



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

NON RETURN DAMPER FOR CONTROL BUILDING

DOCUMENT NO. : 1205-00-HV-DSH-203

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.

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Eng. Phase		Purpose Of Distribution (POD)		Purpose Of Issue (POI)		Owner's Action
00	18.10.2016	ISSUED FOR ENGINEERING		M.Mashayekh	M.Momenaie	A.Moadeli
Rev.	Date	Description		Prepared by	Checked by	Approved by
						Project



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

Data Sheet for Non Return Damper for Control Building

Doc. No.: 1205-00-HV-DSH-203

Rev. : 00

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	PETROCHEMICAL INDUSTRIES DESIGN & ENGINEERING CO.	 DENA METHANOL PLANT	OWNER : SABALAN PETROCHEMICAL INDUSTRIES CO. PROJ. NO. : 89/S-G/102
	Data Sheet for Non Return Damper for Control Building		
	Doc. No.: 1205-00-HV-DSH-203	Rev. : 00	

NO.	GENERAL									
1	Type	Non Return 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		Type	Low Lkg. Gravity Shutter			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	N.A.			Fire Rating	N.A.			
19	Mounting	-				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	8.03		
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	Not Required								
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	NR-0012 A/B	1135	2	400x300	*	BR. EXHAUST FAN NRD	*	*	*	
34	NR-0013	820	1	400x340	*	BR. SUPPLY DUCT NRD	*	*	*	
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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.