

Clog-free, precise 781S MicroMark® spray system.

marking inks paints



Unique MM781-SYS MicroMark spray marking system produces round patterns and stripes from 5.0 mm to 30.4 mm (0.20" to 1.20") wide without overspray.

Programmable nozzle air delay after each spray cycle keeps the spray nozzle clog-free and reduces maintenance and downtime.

Compact marking system can be used to color-code similar components, indicate pass/fail, or show production or test status. It can be activated manually, or interfaced with other systems to mark at scheduled intervals or whenever a signal is received.



## Features

- No clogging, dripping or drying out
- No missed shots
- **Consistent size and placement**
- Cycle rate exceeds 400/minute
- No mist or overspray
- Low-maintenance design

*"The MicroMark is a virtually maintenance-free ink marking system that is easy to adjust. It is the standard marking system on every new balancing machine we produce."*

*Schenck Turner Inc.*

Electronic pdf files of Nordson EFD manuals are also available at [www.nordsonefd.com](http://www.nordsonefd.com)

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Sales and service of Nordson EFD dispensing systems are available worldwide.

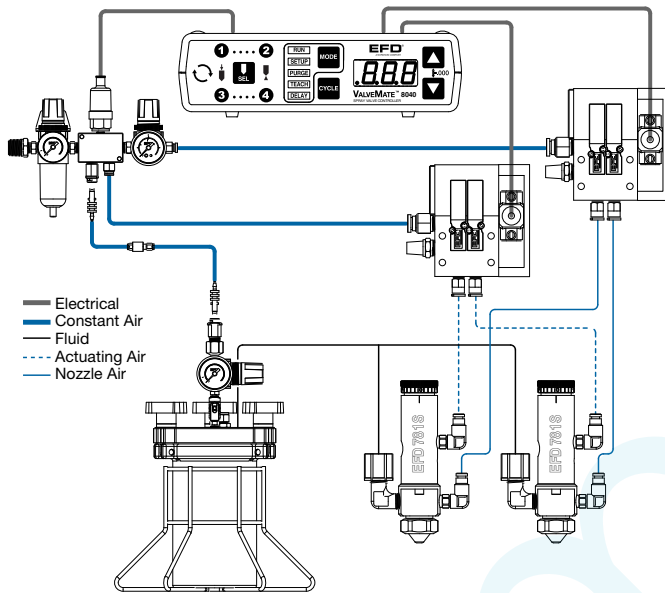
**Nordson**  
EFD

# MicroMark spray marking system



The complete MM781-SS system includes the 781S-28 dispense valve, ValveMate™ 8040 controller, and the 615DTL fluid reservoir.

Expert technical assistance and high quality standards ensure productive, trouble-free performance. Nordson EFD offers a full line of reliable dispensing systems to meet your specific application requirements.



## MicroMark 781S Valve

The precision spray valve features a nozzle with 0.7 mm (0.028") orifice and adjustable needle stroke for applying marks 5.0 mm to 30.4 mm (0.20" to 1.20") in diameter.

Adjustable Low Volume Low Pressure (LVLP) nozzle air transfers fluid from the nozzle to the part at low velocity and higher transfer efficiency.

**Size:** 104.6 mm x 26.9 mm diameter (4.12" x 1.06")

**Weight:** 235.3 grams (8.29 oz)

**Actuating air pressure required:** 70 to 90 psi (4.8 to 6.2 bar)

**Maximum input fluid pressure:** 300 psi (20.7 bar)

**Fluid inlet thread:** 1/8 NPT female

**Mounting:** (1) 1/4-28 UNF tapped hole or adjustable mounting block

**Cycle rate:** Exceeds 400 per minute

**Air cylinder body:** Hard-coated aluminum

**Fluid body:** Hard-coated aluminum

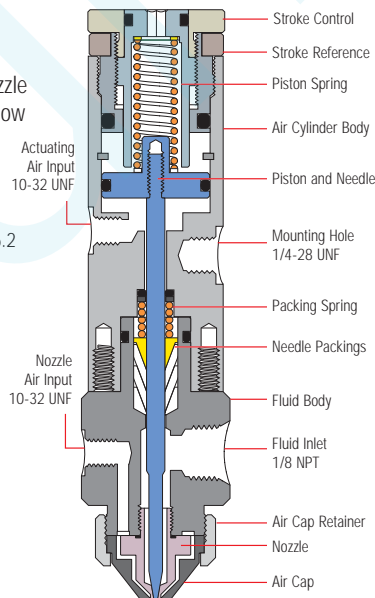
**Air cap:** Type 303 stainless steel

**Piston:** Type 303 stainless steel

**Needle and nozzle:** Type 303 stainless steel

**Needle packings:** Teflon®

All stainless steel valve parts are passivated.



MicroMark 781S  
75% actual size

## Spray Area Coverage

model #	nozzle diameter	pattern	Nozzle distance from surface			
			25.4 mm (1")	50.8 mm (2")	76.2 mm (3")	152.4 mm (6")
781S-28	0.7 mm (0.028")	round	5.0 mm (0.20")	10.1 mm (0.40")	15.2 mm (0.60")	30.4 mm (1.20")

## MicroMark Controller

Valve open time is the primary control of deposit size. The MicroMark controller adjusts valve open time and nozzle pressure. It puts push-button adjustment of valve open time where it needs to be — near the valve.

- Multi-valve control- up to (2) spray valves
- Partner to Programmable Logic Controller (PLC)
- Easy deposit size control
- Precise control of nozzle air pressure
- Nozzle air delay for clog-free operation
- Increased production output
- End user convenience
- Maximum machine efficiency

## Automation: XYZ & XYZR Robot Dispensing Systems

Nordson EFD offers a wide selection of XYZ and XYZR robot systems that are fully compatible with ValveMate valve controller systems. Consistent, accurate, repeatable and complex dispensing applications can be easily performed with EFD robots, with working envelopes that range from 200 x 200 x 50mm to 510 x 510 x 100mm. Scara robot systems are also available for larger, heavier products or inline dispensing applications.

## Fluid Reservoirs

The MicroMark system includes a 1.0 liter tank reservoir and one polyethylene liner.

The tank features full cover removal for easy liner replacement or to place a bottle into this top-ported tank. A 15 psi (1.0 bar) precision tank regulator ensures constant fluid pressure to the spray valve.

Options: 5.0 liter tanks and cartridge reservoirs can be specified. Cartridge sizes range from 2.5 to 32 ounces (75cc to 950cc).



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