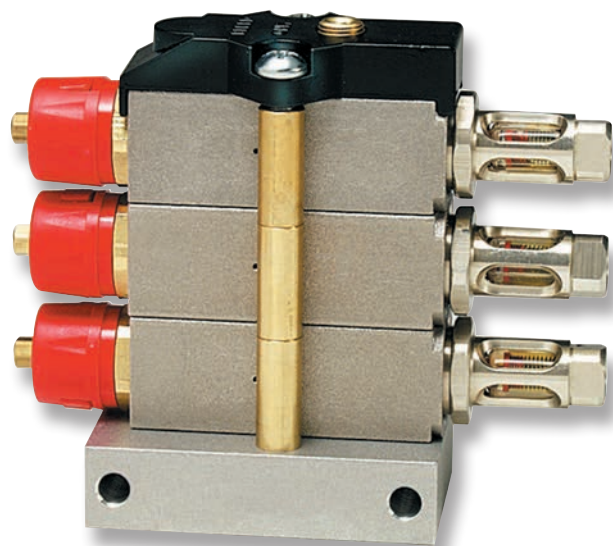
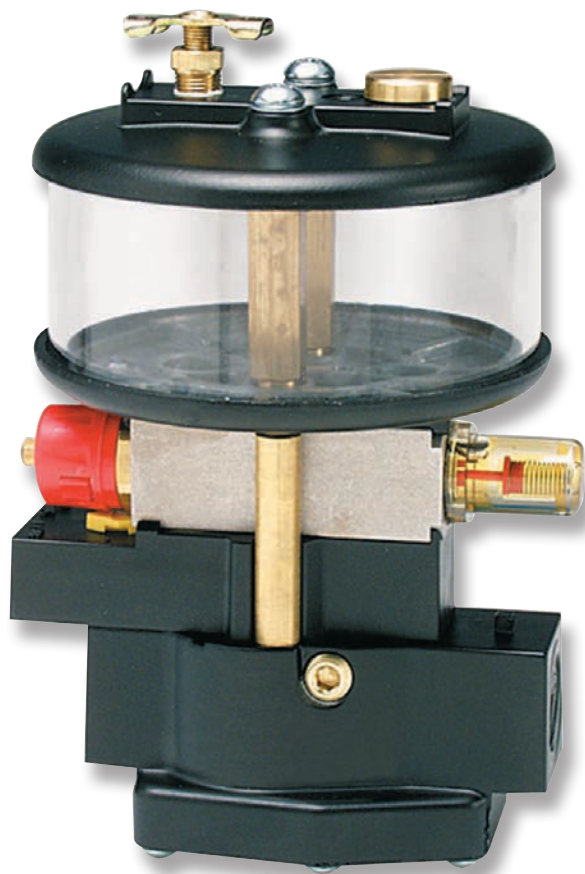




Parker-Watts Injection Lubricators

Catalog 0302-2

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



ENGINEERING YOUR SUCCESS.

Warning, Offer of Sale

 WARNING

FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from The Company, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application, and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by The Company and its subsidiaries at any time without notice.

Offer of Sale

The items described in this document are hereby offered for sale by The Company, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated on the separate page of this document entitled "Offer of Sale".

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L50 Obsolete

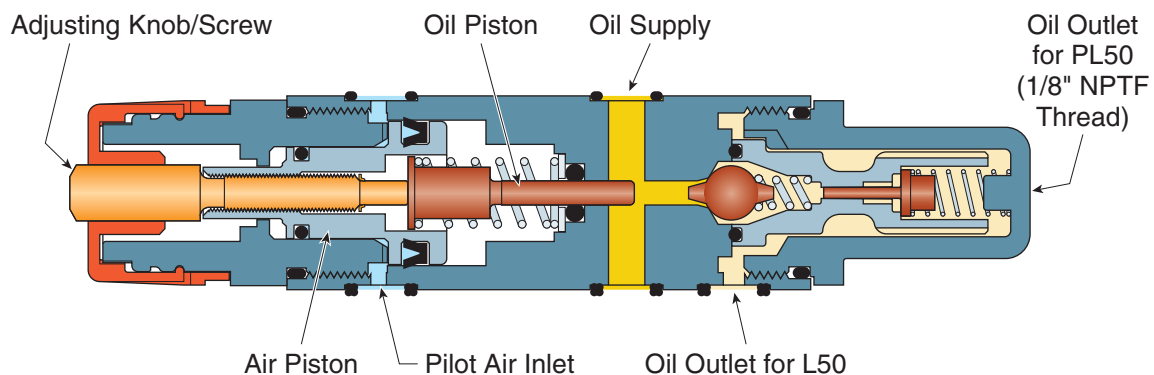
Why Injection Lubrication?

In many cases, conventional air line lubricators cannot supply adequate lubrication to tools, cylinders, etc. This is due to many factors such as long distances between tool and lubricator, intermittent flow, and complex piping. Parker/Watts Injection Lubricators are

designed to deliver precise amounts of oil directly to the point of lubrication as required. To ensure proper lubrication, our injection lubrication products and accessories are available to cover a wide range of applications.

How It Works...

Oil Injection Module

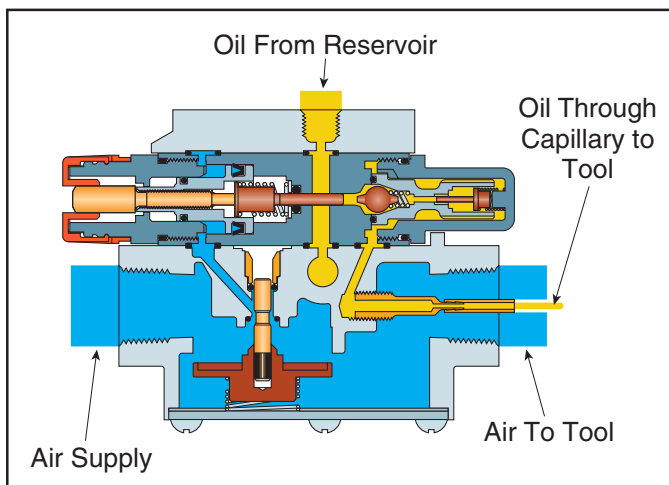


When the pneumatic circuit is energized:

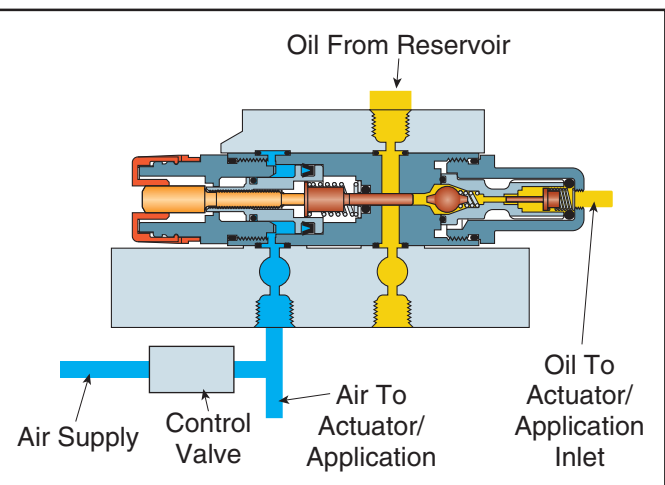
- 1.) Air pressure is routed to the air piston
- 2.) The air piston pushes on the oil piston
- 3.) The oil piston enters the oil cylinder bore and forces an exact amount of oil past the check valve to the outlet.
- 4.) The adjusting knob/screw is used to control the oil piston travel, effectively controlling the amount of oil delivered per actuation.

Oil Delivery

Single Point – L50



Single/Multi Point – PL50



Which Kind of Injection Lubricator Do I Need?

Selecting a Lubricator

Common Applications	Lubricator Type	Number of Lubrication Points	Air Consumption	Cycle Operating Time	Cycle Counter	Pulse Generator
Air Tool - Hand Held	L50	One	1 - 40 SCFM	1-30 Seconds	Recommended	No
	L50	One	20 - 40 SCFM	1-30 Seconds	Not Necessary	No
	L50	One	10 - 50 SCFM	30 Seconds +	No	Recommended
Air Motor - Fixed Mount	PL50	One or Many ¹	1 - 40 SCFM	1-30 Seconds	Recommended	No
	PL50	One or Many ¹	20 - 40 SCFM	1-30 Seconds	Not Necessary	No
	PL50	One or Many ¹	10 - 50 SCFM	30 Seconds +	No	Recommended
Cylinder/Actuator	PL50	One or Many ¹	1 - 40 SCFM	1-30 Seconds	Recommended	No
	PL50	One or Many ¹	20 - 40 SCFM	1-30 Seconds	Not Necessary	No
	PL50	One or Many ¹	10 - 50 SCFM	30 Seconds +	No	Recommended

Note: If multiple points are to be lubricated in unison, use a Single Lubricator - Multiple Modules

If multiple points are to be lubricated at different times, use Multiple Lubricators - Single or Multiple Modules

Options – Oil Delivery

Cycle Counter Option

For both L50 & PL50



Shown on
L50

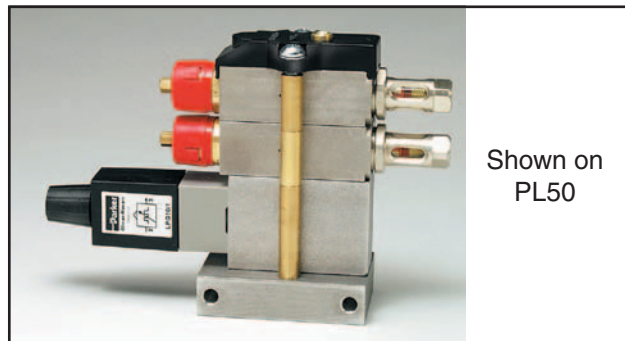
All pneumatic device designed for applications where the **minimum** amount of oil injected every cycle is **too much**. The cycle counter controls oil delivery by reducing oil injection from every air cycle, to every 5th or 10th air cycle. The cycle counter also has settings allowing the module to operate with every air cycle, or turn off to stop injector module operation.
(Maximum of 3 modules above counter on PL50)

Common Applications:

- Minimal oil demands
- Short cycle times
- Small tools
- Small cylinders

Pulse Generator Option

For both L50 & PL50



Shown on
PL50

All pneumatic device designed for applications where the **maximum** amount of oil injected every cycle is **not enough**. The pulse generator increases oil delivery by generating oil injector cycles, effectively increasing oil delivery for long tool/application cycles.
(Maximum of 10 modules above generator on PL50)

Common Applications:

- Long cycle times
(L50: air motor/tool)
- Consistent lubrication intervals
(PL50: chain/slide lubrication)

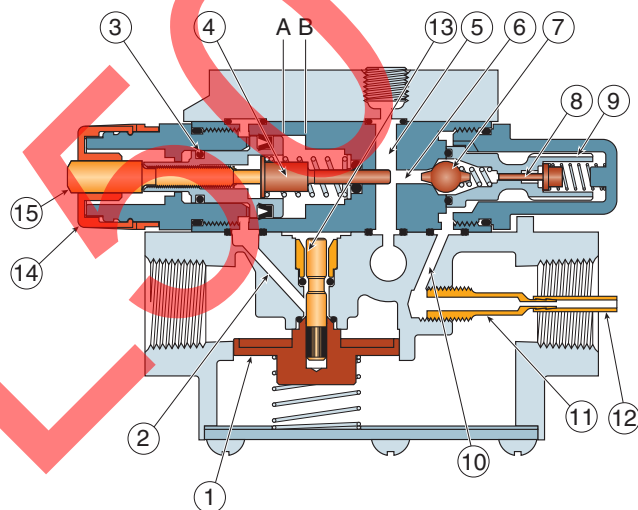
In-Line Injection Lubricators



L50 Single Point Injection Lubricator

The L50 Injection Lubricator is an in-line unit for use with tools and other pneumatic equipment which require consistent lubrication for longer life and maximum torque control. These units, available in 1/2" and 3/4" NPT, deliver an adjustable amount of oil through a capillary tube inside the main airline, directly to the tool. The amount of oil is adjustable up to .03cc. These units are designed for intermittent operation. Each time the tool is cycled, the unit injects the oil through the capillary tube to the lubrication point.

If the minimum amount of oil is injected per cycle is too much, than the cycle counter may be added. Or, conversely, if the amount of oil injected per cycle is not enough due to long cycle times, a pulse generator is available.

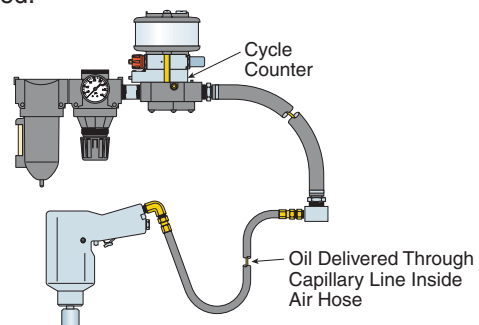


(Shown Without Cycle Counter)

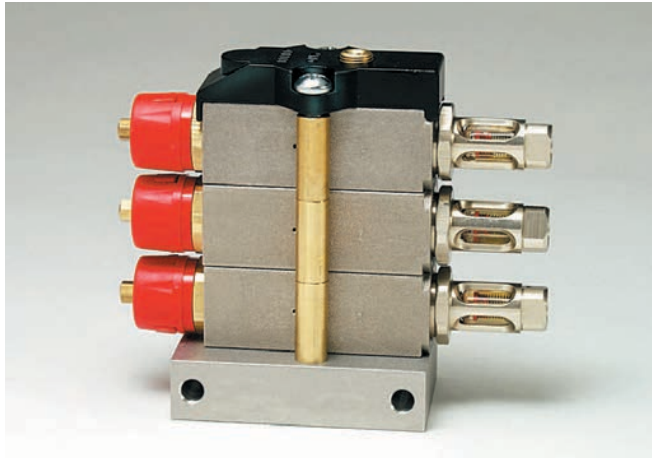
Operation:

Every time air flow starts, the sensor piston (1) is pushed down and allows a pilot pressure to flow through port (2) which drives module piston (3) and metering plunger (4) to the right. As plunger passes by oil supply port (5), it forces oil into metering tube (6) which in turn lifts check valve (7) and forces the same quantity of oil into inner sight glass, it drives flow indicator (8) to the right (a positive indication of oil flow) and then flows up through annular area between inner and outer sight glass (9). It next flows down through out port (10) and capillary adapter (11) to capillary (12) adapted for internal feed. When air flow stops, the sensor piston is returned by its spring to the initial no-flow position and the pilot pressure behind metering piston is exhausted to atmosphere through exhaust valve (13) and exhaust port. When air is exhausted metering piston spring returns piston and plunger to initial position. As can be seen by referring to Figure A, the amount of oil injected into the system is determined by the distance the metering plunger (4) travels into the metering tube (6). The distance it travels to the right (into the tube) determines the quantity of oil that is forced out through the check valve (7) and into the system. Since the module piston always travels a set distance from point (A) to (B), oil feed rate is adjusted by varying the protruded length of the metering plunger. The longer the plunger, the greater the travel and the greater the oil feed per cycle. An adjusting knob (14) is provided to adjust the plunger length.

To operate, the knob must first be pulled into the unlocked position. Then as the knob is turned in a clockwise direction the adjusting screw (15) moves to the right and extends the metering plunger (4). Since the module/air piston (3) remains stationary, the extended length of the metering plunger is increased. Therefore, the next time the module is fired (pressurized), the metering plunger will travel a longer distance into the metering tube (6) so more oil will be forced through check valve and into system. Conversely, counter-clockwise rotation of the adjustment knob (14) will shorten the extended length of the plunger and decrease the amount of oil feed.



Multi-Point Injection Lubricators



PL50 Multi-Point Injection Lubricator

The PL50 Injection Lubricator is designed to lubricate from one to ten points when sensing a single remote pilot signal. Like the L50, precise amounts of oil are injected directly at each of the lubrication points. Unlike the L50, a single air pilot signal fires the injector modules in the stack, and the oil is delivered by an external capillary tube directly to the air inlet of the point to be lubricated. The PL50 is ideal for multi-spindle air tools, automation equipment, air cylinders, and other components with intermittent operation which are difficult to lubricate.

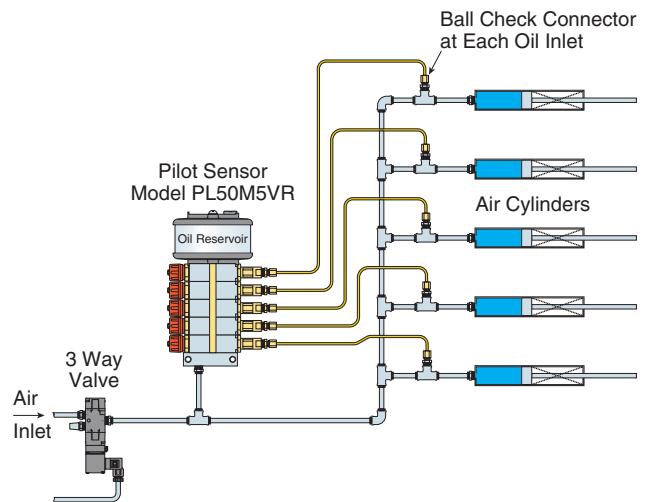
If the minimum amount of oil is injected per cycle is too much, than the cycle counter may be added. Or, conversely, if the amount of oil injected per cycle is not enough due to long cycle times, a pulse generator is available.

A note about lubricating multiple points:

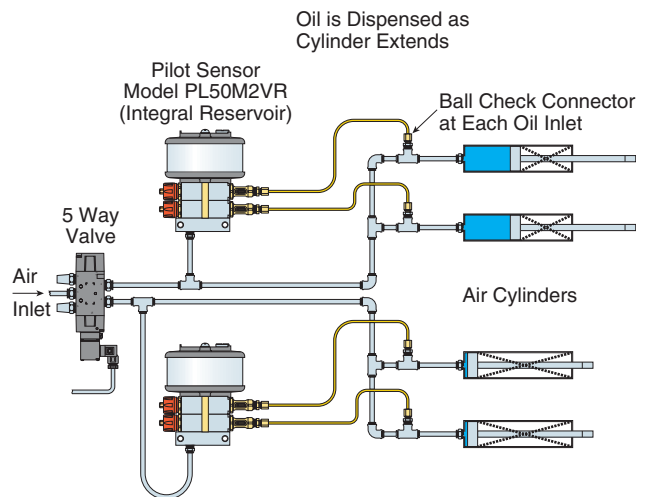
- *How many points do you need to lubricate?*
- *How many lubricators do you need?*

The PL50 Injection Lubricator will lubricate from 1 to 10 points all at one time. If your application has 6 cylinders to lubricate, and all 6 cylinders cycle at the same time, then the application requires one lubricator with 6 modules. If your application has 6 cylinders to lubricate, and 3 cylinders operate in one cycle, and the remaining 3 operate on a different cycle, then the application will require two 3 module lubricators.

Single Signal

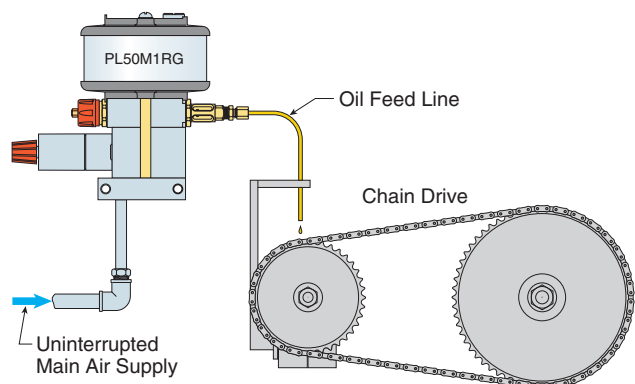


Two Separate Signals

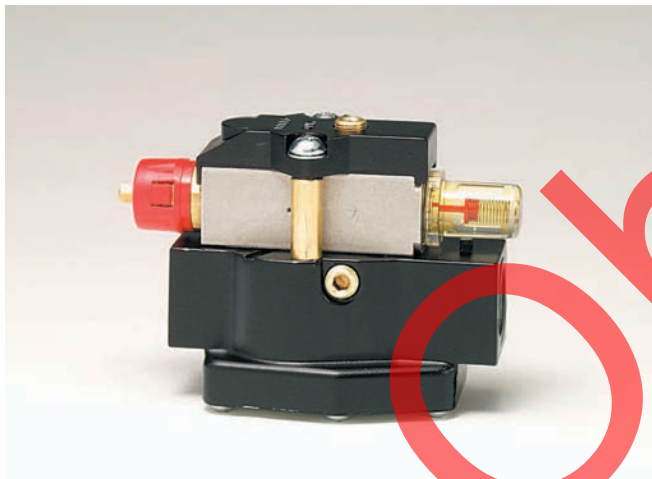


Direct Application Configuration

PL50 Application (with Pulse Generator)



L50 In-Line Injection Lubricators



Dependable Oil Delivery

L50 In-Line Injection Lubricators provide positive oil displacement lubrication ensuring the predetermined amount of oil is delivered to the tool each and every cycle regardless of pressure or flow.

For best results unit must be used with capillary line inside air outlet or with coaxial tool hoses (see accessories).

Features:

- **Air Flow Sensor**

Single point injection lubricators are installed between a filtered, regulated air source and an air supply hose going to a pneumatic tool. The body of the unit is designed to sense air flow when the tool is being used and signal the oil injector module to lubricate.

- **Oil Injector Module**

The oil injector module provides adjustable oil delivery in amounts up to 1 drop per cycle. Oil delivery adjustment is made by turning the adjusting knob increasing or decreasing the oil piston travel in the module. Unit comes standard with oil delivery indicator.

- **Cycle Counter - 4 Position - Optional**

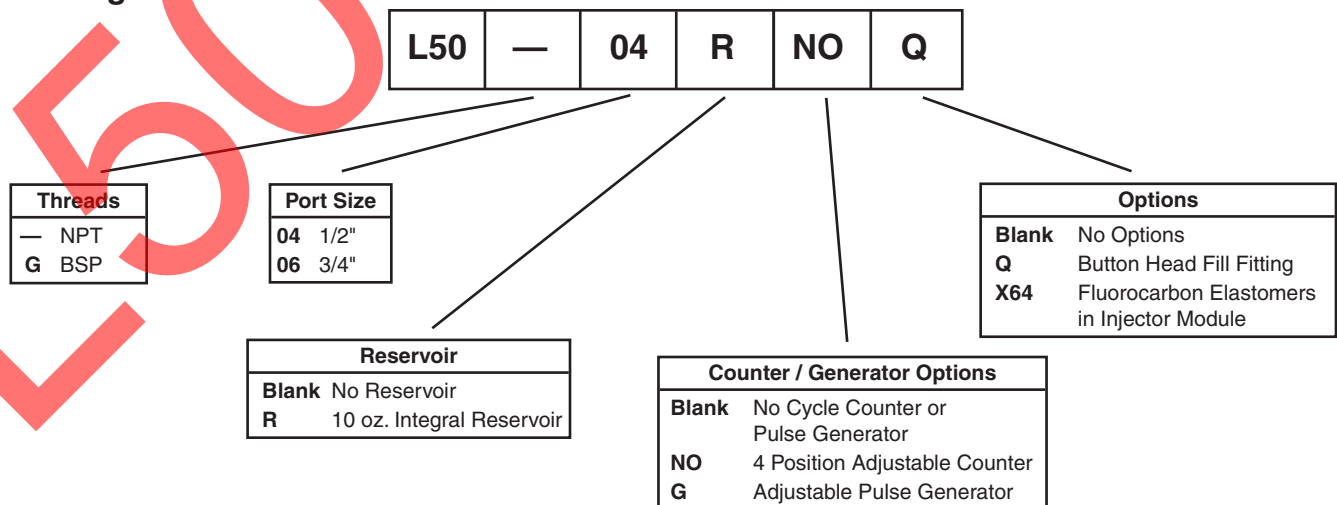
With the adjustable cycle counter, the lubricator can be set to dispense oil in the following manner:

Setting:	Off	No oil dispensed
	1	Every cycle of the application
	5	Every fifth cycle of the application
	10	Every tenth cycle of the application

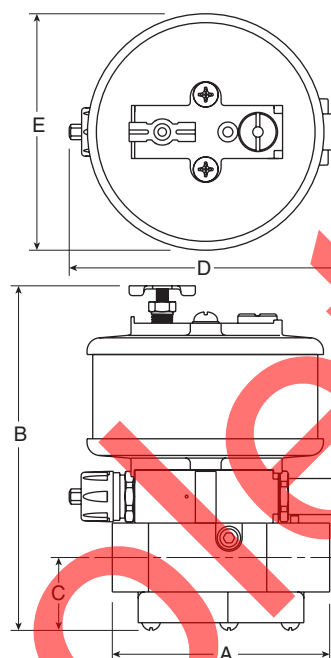
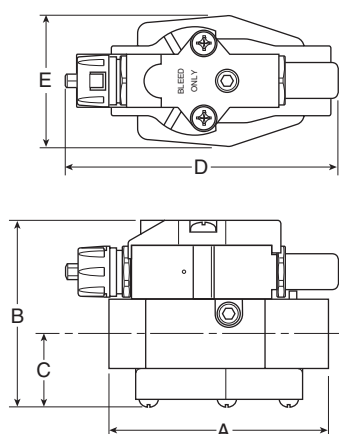
- **Pulse Generator - Optional**

For long cycle time applications the pulse generator makes the lubricator dispense a pre-determined amount of oil multiple times during a single tool cycle.

Ordering Information



Dimensions



Amount Of Oil Injected Per Machine (Tool) Cycle With Cycle Counter

Injector Module Setting	Clicks Counter-clockwise	Turns Counter-clockwise	Cycle Counter Setting			
			Off	1 (or w/o Counter)	5	10
0	0	▶	0	Prime		
8	1	▶	0	Prime		
16	2	▶	0	0.024 cc	0.005 cc	0.002 cc
24	3	▶	0	0.018 cc	0.003 cc	0.002 cc
32	4	▶	0	0.012 cc	0.002 cc	0.001 cc
40	5	▶	0	0.006 cc	0.001 cc	—
48	6	▶	0	—	—	—

L50 Dimensions

	A	B	C	D	E
Standard Unit	4.13 (104.8)	3.48 (88.4)	1.38 (35)	5.09 (129.3)	2.44 (61.9)
For Integral Reservoir Add:	—	3.0 (76.2)	—	—	2.01 (51)
For Cycle Counter Add:	—	0.88 (22.4)	—	—	—
For Pulse Generator Add:	—	1.75 (44.5)	—	2.06 (52.3)	—

inches (mm)

Repair Kits & Accessories

Injector Module	
Sight Dome End Repair Kit	RKL50SD
Adjustment End Only	RKL50MA
Module Kit	KL50M
Sensor Body	
Sensor Piston	SAL50-0472
Button Head Fill Fitting	SA606Y107
Integral 10 oz. Reservoir	BKL50R
Cycle Counter Kit	RKL50NO
Pulse Generator Kit	RKL50G

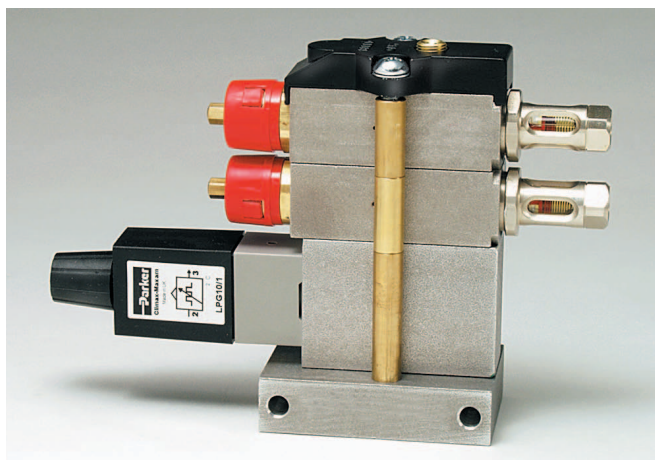
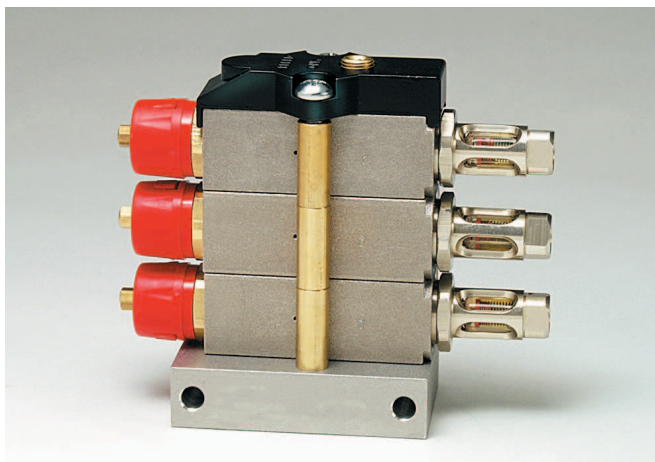
Specifications

Maximum Air Supply Pressure	150 PSIG
Oil Supply Pressure Range	Gravity Feed to 20 PSIG Max.
Oil Viscosity Range	150-1200 S.S.U.
Minimum Airflow for Operation	.5 SCFM
Oil Delivery Range	0-1 Drop per Cycle of Injector
Pressure Drop	Less than 5 PSIG @ 100 SCFM
Oil Fill Port	1/8" NPT

Materials of Construction

Injector Module	
Body	Aluminum
Oil Piston	Steel
Air Piston	Utem
Sight Dome	Polyurethane
Springs	Steel
End Plug	Brass
Seals	Buna-N (Fluorocarbon Optional)
Flow Sensor Body	
Body	Zinc
Bottom Plate	Steel
Sensor Piston	Aluminum / Brass
Spring	Steel
Top Plate	Zinc
Reservoir	
Top & Bottom Plate	Zinc
Reservoir Cylinder	Polycarbonate
Seals	Buna-N
Cycle Counter	
Body	Nylon
Seals	Buna-N
Pulse Generator	
Body	Aluminum
Timer	Acetal / Steel / Buna-N

PL50 Multi-Point Injection Lubricators



Individual Points of Lubrication

PL50 Multi-Point Injection Lubricators use an air pilot signal to provide positive displacement lubrication to either single or multiple points ensuring the predetermined amount of oil is delivered to each point per cycle regardless of pressure or flow.

The PL50 delivers oil externally to the air inlet to a pneumatic device where it is "tee'd" into the air line.

Features:

• Oil Injector Module

The oil injector module provides adjustable oil delivery in amounts up to 1 drop per cycle. Oil delivery adjustment is made by turning the adjusting knob increasing or decreasing the oil piston travel in the module. Optional visible oil delivery indicator(s) are available - and recommended - ensure visual proof of lubrication at each point.

• Cycle Counter - 4 Position - Optional

With the adjustable cycle counter, the lubricator can be set to dispense oil in the following manner:
(Maximum of 3 modules above cycle counter)

Setting: Off No oil dispensed
1 Every cycle of the application
5 Every fifth cycle of the application
10 Every tenth cycle of the application

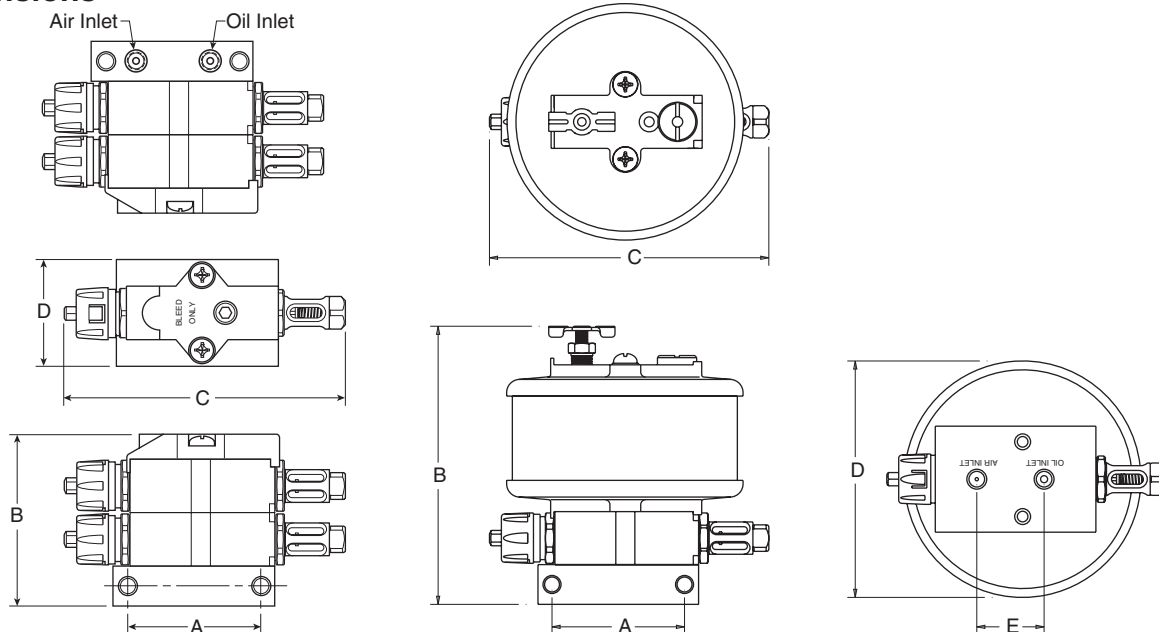
• Pulse Generator - Optional

For long cycle time applications the pulse generator makes the lubricator dispense a pre-determined amount of oil multiple times during a single tool cycle.
(Maximum of 10 modules above pulse generator)

Ordering Information

PL50M 2 V R NO Q						
Number of Modules 1 1 Module 2 2 Modules 10 Modules Maximum		Oil Outlet Connection Blank 1/8" NPT w/o Visible Indicator V 1/8" NPT w/ Visible Indicator		Reservoir Blank No Reservoir R 10 oz. Integral Reservoir		Position of Cycle Counter or Pulse Generator (Indicates # of modules below counter or generator) Blank Standard Configuration (Counter or Generator operates all modules) 1 1 module below counter 2 2 modules below counter etc. etc.
Counter / Generator Options Blank No Cycle Counter or Pulse Generator NO 4 Position Adjustable Counter (maximum of 3 modules above cycle counter) G Adjustable Pulse Generator		Options Blank No Options Q Button Head Fill Fitting X64 Fluorocarbon Elastomers in Injector Module				

Dimensions



Amount Of Oil Injected Per Machine (Tool) Cycle With Cycle Counter

Injector Module Setting	Clicks Counter-clockwise	Turns Counter-clockwise	Cycle Counter Setting			
			Off	1 (or w/o Counter)	5	10
0	0	▶	0	Prime		
8	1	▶	0			
16	2	▶	0	0.024 cc	0.005 cc	0.002 cc
24	3	▶	0	0.018 cc	0.003 cc	0.002 cc
32	4	▶	0	0.012 cc	0.002 cc	0.001 cc
40	5	▶	0	0.006 cc	0.001 cc	—
48	6	▶	0	—	—	—

Repair Kits & Accessories

Injector Module

Visible Indicator End Repair Kit	RKL50MD
Adjustment End Only	RKL50MA
Module Kit - Visible Indicator	KPL50MV
Module Kit - Non-Visible Indicator	KPL50M

Button Head Fill Fitting SA606Y107

Integral 10 oz. Reservoir BKL50R

Cycle Counter Kit RKL50NO

Pulse Generator Kit RKL50G

Specifications

Maximum Air Supply Pressure	150 PSIG
Oil Supply Pressure Range	Gravity Feed to 20 PSIG Max.
Oil Viscosity Range	150-1200 S.S.U.
Minimum Airflow for Operation	5 SCFM
Oil Delivery Range	0-1 Drop per Cycle of Injector
Pressure Drop	Less than 5 PSIG @ 100 SCFM
Oil Fill Port	1/8" NPT
Air Signal Pilot Port	1/8" NPT

PL50 Dimensions

	A	B	C	D	E
Standard 1 Module Unit w/o Visible Indicator	2.50 (63.5)	2.48 (63)	5.27 (133.9)	2.00 (51)	1.27 (32.3)
For Each Additional Module Add:	—	1 (25.4)	—	—	—
For Visible Indicators Add:	—	—	0.85 (21.6)	—	—
For Integral Reservoir Add:	—	3.0 (76.2)	—	2.46 (62.5)	—
For Cycle Counter Add:	—	0.88 (22.4)	—	—	—
For Pulse Generator Add:	—	1.75 (44.5)	2.06 (52.3)	—	—

inches (mm)

Materials of Construction

Injector Module

Body	Aluminum
Oil Piston	Steel
Air Piston	Ultem
Sight Dome	Polyurethane
Springs	Steel
End Plug	Brass
Seals	Buna-N (Fluorocarbon Optional)

Bottom Plate Aluminum

Top Plate Zinc

Reservoir

Top & Bottom Plate	Zinc
Reservoir Cylinder	Polycarbonate
Seals	Buna-N

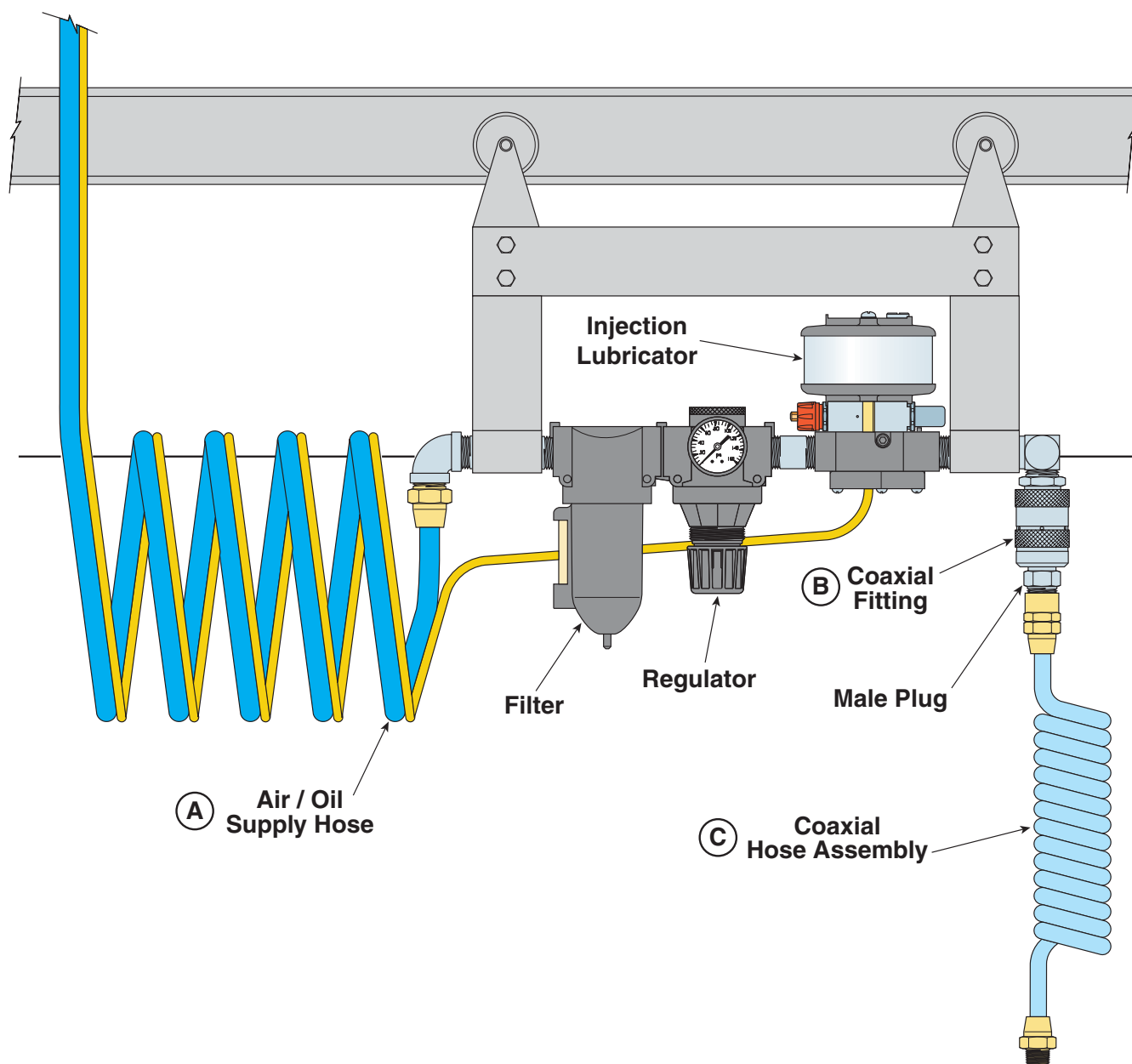
Cycle Counter

Body	Nylon
Seals	Buna-N

Pulse Generator

Body	Aluminum
Timer	Acetal / Steel / Buna-N

Typical Air Drop Application



Accessories

Oil Reservoirs

(All units come with mounting bracket)

BKL50B

1 qt. polycarbonate bowl

Diameter 4.25 (108)

Overall Height 7.44 (189)

Mount to Top 6.81 (167)

Mount to Bottom..... .63 (16)



Button Head Fill Fitting

SA606Y107

1/8" NPT Male



Oil filled Capillary Line

SA606X71-1 25 Feet

SA606Y71-1 50 Feet



Capillary Line Connectors

SAL50Y139

1/8" OD compression X
 1/8" NPT male connector



SA606Z26

1/8" OD compression X
 1/8" NPT male check valve



Supply and Tool Hoses & Fittings

(A) Air / Oil Supply Hose

ASH-25

Air Supply Hose - 25 Feet
 3/4" male NPT swivel fittings



AOSH-25

Air & Oil Supply Hose - 25 Feet
 3/4" male NPT swivel fittings



(B) Coaxial Fittings

CES-06

Coaxial Elbow & Socket
 Inlet: 3/4" male NPT
 Outlet: 3/4" female coax socket



CDS-06

Coaxial Direct Socket
 Inlet: 3/4" male NPT
 Outlet: 3/4" female coax socket



(C) Coaxial Hose Assemblies

THC-20

Coiled Tool Hose - 20 Feet
 Tube Dia: 3/8"
 Inlet: 3/4" male coax plug
 Outlet: 3/8" male NPT



THS-20

Straight Tool Hose - 20 Feet
 Tube Dia: 3/8"
 Inlet: 3/4" male coax plug
 Outlet: 3/8" male NPT



DW-06-2

Drop-Whip Hose - 2 Feet
 Inlet: 3/4" male NPT
 Outlet: 3/4" female coax socket



Notes

Notes

Safety Guide For Selecting And Using Pneumatic Division Products And Related Accessories

WARNING:

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF PNEUMATIC DIVISION PRODUCTS, ASSEMBLIES OR RELATED ITEMS ("PRODUCTS") CAN CAUSE DEATH, PERSONAL INJURY, AND PROPERTY DAMAGE. POSSIBLE CONSEQUENCES OF FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THESE PRODUCTS INCLUDE BUT ARE NOT LIMITED TO:

- Unintended or mistimed cycling or motion of machine members or failure to cycle
- Work pieces or component parts being thrown off at high speeds.
- Failure of a device to function properly for example, failure to clamp or unclamp an associated item or device.
- Explosion
- Suddenly moving or falling objects.
- Release of toxic or otherwise injurious liquids or gasses.

Before selecting or using any of these Products, it is important that you read and follow the instructions below.

1. GENERAL INSTRUCTIONS

- 1.1. Scope:** This safety guide is designed to cover general guidelines on the installation, use, and maintenance of Pneumatic Division Valves, FRLs (Filters pressure Regulators and Lubricators), Vacuum products and related accessory components.
- 1.2. Fail-Safe:** Va in a fail-safe mode, so that failure of associated valves, FRLs or Vacuum products will not endanger persons or property.
- 1.3. Relevant International Standards:** For a good guide to the application of a broad spectrum of pneumatic fluid power devices see: ISO 4414:1998, Pneumatic Fluid Power – General Rules Relating to Systems. See www.iso.org for ordering information.
- 1.4. Distribution:** Provide a copy of this safety guide to each person that is responsible for selection, installation, or use of Valves, FRLs or Vacuum products. Do not select, or use Watts valves, FRLs or vacuum products without thoroughly reading and understanding this safety guide as well as the specific Watts publications for the products considered or selected.
- 1.5. User Responsibility:** Due to the wide variety of operating conditions and applications for valves, FRLs, and vacuum products Watts and its distributors do not represent or warrant that any particular valve, FRL or vacuum product is suitable for any specific end use system. This safety guide does not analyze all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for:
 - Making the final selection of the appropriate valve, FRL, Vacuum component, or accessory.
 - Assuring that all user's performance, endurance, maintenance, safety, and warning requirements are met and that the application presents no health or safety hazards.
 - Complying with all existing warning labels and / or providing all appropriate health and safety warnings on the equipment on which the valves, FRLs or Vacuum products are used; and,
 - Assuring compliance with all applicable government and industry standards.
- 1.6. Safety Devices:** Safety devices should not be removed, or defeated.
- 1.7. Warning Labels:** Warning labels should not be removed, painted over or otherwise obscured.
- 1.8. Additional Questions:** Call the appropriate Watts technical service department if you have any questions or require any additional information. See the Watts publication for the product being considered or used, or call 269-629-5000, or go to www.wattsfluidair.com, for telephone numbers of the appropriate technical service department.

2. PRODUCT SELECTION INSTRUCTIONS

- 2.1. Flow Rate:** The flow rate requirements of a system are frequently the primary consideration when designing any pneumatic system. System components need to be able to provide adequate flow and pressure for the desired application.
- 2.2. Pressure Rating:** Never exceed the rated pressure of a product. Consult product labeling, Pneumatic Division catalogs or the instruction sheets supplied for maximum pressure ratings.
- 2.3. Temperature Rating:** Never exceed the temperature rating of a product. Excessive heat can shorten the life expectancy of a product and result in complete product failure.
- 2.4. Environment:** Many environmental conditions can affect the integrity and suitability of a product for a given application. Pneumatic Division products are designed for use in general purpose industrial applications. If these products are to be used in unusual circumstances such as direct sunlight and/or corrosive or caustic environments, such use can shorten the useful life and lead to premature failure of a product.
- 2.5. Lubrication and Compressor Carryover:** Some modern synthetic oils can and will attack nitrile seals. If there is any possibility of synthetic oils or greases migrating into the pneumatic components check for compatibility with the seal materials used. Consult the factory or product literature for materials of construction.
- 2.6. Polycarbonate Bowls and Sight Glasses:** To avoid potential polycarbonate bowl failures:
 - Do not locate polycarbonate bowls or sight glasses in areas where they could be subject to direct sunlight, impact blow, or temperatures outside of the rated range.
 - Do not expose or clean polycarbonate bowls with detergents, chlorinated hydro-carbons, ketones, esters or certain alcohols.
 - Do not use polycarbonate bowls or sight glasses in air systems where compressors are lubricated with fire resistant fluids such as phosphate ester and di-ester lubricants.
- 2.7. Chemical Compatibility:** For more information on plastic component chemical compatibility see Pneumatic Division technical bulletins Tec-3, Tec-4, and Tec-5.

Safety Guide

2.8. Product Rupture: Product rupture can cause death, serious personal injury, and property damage.

- Do not connect pressure regulators or other Pneumatic Division products to bottled gas cylinders.
- Do not exceed the maximum primary pressure rating of any pressure regulator or any system component.
- Consult product labeling or product literature for pressure rating limitations.

3. PRODUCT ASSEMBLY AND INSTALLATION INSTRUCTIONS

- 3.1. Component Inspection:** Prior to assembly or installation a careful examination of the valves, FRLs or vacuum products must be performed. All components must be checked for correct style, size, and catalog number. DO NOT use any component that displays any signs of nonconformance.
- 3.2. Installation Instructions:** Watts published Installation Instructions must be followed for installation of Watts valves, FRLs and vacuum components. These instructions are provided with every Watts valve or FRL sold, or by calling 269-629-5000, or at www.wattsfluidair.com.
- 3.3. Air Supply:** The air supply or control medium supplied to Valves, FRLs and Vacuum components must be moisture-free if ambient temperature can drop below freezing

4. VALVE AND FRL MAINTENANCE AND REPLACEMENT INSTRUCTIONS

- 4.1. Maintenance:** Even with proper selection and installation, valve, FRL and vacuum products service life may be significantly reduced without a continuing maintenance program. The severity of the application, risk potential from a component failure, and experience with any known failures in the application or in similar applications should determine the frequency of inspections and the servicing or replacement of Pneumatic Division products so that products are replaced before any failure occurs. A maintenance program must be established and followed by the user and, at minimum, must include instructions 4.2 through 4.10.
- 4.2. Installation and Service Instructions:** Before attempting to service or replace any worn or damaged parts consult the appropriate Service Bulletin for the valve or FRL in question for the appropriate practices to service the unit in question. These Service and Installation Instructions are provided with every Watts valve and FRL sold, or are available by calling 269-629-5000, or by accessing the Watts web site at www.wattsfluidair.com.
- 4.3. Lockout / Tagout Procedures:** Be sure to follow all required lockout and tagout procedures when servicing equipment. For more information see: OSHA Standard – 29 CFR, Part 1910.147, Appendix A, The Control of Hazardous Energy – (Lockout / Tagout)
- 4.4. Visual Inspection:** Any of the following conditions requires immediate system shut down and replacement of worn or damaged components:
- Air leakage: Look and listen to see if there are any signs of visual damage to any of the components in the system. Leakage is an indication of worn or damaged components.
 - Damaged or degraded components: Look to see if there are any visible signs of wear or component degradation.
 - Kinked, crushed, or damaged hoses. Kinked hoses can result in restricted air flow and lead to unpredictable system behavior.
 - Any observed improper system or component function: Immediately shut down the system and correct malfunction.
 - Excessive dirt build-up: Dirt and clutter can mask potentially hazardous situations.

Caution: Leak detection solutions should be rinsed off after use.

4.5. Routine Maintenance Issues:

- Remove excessive dirt, grime and clutter from work areas.
- Make sure all required guards and shields are in place.

4.6. Functional Test: Before initiating automatic operation, operate the system manually to make sure all required functions operate properly and safely.

4.7. Service or Replacement Intervals: It is the user's responsibility to establish appropriate service intervals. Valves, FRLs and vacuum products contain components that age, harden, wear, and otherwise deteriorate over time. Environmental conditions can significantly accelerate this process. Valves, FRLs and vacuum components need to be serviced or replaced on routine intervals. Service intervals need to be established based on:

- Previous performance experiences.
- Government and / or industrial standards.
- When failures could result in unacceptable down time, equipment damage or personal injury risk.

4.8. Servicing or Replacing of any Worn or Damaged Parts: To avoid unpredictable system behavior that can cause death, personal injury and property damage:

- Follow all government, state and local safety and servicing practices prior to service including but not limited to all OSHA Lockout Tagout procedures (OSHA Standard – 29 CFR, Part 1910.147, Appendix A, The Control of Hazardous Energy – Lockout / Tagout).
- Disconnect electrical supply (when necessary) before installation, servicing, or conversion.
- Disconnect air supply and depressurize all air lines connected to system and Pneumatic Division products before installation, service, or conversion.
- Installation, servicing, and / or conversion of these products must be performed by knowledgeable personnel who understand how pneumatic products are to be applied.
- After installation, servicing, or conversions air and electrical supplies (when necessary) should be connected and the product tested for proper function and leakage. If audible leakage is present, or if the product does not operate properly, do not put product or system into use.
- Warnings and specifications on the product should not be covered or painted over. If masking is not possible, contact your local representative for replacement labels.

4.9. Putting Serviced System Back into Operation: Follow the guidelines above and all relevant Installation and Maintenance Instructions supplied with the valve FRL or vacuum component to insure proper function of the system.

Notes

The goods, services or work (referred to as the "Products") offered by **Parker-Hannifin Corporation**, its subsidiaries, groups, divisions, and authorized distributors ("Seller") are offered for sale at prices indicated in the offer, or as may be established by Seller. The offer to sell the Products and acceptance of Seller's offer by any customer ("Buyer") is contingent upon, and will be governed by all of the terms and conditions contained in this Offer of Sale. Buyer's order for any Products specified in Buyer's purchase document or Seller's offer, proposal or quote ("Quote") attached to the purchase order, when communicated to Seller verbally, or in writing, shall constitute acceptance of this offer.

1. Terms and Conditions. Seller's willingness to offer Products for sale or accept an order for Products is subject to the terms and conditions contained in this Offer of Sale or any newer version of the same, published by Seller electronically at www.parker.com/saleterms/. Seller objects to any contrary or additional terms or conditions of Buyer's order or any other document or other communication issued by Buyer.

2. Price; Payment. Prices stated on Seller's Quote are valid for thirty (30) days, except as explicitly otherwise stated therein, and do not include any sales, use, or other taxes or duties unless specifically stated. Seller reserves the right to modify prices to adjust for any raw material price fluctuations. Unless otherwise specified by Seller, all prices are F.C.A. Seller's facility (INCOTERMS 2010). Payment is subject to credit approval and payment for all purchases is due thirty (30) days from the date of invoice (or such date as may be specified by Seller's Credit Department). Unpaid invoices beyond the specified payment date incur interest at the rate of 1.5% per month or the maximum allowable rate under applicable law.

3. Shipment; Delivery; Title and Risk of Loss. All delivery dates are approximate. Seller is not responsible for damages resulting from any delay. Regardless of the manner of shipment, delivery occurs and title and risk of loss or damage pass to Buyer, upon placement of the Products with the shipment carrier at Seller's facility. Unless otherwise stated, Seller may exercise its judgment in choosing the carrier and means of delivery. No deferment of shipment at Buyers' request beyond the respective dates indicated will be made except on terms that will indemnify, defend and hold Seller harmless against all loss and additional expense. Buyer shall be responsible for any additional shipping charges incurred by Seller due to Buyer's acts or omissions.

4. Warranty. Seller warrants that the Products sold hereunder shall be free from defects in material or workmanship for a period of twelve (12) months from the date of delivery or 2,000 hours of normal use, whichever occurs first. All prices are based upon the exclusive limited warranty stated above, and upon the following disclaimer: **DISCLAIMER OF WARRANTY: THIS WARRANTY IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO PRODUCTS PROVIDED. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING DESIGN, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

5. Claims; Commencement of Actions. Buyer shall promptly inspect all Products upon receipt. No claims for shortages will be allowed unless reported to the Seller within ten (10) days of delivery. No other claims against Seller will be allowed unless asserted in writing within thirty (30) days after delivery. Buyer shall notify Seller of any alleged breach of warranty within thirty (30) days after the date the defect is or should have been discovered by Buyer. Any claim or action against Seller based upon breach of contract or any other theory, including tort, negligence, or otherwise must be commenced within twelve (12) months from the date of the alleged breach or other alleged event, without regard to the date of discovery.

6. LIMITATION OF LIABILITY. IN THE EVENT OF A BREACH OF WARRANTY, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE A DEFECTIVE PRODUCT, OR REFUND THE PURCHASE PRICE WITHIN A REASONABLE PERIOD OF TIME. **IN NO EVENT IS SELLER LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR AS THE RESULT OF, THE SALE, DELIVERY, NON-DELIVERY, SERVICING, USE OR LOSS OF USE OF THE PRODUCTS OR ANY PART THEREOF, OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT SELLER'S WRITTEN CONSENT, WHETHER BASED IN CONTRACT, TORT OR OTHER LEGAL THEORY. IN NO EVENT SHALL SELLER'S LIABILITY UNDER ANY CLAIM MADE BY BUYER EXCEED THE PURCHASE PRICE OF THE PRODUCTS.**

7. User Responsibility. The user, through its own analysis and testing, is solely responsible for making the final selection of the system and Product and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application and follow applicable industry standards and Product information. If Seller provides Product or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the Products or systems.

8. Loss to Buyer's Property. Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which become Buyer's property, will be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer ordering the items manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.

9. Special Tooling. A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture Products. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the Products, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller has the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

10. Buyer's Obligation; Rights of Seller. To secure payment of all sums due or otherwise, Seller retains a security interest in all Products delivered to Buyer and this agreement is deemed to be a Security Agreement under the Uniform Commercial Code. Buyer authorizes Seller as its attorney to execute and file on Buyer's behalf all documents Seller deems necessary to perfect its security interest.

11. Improper Use and Indemnity. Buyer shall indemnify, defend, and hold Seller harmless from any losses, claims, liabilities, damages, lawsuits, judgments and costs

(including attorney fees and defense costs), whether for personal injury, property damage, patent, trademark or copyright infringement or any other claim, brought by or incurred by Buyer, Buyer's employees, or any other person, arising out of: (a) improper selection, application, design, specification or other misuse of Products purchased by Buyer from Seller; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of patterns, plans, drawings, or specifications furnished by Buyer to manufacture Products; or (d) Buyer's failure to comply with these terms and conditions. Seller shall not indemnify Buyer under any circumstance except as otherwise provided.

12. Cancellations and Changes. Buyer may not cancel or modify or cancel any order for any reason, except with Seller's written consent and upon terms that will indemnify, defend and hold Seller harmless against all direct, incidental and consequential loss or damage. Seller may change Product features, specifications, designs and availability.

13. Limitation on Assignment. Buyer may not assign its rights or obligations under this agreement without the prior written consent of Seller.

14. Force Majeure. Seller does not assume the risk and is not liable for delay or failure to perform any of Seller's obligations by reason of events or circumstances beyond its reasonable control (hereinafter "Events of Force Majeure"). Events of Force Majeure shall include without limitation: accidents, strikes or labor disputes, acts of any government or government agency, acts of nature, delays or failures in delivery from carriers or suppliers, shortages of materials, or any other cause beyond Seller's reasonable control.

15. Waiver and Severability. Failure to enforce any provision of this agreement will not invalidate that provision; nor will any such failure prejudice Seller's right to enforce that provision in the future. Invalidation of any provision of this agreement by legislation or other rule of law shall not invalidate any other provision herein. The remaining provisions of this agreement will remain in full force and effect.

16. Termination. Seller may terminate this agreement for any reason and at any time by giving Buyer thirty (30) days prior written notice. Seller may immediately terminate this agreement, in writing, if Buyer: (a) breaches any provision of this agreement (b) appoints a trustee, receiver or custodian for all or any part of Buyer's property (c) files a petition for relief in bankruptcy on its own behalf, or one if filed by a third party (d) makes an assignment for the benefit of creditors; or (e) dissolves its business or liquidates all or a majority of its assets.

17. Governing Law. This agreement and the sale and delivery of all Products are deemed to have taken place in, and shall be governed and construed in accordance with, the laws of the State of Ohio, as applicable to contracts executed and wholly performed therein and without regard to conflicts of laws principles. Buyer irrevocably agrees and consents to the exclusive jurisdiction and venue of the courts of Cuyahoga County, Ohio with respect to any dispute, controversy or claim arising out of or relating to this agreement.

18. Indemnity for Infringement of Intellectual Property Rights. Seller is not liable for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Section. Seller will defend and indemnify Buyer against allegations of infringement of U.S. patents, U.S. trademarks, copyrights, trade dress and trade secrets ("Intellectual Property Rights"). Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on an allegation that a Product sold pursuant to this agreement infringes the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If a Product is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Product, replace or modify the Product so as to make it noninfringing, or offer to accept return of the Product and refund the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller is not liable for claims of infringement based on information provided by Buyer, or directed to Products delivered hereunder for which the designs are specified in whole or part by Buyer, or infringements resulting from the modification, combination or use in a system of any Product sold hereunder. The foregoing provisions of this Section constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.

19. Entire Agreement. This agreement contains the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter are herein merged. The terms contained herein may not be modified unless in writing and signed by an authorized representative of Seller.

20. Compliance with Laws. Buyer agrees to comply with all applicable laws, regulations, and industry and professional standards of care, including those of the United Kingdom, the United States of America, and the country or countries in which Buyer may operate, including without limitation the U. K. Bribery Act, the U.S. Foreign Corrupt Practices Act ("FCPA"), the U.S. Anti-Kickback Act ("Anti-Kickback Act") and the U.S. Food Drug and Cosmetic Act ("FDCA"), each as currently amended, and the rules and regulations promulgated by the U.S. Food and Drug Administration ("FDA"), and agrees to indemnify and hold harmless Seller from the consequences of any violation of such provisions by Buyer, its employees or agents. Buyer acknowledges that it is familiar with the provisions of the U. K. Bribery Act, the FCPA, the FDA, and the Anti-Kickback Act, and certifies that Buyer will adhere to the requirements thereof. In particular, Buyer represents and agrees that Buyer will not make any payment or give anything of value, directly or indirectly to any governmental official, any foreign political party or official thereof, any candidate for foreign political office, or any commercial entity or person, for the purpose of influencing such person to purchase Products or otherwise benefit the business of Seller.

05/14



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Bulletin Number: ND-FRL-52

Date of Issue: May, 2015

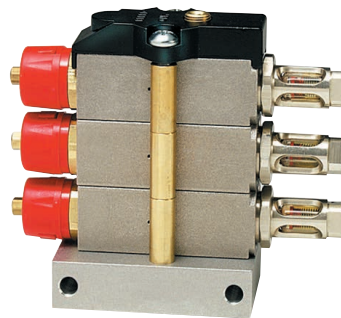
Product Group:	Air Preparation	Actuators	Cylinders	Grippers	Vacuum / Sensors	Valves	Other
Notice of Discontinuance							
Subject:	L50 Injection Lubricator and PL50 Option Rationalization						

Pneumatic Division North America is announcing the obsolescence of the L50 Injection Lubricator and the rationalization of the PL50 Injection Lubricator product offering, effective **June 1, 2015**. This announcement is being made again 1 month in advance in order to provide one last opportunity to work with the existing customers on a conversion plan.

Obsolete L50 Single-Point Injection Lubricator



Rationalization of PL50 Multi-Point Injection Lubricator



Options Rationalized:

- 4 Position Adjustable Counter
- 10oz Integral Reservoir
- Button Head Fill Fitting
- Fluorocarbon Elastomers

Discontinued

- | | |
|---|--------------|
| 1) The Product(s) Shown Above Will Be Discontinued | June 1, 2015 |
| 2) Orders for Complete Units Will be Accepted Until | May 31, 2015 |
| 3) Orders for Kits Will Be Accepted Until | May 31, 2015 |
| 4) Last Date Annual Returns Accepted | July 1, 2015 |

REMARKS: Cross Reference list can be found at A&H Distributor Forum / Product Announcements

See Following Page for Kit Discontinuance Detail and Interchange



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Kit Discontinuance

Kit Part Number	Obsolete	Description
BKL50A	X	Oil Reservoir 9 oz
SAL50-04-0013	X	Sensor Assembly
BLK50C	X	Oil Reservoir 2 qt
BLK50R/M6	X	Integral 10 oz Reservoir
RKL50SD/M7	X	Sight Dome
KL50M/M7	X	Module Kit
RKL50MD/M7	X	Visual Indicator End
RKL50MA/M7	X	Adjustment End Injector
RKL50N0	X	Adjustable Counter

<i>Part Number</i>	<i>Interchange</i>
L50-04	PL50M1
L50-04Q	PL50M1
L50-04X64	PL50M1
L50-04NO	PL50M1
L50-04NOQ	PL50M1
L50-04NOX64	PL50M1
L50-04G	PL50M1G
L50-04GQ	PL50M1G
L50-04GX64	PL50M1G
L50-04R	PL50M1
L50-04RQ	PL50M1
L50-04RX64	PL50M1
L50-04RNO	PL50M1
L50-04RNOQ	PL50M1
L50-04RNOX64	PL50M1
L50-04RG	PL50M1G
L50-04RGQ	PL50M1G
L50-04RGX64	PL50M1G
L50-06	PL50M1
L50-06Q	PL50M1
L50-06X64	PL50M1
L50-06NO	PL50M1
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