



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

MOTORIZED FIRE DAMPER FOR CONTROL BUILDING

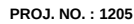
DOCUMENT NO. : 1205-00-HV-DSH-200

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	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 Motorized Fire Damper for Control Building

Doc. No.: 1205-00-HV-DSH-200

Rev. : 01

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 PETROCHEMICAL INDUSTRIES DESIGN & ENGINEERING CO. PROJ. NO. : 1205	 DENA METHANOL PLANT		OWNER : SABALAN PETROCHEMICAL INDUSTRIES CO.	
	Data Sheet for Motorized Fire Damper for Control Building			PROJ. NO. : 89/S-G/102
	Doc. No. : 1205-00-HV-DSH-200		Rev. : 01	

NO.	GENERAL										
1	Type		Motorized Fire 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		Bracket, Arm, & Leakage *			
12	Blades	Material / Grade		Galv. Steel				Finish / Thickness		mm Galv. Steel / *	
13			Single / Double Skin	Double Skin		Nameplate		Material		S.S. Plate	
14			Thickness	mm	2x1.6 *	Bearings		S.S. Ball Bearing *			
15			Finish / Thickness	mm	* / *	No. of Blades / Config.		Par. / Op.	* / Parallel		
16	MISCELLANEOUS										
17	PRESSURE RELIEF DAMPER					OTHER SPECIFICATIONS (Note 6)					
18	Inside Set Pressure		in.w.g	N.A.		Fire Rating		A0			
19	Mounting		-			Leakage Rate		cfm per m2	<3 @ 100 Pa differential		
20	ELECTRICAL DATA					pressure & damper closed					
21	Motor Make/Origin		* / *			Control Enclosure Size		mm	*		
22	Actuators Position / Rating		E / IP 54			Number of Damper Units		1			
23	Actuators Power Rating		W	*		System Design Pressure		in.w.g	8.03		
24	Actuator Power Supply		Volts	24 DC		Spring Set Point		in.w.g	*		
25	Type of Actuator		Electric Quick Runner			Closure Time		Sec	*		
26	Micro Switch Rating		IPW 55			Fusible Element Rating		IP 54			
27	Junction Box Rating		IPW 55		Note 7	Frangible Bulb Temp.		°F	161.6		
28	ACCESSORIES										
29	Differential Pressure Switch			Not Required			Blade Seals		Extruded Vinyl on Blade Edge		
30	Counterweight			Not Required			Position Indicator		Required		
31	Manual Lever			Not Required			Limit (Micro) Switch / Make / Origin		Required / * / *		
32	Tag No.		Air Flow (cfm)	Qty.	Size (Note5) (mm x mm)	Electrical Classification	Service Equipment	DP (in.w.g)	Wght (kg)	Mfg. Model No.	Notes
33	01	MFD-0010	12890	1	1040x840	UNCLSFD.	AUXR. SUPPLY DUCT MFD	*	*	*	
34		MFD-0011	1250	1	460x400	UNCLSFD.	UPS ROOM SUPPLY DUCT MFD	*	*	*	
35		MFD-0012	820	1	400x340	UNCLSFD.	BR. SUPPLY DUCT MFD	*	*	*	
36		MFD-0013	5460	1	1060x860	UNCLSFD.	CR. SUPPLY DUCT MFD	*	*	*	
37		MFD-0014	12445	1	1000x780	UNCLSFD.	AUXR. RETURN DUCT MFD	*	*	*	
38		MFD-0015	1560	1	400x340	UNCLSFD.	UPS ROOM RETURN DUCT MFD	*	*	*	
39		MFD-0016	1135	1	325x685	UNCLSFD.	BR. EXHAUST DUCT MFD	*	*	*	
40		MFD-0017	2330	1	700x560	UNCLSFD.	ENGR. SUPPLY DUCT MFD	*	*	*	
41		MFD-0018	7520	1	720x640	UNCLSFD.	CR. RETURN DUCT MFD	*	*	*	
42		MFD-0019	2250	1	440x400	UNCLSFD.	ENGR. RETURN DUCT MFD	*	*	*	
43	MFD-0020	3125	1	460x380	UNCLSFD.	MAIN SUPPLY DUCT MFD (ZONE 2)	*	*	*		
44	MFD-0021	2085	1	460x360	UNCLSFD.	MAIN RETURN DUCT MFD (ZONE 2)	*	*	*		
45	MFD-0022	23115	1	1260x1000	UNCLSFD.	MAIN SUPPLY DUCT MFD (ZONE 1)	*	*	*		
46	MFD-0023	21525	1	1320x1020	UNCLSFD.	MAIN RETURN DUCT MFD (ZONE 1)	*	*	*		
47											
48											
49											

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 fire dampers are normally closed type. They will be open when energized. After de-energizing, or any signal failure, they should be closed automatically.
- Including M20 inlet & outlet cable glands.