

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.

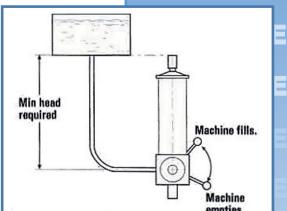
ACCURACY

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.

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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
- Acetone
- Ammonia
- Aromatic Acids Caustic Soda
- Creosote
- Detergents
- Disinfectants
- Edible oils
- French Polish
- ❖ Fruit Juice Hydrogen Peroxide
- Insecticides and
- Fungicides
- Methyl Ethyl Ketone

- Paraffin
- Pharmaceutical Preparations
- Photographic Developers
- Polishes
- Rennet
- Sauces
- Shampoos
- Sulphuric Acid
- Toluene
- Veterinary Produce
- ٠ Wine
- * Wood Preservatives
- Xylene

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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.







GENERAL INFORMATION

CAPACITY VARIATIONS

By interchange of cylinder assemblies one machine can handle a range of products and size of pack. Alternatively by differing lengths of cylinder glass the same versatility can be achieved. Whenever possible we recommend the change of cylinder assemblies, since changeover time is greatly reduced and the risk of glass breakage eliminated.

Small variations in capacity due to viscosity, special pack, etc., can be accommodated by the addition of volume adjustment rings under the float chamber. A range of these are available from 10ml to 40ml which can be fitted on site.

WEIR TYPR LEVEL CONTROL

For products having a high capacity to foam, the weir type liquid level control has proved to be successful.

In operation, the liquid rises in the Mastermeasure to pass through a narrow tube and overflow down the recirculating pipe.

Foam generated during the filling of the vessel can thereby be exhausted. A vacuum breaker in the cap ensures that when the handle is depressed for dispensation the product returns through the outlet spout from the rim of the tube in the overflow chamber. This gives a constant and very accurate measurement of volume. With this application a receptacle is necessary for the overflow product with means of recirculation.

It should be noted that this fitting is interchangeable with the standard float chambers and is available for all MASTERMEASURE models.

Note: A residue may remain below the overflow pipe. This should be removed by removal of the chamber and washout at the end of the work period or product run.

SPECIAL NOZZLES

Special nozzles are available to accommodate a variety of products with a tendency to foam. Drowned fill and side discharge nozzles have proved particularly successful. We will be pleased to undertake tests upon the supply of a product sample.



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