

Series DCV, Disk Check Valve User Instructions

Scope:

These user instructions are applicable for Generant Series DCV, Disc Check Valves, in 1/8", 1/4", and 3/8" NPT sizes.

Intended Use:

The intended use of these valves is to limit reverse flow in a given system, and the design is optimized for sealing in low pressure applications. These products can be used with the following media: Inert gases, Oxygen, potential oxidizer gases > 21% Oxygen, and Hydrogen. When intended use is for Oxygen and/or oxidizer gases >21% Oxygen, valves must be specified to be "Cleaned for Oxygen service" and will be supplied heat-sealed in poly bags. Proper seal material selection is important to ensure compatibility with intended media.

Technical Data:

Series DCV Check Valves are 100% factory tested for leakage in the backflow direction. Series DCV Valves are marked with Manufacturer, Direction of Free Flow, Maximum Pressure, and Seal Material.

Operating Parameters:

Leakage in Check Direction: Zero @ >5 PSI Backpressure

Temperature Range: -40°F to 210°F (-40° to 100°C)

Cracking Pressures: < 1" H₂O (water column)

Note: Mounting orientation should be considered in the system design.

⚠ WARNING

Generant Series DCV Check Valves are supplied, assembled, and tested. Valves that are supplied "Cleaned for Oxygen Service" from the factory are supplied heat sealed in poly bags. Once removed from the bag, integrity of this cleaning has been compromised. Proper handling should be used to ensure the integrity and cleanliness of the system.

Installation Instructions:

1. Be sure to install Disc Check Valve with Arrow facing in the free flow direction.
2. Teflon tape or other thread sealant should be used to seal the connection between the Disc Check Valve and the piping system.
3. When tightening the Disc Check Valve into the system, be sure to hold the Hex on the Disc Check Valve closest to the Connection.

Safe Component Selection

When selecting a component, the total system design must be considered to ensure safe, trouble-free performance. Component function, materials compatibility, adequate ratings, proper installation, operation, cleanliness and maintenance are the responsibility of the system designer and user.