DATA SHEET FOR PRESSURE SAFETY (RELIEF) VALVE

Data sheet:		0102-DS-1792	
SHEET:	1	OF	1
REV.	1	DATE	07-11-2013
Prep. By:	IBB	Chkd. :	ATF

Client: OGDCL
Project: Gas Plant Facility
Unit: Flow Line GPF-1 (200)
P&ID: 0102-PB-2156

	GENERAL			
1	SEAT-TYPE		(VTA)	
2	DESIGN TYPE		Spring Loaded	
3	BONNET		CLOSED	
4	TAG. NO.		200-PSV-002	
5	LINE OR EQUIPMENT NO.		Flow line GPF-1	
6	BODY			
7	MATERIAL			
8	SIZE: INLET	OUTLET	1.5"	3"
9	FLANGE RATING-ASA		900# x 300#	
10	TYPE FACING			
11	ORIFICE DESIGNATION		F	
12	TRIM MATERIAL			
13	SEAT & DISK			
14	GUIDE & RING/(S)			
15	SPRING			
16	ACCESSORIES			
17	CAP & LEVER	SCREWED CAP		
18	LEVER	PACKED/PLAIN		
19	GAGE			
20	OTHER			
21	BASIS OF SELECTION			
22	CODE		API-520	
23	FIRE		No	
24	OTHER		Blocked	
25	SERVICE CONDITION			
26	SERVICE		Raw Gas	
27	REQUIRED CAPACITY FOR VAPOR (lb/hr)		18970.00	
28	PRESS: psig			
29	NORM.	SET	1255	1400
30	CP/Cv		1.556	
31	MOL. WT. (GAS)		17.97	
32	VISCISITY (Cp)		0.0145	
33	Z (COMPRESSIBILTY FACTOR)		0.876	
34	PROPERTIES @ RELIEVING PRESS: 1540 psig			
35	TEMPERATURE (°F)			
36	NORM.	RELIEVING	110	145
37	MASS FRACTION OF VAPOR PHASE @ PRV INLET		0.8759	
38	DENSITY OF VAPOR PHASE (Kg/m^3)		85.26	
39	DENSITY OF LIQUID INLET (Kg/m^3)		767	
40	PROPERTIES @ 90% OF RELIEVING PRESS: 1365 psig			
41	MASS FRACTION OF VAPOR PHASE @ PRV INLET		0.8778	
42	DENSITY OF VAPOR PHASE (Kg/m3)		74.81	
43	DENSITY OF LIQUID INLET (Kg/m3)		769	
44	CONSTANT BACK PRESSURE: psig		ATM	
45	DEVELOPED BACK PRESSURE: psig		50	
46	SPRING SET PRESSURE: psig		VTA	
47	OVER PRESSURE - %		10%	
48	LATENT HEAT (BTUI/lb)		-	
49	ORIFICE AREA			
50	CALCULATED	sq. ins.	0.207	
51	SELECTED	sq. ins.	0.307	
52	MANUFACTURE'S MODEL NO.			
53	**NOTES:**			
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