



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 BLOCK DAMPER FOR SUBSTATION

DOCUMENT NO. : 1205-00-HV-DSH-221

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



OWNER :

SABALAN PETROCHEMICAL INDUSTRIES CO.

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

Data Sheet for Motorized Block Damper for Substation

Doc. No.: 1205-00-HV-DSH-221

Rev. : 01

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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 Block Damper for Substation		
	Doc. No.: 1205-00-HV-DSH-221	Rev. : 01	

NO.	GENERAL									
1	Type		Motorized Block 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		-
11		Finish / Thickness		mm	* / *		Dr. Force Transmission Mechanism		Gear Type	
12	Blades	Material / Grade		Al. Airfoil				Finish / Thickness		mm -
13		Single / Double Skin		Double Skin		Nameplate		Material		S.S.
14		Thickness		mm	2x1.6 *		Bearings		Synthetic Non Corrosive	
15		Finish / Thickness		mm	* / *		No. of Blades / Config.		Par. / Op.	* / Opposed
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		* / *			Control Enclosure Size		mm	*	
22	Actuators Position / Rating		* / IP 54			Number of Damper Units		N.A.		
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	N.A.	
25	Type of Actuator		Electric Spring Return			Closure Time		Sec	5	
26	Micro Switch Rating		IPW 55			Fusible Element Rating		N.A.		
27	Junction Box Rating		IPW 55			Frangible Bulb Temp.		°F	N.A.	
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		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										
34	MBD-0030 A/B	25265	2	HOLD	UNCLSFD.	PAHU-0030 A/B SUPPLY MBD	*	*	*	Note 7
35	MBD-0031 A/B	23540	2	HOLD	UNCLSFD.	PAHU-0030 A/B RETURN MBD	*	*	*	Note 7
36	MBD-0032 A/B	1725	2	HOLD	UNCLSFD.	FTU-0031 A/B AIR INLET MBD	*	*	*	Note 8
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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 Including M20 inlet & outlet cable glands.
- 7 Size to suit the PAHU-0030 A/B air connections.
- 8 Size to suit the FTU-0030 A/B air connections.