

Liquid Vaporization Due to Fire PRV Sizing Information Sheet

MERCER VALVE CO., INC.®

AUTO SEAT TECHNOLOGY®

Contact Name: Company: Location: Tag/PSV No.:		Phone: Fax: Email: Quantity:				
				J		uits used for each field.
				1. Ves	sel Data	
					> Vessel Diameter:	> Type of Ends:
	➤ Vessel Length (seam to seam):	End 1: Flat Head 2:1 Elliptical Hemispherical				
	Normal Fluid Level (height or %):	End 2: 🗌 Flat Head 🔲 2:1 Elliptical 🔲 Hemispherical				
	> Vessel Height Above Grade:	Environmental Factor F:				
	> Vessel Orientation:	(F=1 for bare vessel)				
	☐ Vertical ☐ Horizontal ☐ Sphere	➤ Insulation (If applicable):				
	➤ Is There Drainage and Fire Fighting Equipment?	o Thickness:				
	☐ Yes ☐ No	o Thermal Conductivity:				
	quested Connection Size and Type equested may not be available since it depends on orifice/valve sizing result.					
	> Threaded:	Flanged:				
	MNPT x FNPT	☐ RF x RF				
	☐ FNPT x FNPT	☐ RTJ x RF				
	➤ Lift Lever? □ None □ Open Lever □ Closed Lever	□ RTJ x RTJ				
3. Ope	erating Data					
	> Operating Pressure:	➤ Allowable Overpressure (up to 21% MAWP):				
	> Set Pressure:	➤ Known Inlet Pressure Drop:				
	> Atmospheric Pressure:	Operating Temperature:				
	➤ Back Pressures:					
	o Constant Superimposed:	o Variable Superimposed:				
	o Built-up:					
4. Flui	id Data (Liquid being vaporized)					
	Fluid Name:	Does This Require Sour Service Trim?				
	Molecular Weight:	☐ Yes ☐ No ☐ NACE MR0175				
	Saturation Temperature at Set Pressure:	Ratio of Specific Heats:				
	➤ Latent Heat of Vaporization at Set Pressure:	> Compressibility Factor Z:				

