



Badger Meter Europa

## Preselection Register MV



For volume counting and volume preselection of industrial liquids.

### General

The preselection register MV is used in combination with the Badger oscillating piston meters for batching, filling and blending of industrial liquids. The register mechanism is integrated in a weater proof, robust aluminium housing. The register drive is available in a rear straight, inclined version and from underneath.

### Function

Five push buttons allow preselection of the desired batch quantity. The preset register and volume counter are coupled to the bare meter in the ratio 1:1.

The preset batch volume of the register remains fixed during the batch process. The preset register is closing the shut off valve after completion of the preset batch volume. To avoid pressure shocks when closing the shut off valve, especially at larger meter sizes above DN 32 the flowrate can be reduced stepwise in 3 presettable steps prior to final shut off. An emergency red stop button allows interruption of the batch process. For detailed description of the counter M, see bulletin MH-8608 – FM 33.

### Special features

For valve- and motorcontrol an explosion proof micro switch with prestep and final step closure can be incorporated in the register enclosure itself or mounted outside.

For pneumatical control a pneumatic switch with the same prestep and final step closure feature can be supplied.

For remote recording purposes a data output in BDC-code is available - 6 digits for volume recording and - 2 digits for measuring sites.

OP\_MV.doc

## Operation

By pulling the handle forward through 60 degrees and pushed back into its original position the tensioning mechanism is wound up.

This „state“ is indicated with „RED“ in the sight window right up in the dial plate. The preset register is now in preset position. The desired batch volume is now entered by pushing the preset buttons. When pulling the handle again forward the preselected numbers are stored in the preselection register and the volume counter is at the same time set to zero.

„GREEN“ in the right window indicates now that the unit is ready for operation. By moving the handle back again the switch shaft is operating either the mechanical mounted valve and/or the mounting switches, depending upon the meter assembly. The batch operation is now starting. After completion of the batch process the volume counter is set back to zero by moving the handle forward again. The original preset value is stored automatically in the preselection register if no new value is set.

## Technical data

### Preset register V

Presetting up to 99999 eng. units

Shut off in 4 presettable steps at 00019, 00009, 00003, 00000

Max. speed of 1<sup>st</sup> number wheel of volume counter M 300 U/min

Max. drive torque 40 Nmm

Rear drive straight, underneath or inclined

Drive ratio bare meter output shaft / 1<sup>st</sup> number wheel  $i = 1 : 1$

Weight appr. 10 kg

Drive direction clock – or anticlockwise

Technical data volume counterM, see bulletin MH-8608 – FM 33