphragm valve

Sales & Support

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Specifications

Operating air pressure:	60-85 psi
Material delivery pressure:	71 psi
Flow rate maximum:	0.3 L/min
Minimum shot size:	0.001cc (material dependant)
Driving part materials	
Body:	AL (hard coated)
Piston:	SUS303
Piston Seal:	NBR
Wetted part materials:	UHMWE-PE
Connecting ports	
Air Input:	M5xP0.8
Material Inlet:	1/8" NPT
Material Outlet:	Luer lock
Weight:	76g