







OWNER: 	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	
	Pulsation dampers mechanical data sheet for reciprocating compressor								
MC:  شرکت سفت و سوی توسعه ایران‌شیراز	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-11C	BU	20	VD	303	ME	DSH	0027	Rev.:	Page
								00	1 of 3

Mechanical items will be checked after sending pulsation dampener calculation.




Following items shall be added to data sheet:

- 1- Dampener thickness.
- 2- RAL number of pulsation dampener.
- 3- Maximum Allowable Compressor Cylinder Flange Pressure Pulsation as per clause 7.9.4.2.5.2.1 of API618.
- 4- 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.
- 5- Pulsation dampener design approach shall be added to document.
- 6- Maximum Allowable Pressure Drop as per clause 7.9.4.2.5.3.1 of API 618.
- 7- Capacity of pulsation dampener will be checked after specifying cylinder stroke and cylinder diameter.
- 8- DESIGN APPROACH STUDY SHALL BE ADDED.

Pulsation dampers mechanical data sheet for reciprocating compressor

		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 /25/2021	
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.		



00	11/12/2020	For approval	KP	KP	KP	
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
					Class: 1	Phase: p

OWNER  شرکت پتروشیمی بوته‌ر	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR: 		
	Pulsation dampers mechanical data sheet for reciprocating compressor								
MC :  شرکت سفت و سوی توسعه ایرانیان	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-11C	BU	20	VD	303	ME	DSH	0027	Rev.:	Page
								00	2 of 3

TABULATION OF REVISED PAGES

Page	D00	D01	D02	D03	D04
1.	X				
2.	X				
3.	X				
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
31.					
32.					
33.					
34.					

Page	D00	D01	D02	D03	D04
35.					
36.					
37.					
38.					
39.					
40.					
41.					
42.					
43.					
44.					
45.					
46.					
47.					
48.					
49.					
50.					
51.					
52.					
53.					
54.					
55.					
56.					
57.					
58.					
59.					
60.					
61.					
62.					
63.					
64.					
65.					
66.					
67.					

 Airpack <small>Netherlands</small>	Pulsation damper mechanical datasheet	P.O. No.	52-98/445
		Document No.	17811-11C
		Sheet No.	3
		Rev.No	00
 CONTRACTOR / END USER		BUSHEHR PETROCHEMICAL COMPANY MEG PLANT	
		Service	instrument air and nitrogen compressor packages

1	inlet pulsation damper (20-DC-7080-1)		
2	OPERATING PRESSURE	Bar(g)	8,5 bar(a) Shall be specified in next revision.
12	DESIGN PRESSURE	Bar(g)	12,5 bar(g) Shall be specified in next revision.
13	HYDROTEST PRESSURE	Bar(g)	TBC ←
14	OPERATING TEMPERATURE	°C	5-52 ←
15	DESIGN TEMPERATURE	°C	0-80
16	DESIGN CODE		ASME VIII
17	MATERIAL CERTIFICATE		3.1
18	MATERIAL OF CONSTRUCTION		Carbon steel ← Exact material grade shall be added.
19	NOZZLE SIZE INLET/OUTLET		2" 150#
22	DIMENSIONS	DIx TT	8" x 750mm
23	WEIGHT EMPTY	kg	65
24	WEIGHT FILLED WITH WATER	kg	95
25	CAPACITY	Liters	30 3 mm.
26	TESTING AS PER CODE		ASME VIII
27	CORROSION ALLOWANCE	mm	1,5 ← Discrepancy with PID.
32	PWHT	Yes/No	No
1	outlet pulsation damper (20-DC-17080-2)		
2	OPERATING PRESSURE	Bar(g)	21,5 bar(a) ← Discrepancy with PID. On PID DP is reported 21 bara.
12	DESIGN PRESSURE	Bar(g)	25 bar(g)
13	HYDROTEST PRESSURE	Bar(g)	TBC ←
14	OPERATING TEMPERATURE	°C	5-55
15	DESIGN TEMPERATURE	°C	0-80 ← Discrepancy with PID. On PID DP is reported 35.25 bara.
16	DESIGN CODE		ASME VIII
17	MATERIAL CERTIFICATE		3.1
18	MATERIAL OF CONSTRUCTION		Carbon steel ← Exact material grade shall be added.
19	NOZZLE SIZE INLET/OUTLET		2" 1300# ← 1300#????
22	DIMENSIONS	DIx TT	8" x 750mm
23	WEIGHT EMPTY	kg	67
24	WEIGHT FILLED WITH WATER	kg	97
25	CAPACITY	Liters	30
26	TESTING AS PER CODE		ASME VIII
27	CORROSION ALLOWANCE	mm	1,5 ← 3 mm.
32	PWHT	Yes/No	No
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48	NOTES:		
49			
50			
51			