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## OPERATING INSTRUCTIONS

**Manufacturer**

deltaVision GmbH  
Hofmannstr. 50  
81379 München  
Germany

**Product**

Solenoid valve E1a



## SAFETY



### SAFETY

Strict compliance with these operating instructions is essential for the safe and enduring use of this product. No warranty is given in case of non-compliance with the operating instructions or improper handling of the product. This product is intended exclusively for use with the fluids specified in the data sheet. Use of the product under conditions not specified in the data sheet or contrary to the instructions contained therein is understood to be IMPROPER. The manufacturer assumes no liability for damage or loss resulting from improper use of the product.

**No warranty is given in case the customer would open the product without prior agreement of deltaVision.**



### WARNING

- The generally applicable safety regulations must be observed when planning, installing and using the product.
- Appropriate measures must be taken to prevent unintentional incorrect handling or damage to the product.
- Valves or connections in the system must not be unscrewed or dismantled under pressure. Before dismantling pressure lines, make sure that they are depressurized.
- Before any intervention in the system, the supply voltage must be disconnected

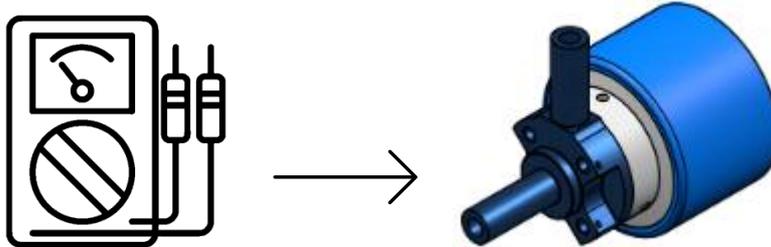


### DANGER

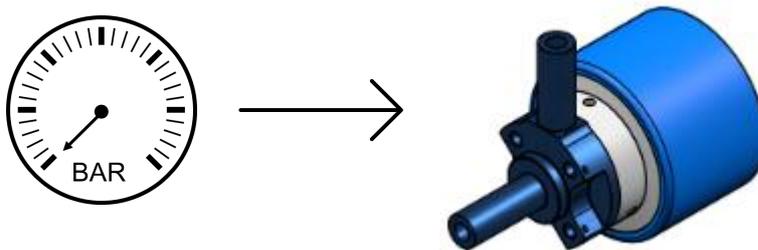
Risk of injury! The coil can reach high temperatures during operation. Do not touch the valve during operation. Allow the valve to cool down after operation before touching it

## INSTALLATION

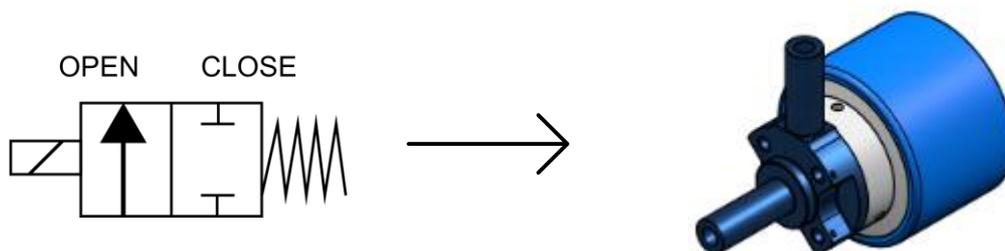
1. Switch off the power supply before installation.



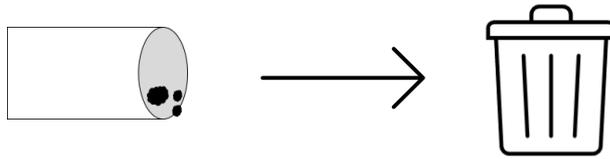
2. Release the pressure of the system before installation.



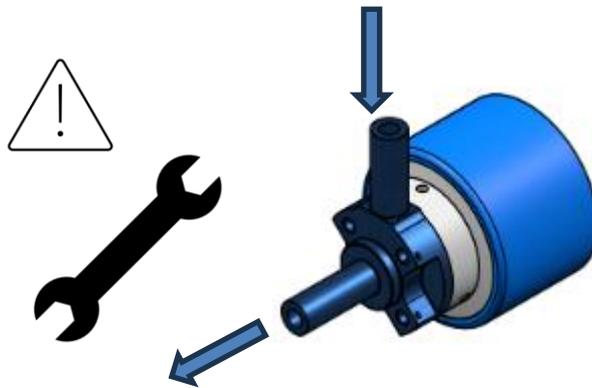
3. Check the switching position of the valve before switching on and applying pressure.



4. Clean Pipes before installation



5. Install pipes on the valve. The inlet and outlet are made to be compatible to a standard 3/8 inch fitting. It is recommended to use tube fittings like Swagelok. The installation specification for these fittings is provided by the fittings supplier.



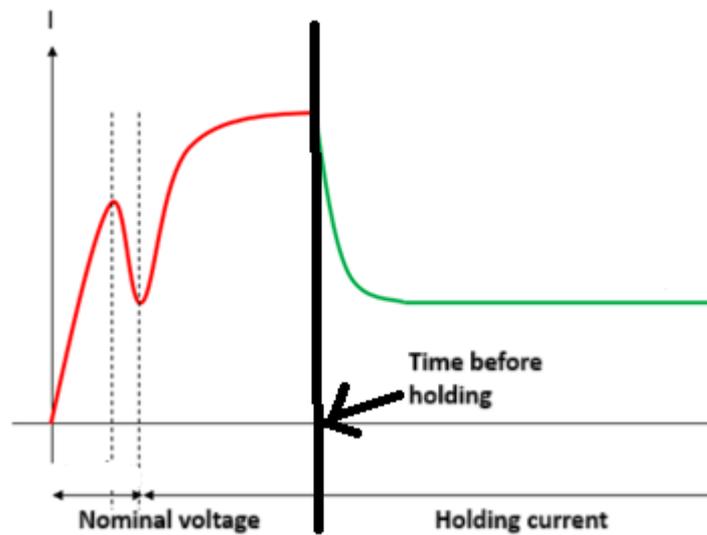
6. It is recommended to install a filter of 20 microns upfront of the valve to avoid valve contamination.

7. Connect the electrical supply cables to the valve. Do not pay attention to any particular polarity. Special care must be taken to avoid kinking/breaking of the cables.  
**The cables can withstand maximum 250 strokes with 500g weight.**



## USAGE

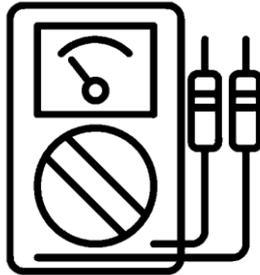
1. Open the valve by applying current as recommended in the datasheet. **Bi-level actuation with nominal voltage for the duration recommended in the datasheet and afterwards holding current is recommended. Avoid valve temperatures above 70 °C.**



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## TROUBLESHOOTING

1. Check the cables and power supply.



2. Check the pressure in the pipings.



3. Check the piping for contamination.



4. For measuring the pressure drop/Kv of the valve, make sure that any elbow placed after the valve is placed at a distance of minimum 5 times the nominal diameter of the valve.

**Caution:** Valve may reach surface temperatures over 70°C if operated above holding conditions for prolonged amounts of time. Cool down 5 minutes after operating at max. current supply duration.