No better airless spray design for die lubrication!

PresSpray I
The LSP PresSpray Ejector

The LSP PresSpray automatically dispenses a predetermined amount of lubrication in an instantaneous airless spray in unison with the cycle of the press. In an airless spray, the droplets are large and heavy and will not fog the work area. The PresSpray Ejector draws lubricant into the system and then forcefully ejects it out of the Spray Nozzles in a fine airless spray. Set the desired volume of lubricant needed and that volume will be dispensed on each cycle of the press.

Dies lubricated automatically will run longer, cooler and faster. The operator does not have to worry about die lubrication and can devote his full attention to running the press. The features diagrammed here are standard on all five of our ejectors.

**MicroSpray**

**P010-A**

This unit dispenses small quantities of lubricants to a single point. It offers the ultimate in low volume control. Because it dispenses only .010 cu. in. at its maximum, the total range is limited, but finely controlled. The MicroSpray gives an ultra fine spray or a single drop upon command. Includes P232, 95° nozzle and copper or heavy wall nylon tubing for the nozzle.

**MiniSpray**

**P040-A**

This small and compact unit is able to utilize up to three nozzles at one time depending on the viscosity of the lubricant. When using multiple nozzles, it is capable of lubricating the top and bottom of the stock. Perfect for one or two nozzle applications. Includes P102, 2 Port Manifold.

**MytiSpray**

**P125-B**

For the medium size jobs that require heavier lubricants or larger volumes of lubricants. Capable of lubricating the stock before it enters the die, with enough in reserve to lubricate the trouble spots in a die. This unit can spray up to six nozzles. The volume can be reduced to .025 cu. in. without affecting the spray pattern. Includes P104, 4 Port Manifold.

**MacroSpray**

**P135-B**

Ideal for large jobs. It can handle up to 15 nozzles when using water soluble lubricants. Lubricate all stations on a progressive die with just one pump. Position nozzles as far as 8 feet from the MacroSpray for long progressive dies. Includes P104, 4 Port Manifold.

**MegaSpray**

**P175-B**

An extra large unit for the heavier viscosity lubricants or for larger parts where a greater number of nozzles are needed to accomplish total lubrication. Ideal for automotive plants, appliance plants and other manufacturers of large stampings. Large in volume, high in performance. Includes P104, 4 Port Manifold.

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### Ejector Specification Chart

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Volume per Cycle (cu. in.)</th>
<th>Strokes per Minute</th>
<th>Air Consumption per Cycle @80 PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>P010-A</td>
<td>0.000-0.010</td>
<td>500</td>
<td>0.0075 SCFM</td>
</tr>
<tr>
<td>P040-A</td>
<td>0.000-0.040</td>
<td>450</td>
<td>0.00341 SCFM</td>
</tr>
<tr>
<td>P125-B</td>
<td>0.025-0.125</td>
<td>325</td>
<td>0.01310 SCFM</td>
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<tr>
<td>P135-B</td>
<td>0.075-0.375</td>
<td>250</td>
<td>0.04714 SCFM</td>
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<tr>
<td>P175-B</td>
<td>0.150-0.750</td>
<td>150</td>
<td>0.10528 SCFM</td>
</tr>
</tbody>
</table>

### Parts Included with Ejector

Each Ejector, except for the MicroSpray, includes a two or four port Manifold with fittings to either attach to the Ejector or to mount remote from the Ejector. Also included a five feet of 3/8 tubing for installing the Manifold remote from the Ejector.

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### Oil Viscosities-Number of Nozzles

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Water Soluble</th>
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<tbody>
<tr>
<td></td>
<td>100 SSU</td>
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<tr>
<td>P010-A</td>
<td>5</td>
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<td>P040-A</td>
<td>4</td>
</tr>
<tr>
<td>P125-B</td>
<td>10</td>
</tr>
<tr>
<td>P135-B</td>
<td>20</td>
</tr>
<tr>
<td>P175-B</td>
<td>30</td>
</tr>
</tbody>
</table>

---

Seals

Chemical resistant Viton O-rings are used throughout the Ejector. Teflon coated Back-Up Rings are used at all high pressure areas to increase the life of the O-rings.

---

**Piston & Ram Assembly**

Proven design and use of all the same high pressure to achieve a fine airless spray to evenly coat the work area. To achieve a finer spray to evenly coat the work area. The ram is made of ground and polished stainless steel for extended life.

**Air Cylinder**

Forced piston and polished inside tubing. Nickel plated for wear resistance and corrosion protection.

**Mounting Bracket**

Velcro bands secure the mounting bracket in location on the end plate castings to accept mounting screws. Mounts to any surface for permanent installations. The Microspray mounting bracket can be attached to a Baseplate for portability.

**Unit Valve**

An air valve, specifically sized for each PresSpray model ensures an unrestricted air supply. Located directly behind the piston and ram to deliver air to the PresSpray in the fastest most efficient method possible. A quick exhaust allows for fast recycling.

**Velocity Control**

Fine tunes the force of the lubricant being sprayed. Eliminates overspray and bounce of very light lubricants. (Not available on the MicroSpray).

**Spring Return Piston and Ram**

A spring within the piston replaces costly air return. Saves air with lightning fast performance.

**Gland Fitting**

Encapsulates O-rings, separating the lubricant from the air in a brass gland.

**Bleeder Valve**

Allows fast and easy priming of the Ejector when necessary. The Bleeder Valve Port and Outlet Port are interchangeable if desired.

**Inlet Check Valve**

Allows immediate recharging of the unit between ejections. Check with ample passage assures a full shot each cycle.
This is How It Works

The PresSpray Ejector is the HEART of the system. It dispenses lubricant out of the Nozzles with sufficient force to break the lubricant into a fine airless Spray pattern.

Determining what options are needed depends on the number of nozzles needed, viscosity of the lubricant, method of actuating it and where the Reservoir is to be located.

**Actuators:**
The Actuators when tripped send a signal to the PresSpray to dispense fluid. Reference Page 10 and 11 for complete information on all of the Actuator.

**Air Timer**  
**Mechanical Actuator**  
**LSP Controller**

**Bracketed Modules**
Includes a PresSpray, FRO and a standard Manifold. Module is installed in a strategic location and supplied with lubricant from a gravity feed reservoir or a diaphragm pump.

**Filter, Regulator and oiler**
Regulates the air pressure coming from the shop air and adds lubricating oil to protect O-rings and other moving parts.

**Module/Reservoir**
PresSpray Module is mounted on a Reservoir. Preassembled so that just the Nozzles and the Actuator have to be installed.

**Manifolds**
Manifolds are standard with all units except the MicroSpray. Manifolds can be screwed into the ejector or mounted on the press to offer a clean efficient installation. Fittings are supplied to mount it either way. Manifold as shown below will screw into the fluid outlet.

**Ejector**
 Takes lubricant in and then dispenses it in an instantaneous airless spray to the work area.

**Diaphragm Pump**
Can supply lubricant to the PresSpray from a remote reservoir. Pump is only operational when the PresSpray is cycling. Convenient for larger units.

**Nozzle Assemblies**
Nozzles are available in different angles and are mounted on a variety of different holders. Nozzles can be attached to manifolds or assembled onto the LSP ExpandaFold Distribution System. Reference the ExpandaFold Catalog for technical information on the ExpandaFold and the ExpandaValve.

**Manifolds**
Manifold is mounted remote on the press, offering a clean efficient installation. Just one line from the ejector to the manifold. Multiple fluid lines are dispersed from the manifold to the nozzle.

**The ExpandaFold**
Create a manifold from off the self parts. Each nozzle has its own On/Off ExpandaValve. Choose distance between each nozzle and select pipe to tie ExpandaValves together. This system can be mounted to the ram of the press for a clean efficient installation. Reference the ExpandaFold brochure for full information

**FlexTube with a Special Adaptor**
Allows the FlexTube to be screwed directly into the ExpandaValve.

**A Rigid Assembly with Flexibility**
A nozzle attached to an eleven inch brass tube with a Swivel Bracket that rotates 360°. The swivel bracket allows the assembly to be permanently mounted to a surface or a magnet.

**Basic Nozzle and a Swivel Bracket**
A compact Basic Nozzle for getting into tight places. Can be mounted on a P925 Swivel Bracket for ease of positioning and can be used with a LSP Magnet for portability or permanently mounted.

**MagnaTube**
A Flexible Tube with a Nozzle attached to a Magnetic Base for flexibility.

**FlexTube Stud Mount**
A Flexible Tube with a Nozzle attached to a 1/8 NPTM stud to permanently mount to a surface.

**FlexTube with a Special Adaptor**
A Flexible Tube with a Nozzle attached to a Magnetic Base for flexibility.

**Basic Nozzle and a Swivel Bracket**
A compact Basic Nozzle for getting into tight places. Can be mounted on a P925 Swivel Bracket for ease of positioning and can be used with a LSP Magnet for portability or permanently mounted.

**Bracketed Modules**
Includes a PresSpray, FRO and a standard Manifold. Module is installed in a strategic location and supplied with lubricant from a gravity feed reservoir or a diaphragm pump.
Bracketed Module
A Bracketed Module consists of a PresSpray Ejector and a group of components preassembled on a bracket in a single, compact module. For convenience, the PresSpray attaches to a Bracket that includes an Air Filter/Regulator/Oiler. A two or four port Manifold (the MicroSpray does not have a Manifold) is included with the Module. By installing the Manifolds down stream this greatly makes for a cleaner installation. The Bracketed Module takes most of the work out of installation. The user has only to decide how to interface this system with the Spray Nozzles, Reservoir or PowerPump and what type of Actuator to use.

All the PresSpray Ejectors, from the MicroSpray to the MacroSpray, are available as a Bracketed Module. The two photos show Bracketed Modules being supplied with lubricant from reservoirs and PowerPumps.

Bracketed Modules

Module No. | Ejector No. | Manifold Outlets
---|---|---
P700-A | P010-A | 1 Port
P710-A | P040-A | 2 Port
P720-B | P125-B | 4 Port
P730-B | P135-B | 4 Port

Bracketed Modules, with the exception of the P700-A, include Manifold and fittings to install either vertically or horizontal and 6’ of tubing for installing the Manifold remote.

PresSpray Reservoir Modules

Reservoir Modules consist of a Bracketed Module (as shown on page 6) pre-mounted on a Reservoir. The Reservoirs are either free standing or bolted directly to a press. The long chain polyethylene construction stands up to abusive environments. The Modules are available in 1-1/2 gallon, 4 gallon, 8 gallon and 15 gallon reservoirs.

A MicroSpray Module on a gallon and a half Reservoir. The MicroSpray lubricating a small press with a single nozzle. The unit is actuated from a LSP Electronic Controller. Since the application needs very little lubricant the controller is set to send a signal on every third cycle of the press.

Reservoir Modules

Model No. | Module No. | Manifold Gallons
---|---|---
P735-BC | P040-A | 4 Port 1-1/2
P728-BC | P125-B | 4 Port 8
P735-BC | P135-B | 4 Port 8
P775-BC | P175-B | 4 Port 15

Order necessary components separately
1) Type of Nozzles
2) Type of Actuator to complete the system.
3) P940 Tubing, from manifold to the nozzle

Bracketed Modules Mounted on Reservoirs
Systems are available with the Manifolds mounted on the Ejectors or left free for installing on the press or in the die area. Specify where the Manifold is to be located otherwise it is left unattached for remote installation.

P515 PowerPump
The PowerPump can be used with any size container from a five gallon pail to a 330 gallon tote. Place the inlet hose into the container and attach a hose between the PowerPump outlet and the PresSpray inlet. Turn on the air to the PowerPump and once the system is bled, the PowerPump is ready to supply lubricant upon command. Activate the PresSpray and the PowerPump will automatically replenish any lubricant that has been dispensed by the PresSpray, always keeping it fully charged.

P080A No Manifold
For small jobs. Comes with one nozzle and five feet of tubing.

P735-BC w/Attached Manifold
Manifold attached to the Ejector. *Specify either vertical or horizontal.

P735-BC w/Remote Manifold
Manifold supplied with 6 feet of tubing and fittings.
Creating Nozzle Distribution Systems

The PresSpray offers a variety of ways to locate nozzles in a press to offer maximum spray coverage of the die or stock while allowing for the cleanest installation possible. Locate where the nozzles are to be positioned to determine if the distribution manifold is to be mounted on the PresSpray or down stream on the press.

Manifold Attached to the PresSpray
Two port, four port or larger ExpandaFold manifold can be attached directly to the PresSpray and nozzle extended from there to the work area.

Manifold Remote from the PresSpray
A single manifold either two port, four port or a special ExpandaFold manifold can be attached remote from the PresSpray.

Multiple Remote Manifolds and In-Die Nozzle.
The different ways to layout a PresSpray system is only limited to the imagination. Two Manifolds and an In-Die nozzle complete this system. In-Die nozzle stays with the die for accurate lubrication and speed of setup.

ExpandaFold Manifold
An ExpandaFold with four outlets and four Basic Nozzles is attached remote from the PresSpray. A very clean installation if one wants to mount the nozzles direct to the ram of the press or the lower base of the die.

In Die Application

Nozzles for the PresSpray Systems

A vast variety of Nozzles and Nozzle Accessories are available to individualize every PresSpray application. Choose the Nozzle of choice and Accessories to fit your particular application.

P20X The Basic Nozzles
Available with compression fittings to attach to LSP Heavy Wall Tubing or with 1/8NPTM to screw into the P926 nozzle extender. Short lengths make them ideal to fit in close areas. Can be used with the P925 Swivel Bracket for fast positioning of the spray.

P27X Nozzle Extender
A nozzle attached to an eleven inch brass tube with a Swivel Bracket that rotates 360o. The Swivel Bracket allows the assembly to be permanently mounted to a surface or magnet.

P925 Swivel Nozzle Bracket
Moves up and down on a 6" rod and rotates 360o for proper positioning of the nozzle.

P905 Magnetic Base
Accepts the P925 Swivel Bracket. It allows for easy placement, positioning or removal of the spray nozzle.

P25X with 1/8 NPTM
Used with the P926 Nozzle Extender or direct into ExpandaValve.

P24X In-Die Nozzle - 1/8 NPTM
Permanently inserted in a die. By having the tool properly positioned the setup time is reduced, production is increased and parts rejected is greatly reduced. The LSP Quick disconnect allows the tubing supplying the lubricant to be detached from the die to enable die to be removed from the press.

Make the Remote Manifold Portable
To facilitate the installation and portability of Remote Manifolds use the two magnets shown to the right to hold the Manifolds in place on metal surfaces. Simply screw the Manifolds into the Magnet Bracket and set in place.

P22X MagnaTube with Magnet
Consist of a FlexTube mounted on a powerful magnet. It can be moved out of the way for setups or maintenance problems then replaced as soon the machine is ready to go back into production.

P21X FlexTube with Stud
A spray nozzle attached to a flexible tube with mounting bracket the other end. The mounting bracket is a 1/8 NPTM that allows permanent installation in a die area.

P926X FlexTube Less the Stud with 1/8 NPTM
A spray nozzle attached to a flexible tube with a 1/8 NPTM at the other end that allows the FlexTube to be screwed directly into a two port, four port or ExpandaValve system.

P920 LSP High Pressure Tubing
The only non-metal tubing to use for fluid distribution to the nozzles. Other non-metal tubing can give poor spray patterns and after drip.

P904
P907

P940 LSP Quick disconnect
Allows the tubing supplying the lubricant to be detached from the die to enable die to be removed from the press.

Creating Nozzle Distribution Systems

The PresSpray offers a variety of ways to locate nozzles in a press to offer maximum spray coverage of the die or stock while allowing for the cleanest installation possible. Locate where the nozzles are to be positioned to determine if the distribution manifold is to be mounted on the PresSpray or down stream on the press.

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Two port, four port or larger ExpandaFold manifold can be attached directly to the PresSpray and nozzle extended from there to the work area.

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A single manifold either two port, four port or a special ExpandaFold manifold can be attached remote from the PresSpray.

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ExpandaFold Manifold
An ExpandaFold with four outlets and four Basic Nozzles is attached remote from the PresSpray. A very clean installation if one wants to mount the nozzles direct to the ram of the press or the lower base of the die.

In Die Application

Nozzles for the PresSpray Systems

A vast variety of Nozzles and Nozzle Accessories are available to individualize every PresSpray application. Choose the Nozzle of choice and Accessories to fit your particular application.

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P925 Swivel Nozzle Bracket
Moves up and down on a 6" rod and rotates 360o for proper positioning of the nozzle.

P905 Magnetic Base
Accepts the P925 Swivel Bracket. It allows for easy placement, positioning or removal of the spray nozzle.

P25X with 1/8 NPTM
Used with the P926 Nozzle Extender or direct into ExpandaValve.

P24X In-Die Nozzle - 1/8 NPTM
Permanently inserted in a die. By having the tool properly positioned the setup time is reduced, production is increased and parts rejected is greatly reduced. The LSP Quick disconnect allows the tubing supplying the lubricant to be detached from the die to enable die to be removed from the press.

Make the Remote Manifold Portable
To facilitate the installation and portability of Remote Manifolds use the two magnets shown to the right to hold the Manifolds in place on metal surfaces. Simply screw the Manifolds into the Magnet Bracket and set in place.

P22X MagnaTube with Magnet
Consist of a FlexTube mounted on a powerful magnet. It can be moved out of the way for setups or maintenance problems then replaced as soon the machine is ready to go back into production.

P21X FlexTube with Stud
A spray nozzle attached to a flexible tube with mounting bracket the other end. The mounting bracket is a 1/8 NPTM that allows permanent installation in a die area.

P926X FlexTube Less the Stud with 1/8 NPTM
A spray nozzle attached to a flexible tube with a 1/8 NPTM at the other end that allows the FlexTube to be screwed directly into a two port, four port or ExpandaValve system.

P920 LSP High Pressure Tubing
The only non-metal tubing to use for fluid distribution to the nozzles. Other non-metal tubing can give poor spray patterns and after drip.

P904
P907

P940 LSP Quick disconnect
Allows the tubing supplying the lubricant to be detached from the die to enable die to be removed from the press.
The LSP Industries Electronic Controller is specifically designed to control the operation of the PresSpray systems. The controller receives a signal from a proximity sensor that captures each cycle of the press and relays that information to the controller. Once the controller receives that information it takes control of the PresSpray and dictates when and how much lubricant it is to dispense lubricant to the die area.

Three basic Actuators are available for cycling the PresSpray Ejector. The basic Actuators consist of a Mechanical Actuator that triggers when a moving part of the press moves a whisker. Another Actuator is a Solenoid Valve which receives a signal from a limit switch and then activates the PresSpray. A third Actuator is the LSP Air Timer that works on a predetermined time cycle unrelated to the cycle of the press.

**Spray Sequence Using the P908 Timer**

Timer Application
An Application at a high cycle rate with very short stock progressions usually requires very little lubricant at each cycle. Instead of controlling the operation with a standard Actuator, (ejecting a tiny amount of lubricant at every stroke of the machine) A Timer/Actuator can be used. Larger ejections are applied to lengths of the stock in timed intervals that coincide with the progression of the stock into the machine.

<table>
<thead>
<tr>
<th>Actuator</th>
<th>One Input, one Output</th>
<th>One Input, two Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>E3000</td>
<td>E3002</td>
<td></td>
</tr>
</tbody>
</table>

**FEATURES**
- **Touch Screen:** Visually set the parameters of the program.
- **Lockout:** Prevents unauthorized from changing the program.
- **Time Delay:** Determines how long a delay will transpire before activating the PresSpray after a signal is received.
- **Pulsator:** Gives the PresSpray multiple actuations per cycle of the press.
- **Counter:** Allows the PresSpray to activate on any cycle of the press 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 PresSpray is ready for operation. Memory can save up to 99 jobs.

Ejecting a larger quantity less often is more efficient and easier to control. The Spray Nozzles are easy to adjust for proper coverage.
Special Installations

LSP Industries, Inc goes beyond its standard line. When called upon LSP Industries has modified standard products to meet customers requirements. Here we show but a few of the modifications made for our customers.

Imagine the Different Installations

The PresSpray Ejector can handle a full range of jobs based on its options setup. LSP Industries, Inc. manufactures a variety of actuators. The P901 Mechanical Actuator is a proven actuator that has been a standard for many years. Electronic actuators give smaller PresSprays the ability to do much larger jobs. They also direct larger PresSprays to actuate in the proper timing sequence, thus conserving lubricant.

Lubricant is supplied from a variety of sources, ranging in size from a one quart container to an eight gallon reservoir. For larger jobs, a PowerPump distributes lubricant from a centrally located container. Here are a few of the systems designed with off the shelf components. A wide variety of nozzles gives users the ability to permanently mount nozzles for quick die change or magnetically mount nozzles for flexibility with die changeover. With all of these options every user can customize a system to fit their particular application.

P175-B MacroSpray
In this example the MacroSpray is being supplied with lubricant from a PowerPump mounted on a 55 gallon drum. The nozzles are positioned along an ExpandaFold Manifold attached to the outlet. An E3000 Electronic Controller is activating the PresSpray to give it multiple actuation on each cycle of the press. This is a perfect system for spraying wide stock as it passes by on its way to the die.

P010-A MicroSpray
A one quart reservoir can last a day or longer when using the MicroSpray. Mount the MicroSpray, Reservoir and Nozzle Assembly on Magnetic bases and it becomes a truly portable unit. Move it to where you want in just seconds. The Micro Spray is being actuated with the P901 Mechanical Actuator on each stroke of the press.

P125-B MytiSpray
A medium size unit capable of supplying up to six nozzles with water soluble and light to medium viscosity lubricants. Here is the P125-A with a five gallon Reservoir, Manifold, multiple Nozzles and a P912 electric Solenoid Valve. Aim some nozzles at stock going into the die and then place some of the nozzles in the die area where additional lubrication is needed.

LSP Industries, Inc goes beyond its standard line. When called upon LSP Industries has modified standard products to meet customers requirements. Here we show but a few of the modifications made for our customers.

Customize a PresSpray System

P175-B MacroSpray
In this example the MacroSpray is being supplied with lubricant from a PowerPump mounted on a 55 gallon drum. The nozzles are positioned along a ExpandaFold Manifold attached to the outlet. An E3000 Electronic Controller is activating the PresSpray to give it multiple actuation on each cycle of the press. This is a perfect system for spraying wide stock as it passes by on its way to the die.
### Bracketed Modular Dimensions

<table>
<thead>
<tr>
<th>Modular</th>
<th>PrecSpray</th>
<th>Manifold</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>P700-A</td>
<td>P010-A</td>
<td>P312-C</td>
<td>3</td>
<td>1</td>
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<td>P701-A</td>
<td>P040-A</td>
<td>P308-B</td>
<td>3</td>
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<td>1</td>
<td>3</td>
<td>1</td>
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<tr>
<td>P720-B</td>
<td>P125-B</td>
<td>P306-B</td>
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<td>P135-B</td>
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<td>2</td>
<td>1</td>
<td>3</td>
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<tr>
<td>P750-B</td>
<td>P175-B</td>
<td>P306-B</td>
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<td>1</td>
<td>2</td>
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### Modular PresSpray Manifold Dimensions

<table>
<thead>
<tr>
<th>Model</th>
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<th>Gallons</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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<tbody>
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<td>P010-A</td>
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<td>4.75</td>
<td>1/4 NPT</td>
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<td>P040-A</td>
<td>2 Port</td>
<td>7.50</td>
<td>10.00</td>
<td>6.50</td>
<td>8.50</td>
<td>1/4 NPT</td>
<td>3.10</td>
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<td>P720-B</td>
<td>P125-B</td>
<td>4 Port</td>
<td>7.50</td>
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<td>6.50</td>
<td>8.50</td>
<td>1/4 NPT</td>
<td>4.10</td>
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<tr>
<td>P730-B</td>
<td>P135-B</td>
<td>4 Port</td>
<td>8.50</td>
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<td>7.50</td>
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<td>3/8 NPT</td>
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<td>P175-B</td>
<td>4 Port</td>
<td>13.00</td>
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<td>11.75</td>
<td>12.50</td>
<td>1/2 NPT</td>
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</table>

### Reservoir Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Gallons</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>P312-C</td>
<td>1-1/2</td>
<td>12.00</td>
<td>8.00</td>
<td>6.00</td>
<td>10.50</td>
<td>4.125</td>
<td>2.875</td>
</tr>
<tr>
<td>P315-C</td>
<td>5.00</td>
<td>17.50</td>
<td>14.00</td>
<td>7.50</td>
<td>11.35</td>
<td>3/8 NPT</td>
<td>5.10</td>
</tr>
</tbody>
</table>

### Reservoir Modular Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>PrecSpray</th>
<th>Gallons</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>P125-B</td>
<td>P040-A</td>
<td>4</td>
<td>14.00</td>
<td>10.00</td>
<td>11.00</td>
<td>4.375</td>
<td>12.00</td>
<td>4.50</td>
</tr>
<tr>
<td>P128-B</td>
<td>P125-B</td>
<td>8</td>
<td>18.00</td>
<td>10.00</td>
<td>14.00</td>
<td>4.875</td>
<td>16.00</td>
<td>5.00</td>
</tr>
<tr>
<td>P140-B</td>
<td>P125-B</td>
<td>8</td>
<td>18.00</td>
<td>10.00</td>
<td>14.00</td>
<td>4.875</td>
<td>16.00</td>
<td>5.00</td>
</tr>
<tr>
<td>P140-B</td>
<td>P135-B</td>
<td>8</td>
<td>18.00</td>
<td>10.00</td>
<td>14.00</td>
<td>4.875</td>
<td>16.00</td>
<td>5.00</td>
</tr>
<tr>
<td>P140-B</td>
<td>P175-B</td>
<td>15</td>
<td>20.00</td>
<td>22.50</td>
<td>11.50</td>
<td>4.375</td>
<td>18.75</td>
<td>11.50</td>
</tr>
</tbody>
</table>

### PresSpray Ejector Dimensions

- **Model Manifold**: P125-B, P135-B and P175-B
- **Gallons**: 1-1/2, 5, 14.00, 16.00, 11.50
- **Volume Control**: 4.375, 12.00, 4.875, 16.00
- **Lubricant Inlet**: 1/8 NPT, 3/8 NPT, 1/2 NPT
- **Exhaust Port**: 1/8 NPT, 1/4 NPT
- **Actuator Port**: 1/8 NPT, 1/4 NPT
- **Velocity Control**: 2.625, 3.750, 5.125
- **Controller Dimensions**: 6.931, 6.224, 4.454, 7.500, 6.750, 5.000, 5.213, 1.50, 1.00
- **All measurements are in inches**

### PresSpray Nozzles

- **Model**: Basic Nozzles, Basic Nozzles-NPT, MagnaTube, MicroSpray Nozzles
- **Inlet**: 1/4 Tube, 1/8 NPT, 3/16 Tube
- **Velocity Control**: 2.375

### Controller Dimensions

- **Model**: All
- **Dimensions**: 6.931, 6.224, 4.454, 7.500, 6.750, 5.000, 5.213, 1.50, 1.00

### Velodyne Air Compressors

- **Model**: E3000, E3002 and E3015
- **Dimensions**: All
- **All measurements are in inches**

### Unit Valve Back View

- **Model**: UniValve
- **Port**: 1/8 NPT, 1/4 NPT, 1/2 NPT

### UniValve Back View

- **Model**: UniValve
- **Port**: 1/8 NPT, 1/4 NPT, 1/2 NPT

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**Specifications**

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**Controller Dimensions**

- **Model**: All
- **Dimensions**: 6.931, 6.224, 4.454, 7.500, 6.750, 5.000, 5.213, 1.50, 1.00
- **All measurements are in inches**

**Reservoir Dimensions**

- **Model**: P312-C, P315-C
- **Gallons**: 1-1/2, 5
- **Volume Control**: 12.00, 17.50
- **Lubricant Inlet**: 8.50, 14.00
- **Exhaust Port**: 6.00, 7.50
- **Bleeder Valve**: 6.125, 6.225

**Reservoir Modular Dimensions**

- **Model**: P125-B, P135-B and P175-B
- **Gallons**: 1-1/2, 5, 14.00, 16.00
- **Volume Control**: 4.375, 12.00, 4.875, 16.00
- **Lubricant Inlet**: 1/8 NPT, 3/8 NPT, 1/2 NPT
- **Exhaust Port**: 1/8 NPT, 1/4 NPT
- **Actuator Port**: 1/8 NPT, 1/4 NPT
- **Velocity Control**: 2.625, 3.750, 5.125

**Nozzle Dimensions**

- **Model**: Basic Nozzles, Basic Nozzles-NPT, MagnaTube, MicroSpray Nozzles
- **Inlet**: 1/4 Tube, 1/8 NPT, 3/16 Tube
- **Velocity Control**: 2.375
P312-C 1-1/2 gallon Reservoir
P315-C 5 gallon Reservoir
Reservoirs include four feet of Outlet Tubing to connect to PresSpray Ejectors. A sight gage provides instant indication of fluid level and a lubricant filter prevents contaminants from entering the system.

P-301 1 quart Reservoir for MicroSpray
P-305 1 quart Reservoir with Magnetic Base
Includes four feet of outlet tubing to connect to MicroSpray Units.

ExpandaValves
ExpandaValves tied together with tie rods create a compact manifold. Reference the ExpandaFold catalog for applications to create unique manifolds.

Quick Disconnect
Quick Disconnects attach nozzles to the PresSpray manifolds. Allows leaving nozzles with dies when stamping is done. New die with nozzles attached can be plugged into the manifold for a fast startup.

FC7310 Diaphragm Pump
Supplies Fluid to PresSpray units under 40 - 60 PSI. One pump is capable of supplying lubricant to multiple PresSprays.

100 Series Level Control
Activates a light when the lubricant level is low. Can also be tied in to shut off a machine.

Level Controls

<table>
<thead>
<tr>
<th>Reservoir Size (Gal.)</th>
<th>100 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/2</td>
<td>E150</td>
</tr>
<tr>
<td>5</td>
<td>E152</td>
</tr>
<tr>
<td>4</td>
<td>E155</td>
</tr>
<tr>
<td>8</td>
<td>E158</td>
</tr>
<tr>
<td>15</td>
<td>E165</td>
</tr>
</tbody>
</table>

Fluid Outlet Tubing

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Tube Size (OD)</th>
<th>Fluid tubing</th>
</tr>
</thead>
<tbody>
<tr>
<td>P940</td>
<td>1/4”</td>
<td>Nylon (for all Ejectors except MicroSpray)</td>
</tr>
<tr>
<td>P943</td>
<td>3/16”</td>
<td>Nylon (MicroSpray Only)</td>
</tr>
<tr>
<td>P948</td>
<td>1/4”</td>
<td>Copper (for all other Ejectors)</td>
</tr>
<tr>
<td>P949</td>
<td>3/16”</td>
<td>Copper (MicroSpray Only)</td>
</tr>
<tr>
<td>P950</td>
<td>3/8”</td>
<td>High Pressure Nylon</td>
</tr>
</tbody>
</table>

Airline Fittings

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Pipe Thread</th>
<th>Tube (OD) to Ejectors</th>
<th>For Air Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>P951</td>
<td>1/8”</td>
<td>1/4”</td>
<td>P010-A - P040-A</td>
</tr>
<tr>
<td>P953</td>
<td>1/4”</td>
<td>3/8”</td>
<td>P125-B</td>
</tr>
<tr>
<td>P955</td>
<td>3/8”</td>
<td>1/2”</td>
<td>P135-B</td>
</tr>
<tr>
<td>P960</td>
<td>1/2”</td>
<td>3/4”</td>
<td>P175-B</td>
</tr>
</tbody>
</table>

Air Line Tubing

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Tube Size (OD)</th>
<th>Air Tubing for</th>
</tr>
</thead>
<tbody>
<tr>
<td>P942</td>
<td>1/4”</td>
<td>P010-A - P040-A</td>
</tr>
<tr>
<td>P944</td>
<td>3/8”</td>
<td>P125-B</td>
</tr>
<tr>
<td>P946</td>
<td>1/2”</td>
<td>P135-B &amp; P175-B</td>
</tr>
<tr>
<td>M902</td>
<td>3/16”</td>
<td>For Actuator Tube</td>
</tr>
</tbody>
</table>