Series IRV Brass, Industrial Relief Valve
User Instructions

Scope:
These user instructions are applicable for all Series IRV Brass Industrial Relief Valves.

Intended Use:
The intended use of these products is to protect against over pressure in a given system. These products can be used with gases and liquids compatible with the materials of construction including, but not limited to: Hydrogen, Carbon Dioxide, and liquefied natural gas. For use with oxygen and potential oxidizer gases > then 21%, valves must be ordered with the "-X" suffix indicating cleaned and packaged for Oxygen Service.

Technical Data:
IRV Brass Series valves are supplied preset, 100% factory tested, and permanently staked to prevent any adjustment of the pressure setting. Every IRV Brass Relief Valve is engraved with the full part number, set pressure, and date of manufacture.

Operating Parameters:
Set Pressure Tolerance: +/- 5%
Temperature Range: -320° to 375° Fahrenheit (based on seal material)
Nominal Set Pressure Range: 10 - 750 PSI (0.69 - 51.7 Bar)
Full rated flow by 110% of Set Pressure

Maintenance:
These valves are factory preset and are NOT to be tampered with in the field. These products do not require maintenance. If valve becomes visibly damaged or corroded, or if the inlet orifice becomes contaminated with particulate, the valves should be discarded and replaced.

⚠ WARNING

Generant Brass Industrial Relief Valves are shipped from the factory individually heat-sealed in poly bags. Proper handling should be used to ensure the integrity and cleanliness of the entire system.

Installation Instructions:
1. All Series IRV Brass relief valves are 100% factory tested for leakage before crack, flow, and reseal performance.
2. The piping system should be complete before installation of the relief valve.
3. All upstream piping and connection ports must be free from particulate contamination that is naturally generated during the assembly of the piping system. This should be accomplished by purging the system with clean, dry nitrogen gas. Visually inspect the port for cleanliness.

For NPT Connections Only:
4. Teflon tape should be used to seal the connection between the relief valve and the piping system.
5. Beginning with the first thread, wrap tape in the direction of the male tapered thread spiral, and join with a slight overlap.
6. Make sure tape does not overhang the first thread, as the tape could shred and get into the system.
7. Cut off excess tape. Draw the free end of the tape around the thread tautly so that it conforms to the threads. Press in firmly at the overlap point. The connection is now ready for makeup. If any additional pipe sealant is being used (i.e.: pipe dope or Swak). **Do not** apply it to the first thread of the valve.
8. Thread the valve into the connection port hand tight. Using a 7/8" open-end wrench, tighten the valve an additional 3/4 to 1 full turn.

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.

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