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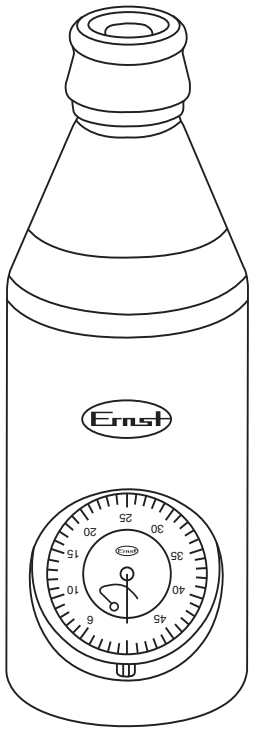
Control instruments for quality assurance
Top Load Tester (VDM)

- For setting and checking the top load of the closing heads.
- Chrome-plated execution with interchangeable mouth-device for pry-off crowns, twist-off crowns and screw caps.
- Aluminium adapters for different bottle heights and -diameters.
- Measuring range: 0-450 daN (kp)

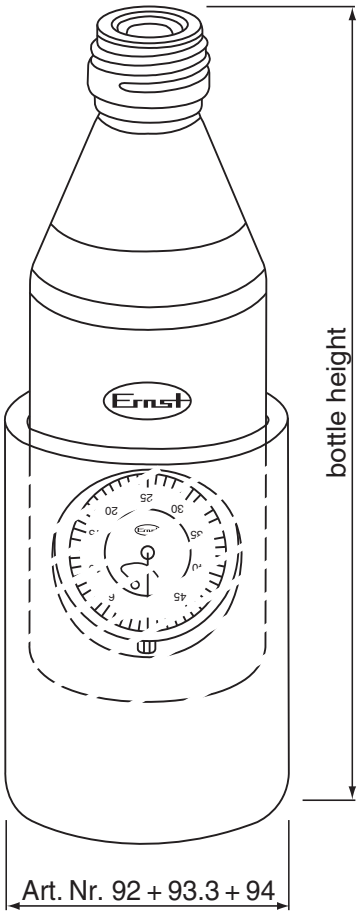
Article:	**Art.Nr.**
TOP Load Tester VDM	92
Interchangeable mouth-devices	
• for pry-off crowns / twist-off crowns Ø 26 mm	93.1
• for crowns Ø 29 mm	93.2
• for screw caps Ø 28 mm, BVS standard	93.3
• for screw caps Ø 28 mm, MCA and CH standards	93.4
• other mouth-devices available on request	
Adapter sleeves per bottle height / -diameter (Bottle drawing provided by customer)	94

Top Load Tester VDM



Art. Nr. 92 / 93.1

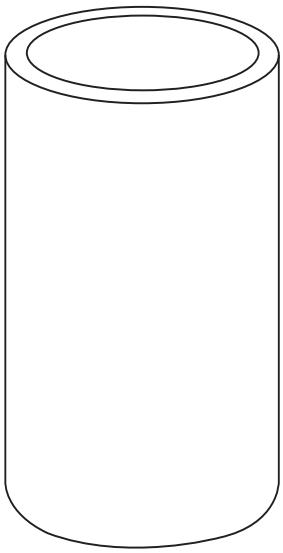
VDM with adapter sleeve



Art. Nr. 92 + 93.3 + 94

bottle diameter

Adapter sleeve



Art. Nr. 94

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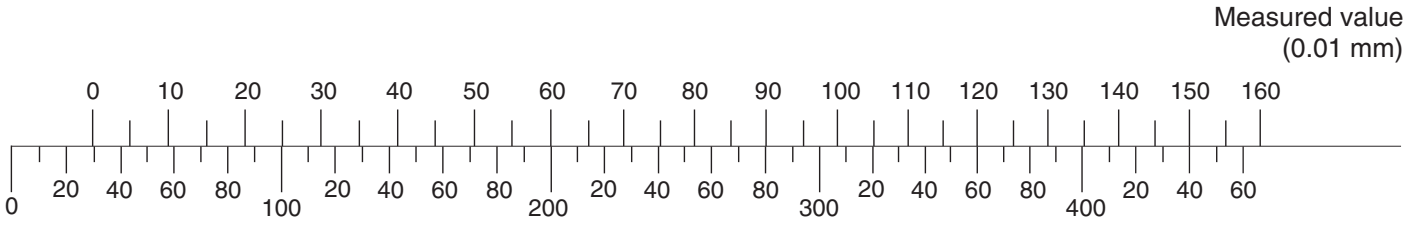
Control instruments for quality assurance
Top Load Tester VDM / operating instructions

If VDM corresponds in height and diameter to the glass bottle and runs through the closing machine under standard production conditions like the glass bottles, the precise top load can be determined for each closing head.

Warning: An incorrectly machine-setting (bottle height) can damage the VDM and closing machine.

1. **Bottle size**
   The VDM is supplied on request with the necessary adapter sleeves (Art. No. 94) corresponding in diameter and height to the bottle in use.
2. **Set dial gauge to ZERO**
   The pointer is set to its initial position by pressing the pin on the dial gauge at the bottom end of the VDM. The dial can be re-adjusted if necessary.
   Important: For each passage the gauge must be set to zero.
3. **Measuring procedure**
   Stop the machine which is running under normal production conditions. Place the VDM with adapter sleeve in place of a glass bottle between the filling and closing stations and restart the machine. Then remove VDM from the conveyor belt and read off the measuring data.
   Important: For each measurement a closure is to be placed on the mouth device of the VDM.
4. **Conversion table**
   Read the conversion table (conversion of measured value read from dial gauge to top load) as follows:
   • One graduation on the dial of the gauge corresponds to 0.01 mm.
   • One rotation of the large pointer measures 50 units. The small pointer indicates 1 = 100 units after the second rotation. This corresponds to a travel of the millimeter of the spring system.

Conversion table (example)

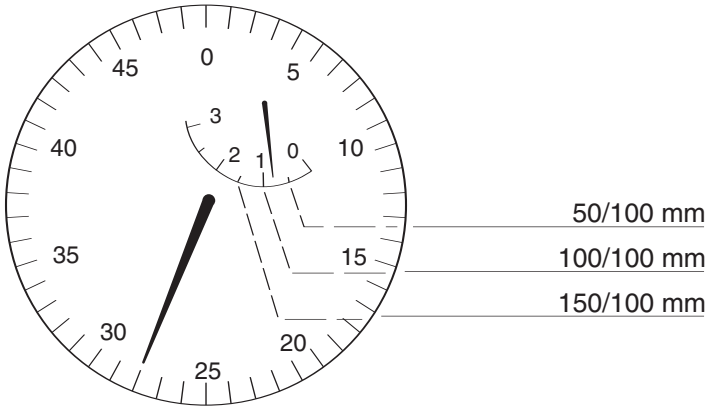


Example of a reading

Small pointer
between 50 and 100 = 50

Large pointer = 28
Total 50 + 28 = 78 = 0.78 mm

0.78 mm corresponds to 250 daN (kp)



Care instructions

- When not in use, keep VDM clean and dry.
- Dry VDM after use if wet.
- Apply low viscosity oil periodically to the measuring pin on the dial gauge.
- The VDM should be periodically cleaned and checked by user or by us.