











OWNER:  شرکت سست و موبلی توستر ایرانیاان (سهامی خاص)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
MC :  شرکت سست و موبلی توستر ایرانیاان (سهامی خاص)	PULSATION DAMPER MECHANICAL DATA SHEET FOR EMERGENCY INSTRUMENT AIR COMPRESSOR								
Owner Document Number: 17811-111							Project	Area	Phase
	BU	20	VD	303	ME	DSH	0028	Rev.: 00	Page 1 of 3

PULSATION DAMPER MECHANICAL DATA SHEET FOR EMERGENCY INSTRUMENT AIR COMPRESSOR

 شرکت سست و موبلی توستر ایرانیاان (سهامی خاص)	 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	Mar/08/2022	
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.		

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

1- Based on these data compressor data sheet shall be updated.
 2- Percentage of allowable peak-peak pulse @ cylinder flange shall be added to document.

VENDOR		Pulsation damper mechanical datasheet		P.O. No.	52-98/445
				Document No.	17811-111
				Sheet No.	1
				Rev.No	00
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	0-80		
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		
19	RAL COLOR		7035		
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.	Bar	0,245		
22	Maximum Allowable Pressure Drop as per clause 7.9.4.2.5.3.1 of API618.	Bar	0,0926		
22	Maximum Allowable Pressure Drop 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		Carbon steel		
32	NOZZLE SIZE INLET/OUTLET		Shell /pipes : SA106 gr B, Heads : SA234 WPB, flanges : SA105		
33	DIMENSIONS	DiAx IT	2" 300# for inlet and outlet, 1/2 NPT-F for drain		
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		
41	RAL COLOR		7035		
42	Maximum Allowable Compressor Cylinder Flange Pressure Pulsation as per clause 7.9.4.2.5.2.1 of API618.	Bar(g)	1,02		
43	Maximum Allowable Pressure Drop as per clause 7.9.4.2.5.3.1 of API 618.	Bar	0,154		
44	Maximum Allowable Pressure Drop as per clause 7.9.4.2.5.2.2.1 of API 618.	bar	1,522		
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NOTES:					
1) Please refer to attachments for pulsation study records					
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With reference to clause BU-20-D-000-PR-SPC-101 (ESS FOR AMBIENT, SITE CONDITION & UTILITY DATA), design temperature for instrument air line shall be at least 85C.

RAL color shall be deleted. Painting shall be as per APPROVED painting procedure.

Please check it again.

shall be move one row to upward

RAL color shall be deleted. Painting shall be as per APPROVED painting procedure.

For this row, vessel dimensions shall be specified.

If standard pipe and cap used for body of vessel, please recheck thickness