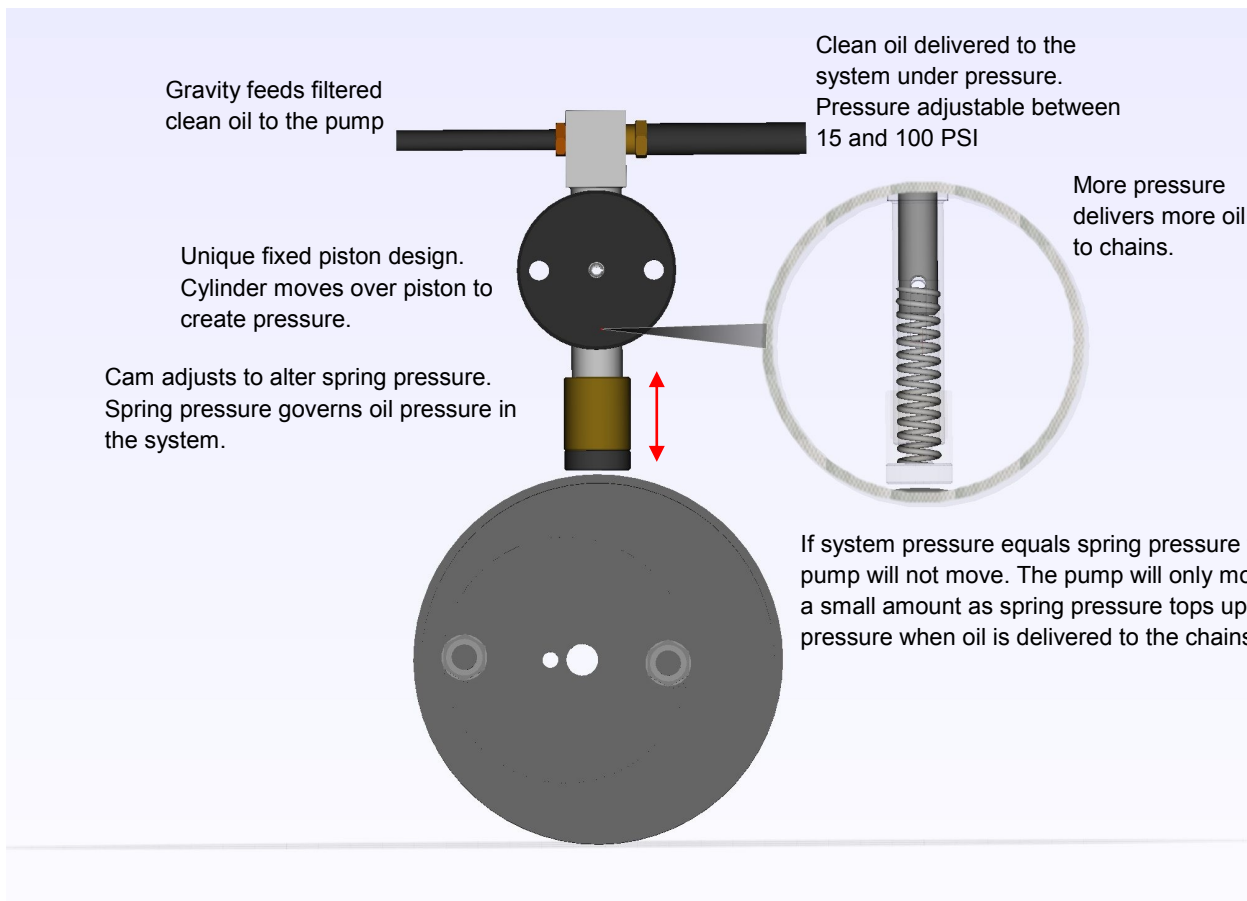




The Bignall Group of Companies

# Trouble Shooting Guide.

## Minimaster PMM2CD



Unit 15, Dabble Duck Ind. Est.  
Shildon  
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DL4 2QN

## MiniMaster

**The minimaster system** is purpose designed to offer adjustable amounts of oil to chains and sprockets to suit a variety of changing environmental conditions.

- System pressure governs overall oil output.
- System pressure is set by the adjustable cam that drives the pump.
- A range of different size meter units govern the ratio of oil to each chain.
- Meter units can be exchanged should more or less oil be required on any chain.

## Fault Finding

### **Fault: Insufficient oil to chains.**

Cam setting too low .

- Advance cam to higher setting to increase oil pressure in line, Monitor daily oil consumption.

Cam setting already on maximum, but oil consumption still too low

- If this condition has developed over time, it is likely that the metering system has become blocked by contaminants/incorrect oil/water in the oil.
- Meter valves may need to be replaced after the system has been purged of any contaminated oil.
- If this condition has always existed then it may be that local conditions call for more lubricant than the current capacity of the valves. Consult Masterlube and replace valves with larger sizes.

### **Fault: Pump is producing low or no pressure.**

- The pump can be observed to follow the cam at low speeds rather than hovering above the cam which is observed during normal operation.
- Contaminant may have entered the pump affecting the function of the non return valves.
- Remove the two valves from the pump, clean and replace using thread sealant.
- Rubbing pad which rides the cam has worn away.
- Replace with new pad part number : CDCAP

**Fault: Pump leaks**

Leak is from inlet or outlet :

- Remove fitting, clean and replace using thread sealant.

Leak is from centre roll pin or between body and cylinder

- Remove the cap and spring, press out the roll pin and remove the piston.

Clean all parts and re-assemble

- If leak persists strip down as above, carefully remove the O ring (do not use a metal tool for this as the piston may be damaged) Examine the piston groove for signs of wear and replace the piston assembly if necessary.

**Fault: Pump shows heavy signs of wear from side thrust:**

- Anti torque wear pad is worn or missing:
- Replace with new pad part No. CDCAP
- Anti torque wear pad is out of adjustment:
- Adjust to eliminate play without side load.

**IMPORTANT:**

- Always use clean oil
- Always use simple mineral oils
- SAE30 recommended for cold environments
- SAE90 recommended for warm environments
- Avoid chain oils, universal & multipurpose oils and all oils with additive packages.
- Ensure that water does not enter the reservoir.
- Remove the reservoir from the machine and clean thoroughly when replacing filter to ensure no contaminants enter the system.

# Warranty

MASTERLUBE SYSTEMS LTD. (The Company) guarantees its products to conform to their specifications and to be free from defects therein due to faulty workmanship or materials for a period of twelve (12) months from the date of delivery to the purchaser or from the documented date of installation which shall in no event be more than six (6) calendar months from the date of delivery.

There are no other warranties express or implied including but not limited to the warranties of merchantability and fitness for the particular purpose.

Some states do not permit the limitations of warranties.

The Company shall not be liable for any damages resulting in whole or in part, directly or in indirectly, as a result of any misuse, accident, negligence, or improper installation or adjustment.

The Company shall not be bound by or be liable for any affirmation of fact, promise, representation or inducement made by any agent, distributor, or reseller which is not embodied in this agreement.

In no event shall the company be liable for damages, regardless of the form of action, or nature of the claim, exceeding the costs of the products. In no event shall the company be liable for loss of profit, indirect, incidental, special, consequential or other similar damages arising out of the use of the products, even if the company has been advised of special circumstances of the customer or the possibility of such damages.

In any event the customer's sole and exclusive remedy shall be the repair or replacement of the product.

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