



PETROCHEMICAL INDUSTRIES
DESIGN & ENGINEERING CO.

PROJ. NO. : 1205



DENA METHANOL PLANT

شرکت صنایع پتروشیمی دنا
Dena Petrochemical Industries Co.

COVER SHEET

OWNER :

SABALAN PETROCHEMICAL INDUSTRIES CO.

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

DATA SHEET

For

PRESSURE RELIEF DAMPER FOR SUBSTATION

DOCUMENT NO. : 1205-00-HV-DSH-222

TOTAL PAGES : 1 (Excluding Cover & Revision Index Sheets and attachments)

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	28.01.2017	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

	PETROCHEMICAL INDUSTRIES DESIGN & ENGINEERING CO.		DENA METHANOL PLANT			OWNER : SABALAN PETROCHEMICAL INDUSTRIES CO. PROJ. NO. : 89/S-G/102
	PROJ. NO. : 1205		Data Sheet for Pressure Relief Damper for Substation			
				Doc. No.: 1205-00-HV-DSH-222	Rev. : 01	

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	01	PRD-0030	325	1	400x400	*	MV ROOM PRD	*	*	*	
34		PRD-0031	770	1	620x600	*	LV ROOM PRD	*	*	*	
35		PRD-0032	240	1	340x340	*	C.C. PRD	*	*	*	
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NOTES:

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