

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:	Email:
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.

	\succ	Threaded:	_		\triangleright	Flanged:	
		MNPT x FNPT				RF x RF	
		FNPT x FNPT				🗌 RTJ x RF	
	\blacktriangleright	Lift Lever? None Open Lever Closed Lever				🗆 RTJ x RTJ	
•	Operat	ing Data					
	≻	Operating Pressure:	_				
	≻	Set Pressure:	_				
	۶	Atmospheric Pressure:	_				
	۶	Allowable Overpressure :	_				
	۶	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:	
		• Built-up:	_				
.	Fluid D	Data					
	۶	Liquid Name:	_				
	≻	Does This Require Sour Service Trim?					
		Yes No NACE MR0175					
	۶	Density:	\Box kg/m ³	or	☐ lb/ft	3	
	or	Specific Gravity:	(referred to wat	er at 15.6	°C/60 °F)		
	\succ	Viscosity:	_				
	\triangleright	Cubical Expansion Coefficient:	_ □ 1/°C	or	□ 1/°F		
	\triangleright	Specific Heat:	☐ J/kg·K	or	🗌 Btu	/lb·F	

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