



Beta Valve Systems Ltd

Valve Installation Guide

Pre Installation Checks

Before mounting the valve it is essential to check that the solenoid valve model, the Voltage (Volt) and the frequency (Hz) correspond to the characteristics required. It is also a good idea to check that the seal material is suitable for use with the media of the specified application.

A ~ Installation

1. The valve needs to be fitted so that the flow is in the correct direction. This is indicated with an arrow on the valve body or the ports may be detailed in, out, or numbered 1, 2 etc.
2. If the valves are provided with caps for protecting the connections, make sure that these are removed before assembly.
3. Care should be taken to prevent foreign matter from entering the valve during the fitting, e.g. dirt or pieces of seal material such as PTFE tape from the "external thread" connections.
4. Although most valves can be used in any position, (check the makers data sheet), the inverted position is not recommended since possible sealing dirt and particles could become trapped inside the armature tube causing malfunctioning, noise and more.

TOP TIP When installing the valve make sure that the position and surrounding space are sufficient to allow for possible future maintenance or replacement of the coil.

5. **Never** use part of the tube or the coil itself as a lever during the tightening phase: this could cause irreparable damage to the valve

TOP TIP In those installations where impurities, rust, dirt or deposits of any type may be present in the fluid, it is advisable to mount a filter upstream of the valve.

6. In case of solenoid valves with holes drilled for supports, use must be made of these as supplied without modifying the holes or anything else on the valve body. Care should also be taken that the screws used are not so long as to damage the valve body

For solenoid valves with connections to be welded, please refer to paragraph C ~ Working Temperature.

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B. ~ Electrical Connections

1. Before connecting the coil to the electrical supply, make sure that the voltage conforms to the supply voltage.
2. Where applicable the earth terminal **must** be connected.
3. The coil should **not** be energised before being installed on the valve since this could cause it to burn out.
4. When applicable, rotate the coil to the most suitable position, loosening and subsequently tightening the upper nut. The upper nut is only required to be finger tight.

C ~ Working Temperature

1. It is normal for the coil temperature to increase during operation.
2. Care should be taken not to install the valve near a source of heat or in environments where there could be a disruption to the dissipation of heat produced by the coil. *For special conditions, e.g. high temperatures or particular safety regulations please consult our catalogue or our Technical Office.*

These general instructions give an approximate idea of the correct use of the solenoid valves but cannot in any way be considered as a complete guide giving all the characteristics of every solenoid valve. Please consult the datasheet for the specific valve or our technical office for any new installation.

