

General:

Each hoist is supplied with an inline filter and lubricator attached to the hoist inlet. The hoist supply air should be connected to the inlet of the supplied filter. **DO NOT REMOVE THESE ITEMS PRIOR TO HOIST OPERATION. FAILURE TO USE HOIST WITH THE SUPPLIED INLINE FILTER AND LUBRICATOR WILL VOID THE HOIST WARRANTY.**

Lubricator Operation:

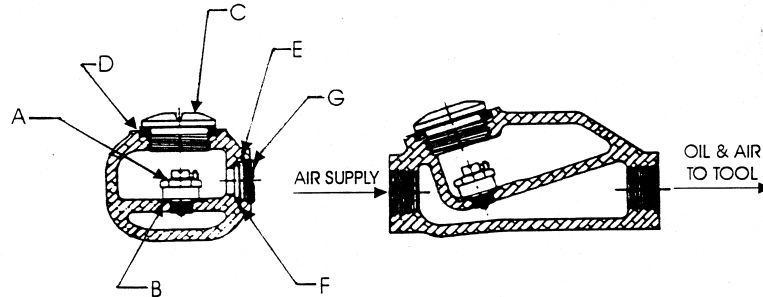
1. ***Warning! Lubricator must be filled with air tool oil as specified in the hoist owner's manual prior to use. The lubricator does not come filled with air tool oil from Harrington.***
2. See attached lubricator instructions for proper operation and maintenance of lubricator. The lubricator model number supplied is PL-400L.
3. Prior to using the hoist add approximately 15oz of oil directly to air line between the lubricator and hoist inlet. This will prevent a dry start condition.
4. The lubricator adjusting screw should be set to 10 prior using the hoist.
5. Make sure the lubricator is always contains oil during hoist operation. Allowing the lubricator to go dry during operation will cause damage to the hoist and **VOID THE HOIST WARRANTY.**
6. Make sure the lubricator is positioned so that the air flows in the proper direction and the oil reservoir is above the flowing air stream. **FAILURE TO INSTALL LUBRICATOR IN THE CORRECT POSITION WILL VOID THE HOIST WARRANTY.**
7. The lubricator does **NOT** shut off the flow of oil during periods of shut down. The high pressure air trapped above the oil will force any remaining oil from the lubricator into the air lines during extended shut down periods. If this is a problem turn the lubricator upside down or open the fill plug to depressurize the reservoir.

Filter Operation:

1. An air filter is supplied at the lubricator inlet. **NEVER PLACE THE FILTER AT THE LUBRICATOR OUTLET, AS ALL OF THE OIL WILL BE REMOVED FROM THE AIR STREAM.**
2. The filter should be removed and cleaned or replaced when it is clogged or when the pressure drop across the filter is greater than 10 psi.
3. Never use the hoist without the inline filter.

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INSTRUCTIONS for Installing - Operating and Maintaining SERIES PL LUBRICATORS



These lubricators are designed for use with hose-connected tools which may be too far removed from the compressor to be lubricated by a permanently mounted unit. The Dixon series PL lubricators should be installed within 25 feet of the air tool requiring lubrication; its rugged construction will allow dragging on the floor or ground. Refer to the arrow for proper air flow direction.

IMPORTANT: At initial installation, much lubricant is required to coat the line between the lubricator and the tool, so to avoid a dry period during start-up, add about 1/2 ounce (15 cc) oil directly to the line.

The oil adjusting screw is located inside the reservoir. To adjust, remove the fill plug and use a screw driver. It will not be necessary to shut off the air. A setting of 5 is suitable for average conditions using 10 weight oil. Usage of oil varies in proportion to normal pressure reductions which occur in a hose when a tool consumes air. Viscosity also affects the flow of oil, so adjustment based on experience may be desired. Remember that time lag between re-adjustment and visual effects at the tool may be as long as an hour.

The extremely simple principle of this lubricator does not provide for shut off of the oil during periods of shut down. High pressure air trapped above the oil will force any remaining oil from the reservoir into the air line during an overnight shut down. If this is objectionable, either turn the lubricator upside down or open the fill plug and depressurize the reservoir.

SPECIFICATIONS

MODEL NUMBER	PL300X	PL400X	PL400LX	PL500X
PIPE SIZE	1/2" NPT	3/4" NPT	3/4" NPT	1" NPT
MAX. WORKING PRESSURE, PSIG	500	260	300	250
OIL CAPACITY	40 cc 1.4 fl. oz.	110 cc 3.7 fl. oz.	320 cc 11.0 fl. oz.	480 cc 16.0 fl. oz.

RENEWAL PARTS (SAME FOR ALL SIZES)

(A) Oil Adjustment Valve Assembly	851661	(E) Sight Disk	452532
(B) Valve Gasket	452531	(F) Sight Disk Seal	847272
(C) Fill Plug	452525	(G) Sight Disk Lock Nut	452533
(D) Fill Plug O-Ring	844319		

NOTE: All couplings used with reciprocation or impact tools should be used with a whip hose between coupling and the tool. Eye protection should be worn when couplings are connected or disconnected. Use only couplings compatible with media being transferred.

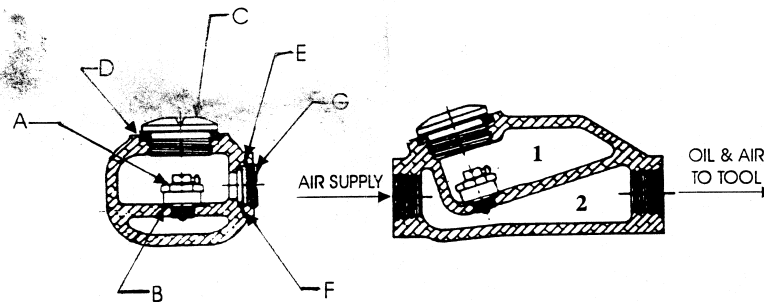
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SERIES PL LUBRICATORS



The lubricator has two reservoirs. The upper chamber (denoted as chamber 1 in the figure) holds the oil. The oil adjustment valve (A) not only controls the amount of oil entering the air stream, but also allows air to enter the upper chamber and pressurize it until it is the same pressure as the rest of the system. The lower chamber (2) is only a passageway for the air to enter and exit the lubricator.

HOW IT WORKS:

Chamber 1 is eventually pressurized to the same pressure as chamber 2. When the air tool is turned on it draws air from the system. This drawing of the air (called flow) causes air to rush through chamber 2 of the lubricator. (Remember it was stated above that the pressure in both chambers are equal when the tool is turned off.) If the flow is high enough the pressure in chamber 2 drops below the pressure in chamber 1. This difference in pressure allows the oil in chamber 1 to be pushed into chamber 2 and thus puts oil into the air stream to lubricate the tool.

Eventually, while the tool is running and the air is flowing, the pressure in the two chambers will equalize and the oil will no longer enter the air stream and lubricate the tool. Therefore, these lubricators should only be used on tools that will periodically cycle on and off. This will allow chamber 1 to pressurize again and start the whole cycle over.

The minimum flow rate that must be achieved for the PL SERIES lubricators to work is 30 SCFM. A flow rate less than 30 SCFM will not create the pressure difference needed between chambers 1 and 2 to force the oil into the air stream.

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