

# MicroCoat<sup>®</sup> Lubrication System

## 781S series

The MicroCoat 781S Series system applies a fine, even coating of lubricants, corrosion inhibitors, and release agents used in the metal forming and die casting industries.

This unique modular system uses Low Volume Low Pressure (LVLP) technology to provide controlled, consistent lubrication in either pulsed or steady modes.

### The benefits are significant.

The MicroCoat's exact lubrication control will increase profit opportunities throughout your metal forming process. Reduced oil use will make your metal forming operation safer and more environmentally friendly as problems from drip pads, rollers and airless spray systems disappear. Plus, better lubrication control means cleaner parts.

*"The MicroCoat has increased die life 50%, reduced maintenance and downtime, and given us greater production capacity. Plus, part consistency is dramatically better."*

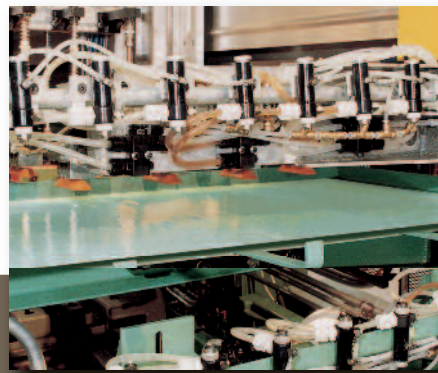
*Dennis Herdegen, Vice President of Manufacturing  
ETCO Inc.*



## Features

### The MicroCoat 781S provides:

- Controlled, uniform coverage – from any angle
- Pulsed or steady lubrication
- Oil savings of up to 90%
- Precise, reliable, low-maintenance lubrication
- Expandable system for different coverage areas
- Flexible feed from tanks, pumps or central system
- Versatility to handle different lubricant viscosities



## Applications

- Blanks, sheet or coil-fed stock
- Low to high viscosity lubricants
- In-die lubrication
- Drawing, piercing, crimping
- Pulsed lubrication (up to 300X/minute)
- Tube forming
- Fine blanking
- Corrosion/rust prevention



## System overview

The MicroCoat 781S system provides precise, consistent application of low to high viscosity lubricants from any angle. A precision stroke control adjustment allows the amount of lubricant applied by each valve to be fine-tuned for optimum coverage.

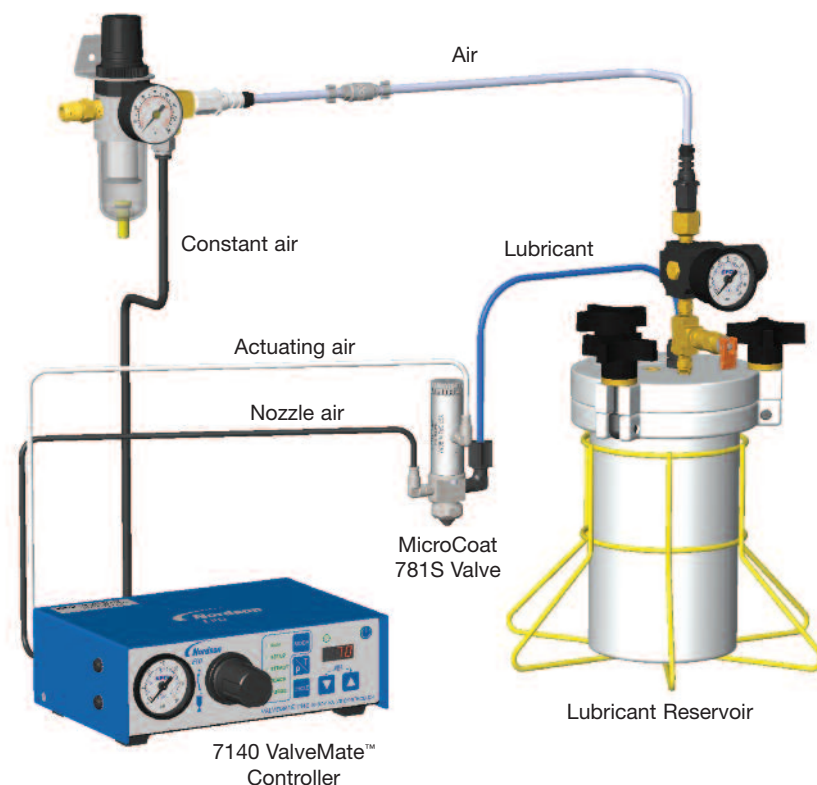
The combination of adjustable fluid flow, adjustable nozzle air and post-air cutoff provides excellent control. Precision-machined components and spring-loaded PTFE needle packings ensure many millions of trouble-free cycles.

## System configurations

One 781S Series valve will cover an area from 4.8 mm to 165.1 mm (3/16" to 6.5") wide. The standard MicroCoat 781S system configuration includes a lubricant reservoir, one or more valves, and a valve controller.

Components are ordered separately, depending on coverage requirements. Options include:

- 1 liter, 5 liter, or 19 liter tank
- 23 liter pump/regulator system
- Flow guard to signal low or high flow alerts (Steady lubrication mode only)
- Fluid regulator to step down pressure when fluid is supplied from a central reservoir



## 781S Series Valves

- 7021615: Stainless steel valve with .046" fan nozzle  
Maximum coverage 82.6 mm (3.25")
- 7021618: Stainless steel valve with wide fan nozzle  
Maximum coverage 165.1 mm (6.5")

## Options for custom systems:

To ensure proper system configuration, please speak with a MicroCoat Specialist.

- 7015341: ValveMate™ 7140 controller
- 7023836: FlowGuard System 120 VAC  
(also available for 100 & 220 VAC)
- 7023841: 6 gallon pump/regulator system 120 VAC  
(also available for 220 VAC)
- 7023854: Fluid regulator for central feed systems



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