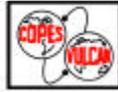


The design and manufacture of Copes-Vulcan control valves and desuperheaters have been assessed to comply with the requirements of Annex III, Module H of the Pressure Equipment Directive 97/23/EC, Schedule 4, Module H of the Pressure Equipment Regulations 1999 and Annex I, Internal Control of Production, and Annex J, Unit Verification of the ATEX Directive 94/9/EC.

Copes-Vulcan equipment is designed for use with gases and liquids within groups 1 and 2, with category assessment up to 4.

General

1. Design pressures, temperatures and ratings are displayed clearly on the equipment nameplate and are not to be exceeded. Using the equipment above the stated designed pressure or temperature could result in failure.
2. The equipment is to be used only for the media that it has been designed for. Using the equipment for media it has not been designed for could result in failure.
3. The equipment should not be used as a means of support for any other equipment or pipeline.
4. Pressure pulsation from close proximity to reciprocating machinery is to be kept to a minimum.
5. Vibrations and surges that may affect the equipment are to be kept to a minimum.
6. The equipment is to be installed and maintained by suitably trained personnel. Appropriate safety procedures and protective equipment should be used when installing, maintaining or working close to other pressurised equipment.
7. Never attempt to remove or carry out maintenance on pressurised equipment.
8. Always refer to the bolting up sequences and torque figures in the manual provided when installing or maintaining equipment.
9. Copes-Vulcan control valves and desuperheaters do not require lubrication.
10. When installing the equipment ensure that the direction of the flow of the fluid is correct, as indicated on the equipment body.
11. Foreign matter in the pipeline may cause damage to the equipment, ensure all pipelines have been thoroughly cleaned before installation.
12. The surrounding area must be well ventilated to avoid hazards from fugitive emission of vapour or gas.
13. Tools used during maintenance must not give rise to sparking to avoid potential explosion hazard.
14. For specific instructions regarding assembly, maintenance and adjustment refer to the manual provided with the equipment by Copes-Vulcan. Failure to follow these instructions could lead to damage or failure of the equipment.



Handling and Storage

1. The equipment must be stored undercover in the original packaging in a dry place and only removed from crates shortly before installation. For extended storage (over 12 months) notification is to be given to Copes-Vulcan and instructions will be provided.
2. Before unpacking the equipment make sure weight and dimensions are known by referring to the drawings in the manual provided. On larger equipment lifting points are provided. On smaller equipment, sling and lift in an appropriate manner. If specialised lifting gear is required contact Copes-Vulcan for instructions.
3. Do not use any equipment that has been damaged in transit or storage.
4. Ensure sufficient clearance is provided above the equipment for dismantling the actuator and removing the equipment internals. This will minimise the risk of causing damage during maintenance. In the case of large equipment sufficient clearance may also be required for lifting gear above the equipment.
5. Care is to be taken when removing protective caps prior to installation, to ensure that foreign bodies do not enter the equipment. All caps, discs and plugs to remain in position until the relevant connection is to be made.

Actuators (When Fitted)

1. Eyebolts on the actuator are for the fitting and removal of the actuator from the equipment when installed in the pipe line. Do not use them for lifting complete valve and actuator assemblies.
2. Pneumatic supplies to actuators and controllers are to be clean and dry. Adequate filters and pressure regulators should be installed on the airlines.
3. Before any maintenance is carried out the equipment should be isolated and depressurised. All pneumatic and electrical supplies are to be isolated except when specifically required to carry out actuator tests.

Aftermarket and Service

Service technicians are available to assist with installation, commissioning and any field problems. To request assistance contact Copes-Vulcan at the address shown below.

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