

ValveMate™ 7100 Controller

Operating Manual



IMPORTANT!
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or Tool Crib Supervisors



PAISLEY PRODUCTS OF CANADA INCORPORATED
40 Upton Road, Toronto, Ontario
Canada M1L 2B8

Tel: (416) 751 - 3700 Fax: (416) 751 - 3882
E-mail: Info@paisley.ca Web: www.paisley.ca

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EFD manuals are also available





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Introduction

You have selected a reliable, high quality ValveMate dispensing system from Nordson EFD, the world leader in fluid dispensing. The ValveMate dispensing system was designed specifically for industrial dispensing, and will provide you with years of trouble-free, productive service.

This manual will help you maximize the usefulness of your ValveMate dispensing system.

Please spend a few minutes to become familiar with the controls and features. Follow our recommended testing procedures. Review the helpful information we have included, which is based on more than 30 years of industrial dispensing experience.

Most questions you will have are answered in this guide. However, if you need assistance, please do not hesitate to contact Nordson EFD or your authorized Nordson EFD distributor.

In Asia, call +86 (21) 3866 9006.

In Europe, call +44 (0) 1582 666334.

In the USA, call 800-556-3484 between 8:30 a.m. and 5:30 p.m. Eastern time.

In all other areas, call your authorized Nordson EFD distributor or +1-401-431-7000.

The EFD Pledge

Thank You!

You have just purchased the world's finest dispensing equipment.

I want you to know that all of us at EFD value your business and will do everything in our power to make you a satisfied customer.

If at any time you are not fully satisfied with our equipment or the support provided by your EFD Product Application Specialist, please contact me personally at 800-556-3484 (US), 401-431-7000 (outside US), or ken.forden@nordsonefd.com

I guarantee that we will resolve any problems to your satisfaction.

Thanks again for choosing EFD.

Ken Forden

Ken Forden, General Manager

IMPORTANT: The primary control of deposit size is the valve open time. The ValveMate 7100 provides easy access and “on the fly” adjustment of valve open time.

The ValveMate 7100 is an EFD dispense valve controller, incorporating programmable dispense time, digital time readout, keypad programming for easy user interface and input/output communication with host machine PLCs.

Other features include:

- Push-button time setting or one touch time programming.
- Floating decimal, providing dispense time ranges of .001 to 99.9 seconds.
- Bright red LED display.
- Push-button purge feature.
- Low air-pressure, optional tank low level detection, or other alarm detection devices.
- End-of-Cycle feedback signal.

The ValveMate 7100 has been designed with the machine builder and operator in mind. The objectives are to bring dispensing control close to the point of application, and to provide the features necessary to make setup and operation as easy and precise as possible.

The ValveMate is easy to operate. Once you have reviewed the features, you will understand the benefits and the ease of control the ValveMate provides.

As with all EFD products, the ValveMate has been produced to exacting specifications and thoroughly tested prior to shipment.

To obtain maximum performance from this equipment, please read the instructions carefully.

Safety

Please read the EFD product safety statement included in the package. Follow all appropriate safety instructions.

Nordson EFD Product Safety Statement

This statement provides personal and equipment safety notices for EFD dispensing systems including benchtop dispensers and ValveMate™ controllers.

WARNING

The safety message that follows has a **WARNING** level hazard.
Failure to comply could result in death or serious injury.



ELECTRIC SHOCK

Risk of electric shock. Disconnect power before removing cover and/or disconnect, lock out, and tag switches before servicing electrical equipment. If you receive even a slight electrical shock, shut down all equipment immediately. Do not restart the equipment until the problem has been identified and corrected.

CAUTION

The safety messages that follow have **CAUTION** level hazards.
Failure to comply may result in minor or moderate injury.



READ MANUAL

Read manual for proper use of this equipment. Follow all safety instructions. Task- and equipment-specific warnings, cautions and instructions are included in equipment documentation where appropriate. Make sure these instructions and all other equipment documents are accessible to persons operating or servicing equipment.

MAXIMUM AIR PRESSURE

Maximum air input pressure 100 psi (6.9 bar). Excessive air input pressure may damage the equipment.



BURST PRESSURE

Maximum air input pressure 100 psi (6.9 bar). Burst pressure 300 psi (20.7 bar). Excessive air input pressure may damage the equipment.



RELEASE PRESSURE

Release pressure before opening. Maximum pressure 30 psi (2.0 bar). Release hydraulic and pneumatic pressure before adjusting or serving pressurized systems or components.



Halogenated Hydrocarbon Solvent Hazards

Do not use halogenated hydrocarbon solvents in a pressurized system that contains aluminum components. Under pressure, these solvents can react with aluminum and explode, causing injury, death, or property damage. Halogenated hydrocarbon solvents contain one or more of the following elements.

Element	Symbol	Prefix
Fluorine	F	“Fluoro-“
Chlorine	Cl	“Chloro-“
Bromine	Br	“Bromo-“
Iodine	I	“Iodo-“

Check your material MSDS or contact your material supplier for more information. If you must use halogenated hydrocarbon solvents, contact your EFD representative for compatible EFD components.

High Pressure Fluids

High pressure fluids, unless they are safety contained, are extremely hazardous. Always release fluid pressure before adjusting or servicing high pressure equipment. A jet of high pressure fluid can cut like a knife and cause serious bodily injury, amputation, or death. Fluids penetrating the skin can also cause toxic poisoning.

Warning: Any injury caused by high pressure liquid can be serious. If you are injured or even suspect an injury:

- Go to an emergency room immediately.
- Tell the doctor that you suspect an injection injury.
- Show the doctor this note.
- Tell the doctor what kind of material you were dispensing.

Medical Alert—Airless Spray Wounds: Note to Physician

Injection in the skin is a serious traumatic injury. It is important to treat the injury surgically as soon as possible. Do not delay treatment to research toxicity. Toxicity is a concern with some exotic coatings injected directly into the bloodstream.

Qualified Personnel

Equipment owners are responsible for making sure that EFD equipment is installed, operated and serviced by qualified personnel. Qualified personnel are those employees or contractors who are trained to safely perform their assigned tasks. They are familiar with all relevant safety rules and regulations and are physically capable of performing their assigned tasks.

Continued on next page

Intended Use

Use of EFD equipment in ways other than those described in the documentation supplied with the equipment may result in injury to persons or damage to property. Some examples of unintended use of equipment include:

- using incompatible materials
- making unauthorized modifications
- removing or bypassing safety guards or interlocks
- using incompatible or damaged parts
- using unapproved auxiliary equipment
- operating equipment in excess of maximum ratings
- operating equipment in an explosive atmosphere

Regulations and Approvals

Make sure all equipment is rated and approved for the environment in which it is used. Any approvals obtained for EFD equipment will be voided if instructions for installation, operation and service are not followed.

Personal Safety

To prevent injury, follow these instructions:

- Do not operate or service equipment unless you are qualified.
- Do not operate equipment unless safety guards, doors or covers are intact and automatic interlocks are operating properly. Do not bypass or disarm any safety devices.
- Keep clear of moving equipment. Before adjusting or servicing moving equipment, shut off the power supply and wait until the equipment comes to a complete stop. Lock out power and secure the equipment to prevent unexpected movement.
- Make sure spray areas and other work areas are adequately ventilated.
- Know where emergency stop buttons, shutoff valves and fire extinguishers are located.
- When using a syringe barrel, always keep the dispensing end of the tip pointing towards the work and away from the body or face. Store syringe barrel with tip pointing down when not in use.
- Obtain and read Material Safety Data Sheets (MSDS) for all materials used. Follow the manufacturer's instructions for safe handling and use of materials, and use recommended personal protection devices.
- To prevent injury, be aware of less-obvious dangers in the workplace that often cannot be completely eliminated, such as hot surfaces, sharp edges, energized electrical circuits and moving parts that cannot be enclosed or otherwise guarded for practical reasons.

Fire Safety

To avoid a fire or explosion, follow these instructions:

- Shut down all equipment immediately if you notice static sparking or arcing. Do not restart the equipment until the cause has been identified and corrected.
- Do not smoke, weld, grind or use open flames where flammable materials are being used or stored.
- Do not heat materials to temperatures above those recommended by the manufacturer. Make sure heat monitoring and limiting devices are working properly.
- Provide adequate ventilation to prevent dangerous concentrations of volatile particles or vapors. Refer to local codes or your material MSDS for guidance.
- Do not disconnect live electrical circuits when working with flammable materials. Shut off power at a disconnect switch first to prevent sparking.
- Know where emergency stop buttons, shutoff valves and fire extinguishers are located.

Action in the Event of a Malfunction

If a system or any equipment in a system malfunctions, shut off the system immediately and perform the following steps.

- Disconnect and lock out system electrical power. If using, close hydraulic and pneumatic shutoff valves and relieve pressures.
- Identify the reason for the malfunction and correct it before restarting the system.
- For air-powered dispensers, remove syringe barrel from adapter assembly. For the electro-mechanical dispensers, slowly unscrew the barrel retainer and remove barrel from actuator.

Disposal

Dispose of equipment and materials used in operation and servicing according to local codes.

Preventative Maintenance

As part of maintaining continuous trouble-free use of this product, EFD recommends a few very simple preventative maintenance checks.

1. Periodically inspect tube to fitting connections for proper fit. Secure as necessary.
2. Check tubing for cracks and contamination. Replace tubing as necessary.
3. Check all wiring connections for looseness. Tighten as necessary.
4. Clean: If front panel requires cleaning, use a clean, soft damp rag with a mild detergent cleaner. DO NOT USE strong solvents (acetone, MEK, etc.) as they will damage the front panel material.
5. Maintain: Only use clean dry air to unit. Equipment does not require any other regular maintenance.
6. Test: Verify operation of features and performance of equipment using the appropriate sections of this users guide. A faulty or defective unit should be returned to EFD or representative for refurbishment.
7. Use only replacement parts that are designed for use with original equipment. Contact your EFD representative for information and advice.

RoHS标准相关声明

(China RoHS Hazardous Material Declaration)

产品名称 Part Name	有害物质及元素 Toxic or Hazardous Substances and Elements					
	铅 Lead (Pb)	汞 Mercury (Hg)	镉 Cadmium (Cd)	六价铬 Hexavalent Chromium (Cr6)	多溴联苯 Polybrominated Biphenyls (PBB)	多溴联苯醚 Polybrominated Diphenyl Ethers (PBDE)
外部接口 External Electrical Connectors	X	0	0	0	0	0
<p>O: 表示该产品所含有的危险成分或有害物质含量依照EIP-A, EIP-B, EIP-C的标准低于SJ/T11363-2006 限定要求。 Indicates that this toxic or hazardous substance contained in all the homogeneous materials for this part, according to EIP-A, EIP-B, EIP-C is below the limit requirement in SJ/T11363-2006.</p> <p>X: 表示该产品所含有的危险成分或有害物质含量依照EIP-A, EIP-B, EIP-C的标准高于SJ/T11363-2006 限定要求。 Indicates that this toxic or hazardous substance contained in all the homogeneous materials for this part, according to EIP-A, EIP-B, EIP-C is above the limit requirement in SJ/T11363-2006.</p>						

Specifications

Note: Specifications and technical details are subject to engineering changes without prior notification.

Cabinet Size:	14.0 cm x 14.2 cm x 6.8 cm (5.5" W x 5.6" D x 2.7" H)	
Weight:	1.18 kg (2lbs 9oz)	
Electrical Power Input:	24VDC (+/- 5%),  0.63A maximum	
Electrical Input Connector:	Switchcraft L722RA or equivalent, locking type	
External Power Adapter:	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.	
Feedback Circuits:	EOC Out & Alarm Out:	Electronic switch, 24VDC, 100mA maximum.
Initiate Circuits:	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.
Cycle Rate:	Exceeds 600 per minute	
Time Range:	Programmable 0.001 to 99.9 seconds	
Ambient operating conditions:	Temperature:	5°C to 45°C (41°F to 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	

Meets or exceeds CE and CSA requirements

Front Panel Buttons/Modes of Operation

POWER	Press Power  button to turn power ON or OFF. Note: ValveMate 7100 will always power up into RUN mode.
RUN	Enables external initiate inputs. The cycle button is disabled.
SETUP	Setup, testing and modification of dispense time.
STEADY	Timer override. Press UP/DOWN   to toggle between TIME and STEADY  operation.
TEACH	For easy setting and teaching of time mode in filling or other longer cycle applications.
PURGE	Enables purging of dispense valve.
CYCLE	Pressing the  button will provide different results according to the selected MODE.
TIME SET	Pressing the   buttons will decrement or increment valve on-time. In SETUP or TEACH mode, pressing both buttons simultaneously will zero out the time. The up and down time adjustment buttons are available in SETUP, TEACH and RUN modes.
ALARMS	<ol style="list-style-type: none">1. Low Air Pressure Alarm: Assures sufficient pressure is present for valve operation. Can be disabled.2. CC INIT (Contact Closure Initiate): Optional usage of the CC INIT for external alarm applications. Examples of uses: low tank level switch, operator safety interlock, etc. <p>Alarm conditions are assessed, (air pressure less than 60 psi and CC INIT open) just prior to the start of a dispense operation.</p>
MODE	Press the MODE  button to cycle through SETUP modes.

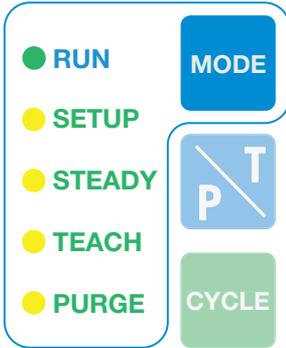
EXTENDED USER SETUP FUNCTIONS

- Low Air Pressure Alarm: ON  / OFF 
- Pressure Units: Psi  / Bar 
- CC INIT : Enable for Alarm IN 

Indicator Lamps

The indicator lamp  at the upper left corner above LED display will illuminate whenever the dispense valve is actuated.

The center front panel has five indicator lamps used to indicate the operation mode



How to make On-the-Fly (OTF) time adjustments in RUN mode:

- Step 1 Press CYCLE  button to enable OTF, display will blink.
- Step 2 Press  or  buttons to adjust valve on time.
- Step 3 Press CYCLE  button to disable OTF, display no longer blinks.

How to set controller to STEADY mode:

- Step 1 Press MODE  button and scroll to STEADY .
- Step 2 Press  or  to toggle between TIME and STEADY  operation.
- Step 3 When  appears on LED display, press mode button to return to RUN.

How to use the TEACH mode:

- Step 1 Press MODE  button and scroll to TEACH.
- Step 2 Press and hold CYCLE  button or depress the foot pedal in the TEACH mode. LED display will begin “flashing” before TEACH function begins.
- Step 3 Add incremental time by continued press and hold of CYCLE  button or depress and hold the foot pedal.
- Step 4 To fine tune programmed pulse time, press  or  to decrease/increase time.
- Step 5 Press both   to .000 out time to and restart the TEACH process.

How to use PURGE mode:

- Step 1 Press MODE  button and scroll to PURGE.
- Step 2 Press CYCLE  button or depress foot pedal to purge dispense valve.

How to enable/disable low air pressure alarm:

- Step 1 Press MODE  button and scroll to STEADY .
- Step 2: Press and hold  until Aon  or Aof  is visible.
- Step 3 Press  or  button to toggle between Alarm On  or Alarm OFF .
- Step 4 Press MODE  button to exit.

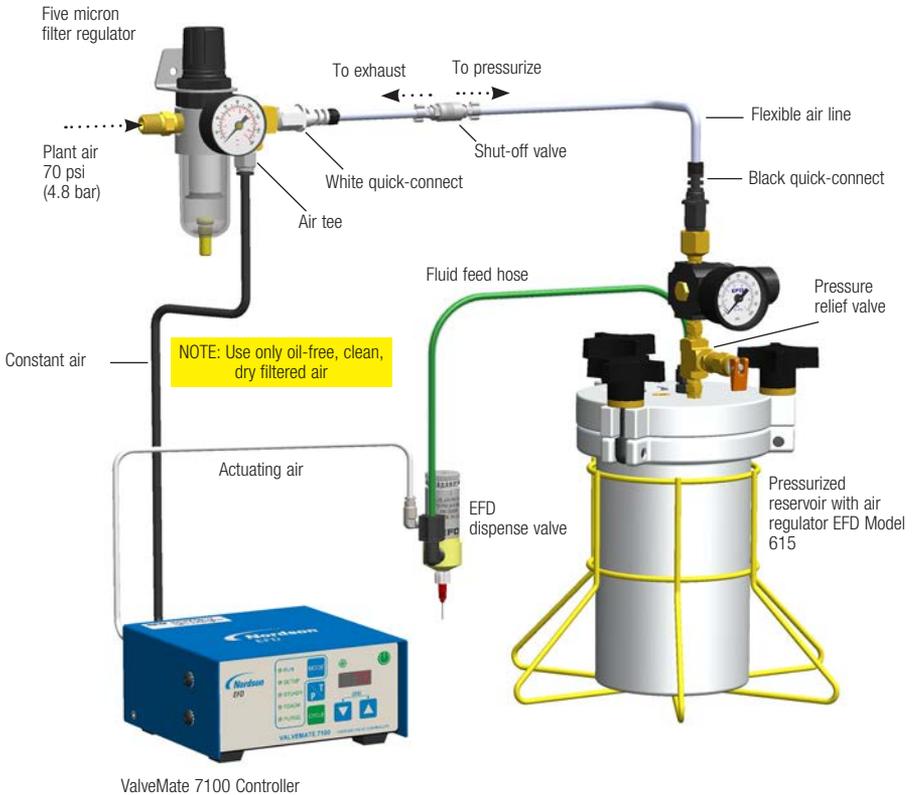
How to select PSI or BAR pressure readout:

- Step 1 Press MODE  button and scroll to STEADY.
- Step 2: Press and hold  until Aon  or Aof  is visible.
- Step 3 Press  button one time.
- Step 4 Press  or  button to toggle between  for BAR, and  for Psi.
Psi Format: 0. to 101.
BAR Format: 0.0 to 7.0
- Step 5 Press MODE  button to exit.

How to enable/disable CC INIT I/O as an external alarm input:

- Step 1 Press MODE  button and scroll to STEADY.
- Step 2: Press and hold  until Aon  or Aof  is visible.
- Step 3: Press  two times.
- Step 4: Press  or  button to toggle between CCI  or ALI 
CC INIT function is:
CCI:  Contact Closure initiate input
ALI:  External alarm input
- Step 5 Press MODE  button to exit.

Typical Setup



Caution: Always depressurize the reservoir before opening. To do this, slide the shutoff valve on the air line away from the reservoir. If using an EFD tank, open the pressure relief valve as well. Before opening the reservoir, check the pressure gauge to verify that pressure is zero (0).

On all EFD cartridge reservoirs, the unique threaded design provides fail-safe air pressure release during cap removal.

Mounting the ValveMate 7100

Mounting

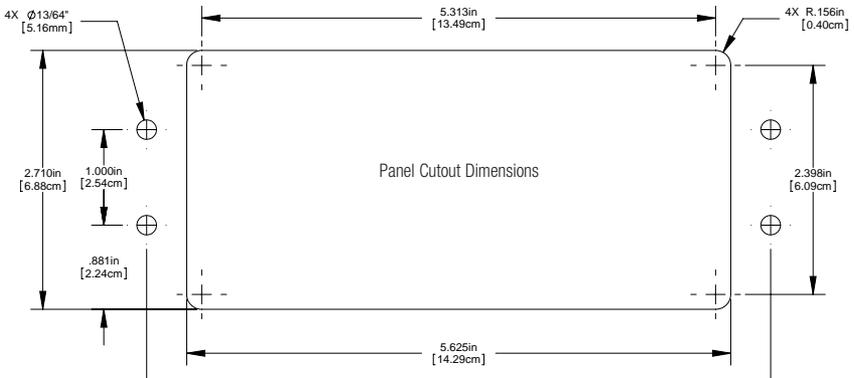
The ValveMate 7100 can be mounted either over or under a surface using screws to secure bracket.



Use the universal mounting bracket (included) to mount the controller either over or under the cabinet. The bracket allows the controller to pivot 30° from a horizontal position. When mounted under a workbench, secure with screws or nuts and bolts to support 14lbs.

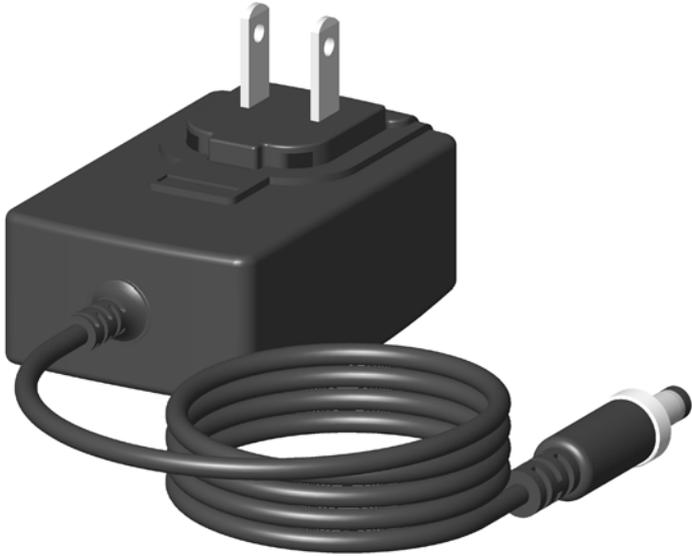
Optional Panel Mount Kit

For panel mounting, an optional panel mount bracket kit is available.
(Order part #7026544)



External Power Adapter

A universal 24VDC remote power supply with a locking ring DC connector is included with each ValveMate 7100. Select a convenient location and connect to appropriate input voltage.



Back Panel Markings



Maximum Air Pressure Caution

Caution symbol informing that the maximum air input pressure is 100 psi (6.9 bar). Excessive air input pressure may damage the equipment.



Foot Pedal / Finger Switch Connector

Switch symbol identifies the connector for a momentary contact closure switch for dispense initiates. An optional foot pedal, part #7014865 may be ordered.



Power Input Current

Input current symbol specifying that DC current is utilized on the power supply connector. The current is derived from an external 24 VDC source.



Chassis Connection

This symbol identifies the chassis connection terminal. Used for grounding the chassis to shunt leakage current and/or enhance system ESD protection.

Input/Output Connections

The 10 pin terminal strip includes a 5-24VDC and contact closure CC initiate inputs. Outputs include an Alarm Out, End of Cycle (EOC) and a 24VDC courtesy power.

5-24 INIT: Dispense initiate input activated with a 5-24VDC input voltage.

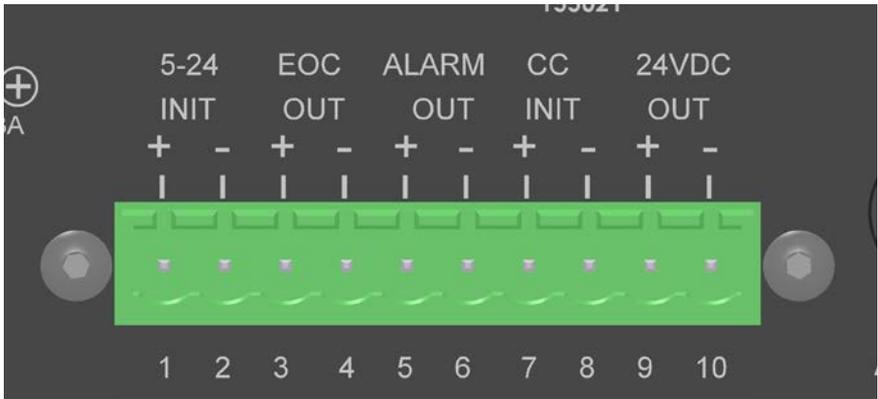
EOC OUT: End-of-cycle feedback

ALARM OUT: Circuit that closes when an alarm condition is present.

CC INIT: Dispense initiate input activated with a contact closure switch.

24VDC OUT: Courtesy output 24VDC, 200mA.

Note: ALARM OUT and EOC (End-of-cycle) only function in RUN mode.



Initiate Connections

The 7100 can be initiated by three inputs:

1. 5-24 INIT: Application of 5-24 VDC to the 5-24 INIT terminals, pins 1+2.
2. CC INIT: Application of mechanical contacts on CC INIT terminals, pins 7+8
3. Foot Pedal: Use of Optional EFD foot pedal (part number 7014865) plugged into foot pedal receptacle.

A connection schematic is detailed on page 21.

Alarm OUT Connection

The ValveMate 7100 features an alarm output circuit. The Alarm OUT circuit closes when an alarm condition is present. The Alarm OUT circuit is a normally open electronic switch that can switch an external 5-24 VDC circuit to an external signaling device or PLC input. Maximum load is 100mA, 5-24 VDC.

Alarm IN Connection

The ValveMate 7100 offers an alternate use of the CC INIT initiate input for an external alarm signal. Refer to the 'How to' instructions on page 15 to enable. When enabled as an alarm input the CC INIT on pins 7 and 8 is connected to a normally closed switch such as a low level reservoir float switch. Pins 7 and 8 must be closed to initiate a dispense valve cycle.

End-of-Cycle Connection (EOC)

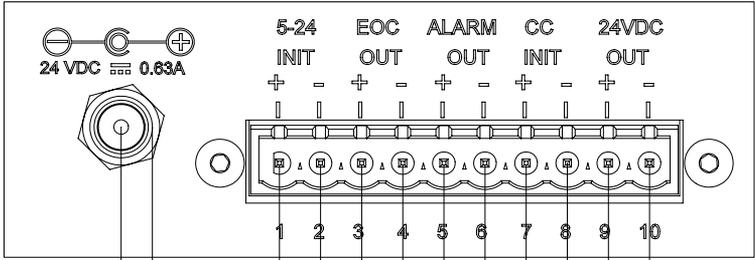
The ValveMate 7100 features an End-of-Cycle (EOC) circuit to acknowledge an active dispense valve initiate. The EOC circuit is a normally closed electronic switch that can switch an external 5-24 VDC circuit to an external signaling device or PLC input. Maximum load is 100mA, 5-24 VDC.

End of Cycle (EOC) signaling only functions when the ValveMate 7100 is in the RUN mode. The End-of-Cycle (EOC) is normally closed in RUN mode while dispense cycle is inactive. The EOC switch opens when the dispense cycle is initiated and closes when the dispense cycle is completed.

24 VDC Output

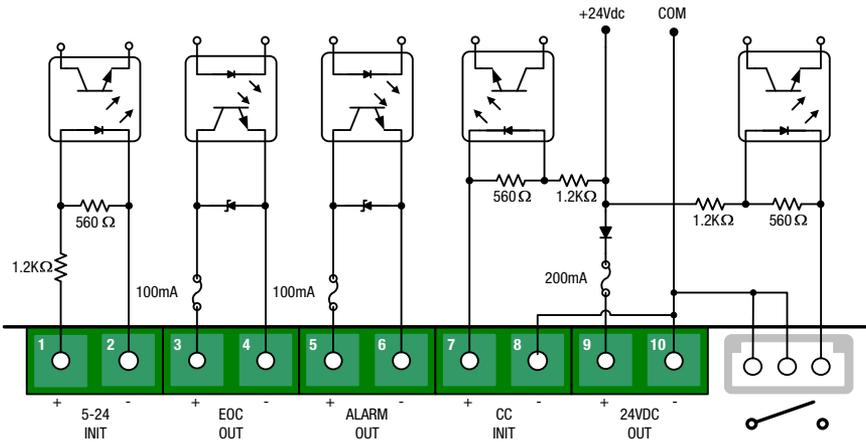
Courtesy 24 volt DC 200mA can be used to provide power to EOC and Alarm out circuits for signalling purposes. Also, can be used as a power source for an indicator device or initiate signal through a contact closure switch to the 5-24 INIT circuit.

I/O Connection Schematics



<p>INPUTS</p>	<p>POWER IN 24 VDC 0.63 A MAX.</p>	<p>VOLTAGE INITIATE 5-24 VDC 3 mA AT 5VDC 19 mA AT 24 VDC</p>	<p>CC INIT NO SWITCH 19 mA MAX. or ALARM IN NC SWITCH 19 mA MAX.</p>	
<p>OUTPUTS</p>		<p>SWITCH CLOSURES 24 VDC MAX. 100 mA MAX.</p>		<p>COURTESY SUPPLY 24 VDC 200 mA MAX.</p>

I/O External Wiring Diagram



I/O Electrical Schematic

Air Connections

Installing the Dispense Valves

All EFD valves are supplied with an installation manual. The manual will explain the operation of the valve and also how to set up the valve with the fluid reservoir. Connect the valve actuating air hose to the AIR OUTPUT **1** at the back of the ValveMate 7100 controller.

Air Input Connection



Connect the ValveMate 7100 to plant air by first installing the EFD five-micron filter regulator (#7002002) included to your air supply.

Install the air tee with push-in fitting (#7016230) in the output of the filter regulator. (Included with EFD tank/ cartridge reservoirs)

3 meters (9 ft) of 6 mm OD air line is supplied. Using the 6mm push-in fitting supplied, connect one end to the #7016230 air tee. Connect the other end of the air line by pushing it firmly into the AIR INPUT **MOOSE** connector on the ValveMate 7100 until it bottoms out. Be sure that the line is inserted all the way into the fitting.

Set the pressure at the #7016543 filter regulator to 70 psi (4.8 bar).

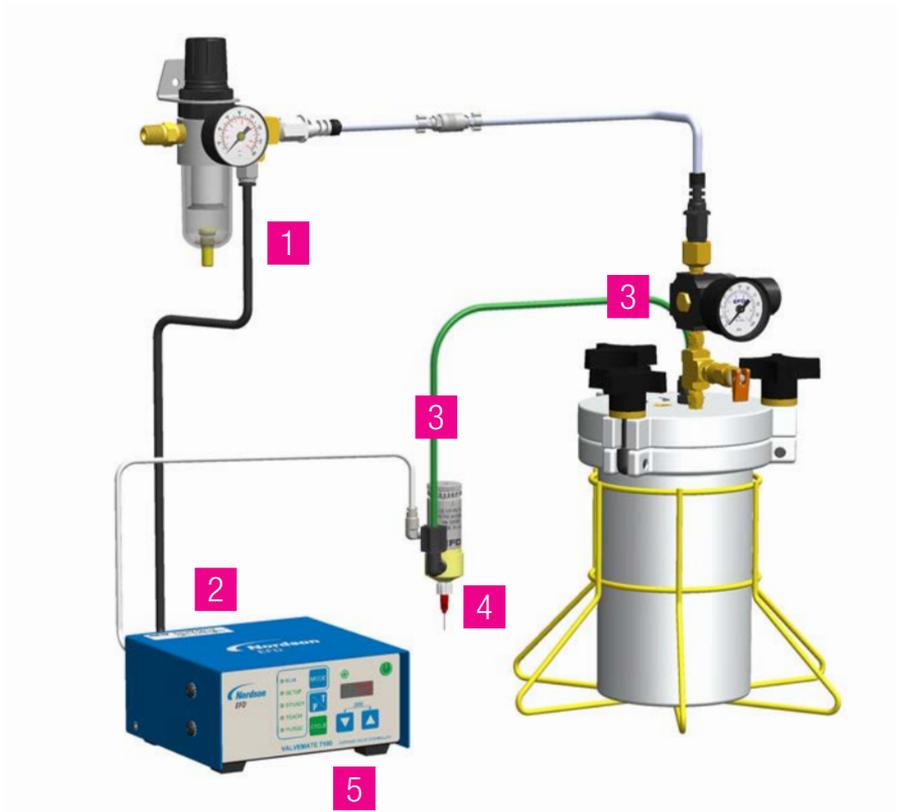
The quick-connect on the air tee is used to provide air pressure to the air pressure regulator on EFD fluid reservoirs. This connection will be made at a later step in the setup.

IMPORTANT

Air output push-in fitting has an internal safety stop valve. Make certain valve air hose is fully inserted into fitting to allow proper air flow.

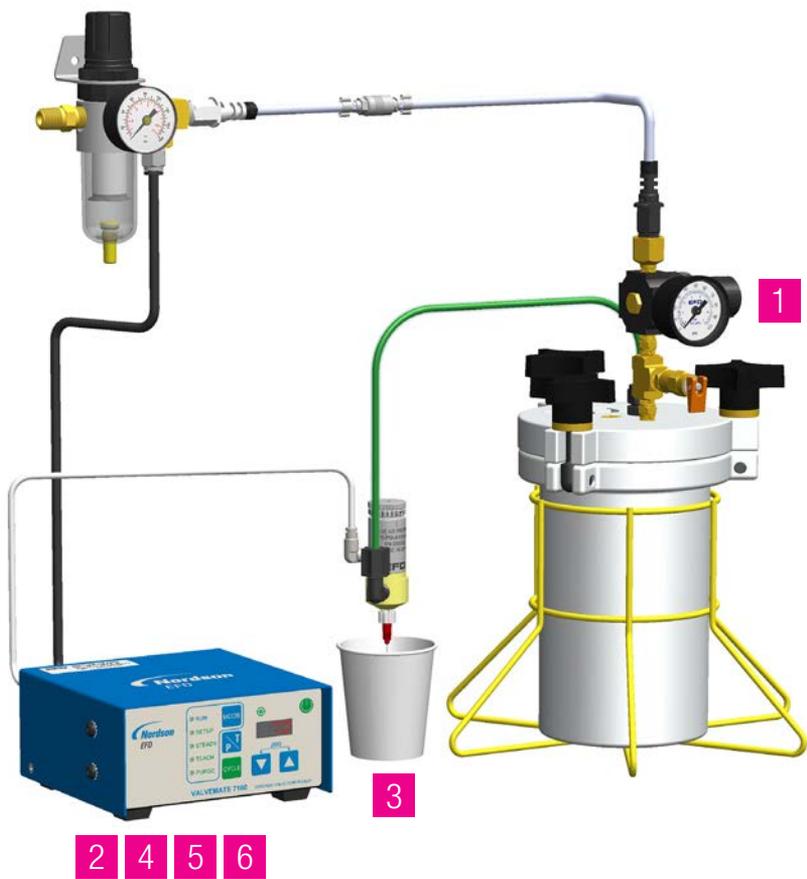
Final Setup Checklist

1. Air pressure to ValveMate 7100 is set to 70 psi (4.9 bar).
2. Initiate connection and I/O are wired correctly.
3. Valve and fluid reservoir are properly connected.
4. Valve is set up and dispensing tip installed in accordance with the dispense valve installation guide.
5. Turn power  on. Confirm indicator lamps and LED display is lit.



Testing the Dispense Valve

1. Set tank pressure. For low viscosity, low pressures and high viscosity, higher pressure.
2. Using the Mode **RLn** button on the ValveMate controller, place the controller in the PURGE **PUR** mode.
3. Place a container under the valve and press the CYCLE **CYCLE** button to open the valve and flow material until all air is purged from the system. Adjust the tank pressure, or valve stroke knob to set a flow rate that is not too low or too high. A high flow rate will make setting up a small dot difficult or could cause splashing.
4. Using the Mode **UPn** button again, place the controller in the Setup mode. Using the up/down **MODE** buttons below the LED, set a dispense time of .050 seconds.
5. Press the CYCLE button to initiate a dispense cycle. Increase or decrease the time or tank pressure to arrive at the desired deposit size. The primary control of deposit size is the valve open time.
6. The system is now ready to be initiated by the machine controls when the machine is started. ValveMate 7100 must be in RUN mode.



Troubleshooting Guide

Trouble	Possible cause and correction
LED toggles between Air and pressure value and will not accept initiate signal.	Air pressure to the ValveMate 7100 has dropped below 60 psi. Raise the input pressure to 70 psi (4.8 bar). Press MODE button to reset. If problem persists, make sure devices such as air cylinders are not causing a pressure drop in the ValveMate 7100 input air line.
Unit is not responding to the initiate signal.	Check to make sure the unit is not in a mode other than RUN. Response delay in pneumatic circuit does not allow the valve to open when time is set at or below 0.010 seconds. Increase time. The signal must break cleanly before the next signal is initiated.
Timer is inoperative.	Check to make sure the unit is not in the steady mode.
LED is blinking 	External alarm is enabled and circuit is open. Check cause for fault or disable. See page 15: "How to enable/disable CC INIT as an external input."

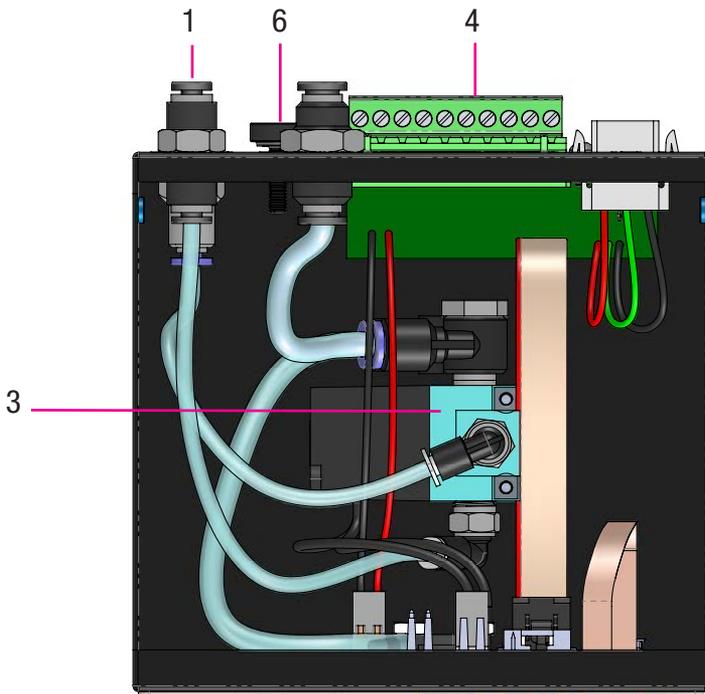
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If trouble cannot be corrected, or if you need further assistance, **please call us.**
USA 800-556-3484.
UK 0800 585733.
Asia +86 (21) 3866 9006.

Replacement Parts List

Valvemate 7100

1	7026518	KIT FITTING-4MM BULKHEAD	
2	7026519	KIT POWER SUPPLY DC EXTERNAL 7100 / 7140	Not shown
3	7026520	KIT VALVE SOLENOID 24VDC 1.8W WITH CONN	
4	7026521	KIT CONN TERMBLOK PLUS IO 10POS 5.08MM	
5	7026621	KIT BRACKET PIVOT, 7100	Not shown
6	7026524	KIT M4X20MM THUMB SCREW ASSEMBLY	
7	7026543	KIT DC CABLE ASSEMBLY-2M-LOCKING CONN	Not shown
8	7026544	KIT PANEL MOUNT 7100/7140	Not shown



NORDSON EFD ONE YEAR LIMITED WARRANTY

All components of the Nordson EFD ValveMate 7100 are warranted for one year from date of purchase to be free from defects in material and workmanship (but not against damage caused by misuse, abrasion, corrosion, negligence, accident, faulty installation or by dispensing material incompatible with equipment) when the equipment is installed and operated in accordance with factory recommendations and instructions. Nordson EFD will repair or replace free of charge any part of the equipment thus found to be defective, on authorized return of the part prepaid to our factory during the warranty period.

In no event shall any liability or obligation of Nordson EFD arising from this warranty exceed the purchase price of the equipment. This warranty is valid only when oil-free, clean, dry, filtered air is used.

Nordson EFD makes no warranty of merchantability or fitness for a particular purpose. In no event shall Nordson EFD be liable for incidental or consequential damages.



PAISLEY PRODUCTS OF CANADA INCORPORATED
40 Upton Road, Toronto, Ontario
Canada M1L 2B8

Tel: (416) 751 - 3700 Fax: (416) 751 - 3882
E-mail: Info@paisley.ca Web: www.paisley.ca

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This equipment is regulated by the European Union under WEEE Directive (2002/96/EC). See www.nordsonefd.com for information about how to properly dispose of this equipment.

