

# VDP150

## Volumetric Positive Displacement Valve



The VDP150 plunger pump is a pneumatically operated positive displacement valve designed for dispensing constant volume shots of low to medium viscosity materials within 1%. The VDP150 has two integral check valves to control the flow of material.

The valve is cycled by applying air pressure to the air ports. For low viscosity materials (less than 5,000cps) no fluid pressure is required, as the material is drawn into the displacement chamber by the plunger. Low fluid pressure is required for medium viscosity materials of 5,000 - 20,000cps.

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

### Features

- Positive displacement metering
- Integral inlet/outlet check valves
- Stroke adjustment to fine tune shot size

### Models

VDP150 Positive displacement valve

### Sales & Support

**Fisnar**  
Global Headquarters  
Tel: 1 (973) 646-5044  
www.fisnar.com

**Fisnar Europe**  
European Headquarters  
Tel: +00 44 (0) 1355 577 222  
www.fisnareurope.co.uk

**Fisnar Asia**  
Asia Headquarters  
Tel: 852-2389-2827  
www.fisnareurope.co.uk

### Specifications

Operating air pressure:	60-85 psi
Material delivery spring:	ø0.3mm - 4.26psi
Material delivery spring:	ø0.5mm - 17.06psi
Cycle Rate:	120 cycles/min.
Minimum shot size:	0.005cc
Maximum shot size:	0.15cc/cycle
Measuring type:	Plunger
<i>Driving part materials</i>	
Cylinder Body / Cap:	AL hard anodized
Piston:	SUS303
Check Body:	SUS303, RULON
<i>Wetted part materials</i>	
Chamber,CAP, CV body:	SUS303
Plunger:	SUS420 (tin coating)
Check valve:	PEEK
O-rings:	Purfluore
<i>Connecting ports</i>	
Air Input:	M5xP0.8, 4mm fitting
Material Inlet:	1/8" NPT
Material Outlet:	Luer lock
Weight:	172.4g