






OWNER:  شرکت سست و سویی توستر ایران (سهامی خاص)	<b>BUSHEHR PETROCHEMICAL COMPANY MEG PLANT</b>						EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
	<b>PULSATION DAMPER MECHANICAL DATA SHEET FOR EMERGENCY INSTRUMENT AIR COMPRESSOR</b>							 Netherlands	
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								00	1 of 3

## PULSATION DAMPER MECHANICAL DATA SHEET FOR EMERGENCY INSTRUMENT AIR COMPRESSOR

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

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		<b>Pulsation damper mechanical datasheet</b>		P.O. No.	52-98/445
		<b>BUSHEHR PETROCHEMICAL COMPANY MEG PLANT</b>		Document No.	17811-111
				Sheet No.	1
				Rev.No	00
				Service	instrument air compressor package
<b>inlet pulsation damper (20-DC-7080-1)</b>					
2	OPERATING PRESSURE	Bar(g)	<b>9 bar(a)</b>		
3	DESIGN PRESSURE	Bar(g)	<b>12,5 bar(g)</b>		
4	HYDROTEST PRESSURE	Bar(g)	<b>1.3 X MAWP as per ASME VIII</b>		
5	OPERATING TEMPERATURE	°C	<b>5-55</b>		
6	DESIGN TEMPERATURE	°C	<b>0-80</b>		
7	DESIGN CODE		<b>ASME VIII Div. 1 Ed. 2021</b>		
8	MATERIAL CERTIFICATE		<b>3.1</b>		
9	MATERIAL OF CONSTRUCTION		<b>Shell /pipes : SA106 gr B, Heads : SA234 WPB, flanges : SA105</b>		
10	NOZZLE SIZE		<b>2" 150# for inlet and outlet, 1/2 NPT-F for drain</b>		
11	DIMENSIONS	DiAx IT	<b>8" x 750mm</b>		
12	WEIGHT EMPTY	kg	<b>65</b>		
13	WEIGHT FILLED WITH WATER	kg	<b>95</b>		
14	CAPACITY	Liters	<b>30</b>		
15	TESTING AS PER CODE		<b>ASME VIII Div. 1 Ed. 2021</b>		
16	CORROSION ALLOWANCE	mm	<b>3</b>		
17	PWHT	Yes/No	<b>No</b>		
18	THICKNESS	mm	<b>8,18</b>		
19	RAL COLOR		<b>7035</b>		
20	Design approach		<b>API 618 Design approach 2</b>		
21	Maximum Allowable Compressor Cylinder Flange Pressure Pulsation as per clause 7.9.4.2.5.2.1 of API618.	Bar	<b>0,245</b>		
22	Maximum Allowable Pressure Drop as per clause 7.9.4.2.5.3.1 of API 618.	Bar	<b>0,0926</b>		
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	<b>0,549</b>		
<b>outlet pulsation damper (20-DC-7080-2)</b>					
24	OPERATING PRESSURE	Bar(g)	<b>21 bar(a)</b>		
25	DESIGN PRESSURE	Bar(g)	<b>25 bar(g)</b>		
26	HYDROTEST PRESSURE	Bar(g)	<b>1.3 X MAWP as per ASME VIII</b>		
27	OPERATING TEMPERATURE	°C	<b>180</b>		
28	DESIGN TEMPERATURE	°C	<b>0-210</b>		
29	DESIGN CODE		<b>ASME VIII Div. 1 Ed. 2021</b>		
30	MATERIAL CERTIFICATE		<b>3.1</b>		
31	MATERIAL OF CONSTRUCTION		<b>Carbon steel</b>		
32	NOZZLE SIZE INLET/OUTLET		<b>Shell /pipes : SA106 gr B, Heads : SA234 WPB, flanges : SA105</b>		
33	DIMENSIONS	DiAx IT	<b>2" 300# for inlet and outlet, 1/2 NPT-F for drain</b>		
34	WEIGHT EMPTY	kg	<b>67</b>		
35	WEIGHT FILLED WITH WATER	kg	<b>97</b>		
36	CAPACITY	Liters	<b>30</b>		
37	TESTING AS PER CODE		<b>ASME VIII Div. 1 Ed. 2021</b>		
38	CORROSION ALLOWANCE	mm	<b>3</b>		
39	PWHT	Yes/No	<b>No</b>		
40	THICKNESS	mm	<b>8</b>		
41	RAL COLOR		<b>7035</b>		
42	Maximum Allowable Compressor Cylinder Flange Pressure Pulsation as per clause 7.9.4.2.5.2.1 of API618.	Bar(g)	<b>1,02</b>		
43	Maximum Allowable Pressure Drop as per clause 7.9.4.2.5.3.1 of API 618.	Bar	<b>0,154</b>		
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	<b>1,522</b>		
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51	<b>NOTES:</b>				
52	<b>1) Please refer to attachments for pulsation study records</b>				
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