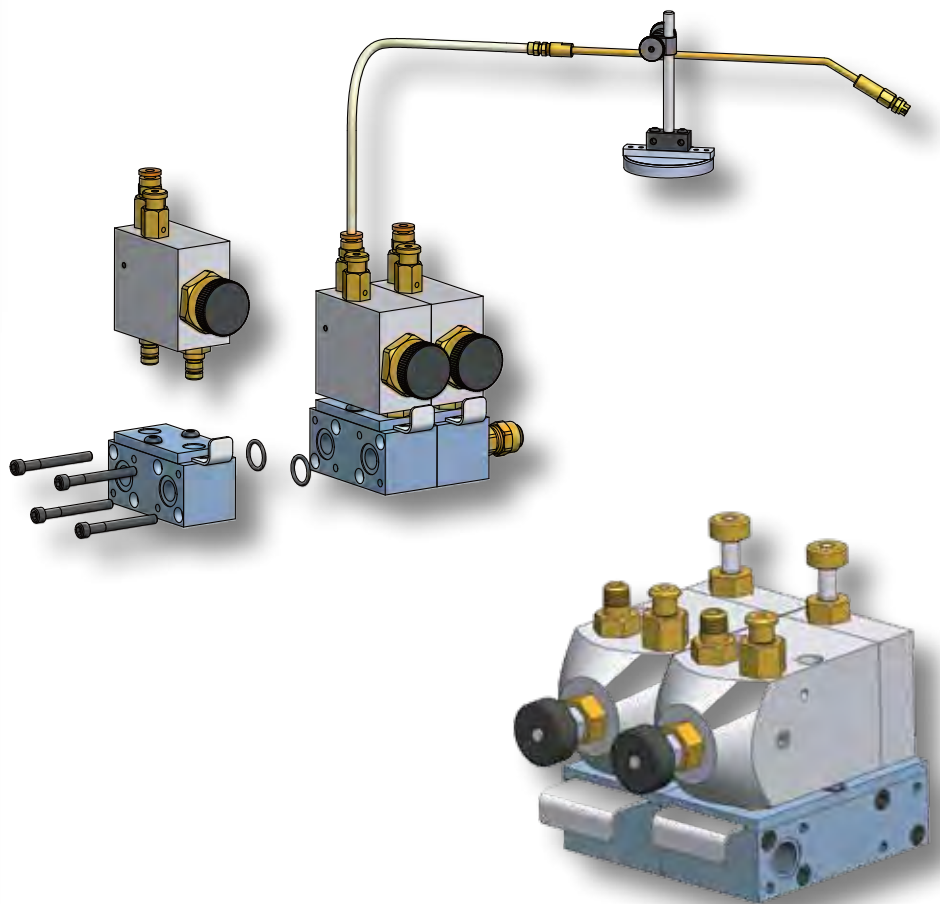


# PresSpray Plus

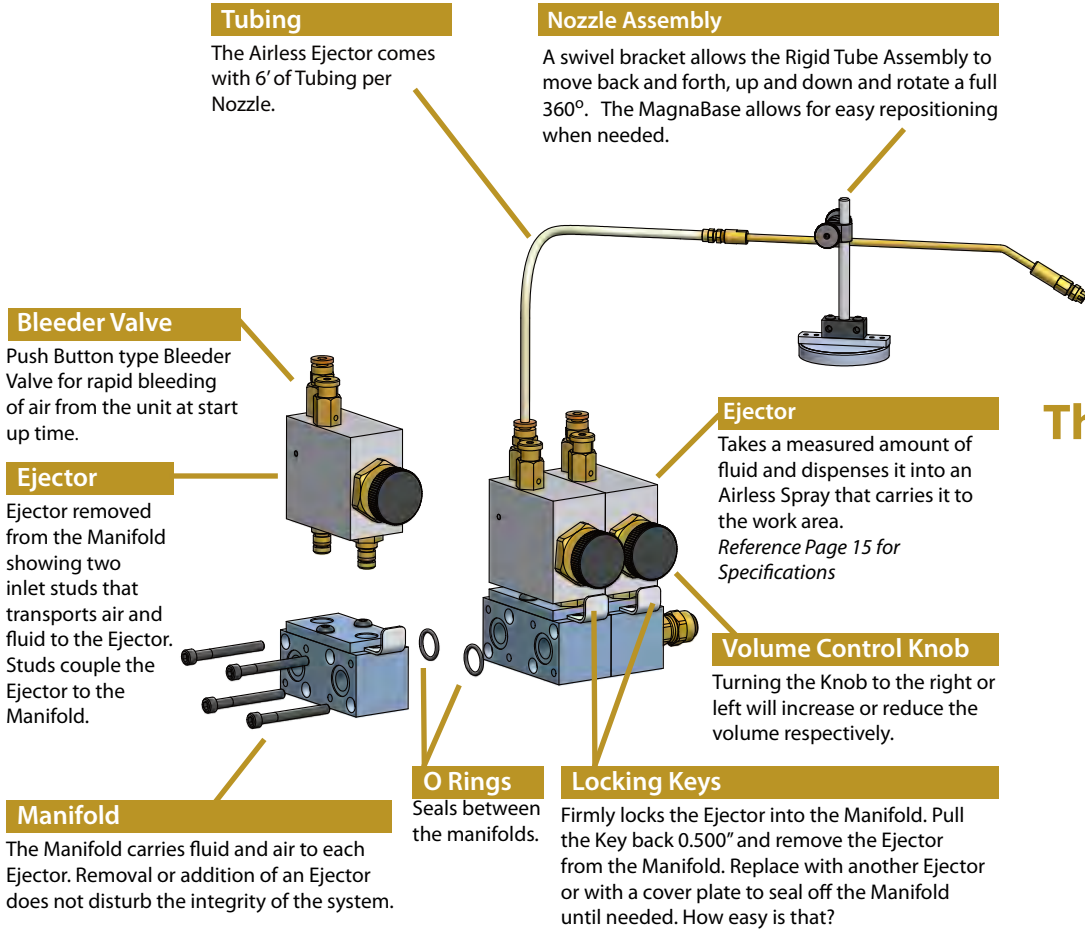
Precise dispensing of fluids in an Airless Spray



**LSP**<sup>®</sup> INDUSTRIES, INC.  
ROCKFORD, IL 61109

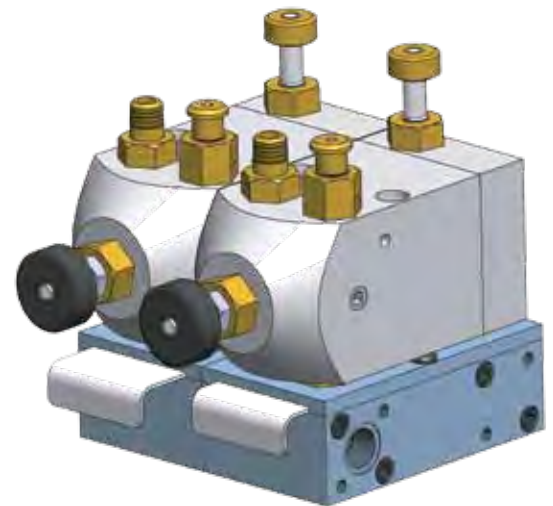
# How It Works and Why It Matters

The PresSpray Plus spraying system delivers a predetermined amount of fluid in an Airless Spray to the work area upon command. When an existing job needs more Ejectors they can be added rather than investing in completely new system. Simply screw another manifold into the system with four screws and then insert the new Ejector. An Ejector can be removed and replaced in minutes should service be required. Simply open the Locking Key and remove the Ejector and replace with a new ejector and go pack into production. Amazing!



## The MicroSpray-II for Lighter Fluid Applications

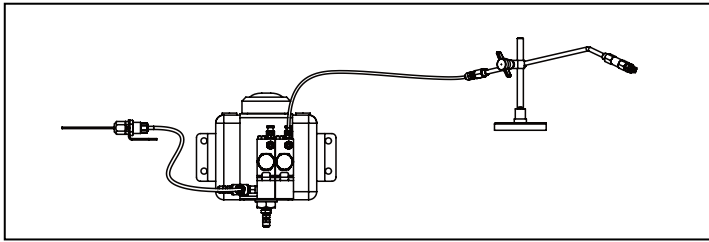
## The MiniSpray-II for Heavier Fluids and Larger Volumes



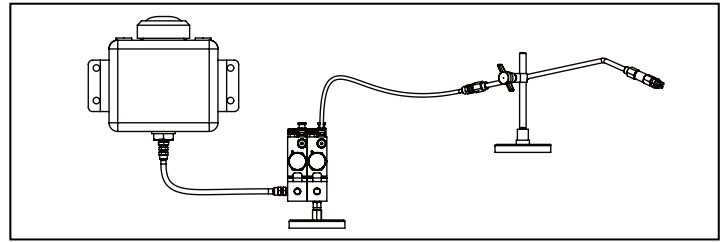
A bigger more powerful system for the larger applications or those requiring a heavier viscosity fluid. This system dispenses 75 percent more fluid and can spray heavier fluids. A perfect package for Manifold assemblies for individually controlled Manifolds. One Ejector can handle two nozzles when necessary and it is especially helpful when used in stand alone applications.

# PresSpray Plus Configurations

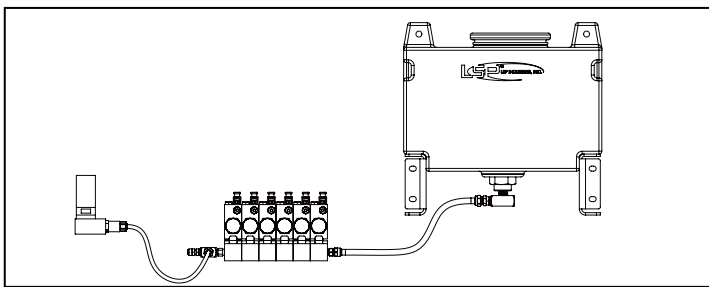
The PresSpray Plus can be set up in a variety of configurations using different accessories. With the unique design it can be assembled in many different ways depending upon the user's needs. There are many options for a system, here are but a few, use your imagination for other configurations.



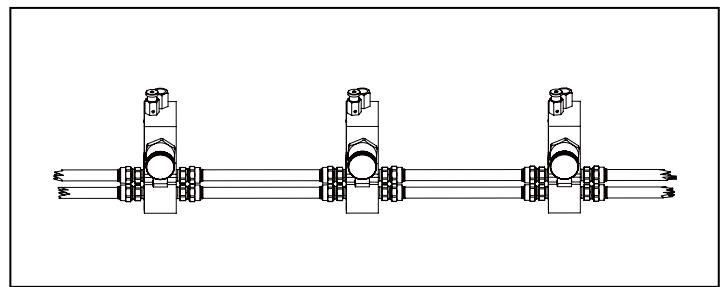
Ejectors mounted on the 2 quart Reservoir. Shown with a Mechanical Actuator used to actuate the unit. Mount Reservoirs permanently to a vertical surface or use magnets can be utilized for easy relocation. The MiniSpray-II is the only unit that mounts on the 2 quart Reservoir.



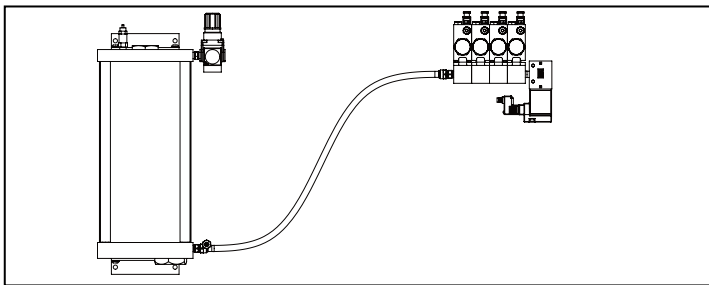
The gravity feed system using the 2 quart Reservoir is for small applications. By mounting the Ejectors remote from the Reservoir it allows Ejectors to be located closer to the work area. A magnet supporting the Ejectors allows for easy relocation if needed.



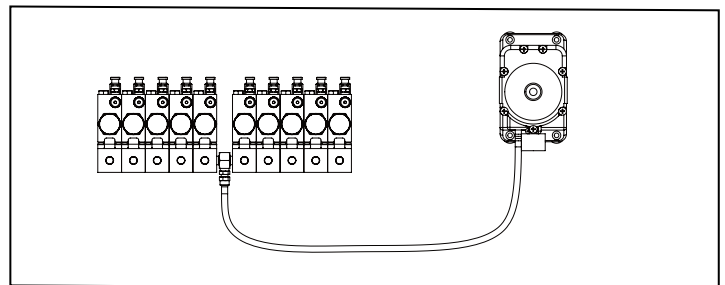
Ejectors actuated with an Air Timer which gives a repetitive signal regardless of the cycle of the machine. Ideal for roll formers or ultra high speed machines. Set the speed on the Air Timer and it will pulse until turned off. Can be tied into the machine for on/off.



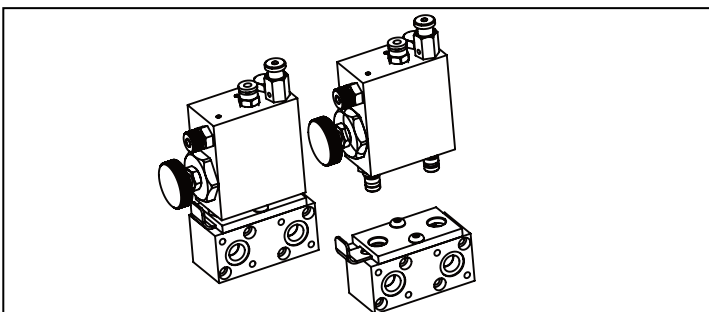
Lubricate a number of spots located over a long distance. Position Ejectors where needed and connect them with rigid tubing or LSP heavy wall nylon tubing. Actuate all at the same time or programed to actuate when needed.



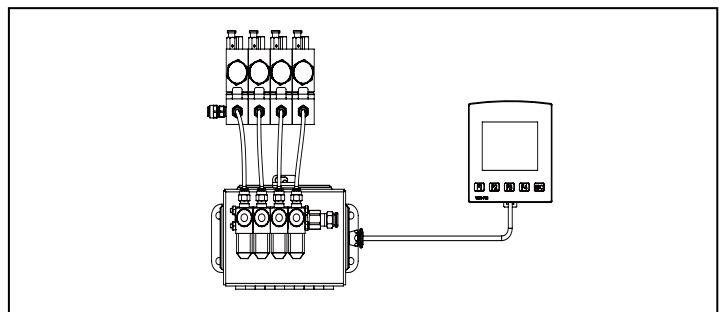
Feed Ejectors with a Pressure Pot. Either one can be located remotely, either close or far and can be situated either higher or lower than the fluid Ejectors. Comes with a 30 PSI Pop-Off and an Air Regulator.



For big jobs use the LSP Diaphragm pump. It can supply fluid to 25 or more Ejectors. The Ejectors can be located on one machine or spread out over a number of machines. Choose the actuator of your choice to actuate the units.



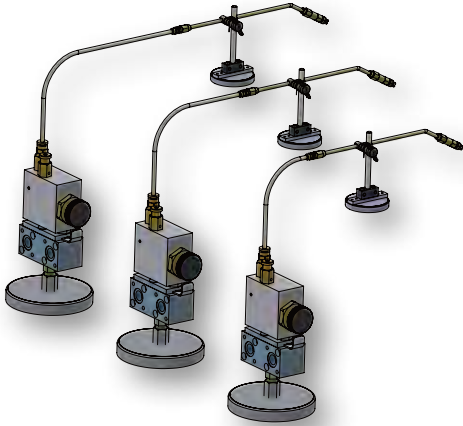
The MicroSpray-II being removed from their Manifolds by simply unlocking the key and lifting the Ejector up. Should the unit need servicing, remove the Ejector and replace with a standby Ejector while the original is being serviced.



A Solenoid Manifold is utilized to actuate individual Ejectors Independent of each other. Solenoids are activated from a program on the LSP Electronic Controller. Solenoid Manifolds available with 4, 5 or 6 Solenoids.

# Basic PresSpray Plus Packages

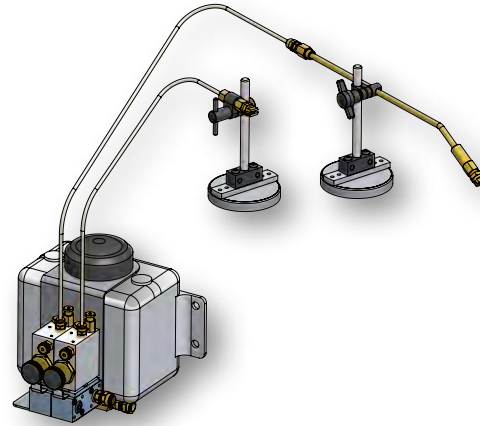
The Basic PresSpray Plus system delivers fluid to a work area in a fast economical repetitive installation. Units come preassembled at the LSP Plant to eliminate set up time during installation.



## MicroSpray-II, P1000

Supplied with fluid from a gravity feed Reservoir. Recommended for use with Two Quart Reservoir, or One and a Half Gallon Reservoir.  
*Note: One Magnetic Base can support up to three P1000 Ejectors.*  
 Includes stand-alone Ejectors only.  
 Reservoir, Nozzle, Nozzle Tubing, Actuator and Magnetic Base to hold Ejector ordered separately.  
*Reference: Pg. 11 for Nozzles; Page 5 for Reservoirs and Page 12 for Actuators.*  
*Note: One Magnetic Base can support up to three P1000 Ejectors.*

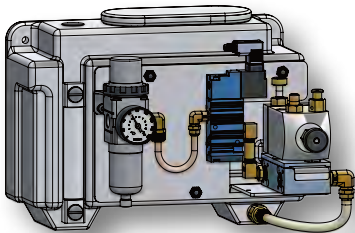
No. of Ejectors	Type of Ejector	Part No.
1	Common	P1000



## MicroSpray-II Mounted on a Two Quart Reservoir

Includes: Reservoir and Ejectors only.  
 Reservoirs can be permanently held in place using two P9001 Magnetic Bases.  
*Reference Pg. 5 for Reservoirs; Pg. 11 for Nozzles and Nozzle Tubing and Pg. 12 for Actuators.*

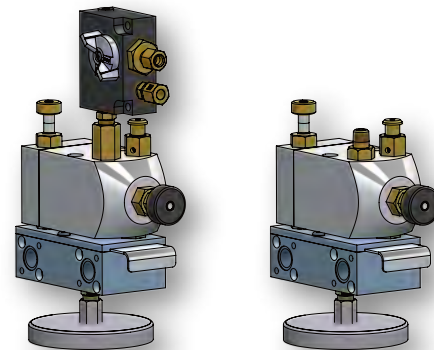
No. of Ejectors	Type of Ejector	Part No. w/2 qt. Res.
1	Common	P1200-1
2	Common	P1200-2
3	Common	P1200-3
4	Common	P1200-4



## Basic MiniSpray, P5000 and P5002 Mounted on a 1-1/2 Gallon Reservoir

*Nozzles, Nozzle Tubing and Actuator ordered separately*  
*Reference Pg. 11 for Nozzles and Pg. 12 for Actuators.*

No. of Ejectors	Type of Ejector	Part Number w/one outlet	Part Number w/2 Port Manifold
1	Common	P5001	P5002



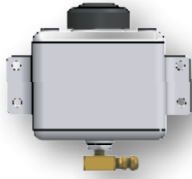
## MiniSpray-II P4001 and P4002

P2000-1Ejector with one Outlet or P2000-2 Ejector with 2 Port Manifold only.  
 Can be installed permanently or with Magnetic Base for portability.  
 Reservoir, Nozzles, Nozzle Tubing, Actuator and Magnetic Base to hold Ejector ordered separately.  
*Reference Pg.11 for Nozzles and Tubing; Pg. 5 for Reservoirs and Pg. 12 for Actuators.*

No. of Ejectors	Type of Ejector	Part Number w/one outlet	Part Number w/2 Port Manifold
1	Common	P4001	P4002

# Reservoirs, Pressure Pot & Pump for Gravity & Pressure Feed

Supplying fluid to the MicroSpray-II and MiniSpray-II with Gravity Feed Reservoirs, Diaphragm Pump or Pressure Pot. Allows the Ejectors to be positioned in a close proximity to the work area which makes for a very clean installation.



## P7100 - 2 Quart Reservoir

A compact 2 quart Reservoir with sleeves on either side to securing it to vertical surfaces. Translucent in color with filter and five feet of tubing.



## P7101 - 1-1/2 Gallon Reservoir

A Reservoir that accommodates Multiple MicroSpray-II units or single MiniSpray-II unit. Feet for setting on horizontal surfaces or ears to secure it to vertical surfaces. Translucent in color with filter and five feet of tubing.



## P7306 - 1 Gallon Pressure Pot

A one gallon Pressure Pot to feed fluid under pressure. Clear reservoir, pressure regulator for air in and a solenoid valve at the fluid out port. Includes a 30PSI pop-off valve.



## P7310 - Diaphragm Pump

One pump is capable of supplying fluids to multiple MiniSpray-II's. Comes with three feet of Inlet Tubing and filter.

PresSpray Plus can be supplied with fluid by a number of means. Here we are showing three ways to supply fluid to the MicroSpray-II or MiniSpray-II from a remote location. Feeding the Ejectors from a remote location allows them to be located closer to the work area thus reducing the length of tubing to the Nozzles and makes for a clean installation.

Our five Reservoirs are gravity fed Reservoirs. They vary in size from two quarts to ten gallons. The different sizes will accommodate different numbers of Ejectors used to make a Manifold system. Two feet support the larger Reservoirs and protect the outlet on the bottom of the Reservoir.

The two quart Reservoir is ideal for up to four MicroSpray-II Ejectors. The two and a half gallon Reservoir to the 10 gallon Reservoirs are better suited for the larger MiniSpray-II systems.

Another way to feed the Ejectors is with the P7306 one gallon Pressure Pot. Since the fluid is under pressure it allows for the Ejectors to be placed further away. Can supply a large number of MicroSpray-II and MiniSpray Ejectors.

The last method of remote feeding is the LSP Diaphragm Pump. Distance is no obstacle and the unit is capable of handling many MicroSpray-II or MiniSpray-II's in different locations.

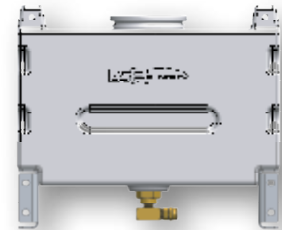
The last method of remote feeding is the P7310 Diaphragm Pump. Distance is no obstacle and the unit is capable of handling many MicroSpray-II's or MiniSpray-II's in different locations.

**Reference Page 8 & 9  
To View New Quick Change  
Reservoirs**



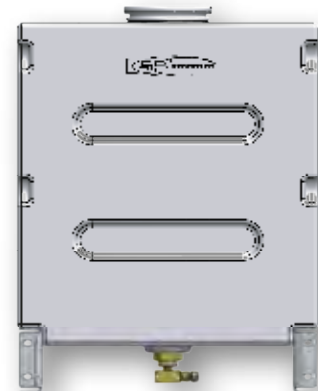
## P7102 - 2-1/2 Gallon Reservoir

A compact 2-1/2 gallon Reservoir that holds Manifolds with 1 to 6 Ejectors. Two ears to facilitate mounting of the Reservoir to a vertical surface. Clear in color with filter and five feet of tubing.



## P7105 - 5 Gallon Reservoir

A medium size Reservoir that supplies fluid to one to six Ejectors. The five gallon Reservoir has two ears for permanently mounting of the Reservoir to a vertical surface or feet for standing on the floor. Translucent color and comes with a bag filter to insure clean fluid



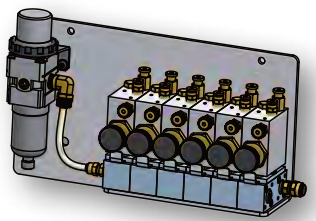
## P7110 - 10 Gallon Reservoir

A large Reservoir that is used for Manifolds with one to Six Ejectors. The ten gallon Reservoir when fully filled weighs about 80 lbs best located on the floor, a cart or on a table. The Reservoir is translucent and comes with a filter.

# Brackets with Ejectors for Gravity Feed or Power Feed

PresSpray Plus mounted onto a Bracket allows for a system to be used in a variety of installations. The Bracketed units stand alone and are fed by gravity feed Reservoirs or force fed with a Pressure Pot or Diaphragm Pump. The Bracketed units can be mounted on to a vertical surface in a location convenient for an operator to adjust as needed. Number of Ejectors can be changed as circumstances dictate rather than purchasing a new system.

Preassembled at the LSP Factory and  
**Commonly Timed**



Commonly Timed  
MicroSpray on Reservoirs

No. of Ejectors	On a Bracket
1	P1100-1
2	P1100-2
3	P1100-3
4	P1100-4
5	P1100-5
6	P1100-6

## The MicroSpray

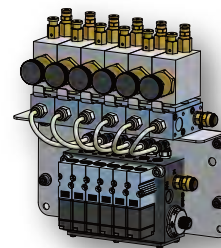
Mounted on a Bracket for easy of installation and operation. Place Reservoir above Ejector for gravity feed. Each Ejector dispenses a small amount of fluid per actuation. Use it for the smaller jobs where precision lubrication is needed.

*Actuators and Nozzles are ordered separately due to the wide variety of choices.*

*(Exception) The LSP Electronic Controller is included with the Independent Timed system shown on the right.*

*Reference:  
Pg.12 for Actuators.  
Pg.11 for Nozzles.*

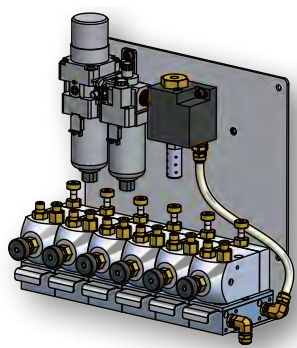
Preassembled at the LSP Factory and  
**Independently Timed**



Independently Timed  
MicroSpray-II on Reservoirs

No. of Ejectors	On a Frame with LSP Controller
2	P2100-2
3	P2100-3
4	P2100-4
5	P2100-6
6	P2100-7

Preassembled at the LSP Factory and  
**Commonly Timed**



Commonly Timed  
MiniSpray on Reservoirs

No. of Ejectors	On a Bracket
1	P4100-1
2	P4100-2
3	P4100-3
4	P4100-4
5	P4100-5
6	P4200-6

## The MiniSpray

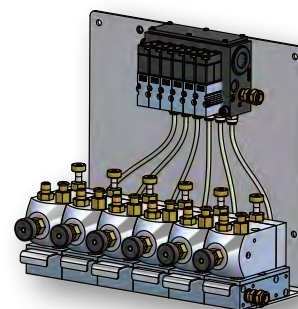
Mounted on a Bracket and normally mounted on the side of a press with the Reservoir higher than the unit. Use it for the bigger jobs where more lubricant is needed. Designed to be trouble free but if maintenance is required Ejectors can be removed without any tools. Doesn't get any easier than that.

*Actuators and Nozzles are ordered separately due to the wide variety of choices.*

*(Exception) The LSP Electronic Controller is included with the Independent Timed system shown on the right.*

*Reference:  
Pg.12 for Actuators.  
Pg.11 for Nozzles.*

Preassembled at the LSP Factory and  
**Independently Timed**



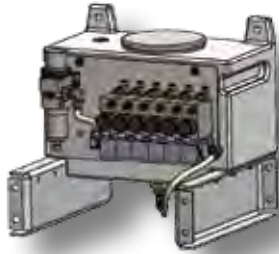
Independently Timed  
MiniSpray-II on Reservoirs

No. of Ejectors	On a Frame with LSP Controller
2	P5100-2
3	P5100-3
4	P5100-4
5	P5100-5
6	P5100-6

# Ejectors Preassembled on Reservoirs

PresSpray Plus units are attached directly to Reservoirs at the LSP factory with the necessary accessories to reduce installation time and labor. The assembled package can be permanently attached to the side of a press or set on a LSP PortaCart for easy mobility from press to press. The preassembled Reservoirs on a PortaCart offers the proper height for easy refilling of the reservoir when necessary.

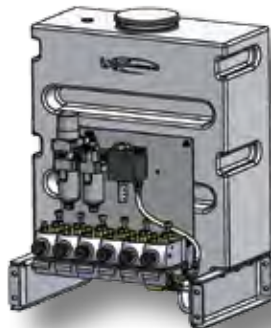
## Preassembled at the LSP Factory and Commonly Timed



Commonly Timed MicroSpray on Reservoirs

No. of Ejectors	1-1/2 Gal. Reservoir	2-1/2 Gal. Reservoir	5 Gal. Reservoir
1	P1301-1	P1302-1	P1305-1
2	P1301-2	P1302-2	P1305-2
3	P1301-3	P1302-3	P1305-3
4	N/A	P1302-4	P1305-4
5	N/A	P1302-5	P1305-5
6	N/A	P1302-6	P1305-6

## Preassembled at the LSP Factory and Commonly Timed



Commonly Timed MiniSpray on Reservoirs

No. of Ejectors	1-1/2 Gal. Reservoir	2-1/2 Gal. Reservoir	5 Gal. Reservoir	10 Gal. Reservoir
1	P4300-1	P4302-1	P4305-1	P4310-1
2	P4300-2	P4302-2	P4305-2	P4310-2
3	P4300-3	P4302-3	P4305-3	P4310-3
4	N/A	P4302-4	P4305-4	P4310-4
5	N/A	P4302-5	P4305-5	P4310-5
6	N/A	P4302-6	P4305-6	P4310-6

## The MicroSpray

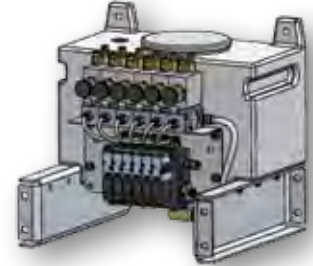
Mounted on a Reservoir for easy installation and operation. Goes to work almost as fast as it is unpacked. Use it where precision lubrication is needed for the smaller jobs.

*Actuators and Nozzles are ordered separately due to the wide variety of choices.*

*(Exception) The LSP Electronic Controller is included with the Independent Timed system shown on the right.*

*Reference:  
Pg.12 for Actuators.  
Pg.11 for Nozzles.*

## Preassembled at the LSP Factory and Independently Timed



In Commonly Timed MicroSpray-II on Reservoirs

No. of Ejectors	2-1/2 Gal. Reservoir	5 Gal. Reservoir
2	P2302-2	P2305-2
3	P2302-3	P2305-3
4	P2302-4	P2305-4
5	P2302-5	P2305-5
6	P2302-6	P2305-6

## Preassembled at the LSP Factory and Independently Timed



Independently Timed MiniSpray-II on Reservoirs

No. of Ejectors	1-1/2 Gal. Reservoir	2-1/2 Gal. Reservoir	5 Gal. Reservoir	10 Gal. Reservoir
2	P5300-2	P5302-2	P5305-2	P5310-2
3	P5300-3	P5302-3	P5305-3	P5310-3
4	N/A	P5302-4	P5305-4	P5310-4
5	N/A	P5302-5	P5305-5	P5310-5
6	N/A	P5302-6	P5305-6	P5310-6

## The MiniSpray

Mounted on a Reservoir for ease of installation and Operation. Goes to work almost as fast as it is unpacked. Use it where Heavier lubrication is needed for the bigger jobs.

*Actuators and Nozzles are ordered separately due to the wide variety of choices.*

*(Exception) The LSP Electronic Controller is included with the Independent Timed system shown on the right.*

*Reference:  
Pg.12 for Actuators.  
Pg.11 for Nozzles.*

# PresSpray Plus for Quick Change Reservoirs

The Quick Change System allows for the quick changing of Reservoirs whenever the need occurs. If operations change and a different fluid is needed a fast change of Reservoirs is the answer rather than cleaning a Reservoir and using it again or if wanting to keep a machine in operation without downtime a second Reservoir is always filled and ready for a fast switch to minimize downtime. Changeover is accomplished in minutes.

**P8102 2-1/2 Gallon Reservoir**  
**P8105 5 Gallon Reservoir**  
**P8110 10 Gallon Reservoir**

**Round Snap-On Lid**  
Four and a half inches in diameter to allow for easy filling and holds bag filter to always keep the fluid clean.

**Handles**  
Recesses on either side of the Reservoir allows for easy lifting of the Reservoir when it has to be replaced.

**Male Quick Disconnect**  
Seals off fluid when the Reservoir is removed from the Frame and opens up when reconnected to Female Quick the Frame

**Reservoir**  
A clear rectangular Reservoir that offers a visual view of the fluid level from all sides. Heavy Duty Chemical resistant long chain Polyethylene Plastic. *Designed to last.*

**Two Feet**  
Two feet protect the Quick Change Fitting when setting the Reservoir on the floor waiting to replace an empty Reservoir.

**Filter Regulator Oiler**  
Mounted on the Frame

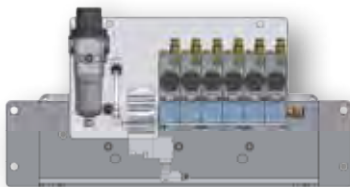
**MicroSpray-II or MiniSpray-II**  
Fastened to the frame

**Two Spring Loaded Locking Pins**  
(Not Shown)  
Locks the Frame to the Reservoir. Twist the Reservoir and Reservoir and Frame are disconnected. Push the Reservoir down and it is locked to the Frame.

**Metal Frames**  
Has ears to mount to a wall or a base that sets on the floor. Frame will accept up to 6 MicroSpray-IIs units

**Reference: Choice of Reservoir, Top of Page**  
**Choice of Nozzles, Page 12**  
**Choice of Actuators, Page 13**

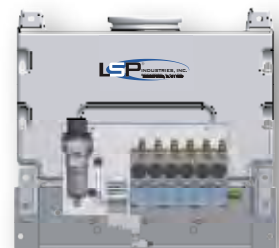
When frequently changing fluids the Quick Change Reservoir System eliminates the necessity for cleaning the Reservoir to accept the new fluid. Have designated Reservoirs and just drop into place when needed.



**1.** The MicroSpray-II is mounted on a metal Frame that has a female quick disconnect to accept fluid from the reservoir as needed. Dual Spring Loaded Locking Pins hold the Reservoir to the Frame.



**2.** A Reservoir standing on two feet, filled with fluid ready to be attached to the MicroSpray-II on a Frame. Just insert male quick disconnect into mating part on the Frame. Press down on the Reservoir to finalize the connection

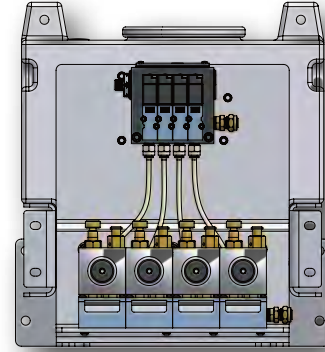
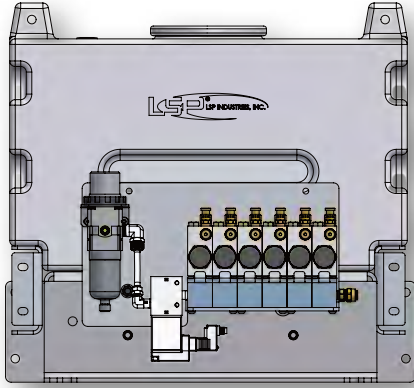


**3.** Reservoir and frame with the MicroSpray-II are now locked in place and ready to use. No valves to forget to open or close, just start the machine and begin to run. Could it be any easier?



# Ejectors Attached to Quick Change Reservoirs

Available in 2-1/2 gallon, 5 gallon and 10 gallon Reservoir. Choose the type of Ejector needed, the Actuator of choice and the Nozzle Assembly that best fits the application for a Quick Change System.



## Common Ejectors

Six MicroSpray-II Ejectors mounted to a Metal Frame accepts a 5-Gallon Reservoir. The Reservoir has feet for resting on the floor or a cart while waiting to be attached to a Frame. Comes with Quick Change fittings for easy matting of the Reservoir to the Frame. Includes a large Filter Bag to keep the fluid clean.

Reference: Pg. 11 for choice of Nozzles.

Pg. 12 for choice of Actuators

## Independent Ejectors

Four MiniSpray-II Ejectors on a 2-1/2 gallon Quick Change Reservoir. The Reservoir has feet for resting on the floor while waiting to be integrated to the Frame. Comes with Quick Change fittings for easy matting of the Reservoir to the Frame and includes a large Filter Bag to keep the fluid clean.

Reference: Page 11 for choice of Nozzles.

Page 12 for choice of Actuators

## The MicroSpray-II Reservoir, Frame & Ejectors for Common and Independent Ejectors

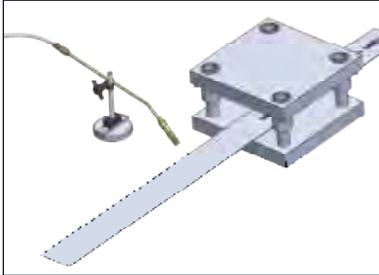
No. of Ejectors	Common MicroSpray-II on a 2-1/2 Gal. Reservoir	Common MicroSpray-II on a 5 Gal. Reservoir	Common MicroSpray-II on a 10 Gal. Reservoir	Independent MicroSpray-II on a 2-1/2 Gal. Reservoir	Independent MicroSpray-II on a 5 Gal. Reservoir	Independent MicroSpray-II on a 10 Gal. Reservoir
1	P1802-1	P1805-1	P1810-1	N/A	N/A	N/A
2	P1802-2	P1805-2	P1810-2	P2802-2	P2805-2	P2810-2
3	P1802-3	P1805-3	P1810-3	P2802-3	P2805-3	P2810-3
4	P1802-4	P1805-4	P1810-4	P2802-4	P2805-4	P2810-4
5	P1802-5	P1805-5	P1810-5	P2802-5	P2805-5	P2810-5
6	P1802-6	P1805-6	P1810-6	P2802-6	P2805-6	P2810-6

## The MiniSpray-II Reservoir, Frame & Ejectors for Common and Independent Ejectors

No. of Ejectors	Common MiniSpray-II on a 2-1/2 Gal. Reservoir	Common MiniSpray-II on a 5 Gal. Reservoir	Common MiniSpray-II on a 10 Gal. Reservoir	Independent MiniSpray-II on a 2-1/2 Gal. Reservoir	Independent MiniSpray-II on a 5 Gal. Reservoir	Independent MiniSpray-II on a 10 Gal. Reservoir
1	P4802-1	P4805-1	P4810-1	N/A	N/A	N/A
2	P4802-2	P4805-2	P4810-2	P5802-2	P5805-2	P5810-2
3	P4802-3	P4805-3	P4810-3	P5802-3	P5805-3	P5810-3
4	P4802-4	P4805-4	P4810-4	P5802-4	P5805-4	P5810-4
5	N/A	P4805-5	P4810-5	N/A	P5805-5	P5810-5
6	N/A	P4805-6	P4810-6	N/A	P5805-6	P5810-6

# The Many Uses for LSP Airless Spray Equipment

Precise, controlled dispensing of fluids in an Airless Spray. If there is an application where a measured amount of lubricant is required on a demand schedule the LSP Airless Spray Equipment is ideally suited for the job. Here are a few applications that need this versatile equipment. Use your imagination for other applications.

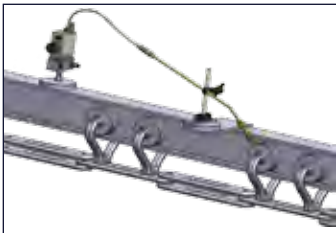


## Stamping Applications

The LSP Airless Ejectors are designed to dispense a small amount of lubricant into the die area upon command. It is a positive displacement pump that uses an Airless Spray to dispense the lubricant into the die area on a predetermined cycle of the press. Set the volume of lubricant needed and the Ejectors will deliver that amount automatically as programmed. Rest assured that the die will be lubricated with the correct amount of lubricant.

## Bearing Lubrication

Bearing lubrication made easy. Timely lubrication delivered with the MicroSpray-II or the MiniSpray-II and controlled with the LSP Electronic Controller and. Designed to handle up to 16 points with a standard unit. The Controller can be programmed to lubricate all bearings at the same time or lubricate at different times. Each point is lubricated with a small, measured amount of lubricant.



## Overhead Conveyor Lubrication

Lubricating conveyors on a regular basis eliminates jerking and grabbing. Using the LSP Airless Ejectors applies the lubricant when needed and puts the lubricant where needed, on the bearings. An LSP Controller picks up the location of the bearing and signal the Airless Ejectors to dispense an instantaneous dispersions of lubricant to when needed.

## Assembly Applications

The MicroSpray-II can apply lubricant to a part prior to the insertion of another part. By applying the lubricant in a controlled manner, the parts are assembled without damaging the parts. Shown here is a sleeve being lubricated prior to the insertion of an O-ring.



## Roll Forming

Lubricate selected rolls with the Airless Ejectors. Place Ejectors near each station or group together and run Nozzles to the different rolls. The Ejectors are set to dispense a small volume of lubricant and programmed to actuate on a timed cycle so that rolls are consistently receiving lubricant to increase roll life, improve quality and clean up the work area.

# Nozzles & Nozzle Holders

Each Ejector requires one Nozzle. Different Airless Nozzles are designed to give different types of spray patterns and are used with different Nozzle holding devices.

## Nozzles for the MicroSpray Only



**P210**  
Compact Nozzle Holder  
Includes Magnetic Base and Swivel, on a Six inch Post  
**P925**  
Swivel, on a Six inch Post  
**P905**  
Magnetic Base Only



**Compact Nozzle**  
with  
3/16" Compression Fitting  
For Compact Nozzle Holder

Part No.	Nozzle Tip
P5010	95° Fan
P5011	110° Fan
P5012	80° Fan
P5013	65° Fan
P5014	25° Fan
P5016	Drop Nozz

## Nozzles for the MiniSpray Only



**MagnaTube**  
with Twelve inch FlexTube  
w/Magnetic Base for Portability

Part No.	Nozzle Tip
P221	110° Fan
P222	80° Fan
P223	65° Fan
P225	25° Fan
P227	55° Round



**P210**  
Compact Nozzle Holder  
Includes Magnetic Base and Swivel, on a Six inch Post.  
**P925** Swivel, on a Six inch Post.  
**P905** Magnetic Base Only



**FlexTube**  
12" tube w/1/8 NPTM Stud for permanent mounting. Tube  
Each Nozzle comes with 5' of tubing.

Part No.	Nozzle Tip
P211	110° Fan
P212	80° Fan
P213	65° Fan
P215	25° Fan
P217	55° Round

### Tubing to the Nozzle

LSP Heavy Wall Tubing is the only tubing recommended from the Ejector to the Nozzle. Tubing is available in per foot measurements. LSP Tubing ensures a sharp spray dispersment and eliminates after-drip.  
**P943** 3/16 tubing for the MicroSpray only  
**P940** 1/4 tubing for all other PresSpray units



**Compact Nozzle**  
with  
1/4" Compression Fitting  
for Compact Nozzle Holder



Part No.	Nozzle Tip
P201	110° Fan
P202	80° Fan
P203	65° Fan
P205	25° Fan
P207	55° Round
P208	15° Fan

**Compact Nozzle**  
with  
1/8 NPTM and adapts to Permanent Fixtures



Part No.	Nozzle Tip
P251	110° Fan
P252	80° Fan
P253	65° Fan
P255	25° Fan
P257	55° Round
P259	15° Fan

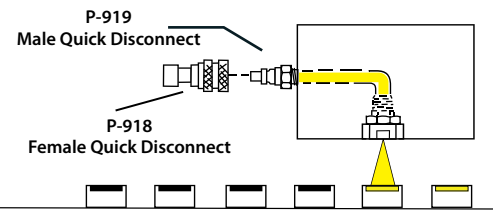
### In-Die Nozzle

Insert Nozzle into the die so that the spray is properly aimed. Place die in the press and attach tubing from the Ejector to the fitting in the die. Every time the Ejector is activated the nozzle dispense lubricant.

#### In-Die Nozzle with Built-In Check Valve

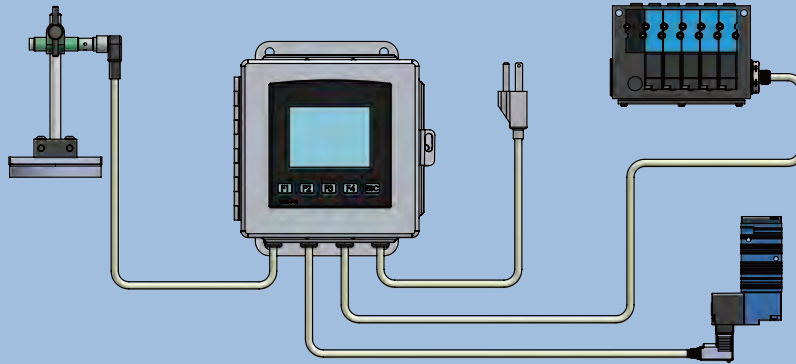


Part No.	Nozzle Tip
P241	110° Fan
P242	80° Fan
P243	65° Fan
P245	25° Fan



# LSP Electronic Controller

Controls the actuation of each LSP Ejector. The Controller receives a signal from a Proximity Sensor and then activates the Ejectors to dispense fluid at the prearranged time during the cycle of the machine.



## P3300 & P3302 LSP Electronic Controllers

Controller	Contents
P3300	One Proximity Input Sensor One Output for one to twelve Solenoids
P3302	One Proximity Input Sensor Two Outputs for one to twelve Solenoids
<i>Reference: Solenoid Manifolds are ordered separately.</i>	

## Solenoid Manifolds

Part No.	Number of Solenoids on a Manifolds
P3320-1	One Solenoid
P3320-2	Two Solenoids
P3320-3/12	Three/Twelve Solenoids

Continue the number of Solenoids up to 12 for maximum bank of Solenoids

## LSP Electronic Controller Features Consist of a Computer, Touch Screen, Solenoid Valve and Proximity Sensor

- Touch Screen: Visually set the parameters of the program.
- Time Delay: Determines how long a delay will transpire before activating the Ejector after a signal is received.
- Pulsator: Gives the Ejector multiple actuations per cycle of the machine.
- Counter: The Ejector can activate on any cycle of a machine from 1 - 99.
- Memory: Switch to the memory function, assign a number and save. Recall the number the next time the job is run and the Ejector is ready for operation. Memory can save up to 99 jobs.

## P3315 LSP Electronic Timer

Sends repetitive split second signals to actuate the Ejectors. These signals are adjustable from one to ninety nine hours or as fast as 300 cycles per minute. The timer is tied into the on/off cycle of the machine. An open ended cord can be used in place of the sensor. Attach this cord to an external switch that is activated on for as long as the machine is running. When the switch is in the "ON" mode the timer Actuator is on, when the switch is in the "OFF" mode the Actuator is in the rest mode.

Also has a memory to save past jobs.

*Best applications are high speed presses, roll formers and other similar equipment.*

### Mechanical Actuator & Valve



#### P3092 Mechanical Actuator P9093 3-Way Air Valve

Requires no electrical input. Used on machines that have repetitive motion that can trip the wand on each cycle of the machine. The P3903 3-Way Valve can also be used with either the Electric Timer or the Solenoid Valves.

### Mechanical Actuator Only



#### P3091 Mechanical Actuator

only is used with the Common MiniSpray-II when on a bracket. The MiniSpray-II when on a Bracket or with a Reservoir will come with an air valve as standard equipment and will use either a Mechanical Actuator, Solenoids or Electric Timer.

### Electric Timer & Valve



#### Electric Timer P3055 MicroSpray-II Timer P3056 MiniSpray-II Timer

The Electric Timer is best used on constant feeds like Roll Formers or Slitting applications. The Timers activate the Ejectors from once a minute to 120 cycles per minute. The adjustments are in intervals of .25 seconds to one minute for on and off time per cycle.

### Solenoid Valve

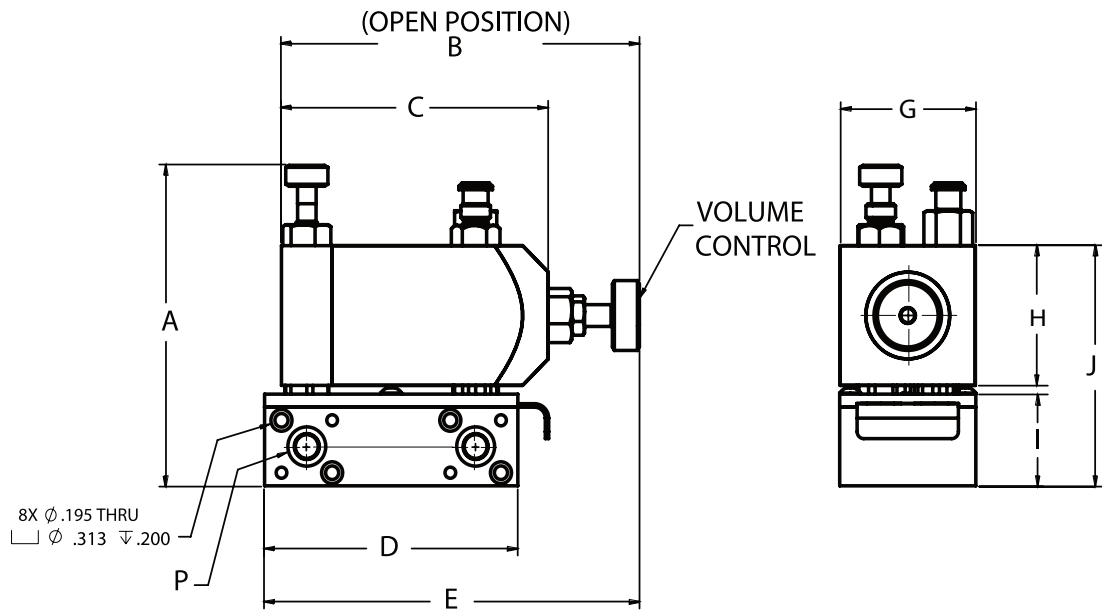


#### P3061 24 V Solenoid and P3062 110 V Solenoid

The Solenoid Valve is actuated when it receives an electrical signal from a controller. Connect the Solenoid to an electric switch that can energize it when necessary.

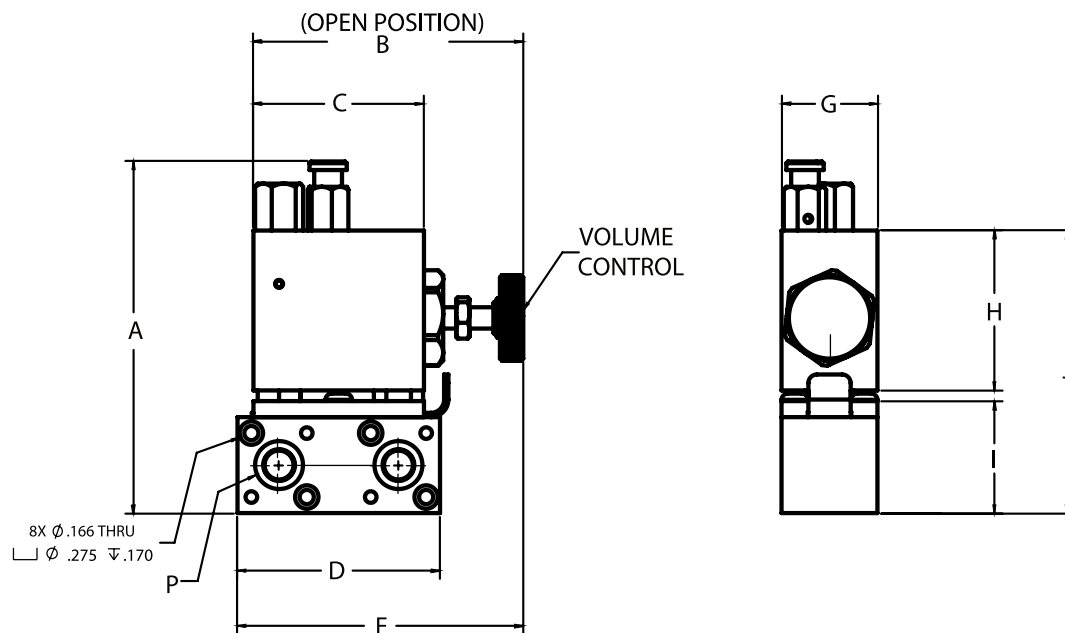
# PresSpray Plus Ejector Dimensions

## P4001 and P4002 MiniSpray



Ejector	A	B	C	D	E	G	H	I	J	P
P4001 and P4002	4.122	3.050	2.000	2.375	3.238	N/A	1.125	1.875	1.125	1/8"-27NPTF (X4)

## P1000 MicroSpray

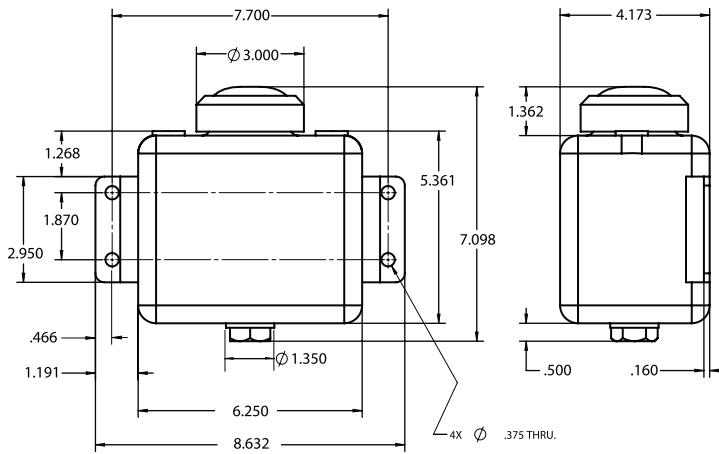
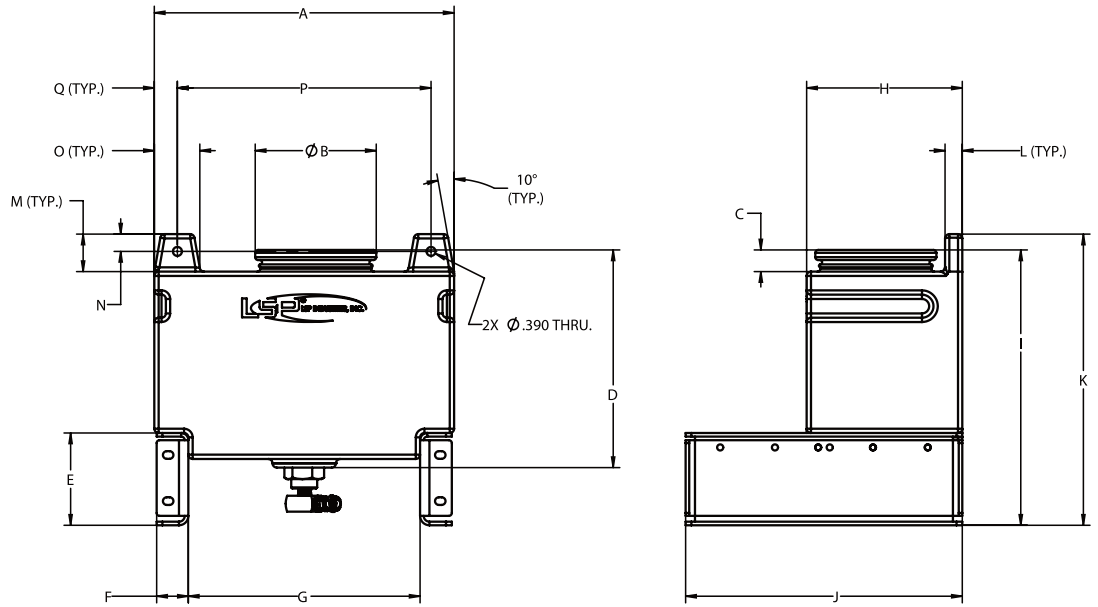


Ejector	A	B	C	D	E	G	H	I	J	P
P1000	4.122	3.050	2.000	2.375	3.238	1.125	1.875	1.313	3.313	1/8"-27NPTF (X4)

# Reservoir Dimensions

## Reservoirs:

- P7102 2-1/2 Gallon**
- P7105 5 Gallon**
- P7110 10 Gallon**



**P7100 2 Quart Reservoir**

Model	Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
P7002	2.5 GAL.	13.000	5.250	0.939	9.439	4.000	1.375	10.050	6.750	11.939	12.000	12.625	0.750	1.625	0.750	1.971	11.000	1.000
P7005	5 GAL.	18.000	5.250	1.000	11.875	4.000	1.375	15.050	7.750	14.375	12.000	15.000	0.750	1.625	0.750	1.963	16.000	1.000
P7010	10 GAL.	18.000	5.250	1.000	20.750	4.000	1.375	15.050	7.750	23.250	12.000	N/A	0/750	N/A	N/A	N/A	N/A	N/A

## Specifications

	MicroSpray-II	MiniSpray-II
Volume	0.000 -0.010 cu. in.	0.000 -0.040 cu. in.
Viscosity	300 SUS *	500 SUS *
Viscosity for a drop	500 SUS	950 SUS
Actuations per minute	750 SPM	500 SPM

\* Recommended upper limit for water soluble oil, synthetic lubricant, vanish oils and petroleum lubricants.

## How to Calculate Volume Usage

This formula is for actuations operating continuously for one hour with the MicroSpray-II.

.010 cu. in. for one ejector X 60 per minute = .06 cu. in. X 5 Ejectors = 3.00 cu. in. per one minute  
 3.00 X 60 minutes = 180 cu. in. per 1 hour for 5 Ejectors @ 60 cycles per minute.

231cu. in. per a gallon

Maximum Volume per ejector is .010 cu. in. per actuation.

# Accessories



## P931 PortaCart

Mount the MicroSpray-II or the MiniSpray-II on Reservoirs and carry on the PortaCart



- P9034 Magnetic Level & Cable for 1-1/2 & 2-1/2 Gal. Res.
- P9035 Magnetic Level & Cable for 5 Gal. Res.
- P9036 Magnetic Level & Cable for 10 Gal. Res. Can attach directly to the LSP Electronic Controller.



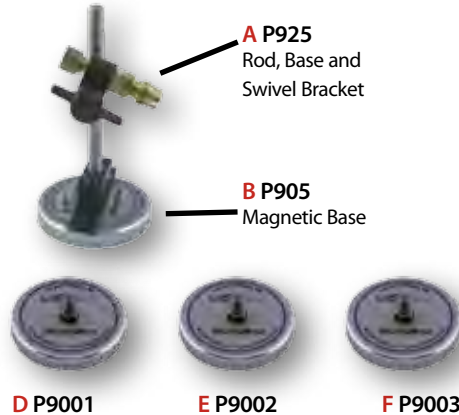
- P9030 Level Control, 1-2/2 & 2-1/2 Gallon
- P9031 Level Control, 5 Gallon
- P9032 Level Control 10 Gallon  
Activates a light when the lubricant level is low. Can also be tied in to shut off a machine.



## P932

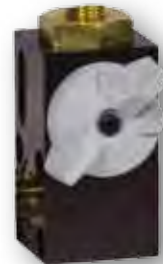
### 2 Port Manifold

For use on the MiniSpray to convert it from a single Nozzle unit to a two Nozzle system. One Nozzle can be shut off while one Nozzle will always remain open.



- A** P925 Rod, Base and Swivel Bracket
- B** P905 Magnetic Base
- D** P9001
- E** P9002
- F** P9003

- A** P925 Rod, Magnetic Base & Swivel Bracket.
- B** P905 MagnaBase, Holds the Rod & Swivel Bracket and also used with the P901 Mechanical Actuator without Valve and the P3092 with the LSP Valve.
- D** P9001 MagnaBase to support 2 Quart Reservoir
- E** P9002 MagnaBase to support MicroSpray-II
- F** P9003 MagnaBase to support MiniSpray-II



## P9024

### ExpandaValve

ExpandaValve can be used as an On/Off valve for Ejectors.  
*Reference the ExpandaFold catalog for applications to create unique manifolds.*



## Manifold Plugs

### P9012 MicroSpray, P9013 MiniSpray

When an Ejector is removed from a Manifold Plugs can be inserted in the Out Ports to seal the system off as service is being done on the Ejector. All other Ejectors in the system are still operational as long as the plugs are in use.



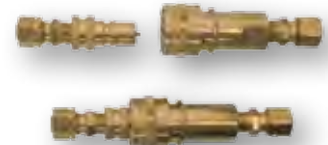
## V911

### Union 1/8 NPTM X 1/8 NPTM

For easy connecting and disconnecting various components.

## P918

## P919



## Quick Disconnect

Attach Nozzles to the Ejector. Allows leaving Nozzles with dies when stamping is done. New die with Nozzles inserted can be attached with the Quick Disconnect.



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