

Spring Operated Valve Data Sheet



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

Page: _____

Customer Name: Jackson Li
Company: Enerflex
Location: Calgary
Phone: 1-403-698-8869
Fax:
Quote #:
Reference #:
Tag Number: PSV-0300

QUOTE IS GOOD FOR 30 DAYS

Submitted By:

Signature: _____

Quote Date: April 20, 2012

Shipping Date:

ARO

FLUID DATA	FLUID	FLUID STATE	Air	GAS
	MOLECULAR WEIGHT	SPECIFIC GRAVITY	28.110	0.969
	RATIO of SPECIFIC HEATS	Gas Constant	1.38	354
	COMPRESSIBILITY FACTOR		1.000	
SIZING INFORMATION	REQUIRED CAPACITY			
	SUPERIMPOSED CONST BP	SUPERIMPOSED VARI	0.00 psig	0.00 psig
	BUILT-UP BACK PRESSURE	TOTAL BACK PRESSURE	0.00 psig	0.00 psig
	OPERATING TEMPERATURE	RELIEVING TEMPERATURE	230.00 °F	230.0 °F
	OPERATING PRESSURE	ATMOSPHERIC PRESSURE	250.00 psig	14.70 psia
	SET PRESSURE	FLOWING PRESSURE	300.00 psig	344.70 psia
	CDTP	OVER PRESSURE	300.0 psig	10.00 %
	DISCHARGE COEFFICIENT AND AREAS		ASME, Section VIII, Div. 1	
	VALVE CERTIFICATION / DESIGN CODE		ASME BOILER AND PRESSURE VESSEL CODE, SECTION VIII, DIVISION 1 CERTIFIED	
	SYSTEM TYPE		Vessel or Pipeline	
SIZING RESULTS	REQUIRED AREA	FLOW COEFFICIENT	0.818	
	SELECTED ORIFICE		"H" Orifice	0.865 in²
	MAXIMUM CAPACITY of VALVE AT OVER PRESS.		3923.33 scfm	
	TAG CAPACITY		4470.92 SCFM AIR	
	DECIBEL LEVEL	REACTION FORCE	108 dB @ 100 ft	278 lbf
MATERIALS	VALVE BODY MATERIAL	INLET MATERIAL	WCB CARBON STEEL	CARBON STEEL
	BONNET MATERIAL	BONNET TYPE	CARBON STEEL	CLOSED
	NOZZLE MTRL	NOZZLE TYPE	316 STNLS STL	SEMI NOZZLE
	DISK MATERIAL		316 STNLS STL	
	SEAT MATERIAL	O-RING MATERIAL	15% GLASS TEFLON	STD (VITON & BUNA-N)
	SPRING MATERIAL		17-7 PH STAINLESS STEEL	
OPTIONS	1/4" PIPE TAP		NO	
	SOUR GAS SERVICE		NO	
	CAP TYPE		OPEN LIFT LEVER	
VALVE INFORMATION	VALVE TYPE		9100 FLANGED	
	PART NUMBER		91-34H12T82U1	
	INLET X OUTLET		1-1/2" 300 lb RF x 2" 150 lb RF	
	CENTER TO FACE DIMENSIONS		A = 4-7/8 in.	B = 4-3/4 in.
	REPAIR KIT NUMBER		2H2T1U1	
	QUANTITY		1	
DISCLAIMER	As per ASME code, Section VIII, Division 1, para. UG-125(a), the customer accepts all responsibility in insuring that the correct pressure relief valve is installed for their application. The purchase order for the pressure relief valve confirms the sizing calculations and material compatibility choices made by Mercer Valve are correct for the application. This sizing program does not take material compatibility or pressure and temperature limitations into account for choosing materials. Please verify all material choices with Mercer Valve Company, Inc.			
NOTES				