



PLS-20

Plunger Lubrication System

The Norlube Plunger Lubrication System (*PLS-20*) was designed by ADCR to apply our water based high viscosity plunger lubricant. The equipment was designed due to the fact that we could not find a suitable piece of equipment that could apply a water based product in small consistent quantities. The *PLS-20* is a multifunctional device that has a built in agitation system allowing it to delivery almost any lubricant (stable or unstable). This system controls metering, delivery, and atomization of ADCR's wide assortment of plunger lubricants:

- Graphite containing water in oil emulsion
- Boron Nitride containing water in oil emulsion
- Sprayable oil for in sleeve application
- Heavy oil for drip application
- Graphite in oil for drip application
- Boron Nitride in oil for drip application



Simplicity

The *PLS-20* functions as a self-priming standalone unit. The lubricant can be delivered by drip or atomized spray. The preferred configuration uses water fog atomization to provide superior coating of the shot sleeve.

- The PLS-20 uses “off the shelf” parts from either McMaster-Carr or Grainger. This allows our customers to easily stock spare parts at an affordable price.
- As you can see in the image below, our lubricant is atomized in the sleeve behind the tip while the shot rod is fully forward. Our applicator continues to distribute lubricant while the shot rod returns to the home position. This creates a fine film coating on both the sleeve and the tip without contaminating the part.



