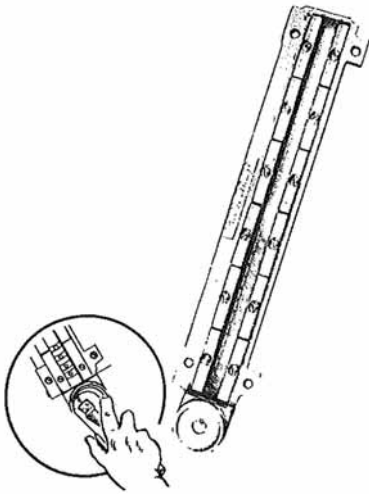


# Nathan Liquid Level Glo-Rod



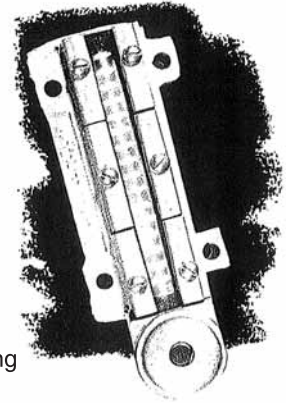
## The GLO-ROD Principle in Operation

Nathan "Glo-Rod" liquid level and tank filling gauges use the principle of "piping" light (supplied by a flashlight) through the vertical opening in the body of the gauge in which the liquid is seen, by means of a translucent plastic rod. At the lower end of the gauge is a circular concavity, or "target", through which the lower end of the plastic rod is bent forward to receive flashlight illumination when necessary.

Placing a flashlight against this target transmits light upward, through the rod and liquid, to appear as dots below the surface of the liquid, as illustrated, but as horizontal bars above the surface of the liquid. Thus the usual light losses due to reflection by the gauge window are eliminated, and readings are rapid and accurate.

### APPLICATIONS

- Rail



### Design Features:

- Illuminated markers.
- Instantaneous, accurate reading.
- No light loss through reflection.
- Daylight sight reading.
- Heavy duty construction.
- No wearing parts.
- Shatterproof windows.
- Models to suit all sizes and shape tanks.
- Designed for diesel fuel and water tanks.
- Equipped with manual shut off valves for quick cleaning without draining tank (four bolt models).

# Nathan Flange Lubricating Shoe - Type MS

## For Automatic Lubricating of Locomotive Wheel Flanges

Excessive cutting and wear of wheel flanges, as well as track rails, frogs and switch points can now be virtually eliminated by the use of the Nathan Flange Lubricating Shoe, Type MS. A constant, even film of lubricant is applied only to the critical areas of the flange with no lubricant being deposited on the tread of the wheel.

Nathan Type MS consists of a correctly designed soft cast iron shoe into which a large block of solid lubricant has been pressed under high pressure. The lubricant is a special formulation suitable for operation in both extremely dry and excessively joint atmospheres. As the contact surfaces of the metal shoe are slowly worn away against the rotating wheel flange, a thin but effective film of lubricant is deposited on the throat and over the entire contour of the wheel flange. This arrangement also avoids the possibility of getting lubricant on the wheel tread, thereby causing slipping of the wheel in service.

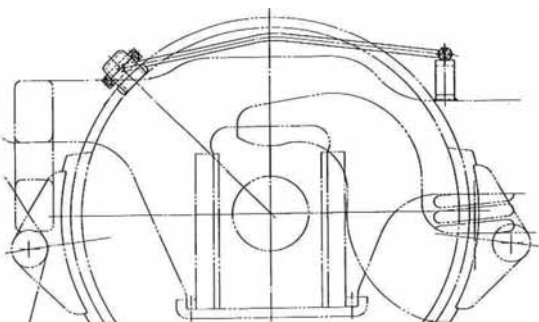


Since the lubricant is placed on both sides of the wheel flange, wear is also retarded on the rails, switch points and frogs over which the wheel passes. The open slot in each end of the shoe directly over the flange throat permits a heavier deposit of lubricating film upon the throat where it is required most.

### Simple Installation

Installation of the Nathan Type MS Flange Lubricating Shoe is very simple - a single metal arm holds the shoe in correct position against the wheel flange. The combined weight of the shoe and its supporting arm keeps the shoe in contact with the flange of the rotating wheel. The side of the shoe parallel with and adjacent to the inside face of the wheel remains unworn and assists in keeping the shoe in correct alignment with the wheel.

### Minimum of four shoes per locomotive recommended



A minimum of four shoes per locomotive is recommended. For application of diesel locomotives in switching service, one shoe should be applied to each of the following wheel locations: right and left leading wheels of the front truck and the right and left trailing wheels of the rear truck.

### They stand up under heavy duty use

Replacement is not needed until the shoe has worn down to the point where the top of the flange touches the raised wear limit line cast on the two ends of the shoe. Life expectancy averages four to six months under severe service. The shoe is attached to the supporting arm by two 3/8" bolts thus making replacement an easy matter.

**Radiator Cooling Fans**



**Auxiliary Generators**



**Blower Motors**



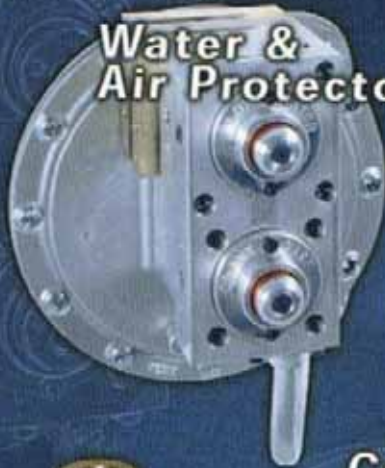
**Grid Motors & Fans**



**Fuel Pump Motors**



**Water & Air Protectors**



**Crankcase Monitor & Air Protectors**



**Hot Oil Sensor Rebuild Kits**



# Recirculating Toilets

## Advantages:

- Completely self-contained.
- 15 gallon capacity.
- Manually operated.
- Easily installed and serviced.
- Low maintenance.

## APPLICATIONS

- Rail

# Prime

Making a more productive locomotive environment



**PM118-15**  
(Plastic Bowl)

**PM118-15-1**  
(Stainless Steel Bowl)

