



Series OPC One Piece Check Valve User Instructions

Scope:

These user instructions are applicable for Generant Series OPC, One Piece Check Valves sizes 1/4" and 1/2 " (Connection Type NPT)

Intended Use:

The intended use of these valves is to limit reverse flow in a given system. These products can be used with the following media, Inert gases, Oxygen and potential oxidizer gases > 21% and Hydrogen. When intended use is for Oxygen and oxidizer gases >21%, 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 insure compatibility with intended media.

Technical Data:

OPC Series One Piece Check Valves are 100% factory tested for leakage in the backflow direction. Series OPC Valves are marked with Manufacturer, Direction of Free Flow, Seal Material and Nominal Cracking Pressure. Operating parameters are listed below:

Leakage in Check Direction: Zero @ >.5 Psi Backpressure
TFE seals may require higher backpressure to seal bubble leak-tite.
Temperature Range: -80° F to 450° Fahrenheit (elastomer dependent)
Nominal Cracking Pressures: 0.3, 1, 10 & 25 Psi (0.02, 0.07, 0.7 & 1.7 Bar)
Maximum Operating Pressure: 3000 Psi (206 Bar)

Note: Mounting orientation should be considered in the system design when using valves with 0.15 Psi Nominal Crack Pressure.

⚠ WARNING Generant Series OPC One Piece Check Valves are supplied assembled, preset 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:

1. The system should be flushed of any potential debris or contamination before installation of the One Piece Check Valve to ensure no foreign material will interfere with the seal.
2. Be sure to install One Piece Check Valve with Arrow facing in the free flow direction.
3. Teflon tape should be used to seal the connection between the One Piece Check Valve and the piping system.

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.