

# 781RC MicroMark® Recirculating Spray Marking System

marking inks  
paints

**EFD®**  
A NORDSON COMPANY



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***“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.

The 781RC MicroMark Recirculating Spray Marking System produces uniform round patterns and stripes from 5.0mm to 30.4mm (0.20" to 1.20") wide without clogging or overspray.

This unique marking system eliminates the clogging, maintenance and downtime encountered with standard marking systems by using a recirculating pump to keep pigments in suspension and a programmable air delay after each cycle to clean the spray nozzle.

This MicroMark 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.



## Features

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

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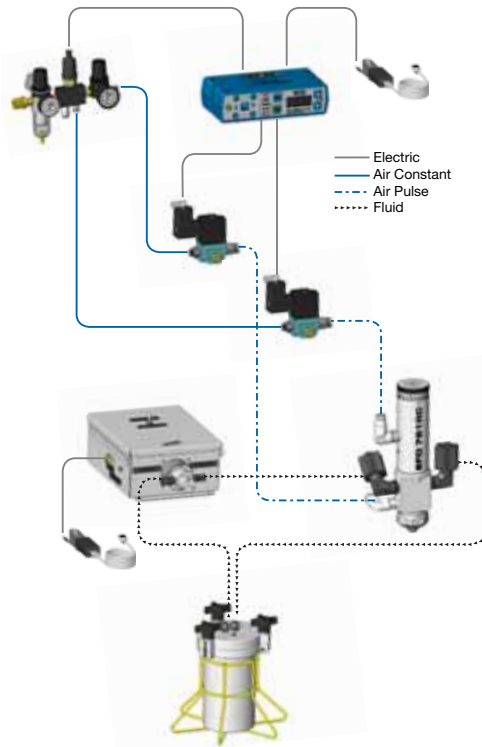
Sales and service of EFD® dispensing systems are available worldwide.

**Packaging - Processing**  
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The recirculating pump system includes the 781RC spray valve, ValveMate™ 8040 controller, recirculating pump and 1 liter fluid reservoir.

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

## 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

## Optional: XYZ Dispensing System

The EFD TT xyz dispensing system incorporates all functions of the controller. Compact 3-axis tabletop spray system offers coverage deposit repeatability. Work area: 325 x 325 x 100 mm or 525 x 525 x 100 mm.

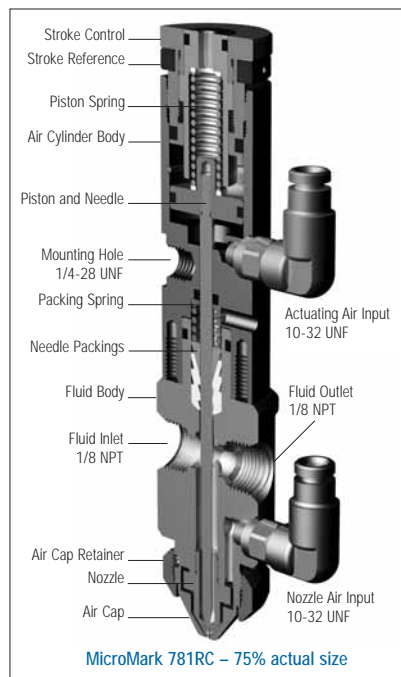
## MicroMark 781RC Valve

The precision spray valve features a nozzle with 0.7 mm (0.028") orifice and adjustable needle stroke for applying consistent 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 with high 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:** Type 303 stainless steel
- Fluid body:** Type 303 stainless steel
- 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.



## 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.



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## 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")
781RC-14	0.36 mm (0.014")	round	4.32 mm (0.17")	8.64 mm (0.34")	12.70 mm (0.50")	25.40 mm (1.00")
781RC-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")