

SIZE HDL1 LUBRICATOR

OPERATION

The recommended operating range for this Lubricator is 40 psig (2.8 bar/280 kPa) to 250 psig (17.2 bar/1720 kPa) air pressure. This Lubricator is recommended for use with diesel fuel or a light weight motor oil such as SAE 10 or 10W.

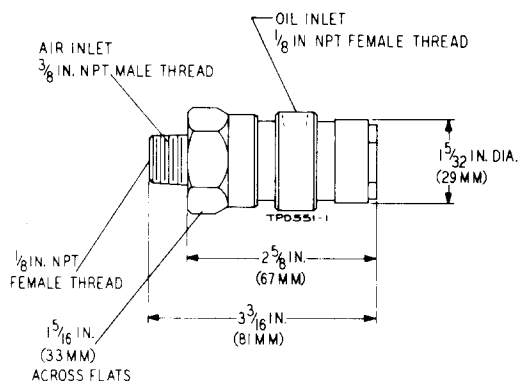
INSTALLATION

The HDL1 Lubricator is self-priming and may be installed directly into the air starter housing or may be remotely located. Although the Lubricator is capable of drawing lubricant from a source 4 feet (1.22 metres) lower than the point of installation, we recommend installing the Lubricator as close as possible to the oil source. **Note:** Before initial operation, manually fill the oil supply line.

Oil Inlet

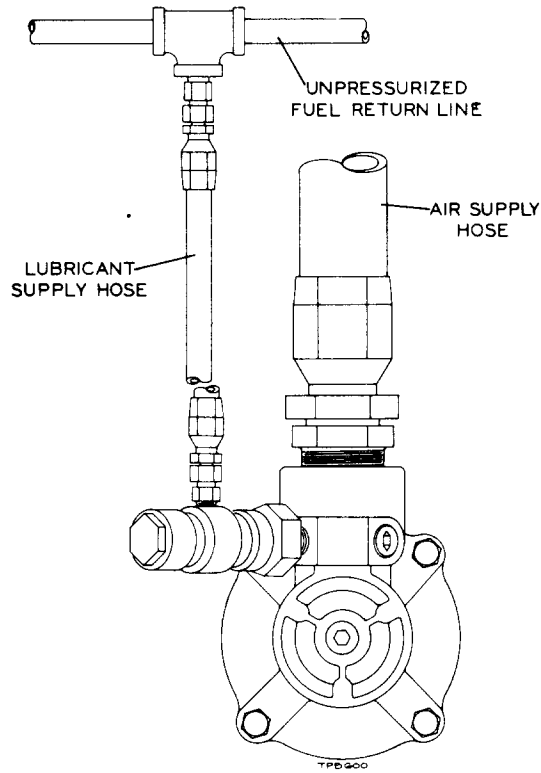
The oil inlet is tapped 1/8"-27 NPT. Make certain that the fitting you provide is tightened to 15 to 36 ft-lb (20.3 to 40.8 Nm) torque to assure that the joint and oil supply hose are vacuum tight and free of leaks. Threads of the fitting should be clean and assembled with no sealing compound or tape.

We recommend using the **unpressurized** fuel return line as the source of lubricant. However, oil may be supplied from a separate reservoir or the diesel fuel tank. When the diesel fuel tank is the lubricant source, install a 10 micron to 50 micron fuel filter in the oil supply line **at the fuel tank**.

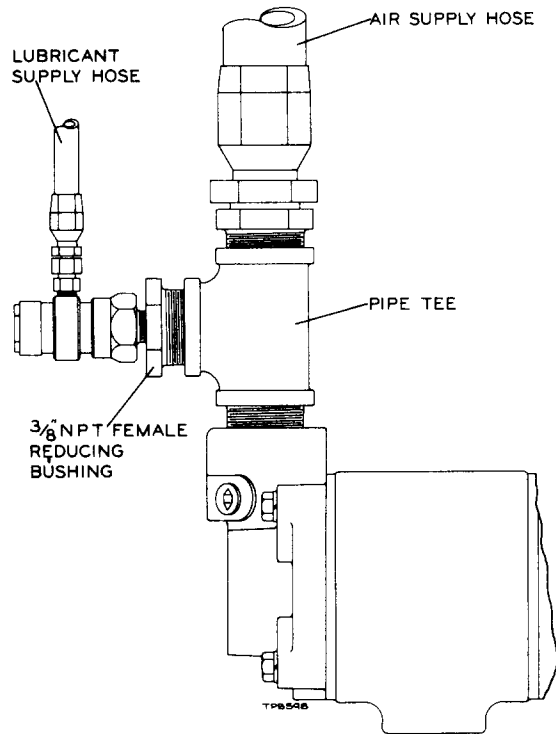


Mounting Dimensions for HDL1 Lubricator

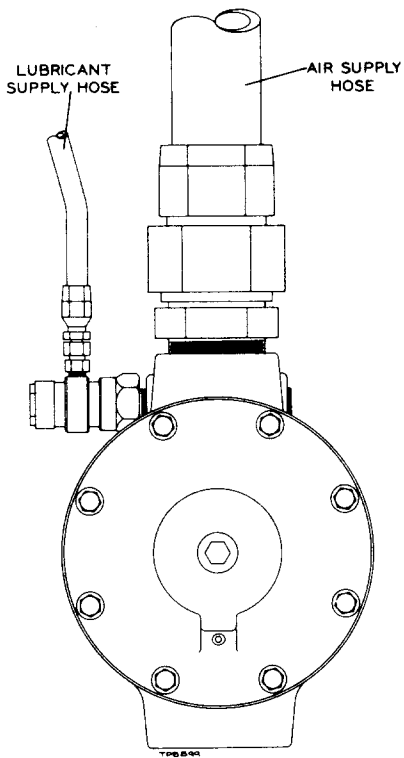
Refer to the illustrations on pages 2 and 3 for various methods of installation for the HDL1 Lubricator.



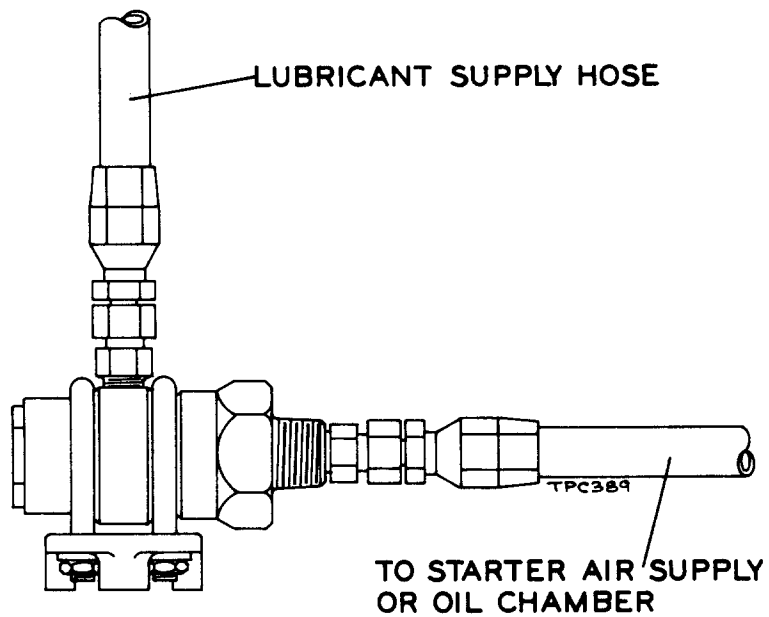
**Installation of HDL1 Lubricator on Series 150BM and 150BMP Starters
(Typical of Installation on Series 3BM and 5BM)**



Installation of HDL1 Lubricator Using Pipe Tee in Air Supply Line



Installation of HDL1 Lubricator on Series SS660 and Late Model SM450 and SM451 Starters



Remote Installation of HDL1 Lubricator Using Mounting Bracket Assembly

Ingersoll-Rand Company
28 Kennedy Boulevard
P. O. Box 308
Turnpike Industrial Park
East Brunswick, N. J. 08816
201-846-5400

SALES HEADQUARTERS

U.S.A.

Ingersoll-Rand Company
Engine Starting Systems
2350 East Devon Avenue
Des Plaines, Ill. 60018
312-297-7400

CANADA

Canadian Ingersoll-Rand Co., Ltd.
255 Lesmill Road, Don Mills
Toronto, Ontario M3B 2V1
416-445-4470