



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

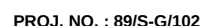
MOTORIZED FIRE DAMPER FOR SUBSTATION

DOCUMENT NO. : 1205-00-HV-DSH-220

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



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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 Motorized Fire Damper for Substation		
	Doc. No.: 1205-00-HV-DSH-220	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	01	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		MFD-0030	6075	1	560x660	UNCLSFD.	MAIN MV SUPPLY DUCT MFD	*	*	*	
35		MFD-0031	14755	1	980x780	UNCLSFD.	MAIN LV SUPPLY DUCT MFD	*	*	*	
36		MFD-0032	390	1	240x220	UNCLSFD.	BR. SUPPLY DUCT MFD	*	*	*	
37		MFD-0033	4435	1	580x500	UNCLSFD.	MAIN C.C. SUPPLY DUCT MFD	*	*	*	
38		MFD-0034	5750	1	700x540	UNCLSFD.	MAIN MV RETURN DUCT MFD	*	*	*	
39		MFD-0035	13595	1	980x820	UNCLSFD.	MAIN LV RETURN DUCT MFD	*	*	*	
40		MFD-0036	475	1	200x200	UNCLSFD.	BR. EXHAUST DUCT MFD	*	*	*	
41		MFD-0037	4195	1	560x500	UNCLSFD.	MAIN C.C. RETURN DUCT MFD	*	*	*	
42		MFD-0038	85	1	220x220	UNCLSFD.	BR. LOUVER MFD	*	*	*	
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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 fire dampers are normally closed type. They will be open when energized. After de-energizing, or any signal failure, they should be closed automatically.
- 7 Including M20 inlet & outlet cable glands.