

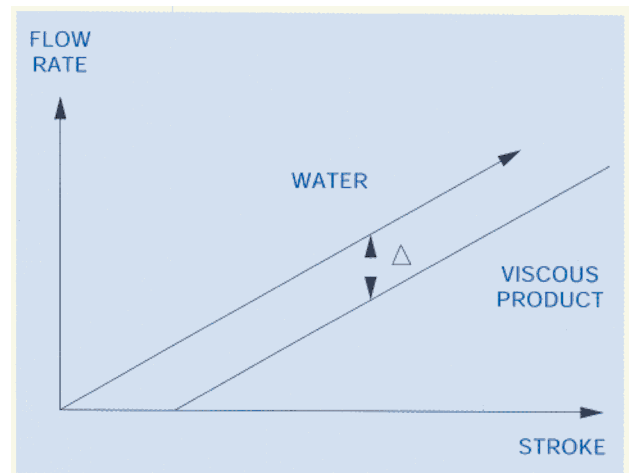
Calibration Pot

A dosing pump is generally used alone, without an associated flow meter.

The User must rely totally on the value displayed on the stroke-adjustment system, because the pump is, by definition, of the **Volumetric** type.



Photo: DINSI



The factory-established calibration curve may not reflect exactly the flow rate values obtained in-situ (Δ), in view of the nature of the liquid being pumped and/or the intake and viscosity conditions.

In this case, the **calibration pot** enables recalibrating the pump performances.

DKM division of Clextal can supply this accessory.

Photo 1: Plexiglas calibration pot

The **calibration pot** is installed on a tapoff of the intake line, downstream from a line valve, with an isolation valve at its foot and a vent valve at its summit.

Closing the line valve enables the measurement.

The pump then, takes its intake from the calibration pot.

The graduations enable monitoring the level of liquid, and the volume pumped in the time measured is recorded.

At the end of the test, the isolation valve is closed and the line valve re-opened. For safety reasons, the vent valve must be closed immediately.

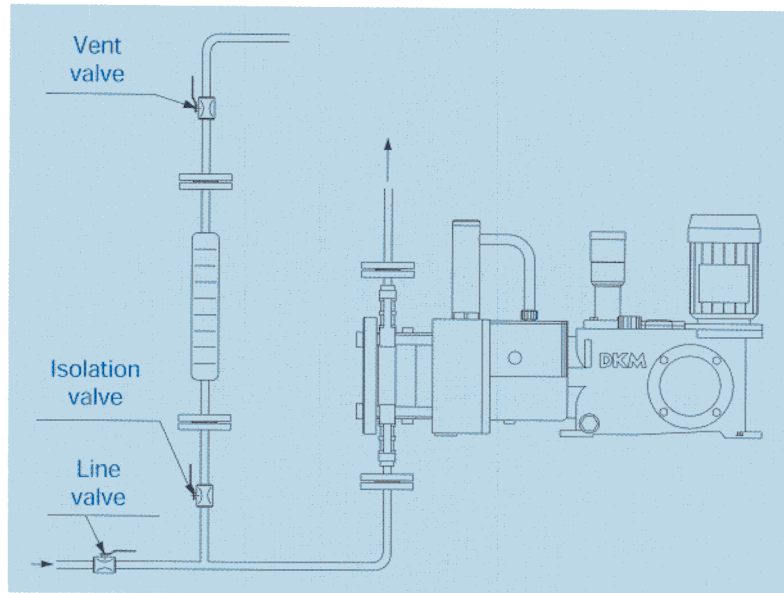
Several constructions can be envisaged:

- The calibration pot can be made of graduated PVC or glass, shielded against shock, for small flow rates and low intake pressures (photo 1), or
- It can be made of steel, with an external level indicator, for large flow rates and high intake pressures (photo 2).

It should be noted that in the case of heavy suction heads, the measurement having to be made at atmospheric pressure (vented), it will not take the overpressure influence into account. The calibration pot and its accessories (valves, level indicator) are nevertheless dimensioned taking into account the maximum intake pressure, to avoid risks in case the isolation valve remains opened.

Note: The need for venting during calibration pot fill-up and measurement shall lead to particular safety instructions and measures in the case of dangerous fluids.

Note: Valves are generally supplied as part of piping work but might be delivered by DKM on request.



Installation diagram for a calibration pot on a DKM dosing pump



Photo 2: Calibration pot for high flow rates and pressures

Photo: DKM

DKM, Division of CLEXTAL

1, rue du Colonel Riez - B.P. 10 - 42702 Firminy Cedex - FRANCE

Phone: 33 4 77 40 31 43 - Fax: 33 4 77 89 43 94

CLEXTAL - Registered office: Tour Framatome - 92084 Paris La Défense Cedex - FRANCE