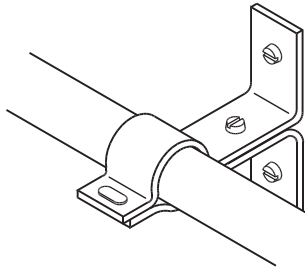
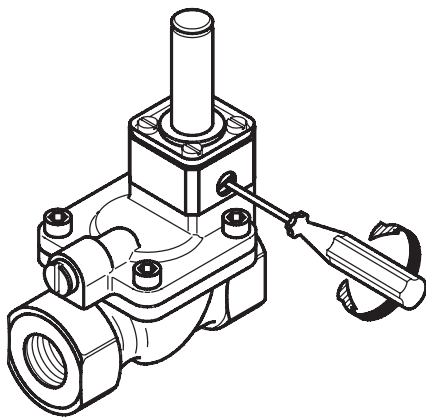


Pipe



The pipes on both sides of the valve must be securely fastened.

Test pressure



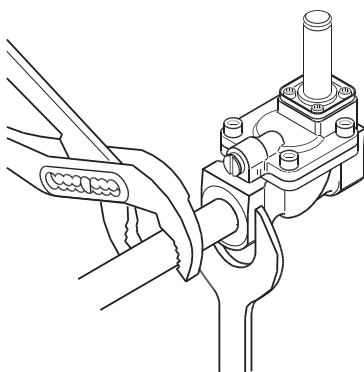
When applying test pressure: All valves in the system must be open. There are three ways of doing this:

1. By applying voltage to the coil
2. By opening the valves manually (when the manual override accessory is fitted)
3. By connecting the Danfoss permanent magnet (see Tools, page 42)

Note that the manual opening unit is **not** supplied as standard, but as an accessory for EV220B 15–50 valves (see page 33).

Remember to screw the opening unit back (CLOCKWISE) before starting up the system, otherwise the valve cannot close.

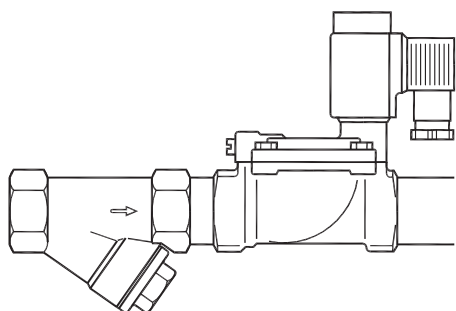
Tightening up



Always use counter-force when tightening up pipe connections, i.e. use a spanner on both the valve body as well as on the pipe connector (as shown).

Dirt in the system

Always flush out piping before installing a solenoid valve. If there is dirt in the medium, a filter should be installed ahead of the valve.

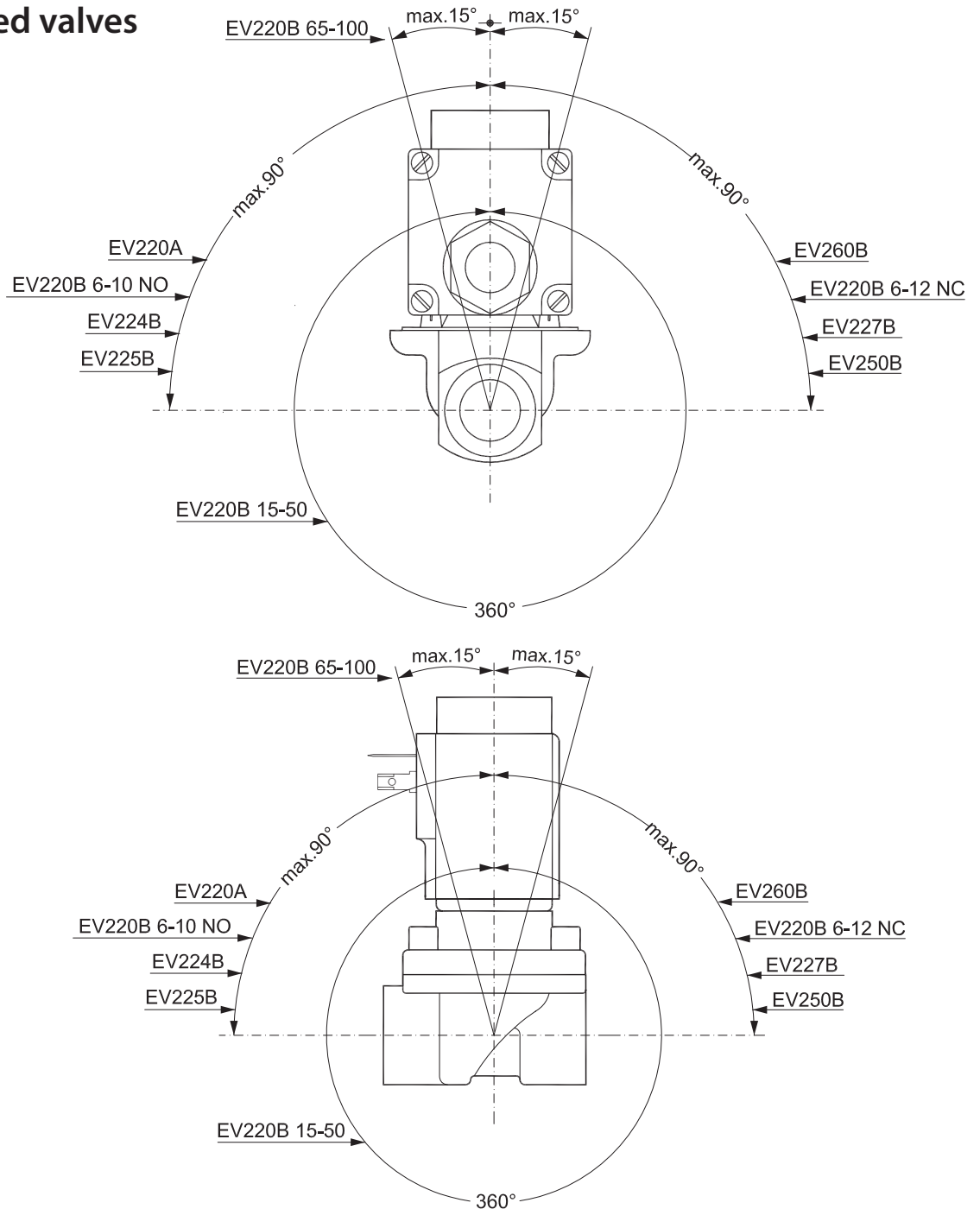


Installing the coil

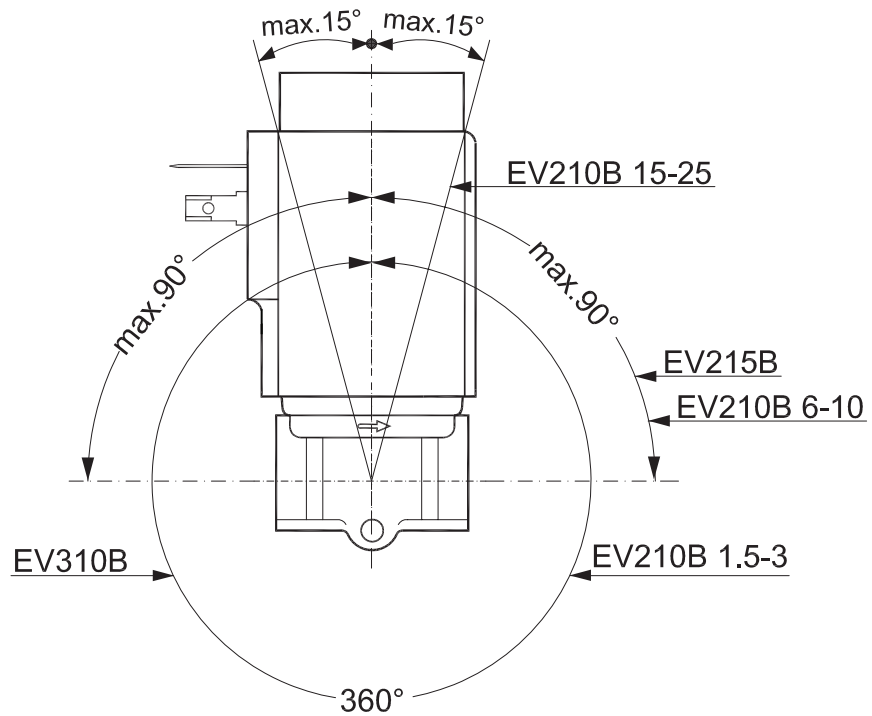
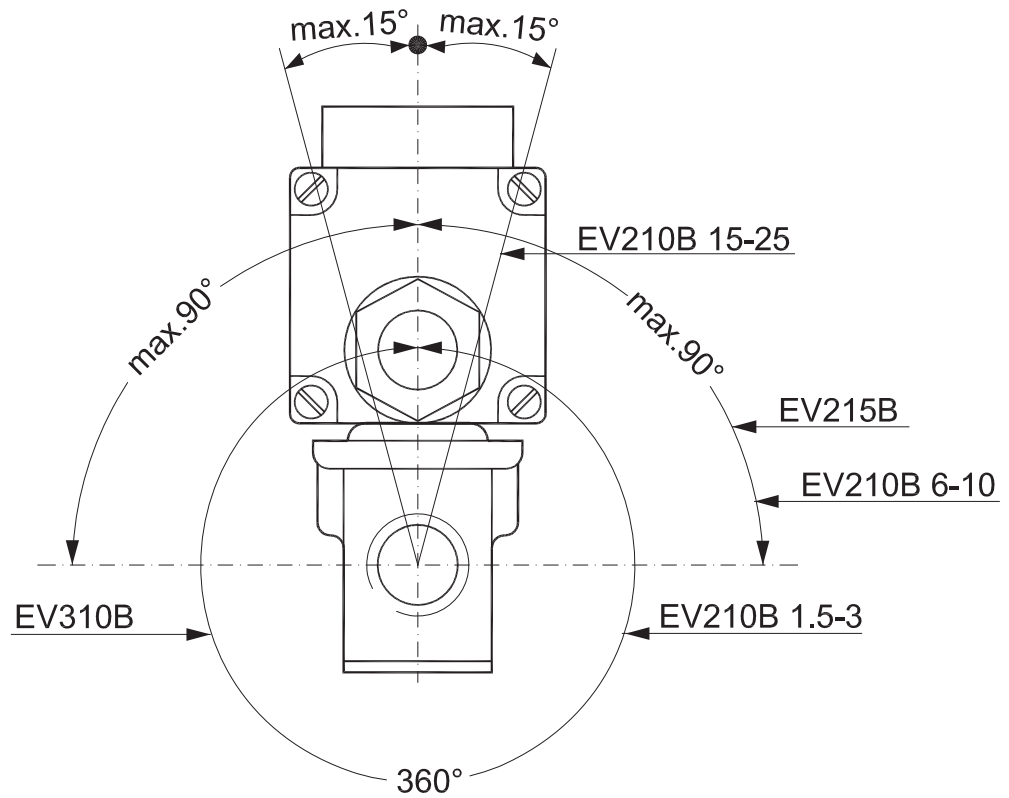
Danfoss recommends that the solenoid valve be installed with coil upwards. This minimises the risk of dirt collecting in the armature tube.

If "clean" media is used, i.e. media containing no dirt particles, the solenoid valve will operate when installed in the orientation as shown below.

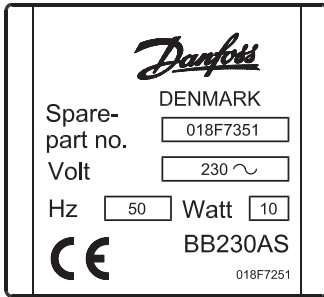
Servo-operated and assisted lift servo-operated valves



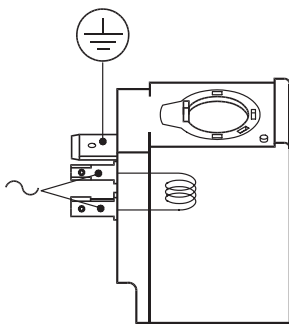
Direct-operated valves



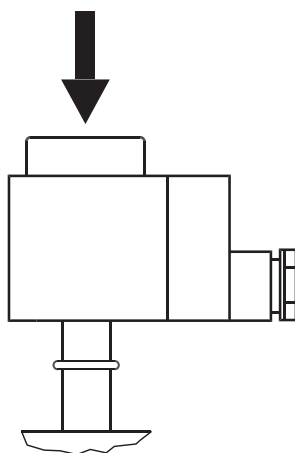
Coil



Check to ensure that the coil operating voltage is correct (see text on coil, in “Volt”). Also ensure that the data is correct (voltage and frequency) and matches the supply. If the two sets of data do not correspond, the coil might burn out. As far as possible, always choose single-frequency coils; they give off less heat than double-frequency versions.



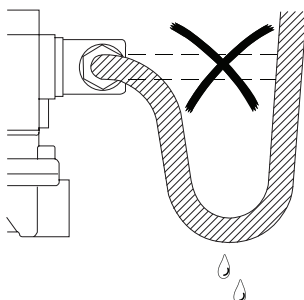
The coil has three pins. The middle pin is marked according to the illustration (left) and must be used for earthing. The two other pins are coil terminals and either can be used for the phase or neutral supply. The terminals can be used respectively for phase and neutral as required.



Please note for high performance range!
When mounting the clip-on coil, simply press it gently onto the armature, until it clicks into place. An O-ring should be fitted over the armature tube before fitting the coil.

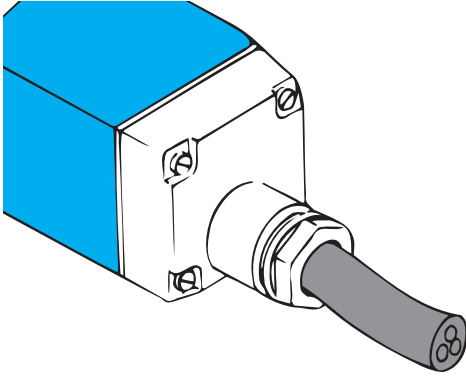
Cable entries must always be screwed in correctly.

Cable connection

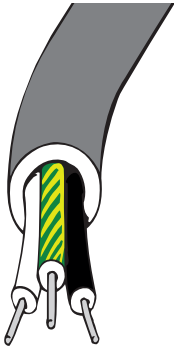


The cable must be installed as shown in the illustration to avoid water running into the terminal box.

Cable

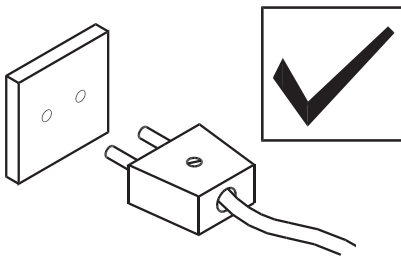


To avoid moisture penetrating in the terminal box, the whole cable diameter must be secured in the entry. For this reason, always use round cables as they are the only type that can be effectively sealed.



Note the colours on the cable leads. Yellow/green is always earth. The other leads should be for the phase and neutral supply.

Coil replacement



Please note for clip-on coils:
When replacing a coil, use a screwdriver to lever it from the armature.

Caution: Before removing a coil, voltage must be disconnected, otherwise the coil will burn out.

