










OWNER:  شرکت سست و موی آوند ایرانیا (سایه نیا)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
	MC :  شرکت سست و موی آوند ایرانیا موی نیا	PULSATION DAMPER MECHANICAL DATA SHEET FOR EMERGENCY INSTRUMENT AIR COMPRESSOR							
		Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445
Owner Document Number: 17811-111	BU	20	VD	303	ME	DWG	0028	Rev.: 01	Page 1 of 3

PULSATION DAMPER MECHANICAL DATA SHEET FOR EMERGENCY INSTRUMENT AIR COMPRESSOR

01	10/03/2022	For approval	KP	LdM	JR		
00	25/02/2022	For approval	KP	LdM	JR		
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code	
						Class: 1	Phase: P

VENDOR				Pulsation damper mechanical datasheet		P.O. No.	52-98/445
						Document No.	17811-111
						Sheet No.	1
						Rev.No	01
CONTRACTOR / END USER				   		BUSHEHR PETROCHEMICAL COMPANY MEG PLANT	
						Service	instrument air compressor package
inlet pulsation damper (20-DC-7080-1)							
2	OPERATING PRESSURE	Bar(g)		9 bar(a)			
3	DESIGN PRESSURE	Bar(g)		12,5 bar(g)			
4	HYDROTEST PRESSURE	Bar(g)		1.3 X MAWP as per ASME VIII			
5	OPERATING TEMPERATURE	°C		5-55			
6	DESIGN TEMPERATURE	°C		0-85			
7	DESIGN CODE			ASME VIII Div. 1 Ed. 2021			
8	MATERIAL CERTIFICATE			3.1			
9	MATERIAL OF CONSTRUCTION			Shell /pipes : SA106 gr B, Heads : SA234 WPB, flanges : SA105			
10	NOZZLE SIZE			2" 150# for inlet and outlet, 1/2 NPT-F for drain			
11	DIMENSIONS	DiAx IT		8" x 750mm			
12	WEIGHT EMPTY	kg		65			
13	WEIGHT FILLED WITH WATER	kg		95			
14	CAPACITY	Liters		30			
15	TESTING AS PER CODE			ASME VIII Div. 1 Ed. 2021			
16	CORROSION ALLOWANCE	mm		3			
17	PWHT	Yes/No		No			
18	THICKNESS	mm		8,18			
20	Design approach			API 618 Design approach 2			
21	Maximum Allowable Compressor Cylinder Flange Pressure Pulsation as per clause 7.9.4.2.5.2.1 of API618.			7%			
22	Maximum Allowable Pressure Drop as per clause 7.9.4.2.5.3.1 of API 618.	Bar		0,0926			
22	Maximum Allowable Pulsation Limits at and Beyond Line-side Nozzles of Pulsation Suppression Devices as per clause 7.9.4.2.5.2.2.1 of API 618.	bar		0,549			
outlet pulsation damper (20-DC-7080-2)							
24	OPERATING PRESSURE	Bar(g)		21 bar(a)			
25	DESIGN PRESSURE	Bar(g)		25 bar(g)			
26	HYDROTEST PRESSURE	Bar(g)		1.3 X MAWP as per ASME VIII			
27	OPERATING TEMPERATURE	°C		180			
28	DESIGN TEMPERATURE	°C		0-210			
29	DESIGN CODE			ASME VIII Div. 1 Ed. 2021			
30	MATERIAL CERTIFICATE			3.1			
31	MATERIAL OF CONSTRUCTION			Shell /pipes : SA106 gr B, Heads : SA234 WPB, flanges : SA105			
32	NOZZLE SIZE INLET/OUTLET			2" 300# for inlet and outlet, 1/2 NPT-F for drain			
33	DIMENSIONS	DiAx IT		8" x 750mm			
34	WEIGHT EMPTY	kg		67			
35	WEIGHT FILLED WITH WATER	kg		97			
36	CAPACITY	Liters		30			
37	TESTING AS PER CODE			ASME VIII Div. 1 Ed. 2021			
38	CORROSION ALLOWANCE	mm		3			
39	PWHT	Yes/No		No			
40	THICKNESS	mm		8,18			
42	Maximum Allowable Compressor Cylinder Flange Pressure Pulsation as per clause 7.9.4.2.5.2.1 of API618.	Bar(g)		7%			
43	Maximum Allowable Pressure Drop as per clause 7.9.4.2.5.3.1 of API 618.	Bar		0,154			
44	Maximum Allowable Pulsation Limits at and Beyond Line-side Nozzles of Pulsation Suppression Devices as per clause 7.9.4.2.5.2.2.1 of API 618.	bar		1,522			
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51	NOTES:						
52	1) Please refer to attachments for pulsation study records						
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