

ValveMate™ 7194 Controller

Fast, precise control of 794 Series auger valve performance



ValveMate 7194 controller improves process control when paired with an EFD auger valve.



794 auger valve dispensing accurate, repeatable amounts of EFD solder paste onto printed circuit board.

The ValveMate 7194 controller simplifies setup and operation of the 794 Series auger valve. Easily adjust valve open time in increments as small as 0.001 seconds for exceptional process control. The controller is available in a 0-30 psi (0-2 bar) version for solder pastes, silver conductive epoxies, and other filled fluids and a 0-100 psi (0-7 bar) version for dispensing thicker filled materials, such as thermal compounds.

Valve functions controlled at the dispensing station eliminate the need to shut down production lines to reprogram a PLC. Users can cycle the valve faster and with greater deposit accuracy and repeatability.

The VM7194 controller features a reverse capability mode, allowing clean cutoff at the dispense tip for particularly sticky or tacky fluids. A precision air pressure regulator provides precise pressure control to the syringe barrel and can be operated in continuous or pulse mode.

The controller is easy to interface with PLCs and other equipment for added convenience. Both 794 auger valve models, with brush or brushless motors, require the 7194 controller for optimal valve performance.

Features

- Simplified setup and operation of the 794 auger valve
- Reverse capability mode
- 10-24 VDC motor voltage range
- Non-volatile, power-off memory
- Motor overload fault detection
- Continuous or pulse pressure mode to reservoir

Benefits


- “On the fly” deposit adjustments
- Intuitive, easy operator interface
- Reverse capability feature provides clean cutoff for highly sticky materials
- Low voltage requirements allow safe operation
- Motor overload protection extends motor life



more info



ValveMate 7194 Controller Specifications

Item	Product
Cabinet size	20.0 _W x 6.8 _H x 14.2 _D cm 7.9" _W x 2.7" _H x 5.6" _D
Weight	1.75 kg (3.9 lb)
Electrical power input	30 VDC (+/-2%),  1.33 Amp maximum
Electrical input connector	Switchcraft L722RA or equivalent, locking type
External power adapter	100–240 VAC (+/-10%), ~ 50/60Hz input, 30 VDC (+/-2%), 1.33 Amp output Switchcraft S761K locking DC plug or equivalent, desktop type, AC input: IEC 320 inlet
Initiate circuits	5–24 INIT: 5–24 VDC initiate signal CC INIT and foot pedal: Dry contact initiate circuits, 19 mA, closure current INIT signal duration: No less than 0.012 seconds momentary or maintained for steady
Feedback circuits	EOC Out and Alarm Out: Electronic switch, 24 VDC, 100 mA maximum
Cycle rate	Exceeds 400 per minute
Time range	0.001–99.9 s (sec.)
Input air pressure	4.5–7.0 bar (65–100 psi)
Ambient operating conditions	Temperature: 5–45 °C (41–113 °F) Humidity: 85% RH at 30° C, 40% at 45° C non-condensing Height above sea level: 2000 meters max (6,562 feet) This equipment is for indoor use only.
Product classification	Installation Category II Pollution Degree 2
Approvals	CE, CSA, RoHS, WEEE, and China RoHS compliant

NOTE: Specifications and technical details are subject to engineering change without prior notification.

Part #	Description
7360201	ValveMate 7194 Controller, 0-2 bar (0-30 psi)
7362374	ValveMate 7194 Controller, 0-7 bar (0-100 psi)

The complete system requires a 794 auger valve, 7194 controller, and fluid reservoir.

794 Series Auger Valve

Screw feed technology, along with precision time and pressure controls, allow the 794 auger valve to dispense precise, consistent amounts of particle-filled materials. Available in two motor types, the brush motor is used for lines and stripes. The brushless motor is used for high-speed microdot applications.

Automated Dispensing Systems

Nordson EFD offers a wide range of automated systems that are fully compatible with the 794 auger valve. Our automated systems offer consistent, accurate, and repeatable performance, making even the most complex dispensing applications easy.

Get simplified setup and programming plus optimized dispensing results from features such as laser height sensing and fully integrated CCD cameras, or specify inline systems designed for larger products.

Custom Solder Paste

Learn more about EFD dispense paste, print paste, flux, thermal compounds, and solder mask, including specialized formulations. We are a dispense flux technology leader and one-stop shop for solder, dispensers, valves, and automation.

Contact EFD for details: info@nordsonefd.com

Request a Process Evaluation

Contact Nordson EFD to configure a complete automated dispensing system that meets your specific application needs, with:

- A detailed process evaluation by experienced fluid dispensing experts at one of our full-service Global Application Labs
- Samples processed for customer evaluation and approval prior to purchase




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fluid management

Flumasys s.r.o.
info@flumasys.com