



PETROCHEMICAL INDUSTRIES
DESIGN & ENGINEERING CO.

PROJ. NO. : 1205



DENA METHANOL PLANT

COVER SHEET

OWNER :

SABALAN PETROCHEMICAL INDUSTRIES CO.

PROJ. NO. : 89/S-G/102

DATA SHEET

For

PRESSURE RELIEF DAMPER FOR CONTROL BUILDING

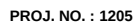
DOCUMENT NO. : **1205-00-HV-DSH-202**

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Note: For relevant records of the document, reference can be made to Sabalan Methanol Project documentation.

ED		EXT		IFE		A	
Eng. Phase		Purpose Of Distribution (POD)		Purpose Of Issue (POI)		Owner's Action	
01	16.05.2017	ISSUED FOR ENGINEERING (Partially Revised)		M.Mashayekh	M.Momenaie	A.Moadeli	N.Jafarpour
00	18.10.2016	ISSUED FOR ENGINEERING		M.Mashayekh	M.Momenaie	A.Moadeli	N.Jafarpour
Rev.	Date	Description		Prepared by	Checked by	Approved by	Project

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PROJ. NO. : 89/S-G/102

Data Sheet for Pressure Relief Damper for Control Building

Doc. No.: 1205-00-HV-DSH-202

Rev. : 01

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 PETROCHEMICAL INDUSTRIES DESIGN & ENGINEERING CO. PROJ. NO. : 1205	 DENA METHANOL PLANT Data Sheet for Pressure Relief Damper for Control Building Doc. No.: 1205-00-HV-DSH-202 Rev. : 01	OWNER : SABALAN PETROCHEMICAL INDUSTRIES CO. PROJ. NO. : 89/S-G/102
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NO.	GENERAL										
1	Type		Pressure Relief Damper			Make / Origin		* / *			
2	Tag No.		As Per Following Table			Air Flow		cfm	As Per Following Table		
3	Quantity		As Per Following Table			Overall Size		L x W	mxm	As Per Following Table	
4	Service		As Per Following Table			Operating Weight		Kg		As Per Following Table	
5	SITE CONDITION										
6	Location / Latitude		Assaluyeh / 28.5° N			Altitude		m	34		
7	Ambient Air Temperature		Max / Min °F	118.4 / 41			Wet Bulb Temp		°F	91.4	
8	CONSTRUCTION										
9	Frame	Material / Grade	Galv. Steel			Shafting	Material / Grade	12 mm S.S. 304L			
10		Profile & Size	mm	2			Type	Round Rod, One Cont. Per Blade			
11		Finish / Thickness	mm	* / *			Dr. Force Transmission Mechanism	-			
12	Blades	Material / Grade	Al. Sheet				Finish / Thickness	mm	-		
13		Single / Double Skin	Single Skin			Nameplate	Material	S.S. Plate			
14		Thickness	mm	0.7			Bearings	PVC or Bronze Self-Lubricating Bushings*			
15		Finish / Thickness	mm	* / *			No. of Blades / Config.	Par. / Op.	* / Parallel		
16	MISCELLANEOUS										
17	PRESSURE RELIEF DAMPER					OTHER SPECIFICATIONS					
18	Inside Set Pressure		in.w.g	0.4			Fire Rating	N.A.			
19	Mounting		Wall			Leakage Rate	cfm per m2	<3 @ 100 Pa differential			
20	ELECTRICAL DATA					pressure & damper closed					
21	Motor Make/Origin		N.A.			Control Enclosure Size	mm	N.A.			
22	Actuators Position / Rating		N.A.			Number of Damper Units	*				
23	Actuators Power Rating		W	N.A.			System Design Pressure	in.w.g	N.A.		
24	Actuator Power Supply		Volts	N.A.			Spring Set Point	in.w.g	N.A.		
25	Type of Actuator		N.A.			Closure Time	Sec	N.A.			
26	Micro Switch Rating		N.A.			Fusible Element Rating	N.A.				
27	Junction Box Rating		N.A.			Frangible Bulb Temp.	°F	N.A.			
28	ACCESSORIES										
29	Differential Pressure Switch			Not Required			Blade Seals	Neoprene or Polyester			
30	Counterweight			Zinc Plated							
31											
32	Tag No.	Air Flow (cfm)	Qty.	Size (Note5) (mm x mm)	Leakage Rate (%)	Service Equipment	DP (in.w.g)	Wght (kg)	Mfg. Model No.	Notes	
33											
34	01	PRD-0011	245	1	325x325	*	CONTROL ROOM PRD	*	*	*	
35		PRD-0013	445	1	325x505	*	AUXILARY ROOM PRD	*	*	*	
36		PRD-0015	80	1	325x145	*	ENGINEERING ROOM PRD	*	*	*	
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NOTES:

- * To be filled by vendor.
- The frame shall be so designed as to eliminate all water traps and all welds will be continuous.
- Air leakage past fully closed volume damper shall not exceed 5% of the maximum design air flow in the duct.
- N.A. Not Applicable.
- The given size is equal the duct size that the damper will installed on it.
- The damper shall be provided with adjustable counterweight for space pressure setting.