

# MGM Mamod Boiler Water Injection Valve

## MAMOD BOILER WATER INJECTION VALVE

This valve has been developed to enable the boiler to be fed with water while the locomotive is still in steam. When installed it allows the locomotive to run for an indefinite time and guards against the danger of a leaking gauge glass due to low water level.

It is designed to fit into the whistle bush and it is necessary to remove the whistle. To do this, first drill the head off the rivet securing the lever to the pillar and punch out the rivet and remove lever. Next bend pillar approx. 45 degrees from vertical which will allow a 3/8" A/F ring spanner to be used to unscrew whistle.

Screw valve into whistle bush using aluminium/copper washer used on whistle to seal valve to bush. Do not tighten the valve over tight - the bushes in a 'Mamod' boiler are only soft soldered in and over tightening will crack the solder.

An alternative position for the valve is the safety valve bush. If this position is chosen the safety valve must be screwed into the whistle bush.

## DO NOT ON ANY ACCOUNT OMIT SAFETY VALVE FROM BOILER

The valve can be used for filling the boiler when cold - no need to unscrew the safety valve. When the boiler is in steam the valve can be used in two ways:-

1. allowing the water level to drop to minimum position then refilling boiler in which case the locomotive will require a stop to build up pressure.
2. a frequent injection of approx. 5cc water which can be done without stopping the locomotive. This small quantity of water will not appreciably reduce pressure and the locomotive and train will keep running. Experiments show that 'Mamod' locos use 3-5 cc of water per 100' run.

After filling (when the boiler is under pressure) there will be a slight bubbling at the valve as the water trapped between the valve and inlet evaporates.

It is essential that clean feed water, preferably distilled water, be used as foreign bodies in water can cause valve to malfunction.

The valve also fits any modern 'Mamod' engine, with whistle and safety valve.

A replacement valve sleeve is supplied with the injector.