TRABON

LUBRICATING SYSTEMS

32 to 1000 BEARING INCHES

4 PACKAGE STYLES 12 MODELS

ENGINEERED AUTOMATIC SYSTEMS

COMPLETE VISUAL OPERATING INDICATION

TRABON Meter-Mist LUBRICATING SYSTEMS

THE TRABON ENGINEERING CORP. proves its versatility. Air-misted oil lubrication is available in TRABON METER-MIST. Particularly suited to the lubrication of high-speed bearings, METER-MIST provides good lubrication for applications where other methods are inadequate. It is convenient, low cost and automatic. Plant air supply furnishes the power. Bearings run cooler and require less horsepower. Clean, fresh lubricant is deposited on the bearing at all times; never recirculated.

METER-MIST is not the answer to all lubrication problems. Nevertheless, where properly applied, considerable savings can be obtained; savings in maintenance and the conservation of lubricants.

WHAT IS METER-MIST LUBRICATION?

Trabon Meter-Mist is mist lubrication in an engineered system designed to provide adequate lubrication for all types of bearing surfaces. It is particularly suited to high speed bearing applications.

Mist, a recent concept in lubricant transmission, is micron-sized lubricant particles suspended in air, conveyed to the bearing through extremely low pressure air lines where it is converted to larger sized oil particles by reclassification fittings and caused to "wet-out" with impingement upon the bearing surface.

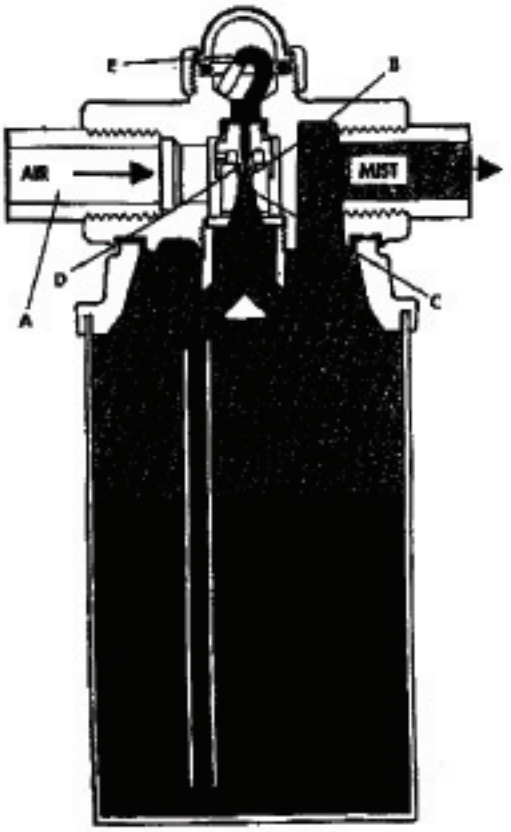


FIGURE 1-E

The Mist is generated in the misting head which is shown in Fig. 1-E. Air, at regulated pressure ranging from 5PSI to 30PSI, enters through passage "A" passing thru orifice "B" causing a great increase in velocity in the venturi section "C". Simultaneously a low pressure area is created at the lubricant discharge orifice "D", so that lubricant is syphoned to this orifice thru the visible delivery tube "E". As oil enters the high velocity air stream it is atomized into various micron-sized particles. Only those particles which are 2.0 micron or less in diameter will remain air-borne. The larger particles drop back into the reservoir. A lubricating aerosol of this particle size can be conveyed over considerable distances without danger of excessive condensation within the piping system.

To accurately meter and to convert the mist to a larger particle size which will "wet-out" upon impingement, reclassifying fittings are used at each system outlet. The reclassifying fittings create a slight back-pressure in the system which allows control of the metering orifices.

30M384
METER-MIST LUBRICATORS

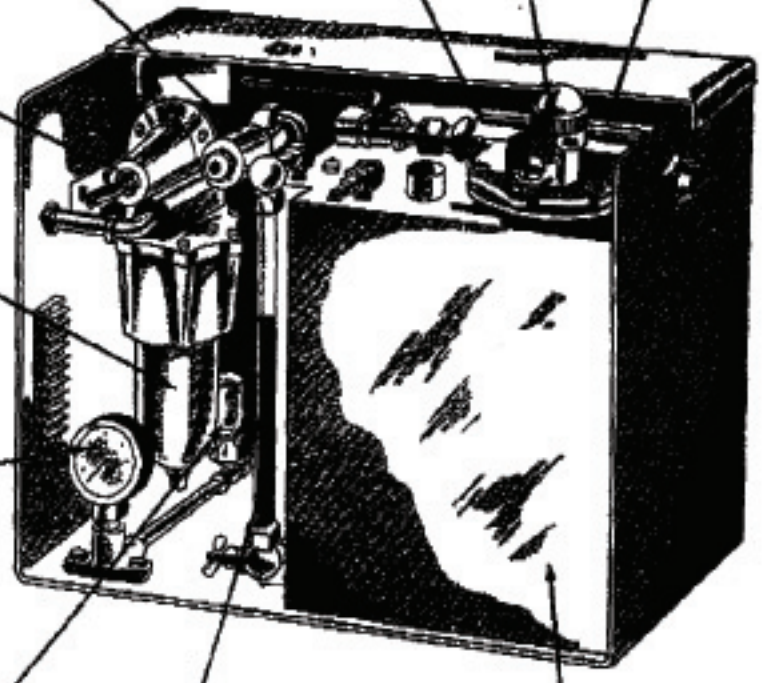
AUTOMATIC OPERATION . . .
Solenoid valve may be interlocked with machine controls to automatically start and stop unit with machine operation.

CHOICE OF 3 MIST HEADS . . .
Units are available with 32, 200, or 300 bearing inch capacity mist head.

VISIBLE OIL FEED DOME . . .
Projecting through the enclosure cover, this dome provides a quick positive check of system operation.

LOW LEVEL SWITCH . . .
Mounted within oil reservoir — used to activate warning signal.

AIR PRESSURE REGULATOR . . .
Accurately controls the air entering the mist head —determines oil output.



AUTOMATIC FILTER . . .
Efficiently removes air line contaminants — automatically drains collected condensates.

VISIBLE PRESSURE GAUGE . . .
Opening in enclosure cover shows setting of pressure regulator.

PRESSURE FAILURE SWITCH . .
May be used to signal pressure failure or shut down machine in the event of air failure.

VISIBLE OIL LEVEL GAUGE . . .
Opening in cover allows quick visual check of reservoir level.

LARGE RESERVOIR CAPACITY . . .
3 gallon tank assures extended operating hours between refills.

OVERALL DIMENSIONS—
20⅜ x 13 x 9¼ inches.