









OWNER:  شرکت سست و سویی توستر ایرانیاان (سهایی نیاان)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
	MC :  شرکت سست و سویی توستر ایرانیاان (سهایی نیاان)	PULSATION DAMPER MECHANICAL DATA SHEET FOR EMERGENCY INSTRUMENT AIR COMPRESSOR						 Netherlands	
Project								Area	Phase
Owner Document Number: 17811-111	BU	20	VD	303	ME	DSH	0028	Rev.:	Page
								04	1 of 3

PULSATION DAMPER MECHANICAL DATA SHEET FOR EMERGENCY INSTRUMENT AIR COMPRESSOR

 شرکت سست و سویی توستر ایرانیاان (سهایی نیاان)	 Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT
Document Review		
Issue Purpose:	AB	
Result Code: AP,AN,CM,RE,NC	AP	
Next Status : IFC,IFA,IFI,AFC,AB	-	
Responsible Department	MECHANIC	
Commented Date	Apr.30.2023	
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.		

04	26/04/2023	As Built	KP	LdM	JR	
03	25/04/2022	Approved for Construction	KP	LdM	JR	
02	13/04/2022	For approval	KP	LdM	JR	
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

		Pulsation damper mechanical datasheet		P.O. No.	52-98/445	
				Document No.	17811-111	
				Sheet No.	1	
				Rev.No	04	
			BUSHEHR PETROCHEMICAL COMPANY MEG PLANT		Service	instrument air compressor package
inlet pulsation damper (20-DC-7080-1)						
2	OPERATING PRESSURE	Bar(a)	8.5 bar(a)			
3	DESIGN PRESSURE	Bar(g)	14,5 bar(g)			
4	HYDROTEST PRESSURE		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	DIxIT	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	0,169			
outlet pulsation damper (20-DC-7080-2)						
24	OPERATING PRESSURE	Bar(a)	21 bar(a)			
25	DESIGN PRESSURE	Bar(g)	26 bar(g)			
26	HYDROTEST PRESSURE		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	DIxIT	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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