

IJF VD510 Diaphragm Dispensing Valve for Adhesives, CAs, Inks and Low to Medium Viscosity Liquids



Description

The **IJF VD510 Diaphragm Dispensing Valve** is designed for precise flow control of low to medium viscosity liquids. The diaphragm separates the wetted parts from the air supply and therefore it is ideal for dispensing [cyanoacrylates](#), reagents, [UV/light curing adhesives](#), paints, inks, solvents, glues, electrolytes, alcohol and other volatile substances.

Features & Benefits

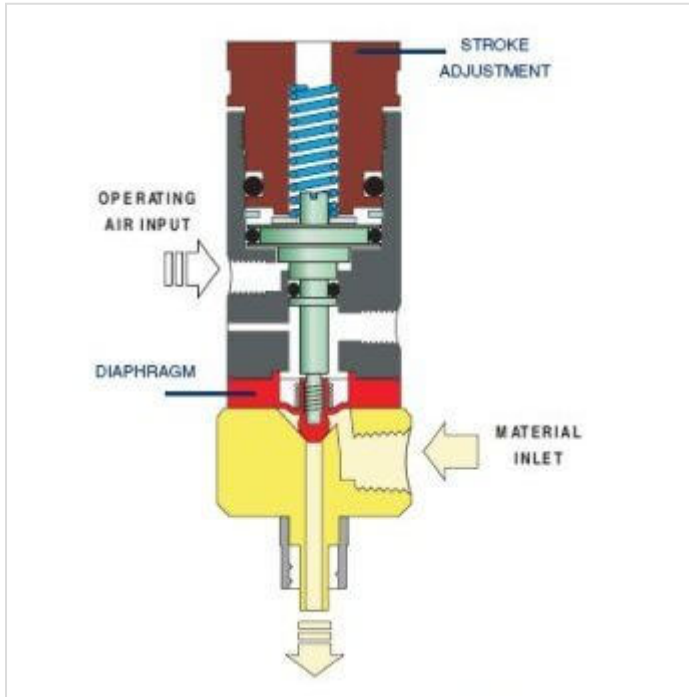
- Suitable for dispensing low to medium viscosity materials such as acids, adhesives, UV adhesives, solvents, alcohol, cyanoacrylates, reagents, inks, lubricants and more
- Suitable for dispensing hazardous materials
- Stroke adjustment feature provides shot size control allowing for the ability to dispense dots, beads, micro dots, micro beads and for potting/filling
- Minimum shot size 0.001ml
- High cycle rate of 500 shots a minute
- Separated wetted parts
- Ideal for machine integration

The valve is opened by an air pressure pulse supplied by a valve controller (e.g. [EIS DC100 precision dispensing controller](#)). A heavy-duty spring assists the diaphragm to quickly return to its closed state for immediate shut-off. The **IJF VD510** is recommended for high frequency micro shot deposits. Shot

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sizes may be fine tuned by turning an adjustment control at the top of the valve.



Specifications

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Operating air pressure	60-90 psi
Maximum fluid pressure	5.0kg/cm ²
Cycle rate	500 cycles a minute
Flow rate	0.3 litres/min
Minimum shot size	0.001ml (material dependent)
Valve weight	76g
Driving part materials	Body: Al (hard coated, black) Piston: SUS303 Piston Seal: natural butyl rubber
Wetted part materials	Valve head: UHMW Polyurethane Diaphragm: UHMW Polyurethane
Connecting Ports	Operating air inlet: M5xP0.8 Material inlet: 1/8" NPT Material outlet: luer lock

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Ordering Information

Part number	Description
IJFVD510	Diaphragm valve
IJFVD510-UV	Diaphragm valve – black – fully opaque for light sensitive materials
IJFVD510-SS	Diaphragm valve – stainless steel construction
IJFVD510-5	Replacement diaphragm
IJFVD510-5-BLACK	Replacement diaphragm (black) for UV blocking

Supplied by:

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Last updated: March 2017 Version: 4.0

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