



PRODUCT DATA SHEET



AUTOMATIC GREASE DISPENSER

Shamrock Automatic Grease Dispenser can make manual lubrication a thing of the past by putting the right amount of grease where you want it when you want it - automatically. This dispenser features an adjustable flow rate for perfectly lubed shots every time, from 1 drop to over 1.5 ounces per cycle. The included solenoid air valve and regulator provide full control of the dispenser when actuated by your die cast machine controller. The grease reservoir mounts compactly to the die cast machine platen. Reservoirs are available in one-gallon capacity (PN 30140000) and two-gallon capacity (PN 30140010). Please consult factory if an alternative reservoir capacity is needed.

SHAMROCK AUTOMATIC GREASE DISPENSER

UNIQUE DESIGN FEATURES:

The Shamrock Automatic Grease Dispenser was designed specifically to apply lubricant directly to the exposed end of a die casting machine plunger tip in the fully retracted position. Automatic application of the same precise amount of lube before every shot results in reduced cycle time, reduced lube usage, and extended plunger tip life when compared to intermittent manual lube application. The adjustable piston stroke permits exact metering of from one drop to over 1.5 ounces per cycle. Adjustable flow rate produces more even lube distribution and controls dripping from the bottom of the plunger tip.

The wide, flip-up lid on top of the lube reservoir allows easy refilling. To provide extra protection against contamination, the lid is designed to fall shut and not remain in the open position. A coarse wire screen in the filling area keeps flash and other trash out of the system for added reliability. The screen is easily removed for cleaning. There is also a sediment trap at the bottom of the reservoir.

The rugged steel design tolerates rough service. The actuating pump assembly is mounted under the reservoir for added protection. The entire unit projects only 4 inches from the mounting surface, which is less than most containers used for manual lubrication. The integral hanger-type mounting permits quick removal should servicing or relocation be required. The reservoir is designed to mount against the platen of the die casting machine. Heat conduction through the back wall of the reservoir will maintain the lubricant above room temperature for better flow and penetration of the clearances between the plunger tip and shot sleeve.

RELIABLE OPERATION:

The air-operated piston assembly is powerful enough to handle even the heaviest grease. An override button on the pilot valve permits manual cycling for air purging and system test. The lube is delivered through a 5/16" metal tube. The far end of the tube is normally positioned on top of the exposed plunger tip for drip application. The provision of a 1/32" deep by 1/4" wide groove around the plunger tip under the tube outlet will allow the lube to be carried forward through the entire length of the shot sleeve for maximum lubrication. The Shamrock Automatic Grease Dispenser may also be connected to a fitting on a shot sleeve with an internal distribution groove. Lubricant discharge pressure of 25 psi is sufficient to provide complete encirclement of the plunger tip in this type of installation.

For thick lubes, the flow can be triggered when the dies start to close, allowing the plunger tip to be completely encircled with lube by the time the shot is initiated. A time delay control may be used to start the lube flow later for thinner lubes.

Shamrock Automation™ also builds a broad range of Automatic Ladlers for a variety of non-ferrous casting applications.

For more information call: 1-800-458-5702