

Liquid Thermal Expansion PRV Sizing Information Sheet

MERCER VALVE CO., INC.®

ENG-906000 Rev.: B ECN: 2757

| AUTO SEAT TECHNOLOGY® | |
|-----------------------|---|
| Contact Name: | Phone: |
| Company: | Fax: |
| Location: | F ₁ , 1 |
| Tag/PSV No.: | Quantity: |

Per ASME and API codes, in most thermal relief applications, an NPS ³/₄" x NPS 1" valve is acceptable. This is because every hydraulic expansion application is for a relieving liquid and the required relieving rate is small, therefor specifying an oversized device is reasonable. Fill out this form if there is a reason to believe that this size is not adequate.

Please indicate the units used for each field.

| | \triangleright | Threaded: | | | \succ | Flanged: |
|----|------------------|--|-------------------|------------|-----------|-------------|
| | , | MNPT x FNPT | _ | | , | RF x RF |
| | | FNPT x FNPT | | | | 🗌 RTJ x RF |
| | ۶ | Lift Lever? 🗆 None 📄 Open Lever 📄 Closed Lever | | | | 🔲 RTJ x RTJ |
| 2. | Operat | ting Data | | | | |
| | \triangleright | Operating Pressure: | _ | | | |
| | \triangleright | Set Pressure: | _ | | | |
| | \checkmark | Atmospheric Pressure: | _ | | | |
| | ۶ | Allowable Overpressure : | _ | | | |
| | \checkmark | Known Inlet Pressure Drop: | _ | | | |
| | ۶ | Operating Temperature: | _ | | | |
| | ۶ | Total Heat Transfer Rate: | watts | or | 🗌 Btu/ | h |
| | ۶ | Back Pressures: | | | | |
| | | Constant Superimposed: | 0 | Vari | able Sup | erimposed: |
| | | o Built-up: | _ | | | |
| 3. | Fluid I | Data | | | | |
| | \succ | Liquid Name: | _ | | | |
| | > | Does This Require Sour Service Trim? | | | | |
| | ≻ | Density: | kg/m ³ | or | 🗌 lb/ft | 13 |
| | or | Specific Gravity: | (referred to wat | er at 15.6 | °C/60 °F) | |
| | \triangleright | Viscosity: | | | | |
| | \succ | Cubical Expansion Coefficient: | | or | 🔲 1/°F | |
| | \triangleright | Specific Heat: | I/ka.K | or | 🗌 Btu | /lb.F |

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