

VD520 Diaphragm Valve

The VD520 series of diaphragm valves are designed for accurately controlling the dispensing of low to medium viscosity materials. Fluid flow rate is precisely controlled through the valve and fine-tuned using the stroke adjustment knob.

The inert diaphragm separates the wetted parts from the moving parts, thus making these valves ideal for dispensing cyanoacrylates, anaerobics, reagents, paints, UV adhesives, and other volatile substances.



Item Number	Description
VD520-PT	Diaphragm Valve - PTFE Fluid Body
VD520-SS	Diaphragm Valve - Stainless Steel Fluid Body

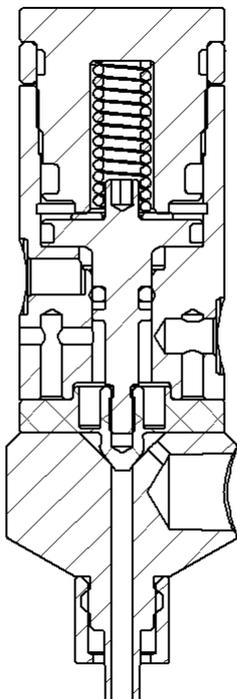
Features

- Stroke adjustment for precise flow control
- Separated wetted parts
- Durable, compact size & lightweight design
- VD520-PT diaphragm valve suitable for cyanoacrylate and anaerobic adhesives
- VD520-SS diaphragm valve suitable for UV cure adhesives and lubricating oils

Benefits

- Accurate & repeatable dispense volumes
- Low maintenance, easy to clean design
- Fast & clean positive shutoff eliminates dripping
- Simple to setup, adjust, and operate
- Unrestricted material flow path reduces turbulence and micro-bubbles

Section View



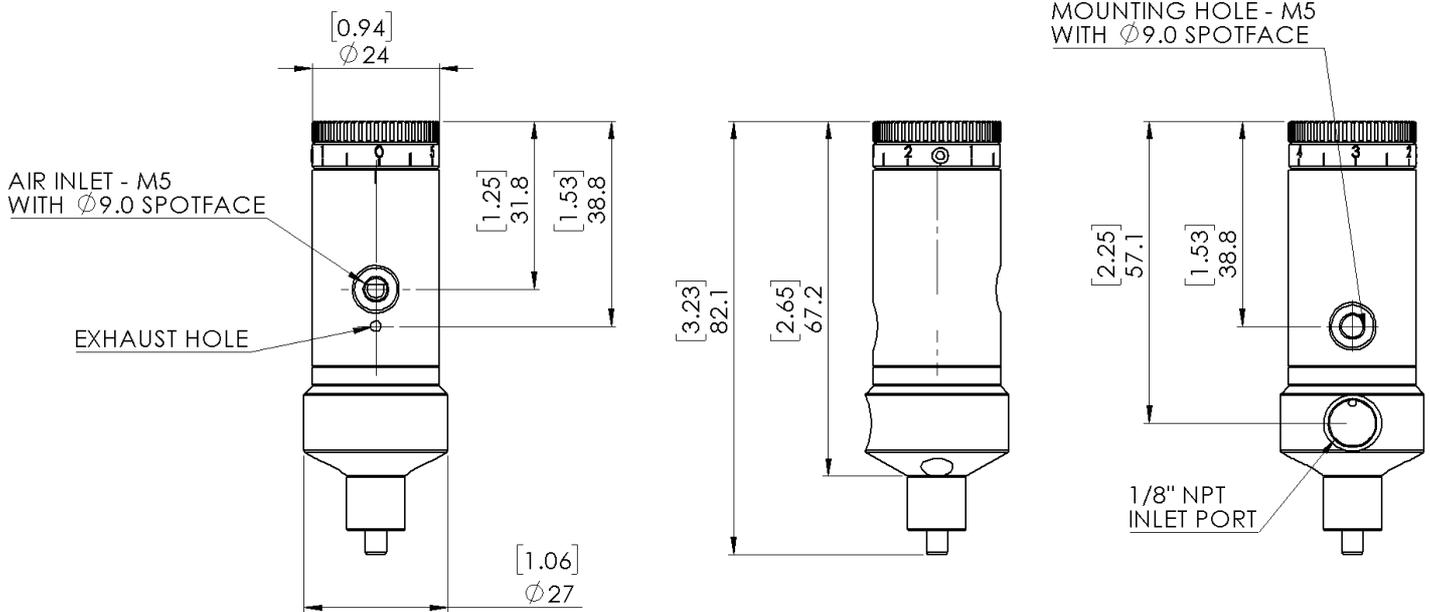
Valve Operation

When air pressure is applied to the VD520 valve, the valve diaphragm retracts and the material is 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 knob at the top of the valve.

Accessories (sold separately)

Item Number	Description
VD520PT-RK	Valve Repair Kit PT
VD520SS-RK	Valve Repair Kit SS
562043U	Valve Stand

VD520 Diaphragm Valve



Specifications

Item Number	VD520-PT	VD520-SS
Operating Air Pressure	70 - 100 psi (4.8 - 6.9 Bar)	
Cycle Rate	Up to 500 cycles / min	
Max. Fluid Pressure	70 psi (4.8 Bar)	
Max. Flow Rate (H2O @ 70psi)	60 ml/sec	
Valve Body Material	SUS303	
Diaphragm Material	PTFE	UHMW-PE
Fluid Body Material	PTFE	SUS303
Tip Retaining Nut Material	SUS303	
Air Input Thread	M5 x 0.8	
Fluid Inlet Thread	1/8" NPT	
Mounting Hole	M5 x 0.8	
Weight	167g (0.37lb)	207g (0.46lb)

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