

# DIGISPENSE 3009

## LIQUID DISPENSING SYSTEM

### FEATURES AND BENEFITS

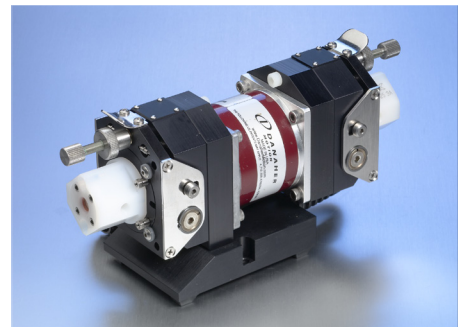
- dispense and meter operating modes
- rate controllable from 18 to 1,500 RPM
- volume selection to 10,000 strokes per dispense trigger
- selectable acceleration profile
- prime mode
- forward/reverse modes
- selectable motor torque
- non-volatile memory (NVRAM) for storage of parameters and up to 32 recipes
- incremental drawback and selectable stopping position for high viscosity fluids
- password-protected permission levels assure no unwanted parameter changes
- transferable from bench top use to full system integration/automation
- 24V optically isolated interface for PLC integration
- RS232 interface
- contact closure trigger
- CE certified
- one-year warranty

### TYPICAL APPLICATIONS

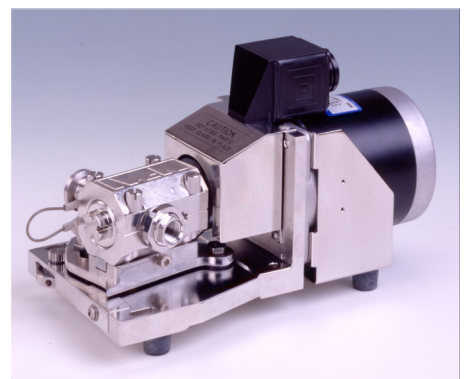
- spray coating medical fluids
- electrolyte dispensing for batteries
- contact lens applications
- silicone atomizing
- reagent dispensing
- transdermal drug dispensing
- pharmaceutical fluid dosing
- flavor, essence and liquid vitamin additions
- lubricants and uv adhesives



digispense 3009 controller module  
21cm x 29.2cm x 14.6cm



microspense ap dual end motor/base/pump  
6.9cm x 19.5cm x 10.7cm



single-end HD motor/base/pump  
11.8cm x 19.8cm x 14.5cm



**ISO 9001 CERTIFIED**  
**ISO 13485 CERTIFIED**



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A high precision liquid dispensing system, the Digispense 3009 consists of an electronic controller module operating a stepper motor that can drive one or two precision, ceramic, rotary/reciprocating, liquid dispensing pump modules. The Digispense 3009 system operates all IVEK 23 and 34 frame stepper motor/base/pump modules designed to handle discrete dosing from 0.1ul and higher.

IVEK's Digispense 3009 system is designed for flexibility in system integration. 24V PLC, RS232 interfaces and contact closure trigger are standard features. A non-volatile memory allows storage of 32 parameter configurations. The system is compact in design and requires no line voltage selection. All these features make the Digispense 3009 the most versatile precision single-channel dispensing system available.

### CERAMIC PUMP MODULES:

Sapphire-hard 99.8% Alumina (AL<sub>2</sub>O<sub>3</sub>) or highly polished YTZP Zirconia piston/cylinder sets.

PISTON SIZE	MAX STROKE CAPACITY
3A	27µl
2A	54µl
1A	109µl
B	295µl
C	739µl
D	1478µl
16mm	1886µl

IVEK's ceramic piston/cylinder modules are extremely hard and resist abrasion, resulting in a system that exhibits little to no wear even after hundreds of millions of cycles. In addition, the ceramics are compatible with most acids and bases. The natural crystalline structure of the ceramics displays zero porosity, which insures zero retention and carry-over of one biological fluid to the next.



piston/cylinder sets

### PRECISION ENGINEERED FLUIDIC SOLUTIONS SINCE 1979

IVEK Corporation is committed to quality and customer support. Our product has always been relied upon for critical applications and our policy states customer satisfaction as the number one priority. As our customer you will experience exceptional performance and reliability for your most demanding applications. IVEK Corporation is ISO 9001 and ISO 13485 certified.



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