



# Self-Contained Relief Valve Maintenance Record

## Relief Valve Records Instructions

- Tag:** Common Valve Label (e.g., V-21, V-B, etc.) Tag should match label on the "Capacity Review of Relief Devices" and on the actual valve in the field.
- Station:** Station name.
- System:** Describe system where the relief valve is located (e.g., main gas relief protecting Line 131, gas rack no.1, compressor fuel gas).  
**Note:** With the Tag and Station names and the System description, the identification and location of the relief valve must be clear.
- Bar ID:** PLM bar ID.
- PID:** P&ID, elementary drawing, or operating diagram. If none available, enter N/A.
- Blk.:** The coordinates on drawing; such as, A5, B3, etc. PG&E P&ID drawings have alphanumeric characters on the left and top sides to help locate items. If none available or not applicable, enter N/A.
- Conn.:** Connections.
- Type:** Screwed or flanged. Note: Some reliefs do not have outlet connections; enter N/A.
- Maximum Permissible Downstream Pressure (MPDP):** This number should agree with the Maximum Permissible Downstream Pressure listed for item 2 "Station Pressure Conditions," Part II of *Capacity Review of Relief Devices* (see GS&S H-70, "Pressure Relief Devices"). Typically, the MPDP is the lower of MAOP plus 10% or pressure to produce the pipe stress of 75% SMYS.
- MAOP:** Use the P2 value in the "Capacity Review of Relief Devices".
- Annual Capacity Review Required:** Box should be checked for reliefs requiring annual capacity calculation review.
- Maximum (Relief) Set Pressure:** Enter value. This value is usually determined based on UO Standard 4125.2, "Establishing Setpoints on Overpressure Protection Devices." (This number should agree with the value listed in "Maximum Pressure Setting," Part II of *Capacity Review of Relief Devices*, under "Relief Device(s) Protecting Lines of System Described Above.")  
**Note:** This set pressure has been established to ensure that the relief valve will reach its required capacity before the system exceeds the maximum permissible downstream pressure.
- As Found (Setting):** The initial "As Found" condition should be observed and recorded in this box. Once the relief valve is exercised, the pressure that trips the relief valve will probably change from the initial As Found pressure.  
**Note:** The "As Found" setting must be below the Maximum Permissible Downstream Pressure. If actual As Found is higher, this indicates that either the relief valve needs to be overhauled or the relief valve is inappropriate for the condition of service. Options to resolve the problem include rebuilding the relief valve, replacing the relief valve, or lowering the relief setting (may cause operational problem). Contact appropriate pipeline or facilities engineer.
- As Left (Setting):** The actual "As Left" setting may be set less than Normal Relief Set Pressure but never more than this value.