ReCon
Management · Engineering
Inspection

Athlon Bayport, TX	Date: 10/29/19 Revision: A	Created By: CJM Checked By:

GENERAL INFORMATION				COMMENTS		
Item No. and Tag	PSV-XX2					
Relieves Equipment No.	E-778 Shell Side					
Valve Location (P&ID #)	SK-19282010-001 Rev.A					
Manufacturer	Emerson Crosby					
Relief Valve Model No.	JOS-H-E					
Relief Valve Serial No.	New Valve For Purchase					
SERVICE CONDITIONS						
Design Code (ASME, DIN etc.)	ASME Sec. VIII					
Fluid	Steam					
Fluid State (Liquid, Vapor, or Liq/Vap)	Vapor			Operating	Relieving	
Required Capacity & Units	1,836 lb/hr	lb/hr				
Molecular Weight	18.02	lb/lbmol				
Specific Gravity at Flowing Conditions	0.381			Gas density:	0.4673 lb/ft^3	
Viscosity at Relieving Temp, Cp	0.016					
Compressibility Factor, Z	0.9088					
Ratio of Heat Capacities, k	1.196					
Design Pressure of Equip., MAWP psig	165 psig					
Operating Pressure, psig						
Set Pressure, psig	165 psig					
Temperature, °F		388 deg F		Operating	Relieving	
Constant Back Pressure, psig	0 psig					
Variable Back Pressure, psig	0.75 psig			Builtup Backpressure		
Cold Differential Set Pressure, psig	N/A			Atmopsheric relief		
Allowable Overpressure %	21%					
Blowdown %						
BASIS OF SELECTION						
Design/Sizing Basis	15: Exterior Fire					
Other Basis						
DESIGN DETAILS						
Design Type	Conventional					
Bonnet (Open or Closed)	Open					
Inlet Size, Rating, Facing						
Outlet Size, Rating, Facing						
Calculated Area, Sq In	0.208 sq in			Using ASME discharge coefficient		
Orifice Letter Designation	E					
Orifice Area, Sq In	0.221 Sqln			ASME Actual Area		
MATERIALS						
Body						
Bonnet						
Seat and Disk						
Guide and Ring						
Spring						
Bellows						
ACCESSORIES						
Lifting Lever (Plain, Packed or None)						
Code Stamp						
Cap (Screwed or Bolted)						

NOTES

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