

# ASYMTEK Qadence System

## Closed-Loop Flow Control for Conformal Coating

### Features and Benefits

- **Improved product reliability** — Take control of the conformal coating process with set process limits to achieve target flow rates and precise application volumes. After process limits are set, target flow rates are continuously monitored for adherence throughout production. If the process falls outside precise application volumes, a control routine (patent pending) is activated to make corrective adjustments – reducing downtime and limiting operator intervention.
- **Built-in traceability** — Flow rate and volume data can be exported for SPC analysis, supporting quality documentation and process optimization initiatives.
- **Faster setup and changeover** — Easily match flow rates during changeovers or across two valves in a single application. The built-in Flow Calculator in EasyCoat® software lets you quickly calculate and set process limits, cutting average setup time by 50% or more. With the Flow Calculator, a typical one-hour setup can be completed in just 30 minutes, while a 30-minute setup can be reduced to less than 10 minutes.
- **Reduced labor and rework** — Automated flow stabilization minimizes manual tuning, masking, and rework caused by over- or under-application, helping lower operating costs and increase throughput.

The Qadence closed-loop flow control system maintains a stable flow rate by volume for high quality coating results—automatically compensating for viscosity changes related to temperature, humidity and batch-to-batch variation.

In conformal coating, even small changes in flow can impact coverage, thickness, and long-term product reliability. Qadence introduces closed-loop flow control that continuously monitors and adjusts coating flow by volume—maintaining precise application throughout production.

Once process limits are defined, Qadence actively keeps flow rates within specification (patent pending). If deviations occur, the system automatically corrects them, reducing downtime and minimizing reliance on operator adjustments.



The Qadence system is compatible with the Select Coat® SL-940 and SL-1040 conformal coating systems, EasyCoat software and Nordson ASYMTEK conformal coating valves.

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## Specifications

Flow range*	1-100 mL/min
Viscosity range*	20-1200 cps
Measurement resolution	0.001 mL/pulse
Measurement repeatability	± 0.01 mL, 3 sigma
Process control	± 0.03 mL, 3 sigma
Temperature range	20-50°C
Software	Integrated into EasyCoat software
Material compatibility wetted parts	Body and wetted parts: Stainless steel Seals: Polytetrafluoroethylene (PTFE)

\*Higher performance factors can be achieved. Contact us to discuss your specific application needs.

## Applicators

- Select Coat® SC-280N film coater applicator\*\*
- Select Coat® Applicator Series — SC-300 Multi-Mode and SC-350 Select Spray
- SC-400 PreciseCoat® conformal coating jet\*\*
- SC-450 PreciseCoat® conformal coating jet
- DV-09 needle valve

### \*\*Limitations

- Not compatible with abrasive fluids.
- Not compatible with recirculating fluid systems.

## Flow Monitoring

- Select Coat SL-940 Series system Trims with Laser Fan Width Control support Flow Monitoring capability only.

For more information, visit our website to find your local regional office or representative.

We have several global locations to serve you.

North America  
Asia Pacific  
EMEA

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May 2026