



# Mastermeasure



- **Made to order in capacities from 50ml to 25 litres or Imperial equivalent.**
  - **Hand operated.**
  - **Inexpensive and simple to use.**
- **Suitable for a wide range of applications.**
  - **Can be sited anywhere as electricity or air supply is not required.**

**Glenvale Packaging**

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# OPERATING PRINCIPLES

The 'Mastermeasure' consists of a calibrated chamber filled under low pressure or gravity head by means of a two way valve. When the liquid reaches a predetermined level it operates a float valve and flow ceases.

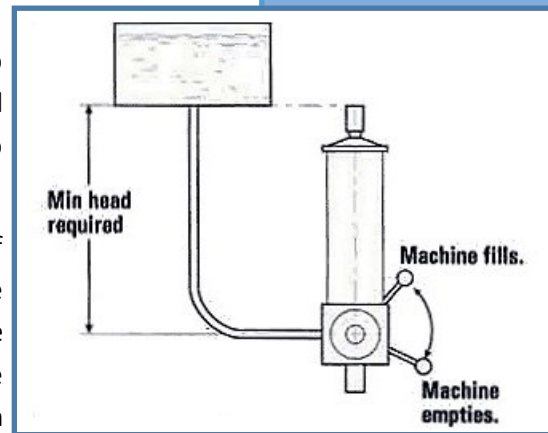
Depressing the handle repositions the valve to allow the measured quantity of liquid to discharge. The units operate in the vertical plane and can be adapted for operation in conjunction with pumps.

## ACCURACY

Since the liquid operates the shut off valve in a confined space, variation in measurement is minute.

'Mastermeasures' are adjusted to a + 1% of capacity or to specification. Machines can be made to dispense in all scales of volumetric measure and can be calibrated to dispense by weight.

No significant improvement results from large variations of supply head, the pressure increase often causing premature shut-off. Installations employing long lengths of flexible pipe or soft walled pipe should be avoided since these additional sources of flexure can create excessive oscillation of the float, which affects accuracy.



## APPLICATIONS

A 'Mastermeasure' exists for most applications, the MKII and MKIII models are designed for general purpose industrial use and the Junior Mastermeasure, with its stainless steel construction is ideal for dispensing small quantities, up to one litre, of any liquid.

Examples of liquids which have been filled through

'Mastermeasures' include:

- |                               |                               |
|-------------------------------|-------------------------------|
| ❖ Acetic Acid                 | ❖ Paraffin                    |
| ❖ Acetone                     | ❖ Pharmaceutical Preparations |
| ❖ Ammonia                     | ❖ Photographic Developers     |
| ❖ Aromatic Acids              | ❖ Polishes                    |
| ❖ Caustic Soda                | ❖ Rennet                      |
| ❖ Creosote                    | ❖ Sauces                      |
| ❖ Detergents                  | ❖ Shampoos                    |
| ❖ Disinfectants               | ❖ Sulphuric Acid              |
| ❖ Edible oils                 | ❖ Toluene                     |
| ❖ French Polish               | ❖ Veterinary Produce          |
| ❖ Fruit Juice                 | ❖ Wine                        |
| ❖ Hydrogen Peroxide           | ❖ Wood Preservatives          |
| ❖ Insecticides and Fungicides | ❖ Xylene                      |
| ❖ Methyl Ethyl Ketone         |                               |

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# JUNIOR Mastermeasure

The Junior 'Mastermeasure' can be supplied to dispense amounts from 50cc to 1 litre or any intermediate volume by the use of interchangeable glass cylinders. Machines can be modified to suit most user applications.

Junior Mastermeasures are manufactured from stainless steel to AISI 316, the valve is sleeved with PTFE and the visual cylinder is made from borosilicate glass.

The machine fills from the rear and requires the reservoir containing the product to be raised to a height equivalent to the height of the machine in order for the machine to operate satisfactorily. The feed is normally through 1/2" bore plastic hose and no pump or ancillary equipment are needed.

# MKIII Mastermeasure

The MKIII Mastermeasure is designed to satisfy the general industrial need for a simple, sanitary unit at an economic price. Its simple construction enables it to be easily dismantled for cleaning. All the contact parts are made from stainless steel to AISI 316. It has a PTFE sleeved valve and Borosilicate glass cylinder.

Interchangeable glass cylinder assemblies from 500ml to 25 litres or any intermediate capacity, are available.

The bag-in-box lifting and neck locating system for use with the Mastermeasure fillers. Particularly popular for soft drink concentrates and fruit juices.



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