Installation:

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There are different versions of the Assured Automation Angle Valve, depending on the operating mode, the chosen valve combination and the preferred flow direction. For this reason it is necessary to carefully read all the information contained on the label. In particular: Temperature of media, pressure (both controlling and intercepting pressure) and direction of flow.

Before beginning to install the valve, it is best to de-pressurize the system, clean the pipes carefully from any residue, dribble or welding residue, to avoid any damage to the seal. Then connect the pipes according to the reference points (flow direction) found on the valve body. Depending on the kind of employment, slightly lubricate the male end of the threaded pipe; do not lubricate the threading on the female end of the pipe. In order to tighten it, do not use the valve as a support. Do not over-tighten. Angle Valves can be installed in any position, because the adjustable control head that can turn 360° to facilitate access to the control ports. The connection to such ports (power supply and discharge) depends on the valve model (whether it is N.C or N.C. or D.A.) and must be carried out following the appropriate procedure for each version. Installation must be carried out by qualified personnel.

Assured Automation will not be held responsible for any damage or injury to people, things, or animals, due to improper use of the product and declines any responsibility on repairs performed by third parties.
**Maintenance:**

⚠️ *Before Proceeding!*

1.Ascertain that the nature of the media is not corrosive, flammable, or polluting, or in any way dangerous.

2. Before taking the valve apart, make sure that there is no pressure in the system, both before and after the position of the valve. It is best to isolate the valve during maintenance.

3. Before starting any procedure:
   - put on protective eyewear
   - put on overalls, gloves, and helmet
   - ensure that there is running water available nearby
   - position the correct fire extinguisher (depending on the media) nearby, if the media contained in the valve is flammable.

The maintenance of each valve depends on the conditions of its application. Valves should be cleaned and serviced regularly. During each procedure, it is necessary also to check the state of each component to make sure that they are not worn out. Intervention is essential when one of the following happens:

- Unusual noises
- Reduced flow rate (under normal pressure)
- Dripping
- Increased pressure drop

If any of these occur, the body of the valve must be taken apart, the inside carefully cleaned, and any damaged part replaced.

Preventative Maintenance

- Test the valve at least once a month to verify that it opens and closes correctly
- Regularly verify the state of all connections for both incoming and outgoing media.

**Replacement Parts:**

The essential spare parts for all Assured Automation angle valves are supplied in a SPARE PARTS KIT. It includes a sleeve gasket, plug and plug pin.

1. Unscrew the actuator sleeve from the valve body.
2. Take the plug pin out.
3. Extract the plug from the stem and clean all accessible parts.
4. Change the plug.
5. Replace the plug pin, caulking it.
6. Change the sleeve gasket.
7. Screw the actuator sleeve back onto the valve body. Check that there is no internal or external leaking and that the valve is functioning correctly before returning it to service.

**Accessories:**

**Stroke Limiter**

Setting the Open Position of the Valve Stem

1. Loosen nut B in order to release the stem.
2. Adjust the height for the stroke limiter by screwing nut A to the desired location.
3. Screw nut B on to fix the stem.

Please note: Part C must not move

**Functional Diagrams:**

- Normally Closed
  - Bi-Directional Flow
  - Flow from Above
- Normally Open
  - Flow from Below
- Double Acting

**Steam Always 1 to 2**

**Replacement Part Kit Numbers**

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