







OWNER:  شرکت سست و موبلی آفس ابراهیمیان (سهامی خاص)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
MC :  شرکت سست و موبلی آفس ابراهیمیان اصفهان	PULSATION DAMPER MECHANICAL DATA SHEET FOR EMERGENCY INSTRUMENT AIR COMPRESSOR						 Netherlands		
Owner Document Number: 17811-111							Project	Area	Phase
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PULSATION DAMPER MECHANICAL DATA SHEET FOR EMERGENCY INSTRUMENT AIR COMPRESSOR

 شرکت سست و موبلی آفس ابراهیمیان	 Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT
Document Review		
Issue Purpose:	IFA	
Result Code: AP,AN,CM,RE,NC	CM	
Next Status : IFC,IFA,IFI,AFC,AB	IFA	
Responsible Department	MECHANICAL	
Commented Date	Apr/ 11/2022	
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.		


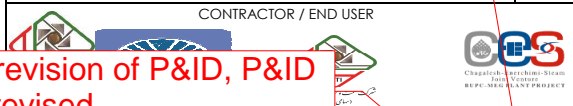
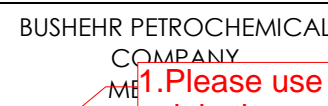
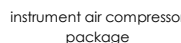
01	10/03/2022	For approval	KP	LdM	JR	
00	25/02/2022	For approval	KP	LdM	JR	
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
					Class: 1	Phase: P

			P.O. No.	52-98/445
			Document No.	17811-111
			Sheet No.	1
			Rev.No	01

6. In AB revision of P&ID, P&ID shall be revised.

3. 8.5 bara

1. Please use same unit in the document.

							
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inlet pulsation damper (20-25 barg)			
2	OPERATING PRESSURE	Bar(g)	9 bar(a)
3	DESIGN PRESSURE	Bar(g)	12.5 bar(g)
4	HYDROTTEST 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
Unit shall be same.			
outlet pulsation damper			
24	OPERATING PRESSURE	Bar(g)	21 bar(a)
25	DESIGN PRESSURE	Bar(g)	25 bar(g)
26	HYDROTTEST 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

2. Please double-check. In PID the design pressure is reported 25 bara while the set pressure of PVS on the downstream is 26 barg.

Same as pulsation dampener drawing, 26 barg shall be used.

51	NOTES:
52	1) Please refer to attachments for pulsation study records
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