










OWNER:  شرکت مست و سوی توهر ایرانیاان (سهامی خاص)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	
	P&ID for reciprocating compressor							 Netherlands	
MC :   شرکت مست و سوی توهر ایرانیاان (سهامی خاص)	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-03B	BU	20	VD	303	PR	DWG	0014	Rev.:	Page
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P&ID for reciprocating compressor

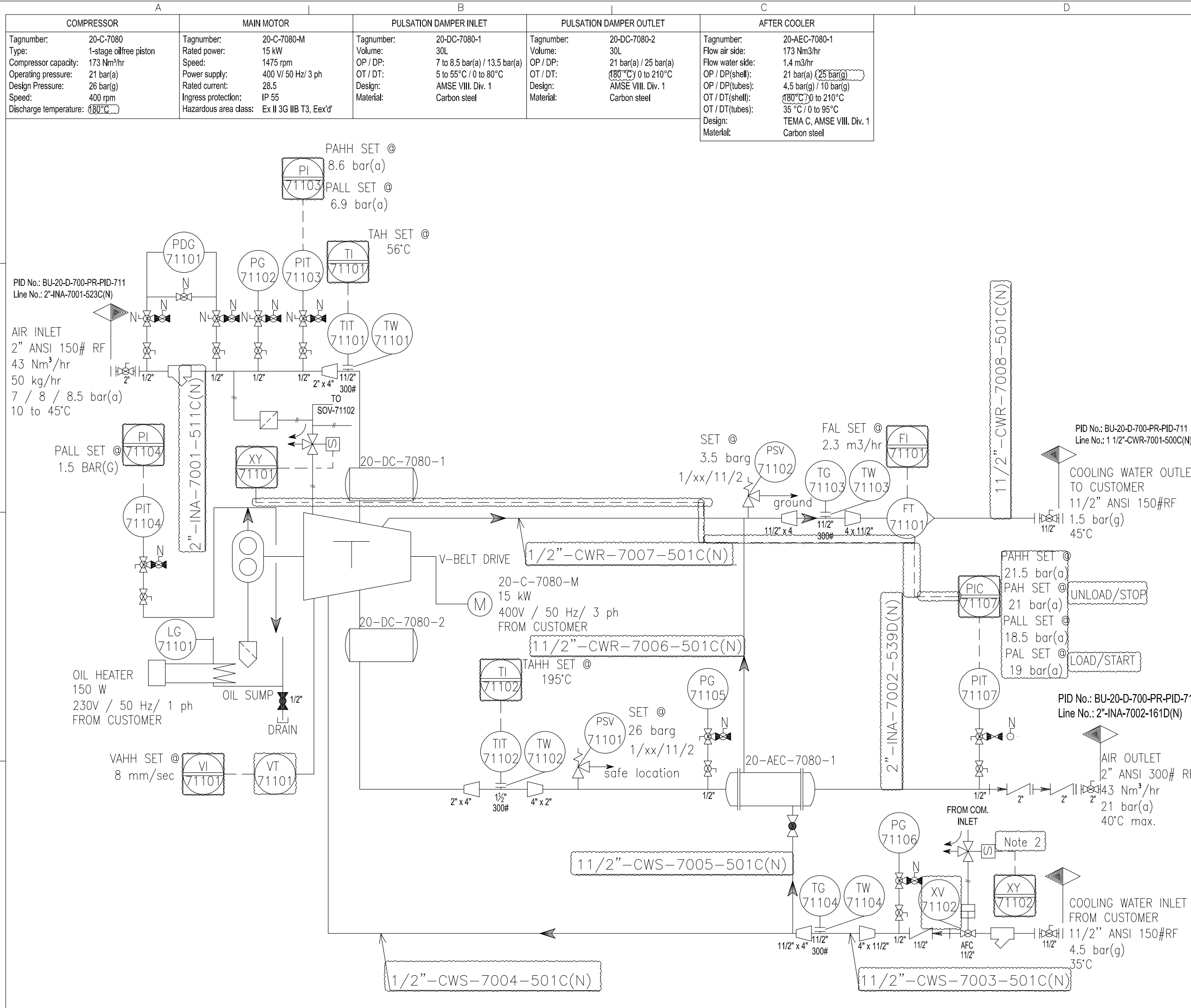
01	10/08/2021	For approval	KP	KP	PW	
00	30/10/2020	For approval	KP	KP	PW	
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
					Class: 1	Phase: P

OWNER:  شرکت ست و سوبی آوند ایرانین (سهامی خاص)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR: 		
	P&ID for reciprocating compressor								
MC :   شرکت ست و سوبی آوند ایرانین (سهامی خاص)	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
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COMPRESSOR	
Tagnumber:	20-C-7080
Type:	1-stage oilfree piston
Compressor capacity:	173 Nm ³ /hr
Operating pressure:	21 bar(a)
Design Pressure:	26 bar(g)
Speed:	400 rpm
Discharge temperature:	180°C

MAIN MOTOR	
Tagnumber:	20-C-7080-M
Rated power:	15 kW
Speed:	1475 rpm
Power supply:	400 V / 50 Hz / 3 ph
Rated current:	28.5
Ingress protection:	IP 55
Hazardous area class:	Ex II 3G IIB T3, Eex'd'

PULSATION DAMPER INLET	
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

PULSATION DAMPER OUTLET	
Tagnumber:	20-DC-7080-2
Volume:	30L
OP / DP:	21 bar(a) / 25 bar(a)
OT / DT:	180°C / 0 to 210°C
Design:	AMSE VIII. Div. 1
Material:	Carbon steel

AFTER COOLER	
Tagnumber:	20-AEC-7080-1
Flow air side:	173 Nm ³ /hr
Flow water side:	1.4 m ³ /hr
OP / DP(shell):	21 bar(a) / 25 bar(g)
OP / DP(tubes):	4.5 bar(g) / 10 bar(g)
OT / DT(shell):	180°C / 0 to 210°C
OT / DT(tubes):	35°C / 0 to 95°C
Design:	TEMA C, AMSE VIII. Div. 1
Material:	Carbon steel

GENERAL NOTES

NOTES :

- All signals mentioned in P&ID will be transferred to FCS via Modbus TCP/IP communication link
- CW valve will open on compressor start and close on compressor stop

HOLDS:

- API designator for PSV to be determined after completion of PSV calculation

REFERENCE DRAWINGS	DWG.No.
xxxxxxx	xxxxxxx

REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.	AC.
01	04/12/20	For approval	KP	CS	KP	JL
00	20/10/20	For approval	KP	CS	KP	JL

OWNER:

CONTRACTOR:

PROJECT: BUSHEHR PETROCHEMICAL COMPANY MEG PLANT

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

CONTRACT NO.	SCALE	SIZE	CLASS	PHASE
S2-98/445	XX	A0	1	P

DOCUMENT NO.	PROJECT	AREA	PHASE	MRQ No.	DIS.	DOC.	SEQ.	SHEET	REV. NO.
OWNER DOC. NO.:	BU	20	VD	303	PR	DWG	0066	1 OF 2	01

