Data sheet
mtv/dsm/e

BasicValve



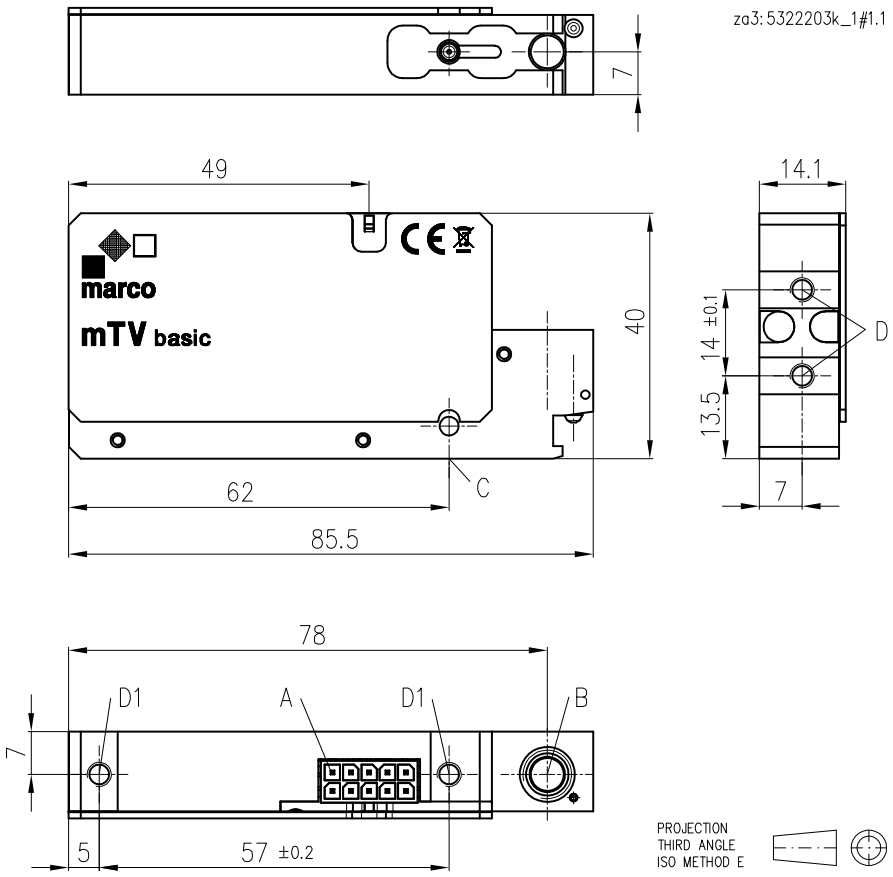
Figure 1: The **marco** BasicValve *mtv/dsm/e*

The *mtv/dsm/e* BasicValve consists of a valve drive together with a screw-in fluid body and an easy to fit valve seat for metering a range of media from low viscosity fluids through to high viscous or paste-like media. Media feed and dispensing are hermetically isolated from the valve drive.

The main component of the BasicValve is a piezo ceramic actuator. The movement of the actuator is transmitted to a rod which actuates the valve seat and opens or closes the integrated sealing seat to dispense the medium.

Parts in contact with medium which become contaminated or worn can be exchanged easily and quickly. The modular valve drive itself is largely maintenance and wear and tear free.

The BasicValve is connected to the *mtv/ehm/e* control electronics via a single cable with a 10-pole connector.



A	Electrical connection cable
B	Fluid inlet port
C	Outlet position of fluid droplet
D	Threaded mounting holes M4, 6 mm deep
D1	Threaded mounting holes M4, 5 mm deep

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Dimensions (L x W x H)	85.5 mm x 14.1 mm x 40 mm
Weight	188 g
Mounting	See figure 2: D = M4, 5 mm deep D1 = M4, 6 mm deep tightening torque 2.7 Nm max
Media supply	B: M10x1
Electrical connection	A: 10-pin connection to *mtv/ehm/** driver box
Optional extension cable	Variations in lengths from 1 m to 9 m, drag chain or torsion suitable see data sheet *mtv/ca**
Protection class	IP54
Storage temperature range	-10 to +85 °C

Requirements for maintenance and cleaning

- Insertion of the valve seat is only permitted when the operational position is set to ”open”
- When cleaning or servicing, it must be ensured that no liquid enters the valve drive; immersion in solvent is not permitted
- The retaining pin is to be removed for cleaning or exchange of parts

Service life and maintenance

When operated in accordance with our instructions, valve drives have no medium contact and do not become worn so do not require any maintenance.

If required, the mode of operation and mounting conditions must guarantee sufficient continuous heat dissipation. Overheating (excessive burst operation or external accumulation of heat), blockages or lack of care in operation can considerably reduce service life. A qualifying test carried out in actual dispensing process conditions is essential in determining service life expectancy.

Order number	Description
mtv/dsm/e	BasicValve