

# ValveMate™ 7140 Controller

The easiest way to achieve exceptional spray pattern definition

For single dispense valve control applications, choose EFD's advanced technology ValveMate 7140 Controller

Spray pattern is defined through a combination of fluid pressure, valve stroke and valve open time, with valve open time providing the greatest control over the volume of fluid sprayed.

The ValveMate 7140 controller is a fast, convenient way to adjust spray valve open time in increments as small as 0.001 seconds. An adjustable nozzle air pressure regulator provides Low Volume Low Pressure (LVLP) air to the nozzle, for high transfer efficiency without overspray. The result is exceptional spray pattern definition without time-consuming programming or mechanical adjustments that require the production line to be shut down. The controller is available in a 0-30 psi version for thinner fluids and a 0-100 psi version for dispensing fluids with thicker viscosities.

## Features and Benefits

- Intuitive, easy user interface
- "On-the-fly" adjustment
- Timed or continuous spray
- Clean, clog-free cutoff
- Fast-response pneumatic solenoids
- Simple to set up and operate
- Easily interfaced with a PLC
- Digital air output display (psi/bar)



## Specifications

<b>Cabinet Size:</b>	20.0 cm x 14.2 cm x 6.8 cm (7.9" W x 5.6" D x 2.7" H)
<b>Weight:</b>	1.75 kg (3 lbs 14 oz)
<b>Electrical Power Input:</b>	24VDC (+/- 5%), 0.63A maximum
<b>Electrical Input Connector:</b>	Switchcraft L722RA or equivalent, locking type
<b>External Power Adapter:</b>	100-240 VAC (+/-10%), ~ 50/60 Hz input, 24VDC (+/- 5%), 0.63 A output, Switchcraft S761K locking DC plug or equivalent, wall mount, changeable AC plugs
<b>Feedback Circuits:</b>	EOC Out & Alarm Out: Electronic switch, 24VDC, 100mA maximum
<b>Initiate Circuits:</b>	5-24 INIT: 5-24VDC initiate signal CC INIT & Foot Switch: Dry contact initiate circuits, 19mA, closure current INIT signal duration: No less than 0.012 sec. momentary or maintained for steady
<b>Cycle Rate:</b>	Exceeds 400 per minute
<b>Time Range:</b>	Programmable 0.001 to 99.9 seconds
<b>Product Classification:</b>	Installation Category II Pollution Degree 2

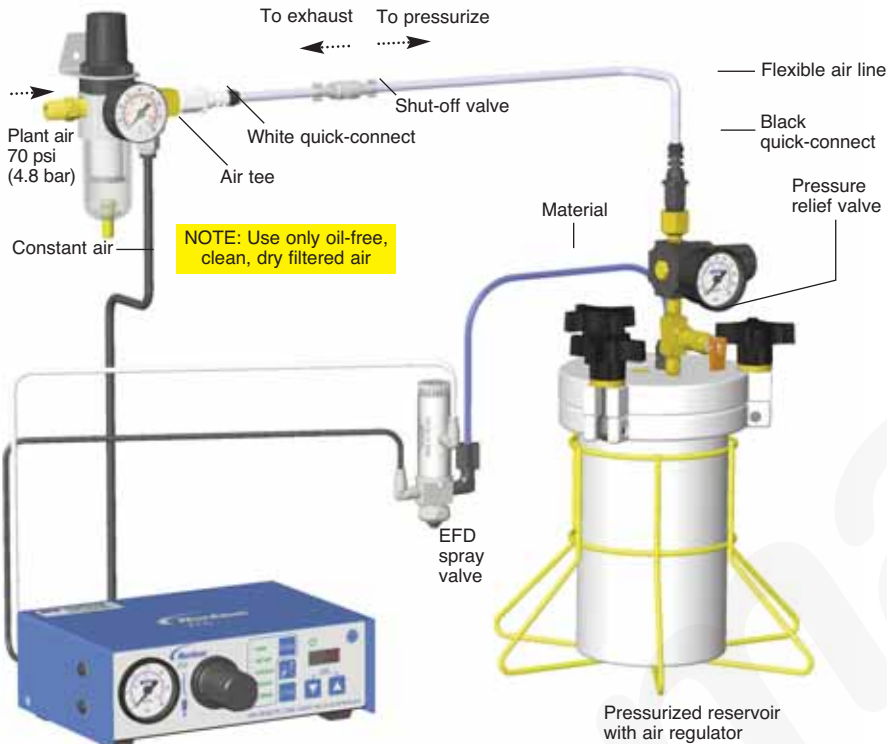
Meets or exceeds CE and CSA requirements



# ValveMate™ 7140

## Controller

Five micron filter regulator



ValveMate 7140 Controller

ValveMate 7140 controllers feature microprocessor circuitry for precise spray control. Feed lines can be purged, initial spray volumes set, and adjustments made quickly and easily at the spray station, without stopping the production line.

The ValveMate 7140 is simple to set up and operate, and easy to interface with PLCs and other equipment. When the signal to start the cycle is received, the ValveMate's microprocessor takes over and regulates the amount of fluid sprayed as Low Volume Low Pressure air is applied to the nozzle. At the end of the cycle, nozzle air continues for a few milliseconds to ensure a clean, clog-free cutoff, and the ValveMate signals that the process has been completed.