

DV-6000 SERIES: ROTARY POSITIVE DISPLACEMENT

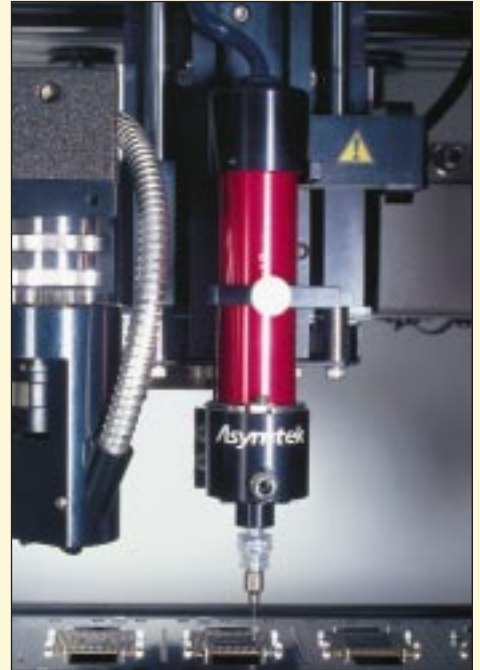
The DV-6000 pump was created to provide reliability and dispensing consistency based on our years of experience with a wide range of fluid types. The DV-6000 pump is designed to accurately dispense medium- to high-viscosity fluids and pastes. The valve motor can be reversed to create a fluid snuff-back. The DV-6000 pump dispenses lines, dots, arcs, and micro-pots for encapsulation. Typical fluids include surface mount adhesives, solder pastes, gold- and silver-filled adhesives and encapsulants.

Motor speed can be adjusted to maximize the dispensing consistency for each pump design and fluid type. The speed control has a multi-turn, high-resolution knob, which is easily adjusted and can be locked at the desired setting. The numbered speed control knob helps you document the dispensing process for statistical process control (SPC).

Currently, eight models are available:

- DV-6221:** Wide variety of dispensing applications and fluids, including surface mount adhesives and solder paste.
- DV-6222:** Small shot-size applications like solder paste and silver epoxy.
- DV-6422:** Small shot-size applications of fluids that are prone to separation.
- DV-6231:** Large shot-size applications of nonabrasive fluids.
- DV-6121:** Delrin® model. Good for use with fluids that are incompatible with anodized aluminum or brass, like UV cure adhesives.
- DV-6321:** Carbide standard model. Medium shot-size applications of abrasive fluids such as cavity fill encapsulants.
- DV-6322:** Carbide fine-pitch model. Small shot sizes of abrasive fluids such as underfill.
- DV-6331:** Carbide high-output model. Large shot sizes of abrasive fluids such as cavity fill encapsulants.

See the specifications and diagram on the back for more details.



FEATURES

- Easy to clean
- Disposable fluid feed elbow
- Less sensitive to pressure fluctuations
- Easy syringe installation and removal
- Closed-loop motor control
- Compatible with a wide range of standard needle sizes
- Speed control knob with numbered settings
- Rotary auger pumping for consistent dispensing of dots and lines
- Reversible motor provides snuff-back for clean fluid cutoff

CHOOSING THE RIGHT MODEL

PUMP*	DESCRIPTION	MOTOR SLEEVE	WETTED PARTS	APPLICATION
DV-6221	Standard	Gold	Stainless and hardened steel, anodized aluminum, Teflon®	Medium shot sizes, SMA and solder paste
DV-6222	Fine pitch, high pressure	Gray	Stainless and hardened steel, anodized aluminum, Teflon	Small shot sizes, especially solder paste and silver epoxy
DV-6422	Fine pitch, low pressure	Green	Stainless and hardened steel, anodized aluminum, Teflon	Small shot sizes of certain solder pastes and epoxies that are prone to separation
DV-6231	High output	Red	Stainless and hardened steel, anodized aluminum, Teflon	Large shot size applications requiring a flow of 50-100 mg/sec
DV-6121	Delrin®	Black	Delrin (acetal), Teflon	Fluids incompatible with anodized aluminum, like UV cure adhesives
DV-6321	Carbide auger, standard	Blue	Stainless and hardened steel, anodized aluminum, carbide, Teflon	Medium shot sizes of abrasive fluids such as cavity fill encapsulation materials 50-200 mg
DV-6322	Carbide auger, fine pitch, high pressure	Violet	Stainless and hardened steel, anodized aluminum, carbide, Teflon	Small shot sizes of abrasive fluids such as underfill and cavity fill encapsulation <50 mg
DV-6331	Carbide auger, high output	Yellow	Stainless and hardened steel, anodized aluminum, carbide, Teflon	Large shot sizes of abrasive fluids such as cavity fill encapsulation ≥100 mg

* The last three digits of the part number, DV-6XYZ, indicate the valve configuration (X=body design, Y=auger cut depth, Z=auger pitch).

DV-6000 SPECIFICATIONS

Dimension: Valve+syringe: 182.6 mm (7.2 in.)

Output Thread: Standard male luer lock

Operating Speed: 0-300 RPM

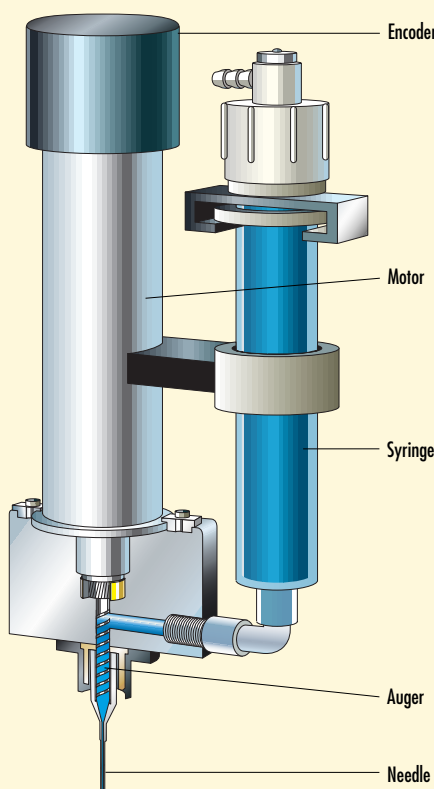
Air Pressure Required: *When using paste:* 69-103 kPa (10-15 psi) [0.7-1.0 bar]
When using fluid other than paste: 69-276 kPa (10-40 psi) [0.7-2.8 bar]

Air Pressure Input: Standard Asymtek receiver head

Motor: Closed-loop control with encoder feedback

Motor Life Cycle: >15 million cycles with no degradation

Compatibility with Asymtek's DV-06 Valve: Upgrade kit required



Please contact these locations for the name of your local representative.

HEADQUARTERS

2762 Loker Avenue West
 Carlsbad, CA 92008-6603 USA
 Toll Free: 1-800-ASYMTEK
 Tel: (760) 431-1919
 Fax: (760) 431-2678
 Email: info@asymtek.com

INTERNATIONAL SALES

Europe: +31 (0) 43-352-4466
 Japan: +81 (0) 3-5762-2801
 Korea: +82-347-766-8321
 S.E. Asia: +65 (0) 7782511
 Taiwan: +886-2-82001268
 Australia: +61 (0) 2-9838-7144

Web Site: www.asymtek.com

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 All specifications are believed to be a true and accurate representation of system capabilities and are subject to change without notice.
 Contact Asymtek for your specific application requirements.