



General PRV Sizing Information Sheet

MERCER VALVE CO., INC.®
AUTO SEAT TECHNOLOGY®

Contact Name: _____

Phone: _____

Company: _____

Fax: _____

Location: _____

Email: _____

Tag/PSV No.: _____

Quantity: _____

Please indicate the units used for each field.

1. Requested Connection Size and Type

The requested may not be available since it depends on orifice/valve sizing result.

- Valve Type: Spring Operated
 - Pilot Operated (flanged connections only)
 - Snap Action (gas/vapor service only) or
 - Modulating Action (non-compressor only)
- Lift Lever? None Open Lever Closed Lever

- Threaded: _____
 - MNPT x FNPT FNPT x FNPT
- Flanged: _____
 - RF x RF RTJ x RF RTJ x RTJ

2. Operating Data

- Operating Pressure: _____
- Set Pressure: _____
- Atmospheric Pressure: _____
- Allowable Overpressure : _____
- Back Pressures:
 - Constant Superimposed: _____
 - Built-up: _____

- Known Inlet Pressure Drop: _____
- Operating Temperature: _____
- Relieving Temperature: _____
- Compressor Service: Yes No

3. Fluid Data (fill only what applies)

- Does This Require Sour Service Trim? Yes No NACE MR0175

❖ Gas/Vapor Name: _____

- Compressibility Factor Z: _____
(Z = 1.0 if value is unknown)

- Molecular Weight: _____
- Ratio of Specific Heats: _____

❖ Liquid 1 Name: _____

- Required Relief Capacity: _____
- Density: _____
- Viscosity: _____

❖ Liquid 2 Name: _____

- Required Relief Capacity: _____
- Density: _____
- Viscosity: _____

- Required Relief Capacity: _____ or
Orifice Size: _____
- or Specific Gravity: _____ (referenced to air)

- or Orifice Size: _____
- or Specific Gravity: _____ (referenced to water)

- or Specific Gravity: _____ (referenced to water)

4. Pilot Options (some option configurations may not be available for certain valve sizes)

- Backflow Preventer
- Auxiliary Filter (recommended for liquid)
- Pressure Snubber (not available on modulating)
- Field Test Connection
- Test Gag
- Manual Blowdown
- Remote Blowdown — Pneumatic or Electronic
- Remote Sensing



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