

MicroCoat® 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.

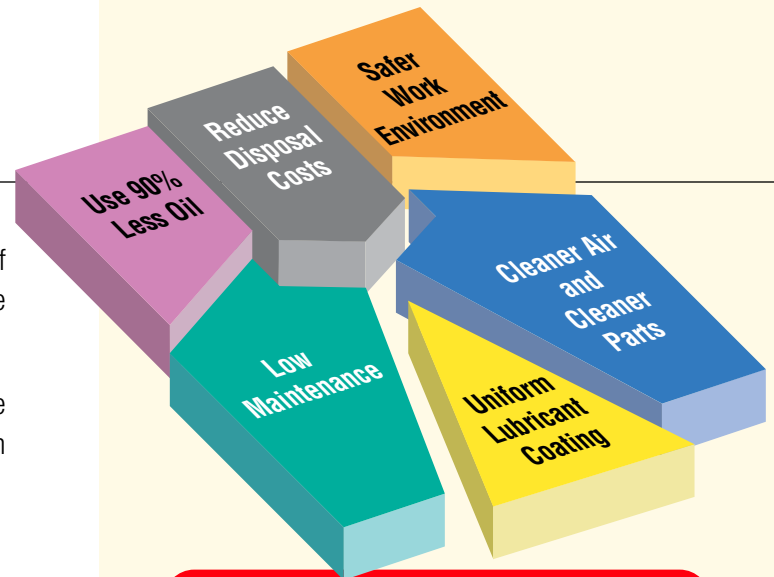
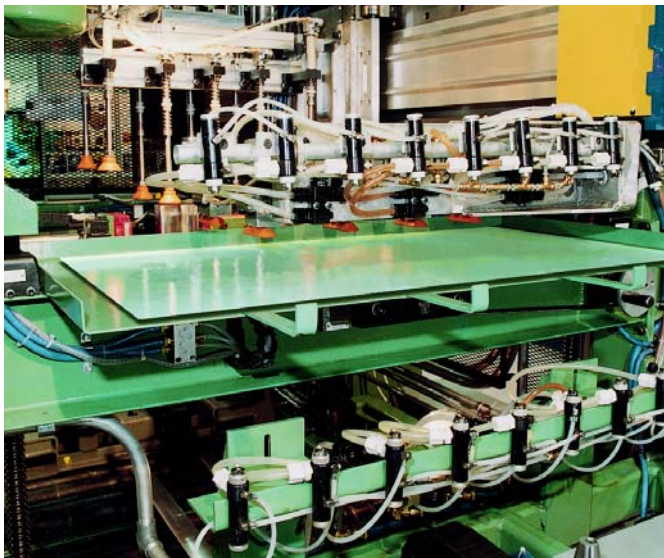
This unique modular system uses Low Volume Low Pressure (LVLP) technology to provide controlled, consistent lubrication in either pulsed or steady modes.

The 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.**

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.



Add up the savings!

Optimum results for:

- 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

“We reduced oil use 90% and cut our waste disposal costs in half. Plus, our dies stay in such good shape that we’ve increased the time between sharpenings by 40%.”

John Wilson, Chief of Operations
National Metal Technologies

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 Teflon® 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:

- 5 liter (1.3 gallon), 19 liter (5 gallon) or 76 liter (20 gallon) tank
- 23 liter (6 gallon) 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

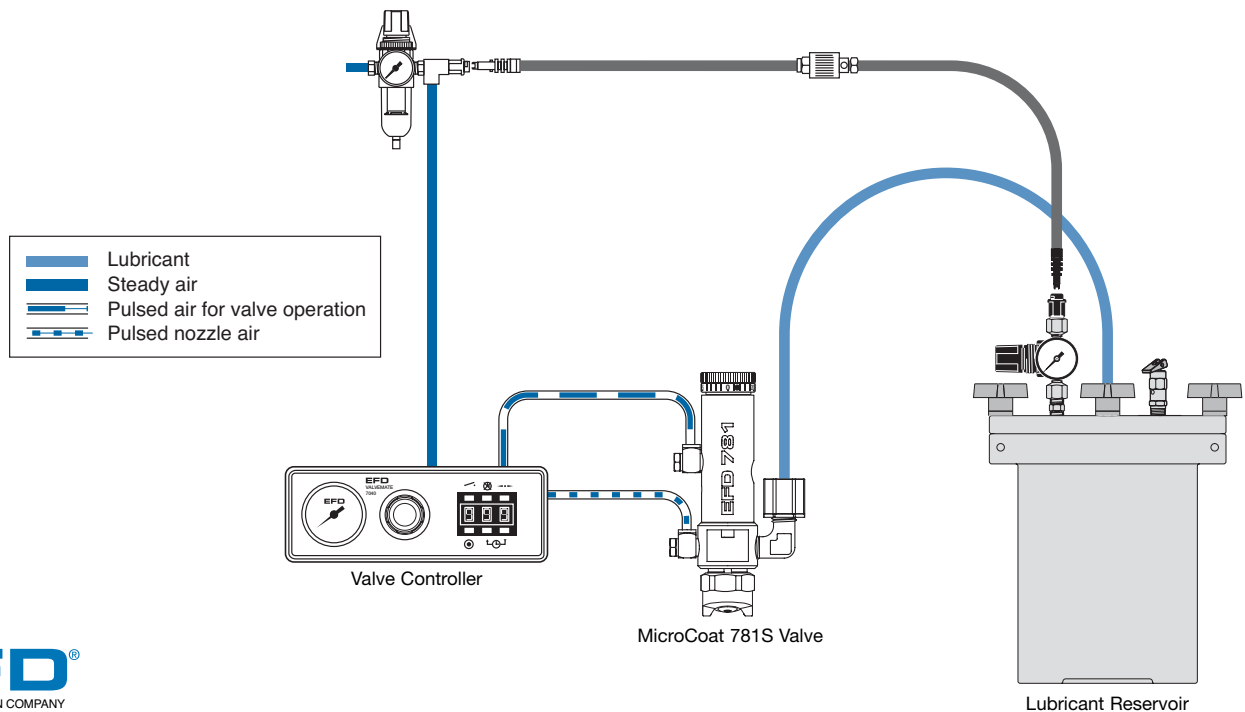
781S Series Valves

- 781S-SS-46F Stainless steel valve with fan nozzle
Maximum coverage 82.6 mm (3.25")
- 781S-SS-46WF 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.

- 7040 ValveMate™ Controller
- MC480M FlowGuard System
(specify for 120, 100 & 220 VAC)
- MC600 6 gallon pump/regulator system
(specify for 120 & 220 VAC)
- MC690M-FR Fluid regulator for central feed systems



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