






DATASHEET FOR EMERGENCY VALVE


HP02-00-IN-DAS-0013


0	12-Nov-23	Approval for Construction		D.T.T	L.V.D	N.T.S
A	13-Oct-23	Issue for Review		D.T.T	L.V.D	N.T.S
REV. NO.	DATE	DESCRIPTION		PREP'N	CHECK	REVIEW
REV. NO.	DISCIPLINE	PREPARATION	CHECK	REVIEW		APPROVAL
0	INSTRUMENT					
		D.T.T	L.V.D	N.T.S		V.L.T

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		<h2 style="text-align: center;">HAI PHONG 2 PROJECT</h2> <h3 style="text-align: center;">DATASHEET FOR EMERGENCY VALVE</h3>				DOC. No. HP02-00-IN-DAS-0013 REV. No. 0 PAGE 3		
No.	Item	Description	Requirement				Remark	Rev.
A Process Data			<i>Min</i>	<i>Normal</i>	<i>Max</i>	<i>Unit</i>		
1		Operating Temperature	-	40	-	⁰ C		
2		Operating Pressure	-	50	-	mmH ₂ O		
3		Product Viscosity	0.33	-	0.45	Cp		
4		Product Density	675	-	920	Kg/m ³		
5		Ambient Temperature	5	-	45	⁰ C		
6		Relative Humidity			85	%		
7		Fluid Name	Hydrocarbon/ Chemical Solvent			Fluid Phase	Vapor	0
8		Relieving Temperature	40 ⁰ C		Set Pressure	500 mmH ₂ O		
9		Max. Discharge (Kg/h)	-					
10		Back Pressure Builtup	ATM		Superimposed	-		
11		Total	ATM					
12		Overpressure Factor	-			Barg		
13		Required Capacity (Nm ³ /h)	Inhale	-	Exhale	23892Nm ³ /h	(Note 1)	
14		Molecular Weight	See product property		Compressibility	-	(Z)	
15		Vapour Pr. (Pv) (Barg)			Critical Pr. (Pc)			
16		% Flashing						
17		Specificaiton Heat Ratio (Cp/Cv)						
18		Corrosive/Erosive/Toxic	None	None	None			
B General								
1		Tank Capacity	2600 M ³		Tank Nozzle Size	24" Slip On RF		0
2		Primary/ Secondary Relief	Primary					
C Basic and Selection								
1		Design Code	API 2000					
2		Basic for Selection	External Fire					
3		Vent Type	Weight Load					
4	Connection	Size	24"					
5		Rating and Facing:	150#, RF Flange				0	
6		Material Body	Carbon Steel - Painted					
7		Lining Material	-					
8		Interior Trim Material	316 SS		Spring Mat.	-		
9		Seat Insert Material	PTFE		Diaphragm	PTFE		
10		Pallet Material	316 SS					
11		Leak Class	-					
D Purchase and service								
1		Manufacturer						
2		Model						
3		Certification	Material, Calibration, Local Authorities Certificate, Local test					
E General								
1		Tag-Name	EMV-2141					
2		P&ID	HP02-00-PR-PID-014					
3		Service	TK-208					
Notes 1. Including 20% design margin 2. Stainless Steel tag plate shall be stamped with Tag-name, Manufacture Name, Set Pressure, Model No. Mft. Std. : Manufacture Standard V.T.A Vendor To Advise B.V: By Vendor								

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No.	Item	Description	Requirement				Remark	Rev.
A Process Data			<i>Min</i>	<i>Normal</i>	<i>Max</i>	<i>Unit</i>		
1		Operating Temperature	-	40	-	⁰ C		
2		Operating Pressure	-	50	-	mmH ₂ O		
3		Product Viscosity	0.33	-	0.45	Cp		
4		Product Density	675	-	920	Kg/m ³		
5		Ambient Temperature	10	-	45	⁰ C		
6		Relative Humidity			85	%		
7		Fluid Name	Hydrocarbon/ Chemical Solvent			Fluid Phase	Vapor	0
8		Relieving Temperature	40 ⁰ C		Set Pressure	500 mmH ₂ O		
9		Max. Discharge (Kg/h)	-					
10		Back Pressure Builtup	ATM		Superimposed	-		
11		Total	ATM					
12		Overpressure Factor	-			Barg		
13		Required Capacity (Nm ³ /h)	Inhale	-	Exhale	23892Nm ³ /h	(Note 1)	
14		Molecular Weight	See product property		Compressibility	-	(Z)	
15		Vapour Pr. (Pv) (Barg)			Critical Pr. (Pc)			
16		% Flashing						
17		Specificaiton Heat Ratio (Cp/Cv)						
18		Corrosive/Erosive/Toxic	None	None	None			
B General								
1		Tank Capacity	2600 M ³		Tank Nozzle Size	24" Slip On RF		0
2		Primary/ Secondary Relief	Primary					
C Basic and Selection								
1		Design Code	API 2000					
2		Basic for Selection	External Fire					
3		Vent Type	Weight Load					
4	Connection	Size	24"					
5		Rating and Facing:	150#, RF Flange				0	
6		Material Body	Carbon Steel - Painted					
7		Lining Material	-					
8		Interior Trim Material	316 SS		Spring Mat.	-		
9		Seat Insert Material	PTFE		Diaphragm	PTFE		
10		Pallet Material	316 SS					
11		Leak Class	-					
D Purchase and service								
1		Manufacturer						
2		Model						
3		Certification	Material, Calibration, Local Authorities Certificate, Local test					
E General								
1		Tag-Name	EMV-2151					
2		P&ID	HP02-00-PR-PID-015					
3		Service	TK-209					
<p>Notes</p> <p>1. Including 20% design margin</p> <p>2. Stainless Steel tag plate shall be stamped with Tag-name, Manufacture Name, Set Pressure, Model No.</p> <p>Mft. Std. : Manufacture Standard V.T.A Vendor To Advise</p> <p>B.V: By Vendor</p>								

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No.	Item	Description	Requirement				Remark	Rev.
A	Process Data		<i>Min</i>	<i>Normal</i>	<i>Max</i>	<i>Unit</i>		
1		Operating Temperature	-	40	-	⁰ C		
2		Operating Pressure	-	50	-	mmH ₂ O		
3		Product Viscosity	0.33	-	0.45	Cp		
4		Product Density	675	-	920	Kg/m ³		
5		Ambient Temperature	5	-	45	⁰ C		
6		Relative Humidity			85	%		
7		Fluid Name	Hydrocarbon/ Chemical Solvent			Fluid Phase	Vapor	0
8		Relieving Temperature	40 ⁰ C		Set Pressure	500 mmH ₂ O		
9		Max. Discharge (Kg/h)	-					
10		Back Pressure Builtup	ATM		Superimposed	-		
11		Total	ATM					
12		Overpressure Factor	-			Barg		
13		Required Capacity (Nm ³ /h)	Inhale	-	Exhale	18841.7 Nm ³ /h	(Note 1)	
14		Molecular Weight	See product property		Compressibility	-	(Z)	
15		Vapour Pr. (Pv) (Barg)			Critical Pr. (Pc)			
16		% Flashing						
17		Specificaiton Heat Ratio (Cp/Cv)						
18		Corrosive/Erosive/Toxic	None	None	None			
B	General							
1		Tank Capacity	100 M ³		Tank Nozzle Size	24" Slip On RF		0
2		Primary/ Secondary Relief	Primary					
C	Basic and Selection							
1		Design Code	API 2000					
2		Basic for Selection	External Fire					
3		Vent Type	Weight Load					
4	Connection	Size	20"					
5		Rating and Facing:	150#, RF Flange					0
6		Material Body	Carbon Steel - Painted					
7		Lining Material	-					
8		Interior Trim Material	316 SS		Spring Mat.	-		
9		Seat Insert Material	PTFE		Diaphragm	PTFE		
10		Pallet Material	316 SS					
11		Leak Class	-					
D	Purchase and service							
1		Manufacturer						
2		Model						
3		Certification	Material, Calibration, Local Authorities Certificate, Local test					
E	General							
1		Tag-Name	EMV-2161					
2		P&ID	HP02-00-PR-PID-016					
3		Service	TK-207					

Notes

- Including 20% design margin
- Stainless Steel tag plate shall be stamped with Tag-name, Manufacture Name, Set Pressure, Model No.

Mft. Std. : Manufacture Standard V.T.A Vendor To Advise

B.V: By Vendor

DATASHEET FOR EMERGENCY VALVE

SOLVENT PROPERTY

Name	BP - °C	FP - °C	VP @20°C kPa	Density @20°C-kg/m³	Viscosity mPa.s @20°C
Acetone	56	-18	24.7	790-792	0.33
Butyl acetate	126	24	10.7	900	NA
Ethyl acetate	74-78	-4	9.8	900	0.45
Hexane	65-69	-27	19	675	NA
Isopropanol	82-83	12	4.1	NA	NA
Methyl ethyl ketone	70-80.5	-4	9.5	NA	0.42
Methyl isobutyl ketone	114-117	14	1.9	NA	NA
Sec-butyl acetate	112	16	3.3@25°C	870	NA
S-97	50-135	<0	NA	670-755 @15°C	NA
Solvent xylene	136-145	21-27	0.8-1.2	870 @15°C	
Thinner 2T (TAK-001)	75-105	3	NA	839	NA
Thinner 3T (TAK-002)	80-130	3	NA	851	NA
Toluene	110-111	6	3-3.5	871 @ 15°C	NA
TOPSol 3040 ^a	162-192	41-42	0.37	783 @ 15°C	NA
TOPSol A100	150-185	38-50	0.21-1.3	876 @ 15°C	NA
TOPSol A150	179-214	62-65.6	NA	893 @ 15°C	NA
Isomer xylene	137-143	23-27	0.8-1.2	870 @ 15°C	NA
Xylene	136-145	23-27	0.8-1.2	870 @ 15°C	NA
Hexane extraction	65.69	27	19	670 -675 @15°C	NA
Isobutyl acetate	117.2	18	1.7@25°C	871@15°C	NA
TOPSol Extraction	65.69	27	19	670 -675 @15°C	NA

Abbreviations:

BP: Boiling point

FP: Flash point

VP: Vapour pressure