








OWNER 	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
	P&ID for reciprocating compressor COMPRESSOR PACKAGE P & ID								
MC :   شرکت سفت و سوی توسعه ایرانیان	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-03	BU	20	VD	303	PR	DWG	0013	Rev.:	Page
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This document is checked only for compressor 7080. New document should be generated for compressor 1002.

COMPRESSOR PACKAGE P & ID

P&ID for reciprocating compressor

	 Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT
Document Review		
Issue Purpose:	FA	
Result Code: AP,AN,CM,RE,NC	CM	
Next Status : IFC,IFA,IFI,AFC,AB	IFA	
Responsible Department	MECHANICAL	
Commented Date	May.05.2021	
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.		

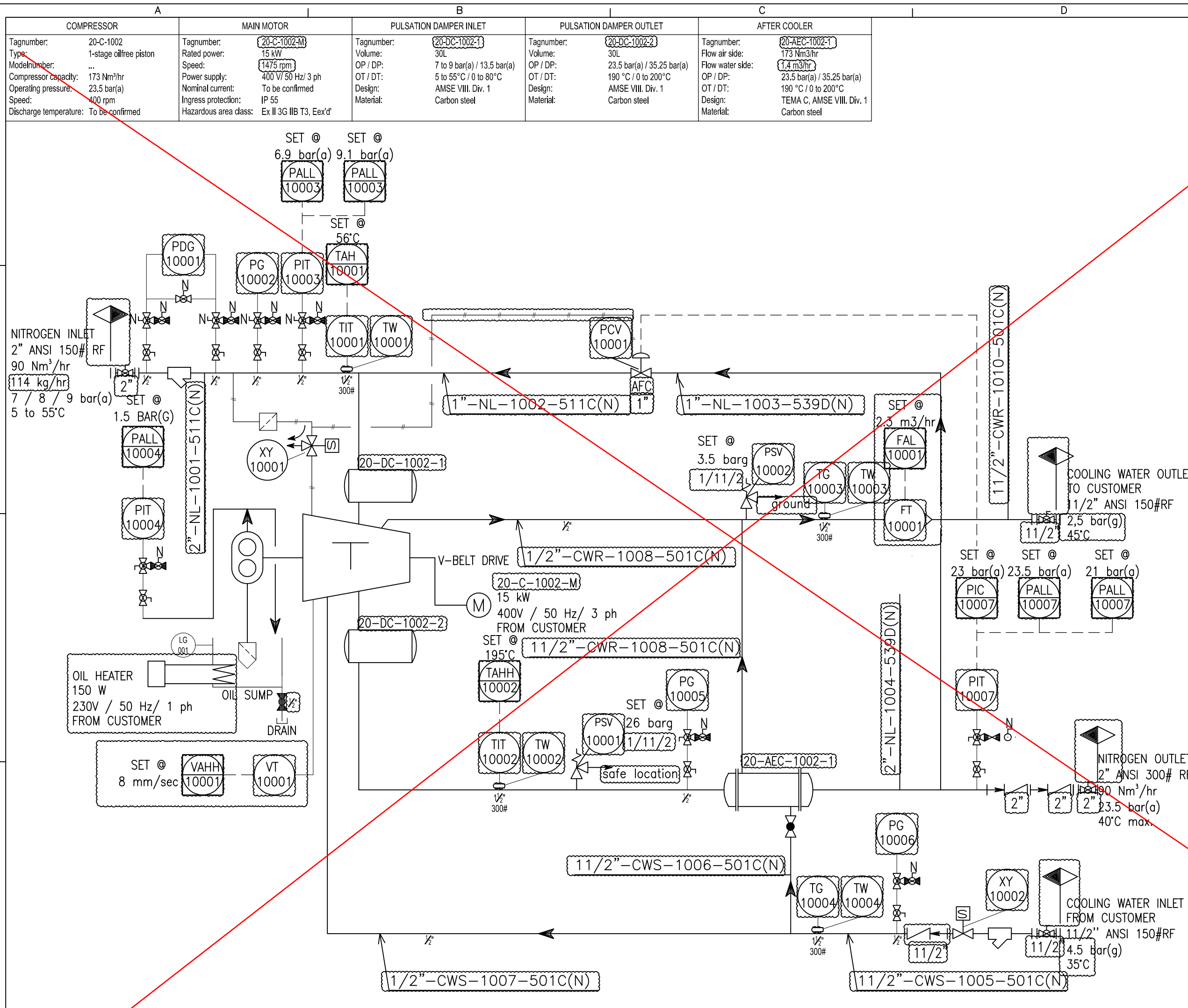
00	04/12/2020	For approval	KP	KP	PW	
00	30/10/2020	For approval	KP	KP	PW	
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
					Class: 1	Phase: 1p

OWNER  شرکت پتروشیمی بوئهر	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR: 		
	P&ID 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: 17811-03	BU	20	VD	303	PR	DWG	0013	Rev.:	Page
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A		B		C		D			
COMPRESSOR		MAIN MOTOR		PULSATION DAMPER INLET		PULSATION DAMPER OUTLET		AFTER COOLER	
Tagnumber:	20-C-1002	Tagnumber:	20-C-1002-M	Tagnumber:	20-DC-1002-1	Tagnumber:	20-DC-1002-2	Tagnumber:	20-AEC-1002-1
Type:	1-stage oilfree piston	Rated power:	15 kW	Volume:	30L	Volume:	30L	Flow air side:	173 Nm ³ /hr
Model number:	...	Speed:	1475 rpm	OP / DP:	7 to 9 bar(a) / 13.5 bar(a)	OP / DP:	23.5 bar(a) / 35.25 bar(a)	Flow water side:	1.4 m ³ /hr
Compressor capacity:	173 Nm ³ /hr	Power supply:	400 V / 50 Hz / 3 ph	OT / DT:	5 to 55°C / 0 to 80°C	OT / DT:	190 °C / 0 to 200°C	OP / DP:	23.5 bar(a) / 35.25 bar(a)
Operating pressure:	23.5 bar(a)	Nominal current:	To be confirmed	Design:	AMSE VIII. Div. 1	Design:	AMSE VIII. Div. 1	OT / DT:	190 °C / 0 to 200°C
Speed:	400 rpm	Ingress protection:	IP 55	Material:	Carbon steel	Material:	Carbon steel	Design:	TEMA C, AMSE VIII. Div. 1
Discharge temperature:	To be confirmed	Hazardous area class:	Ex II 3G IIB T3, Eex'd'					Material:	Carbon steel

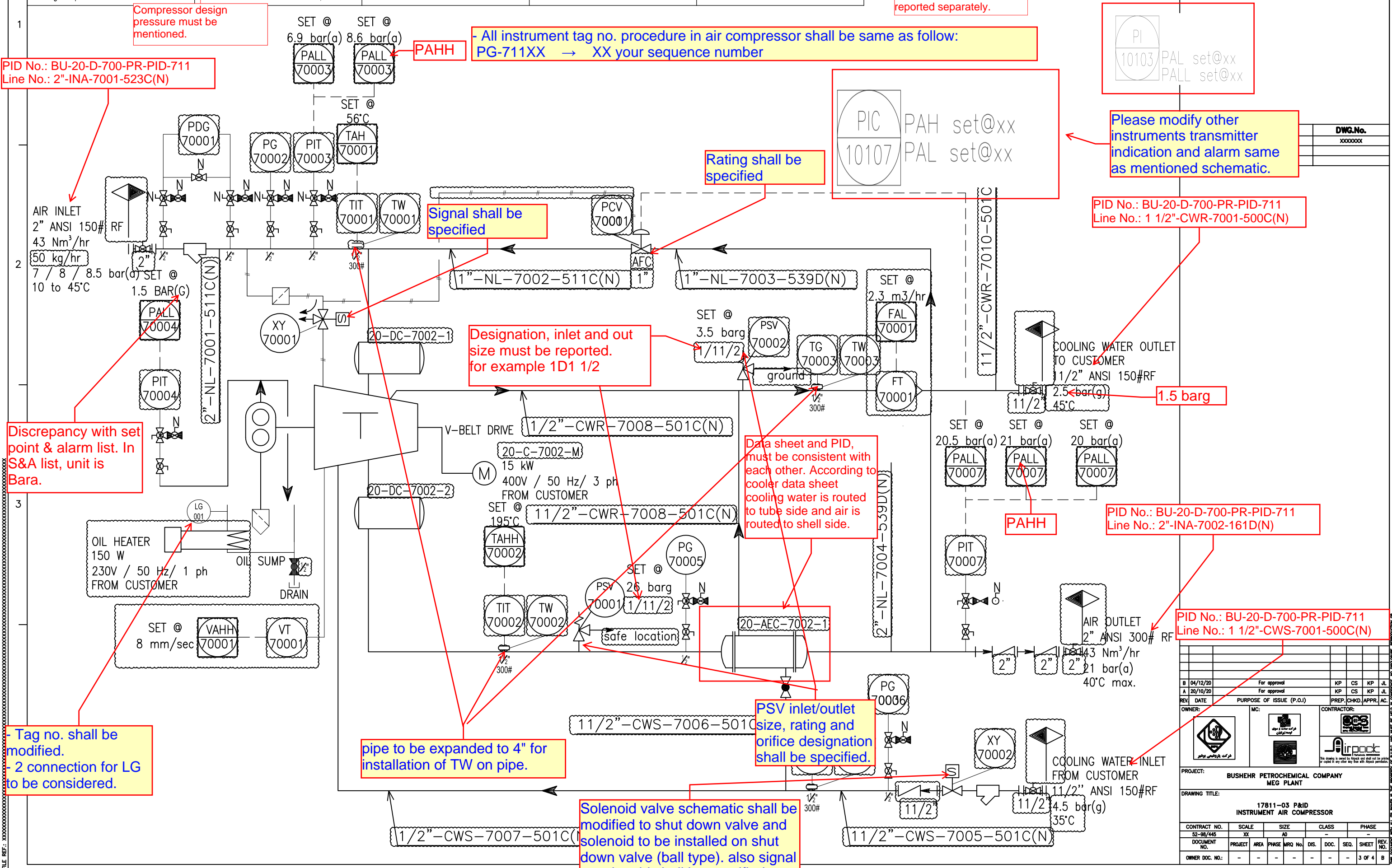
GENERAL NOTES

REFERENCE DRAWINGS	DWG.No.
XXXXXXXX	XXXXXXXX

REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.	AC.
B	04/12/20	For approval	KP	CS	KP	JL
A	20/10/20	For approval	KP	CS	KP	JL

OWNER:	MC:	CONTRACTOR:							
PROJECT: BUSHEHR PETROCHEMICAL COMPANY MEG PLANT									
DRAWING TITLE: COMPRESSOR PACKAGE P&ID									
NITROGEN COMPRESSOR									
CONTRACT NO.	SCALE	SIZE	CLASS	PHASE					
52-98/445	XX	A0	-	1					
DOCUMENT NO.	PROJECT	AREA	PHASE	MRQ No.	DIS.	DOC.	SEQ.	SHEET	REV. NO.
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OWNER DOC. NO.:	BU-20-VD-303-PR-DWG-0013 1 OF 4								

A	B	C	D	GENERAL NOTES
COMPRESSOR	MAIN MOTOR	PULSATION DAMPER INLET	PULSATION DAMPER OUTLET	AFTER COOLER
Tagnumber: 20-C-7080 Type: 1-stage oilfree piston Modelnumber: ... Compressor capacity: 173 Nm ³ /hr Operating pressure: 21 bar(a) Speed: 400 rpm Discharge temperature: To be confirmed	Tagnumber: 20-C-7080-M Rated power: 15 kW Speed: 1475 rpm Power supply: 400 V / 50 Hz / 3 ph Nominal current: To be confirmed Ingress protection: IP 55 Hazardous area class: Ex II 3G IIB T3, Eex'd	Tagnumber: 20-DC-7080-1 Volume: 30L OP / DP: 7 to 8.5 bar(a) / 13.5 bar(a) OT / DT: 5 to 55°C / 0 to 80°C Design: AMSE VIII. Div. 1 Material: Carbon steel	Tagnumber: 20-DC-7080-2 Volume: 30L OP / DP: 21 bar(a) / 35.25 bar(a) OT / DT: 190 °C / 0 to 200°C Design: AMSE VIII. Div. 1 Material: Carbon steel	Tagnumber: 20-AEC-7080-1 Flow air side: 173 Nm ³ /hr Flow water side: 1.4 m ³ /hr OP / DP: 21 bar(a) / 35.25 bar(a) OT / DT: 190 °C / 0 to 200°C Design: TEMA C, AMSE VIII. Div. 1 Material: Carbon steel



PID No.: BU-20-D-700-PR-PID-711
Line No.: 2"-INA-7001-523C(N)

Discrepancy with set point & alarm list. In S&A list, unit is Bara.

- Tag no. shall be modified.
- 2 connection for LG to be considered.

Compressor design pressure must be mentioned.

- All instrument tag no. procedure in air compressor shall be same as follow:
PG-711XX → XX your sequence number

Signal shall be specified

Designation, inlet and out size must be reported. for example 1D1 1/2

pipe to be expanded to 4" for installation of TW on pipe.

Solenoid valve schematic shall be modified to shut down valve and solenoid to be installed on shut down valve (ball type). also signal to solenoid shall be specified.

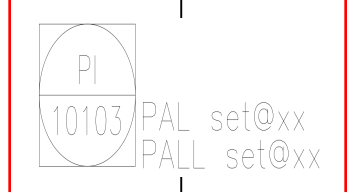
Rating shall be specified

Data sheet and PID, must be consistent with each other. According to cooler data sheet cooling water is routed to tube side and air is routed to shell side.

PSV inlet/outlet size, rating and orifice designation shall be specified.

Process properties of shell and tube side must be reported separately.

There are Discrepancies with tags on PID.



Please modify other instruments transmitter indication and alarm same as mentioned schematic.

PID No.: BU-20-D-700-PR-PID-711
Line No.: 1 1/2"-CWR-7001-500C(N)

PID No.: BU-20-D-700-PR-PID-711
Line No.: 2"-INA-7002-161D(N)

PID No.: BU-20-D-700-PR-PID-711
Line No.: 1 1/2"-CWS-7001-500C(N)

B 04/12/20		For approval		KP	CS	KP	JL
A 20/10/20		For approval		KP	CS	KP	JL
REV.	DATE	PURPOSE OF ISSUE (P.O.I.)		PREP.	CHKD.	APPR.	AC.
OWNER:		MC:		CONTRACTOR:			
PROJECT:		BUSHEHR PETROCHEMICAL COMPANY MEG PLANT					
DRAWING TITLE: 17811-03 P&ID INSTRUMENT AIR COMPRESSOR							
CONTRACT NO.	52-98/445	XX	AD	CLASS	-	PHASE	-
DOCUMENT NO.	PROJECT	AREA	PHASE	MRQ No.	DIS.	DOC.	SEQ.
OWNER DOC. NO.:	-	-	-	-	-	-	3 OF 4

- All instrument tag no. procedure in air compressor shall be same as follow:
 XY-711XX → XX your sequence number

JB numbering procedure shall be followed same as attached file

Temperature signals shall be specified

Schematic shall be modified for panel mounted

LP-C-7080-01

UCP-C-7080-01

GENERAL NOTES

REFERENCE DRAWINGS	DWG.No.
XXXXXXXX	XXXXXXXX

REV	DATE	PURPOSE OF ISSUE (P.O.I)	PREP.	CHKD.	APPR.	AC.
B	04/12/20	For approval	KP	CS	KP	JL
A	20/10/20	For approval	KP	CS	KP	JL

OWNER:

MC:

CONTRACTOR:

PROJECT: BUSHEHR PETROCHEMICAL COMPANY
 MEG PLANT

DRAWING TITLE:
 17811-03 P&ID
 INSTRUMENT AIR COMPRESSOR

CONTRACT NO.	SCALE	SIZE	CLASS	PHASE
52-98/445	XX	A0	-	-

DOCUMENT NO.	PROJECT	AREA	PHASE	MRQ No.	DIS.	DOC.	SEQ.	SHEET	REV. NO.
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