











OWNER:  شرکت سست و سویی توهر ایران (سهامی خاص)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	
	P&ID FOR EMERGENCY INSTRUMENT AIR COMPRESSOR							 Netherlands	
MC :  شرکت سست و سویی توهر ایران (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	0066	Rev.:	Page
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P&ID FOR EMERGENCY INSTRUMENT AIR COMPRESSOR

 شرکت سست و سویی توهر ایران (سهامی خاص)	 Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT
Document Review		
Issue Purpose:	AFC	
Result Code: AP,AN,CM,RE,NC	AN	
Next Status : IFC,IFA,IFI,AFC,AB	AFC	
Responsible Department	MECHANICAL	
Commented Date	JAN/17/2022	
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.		

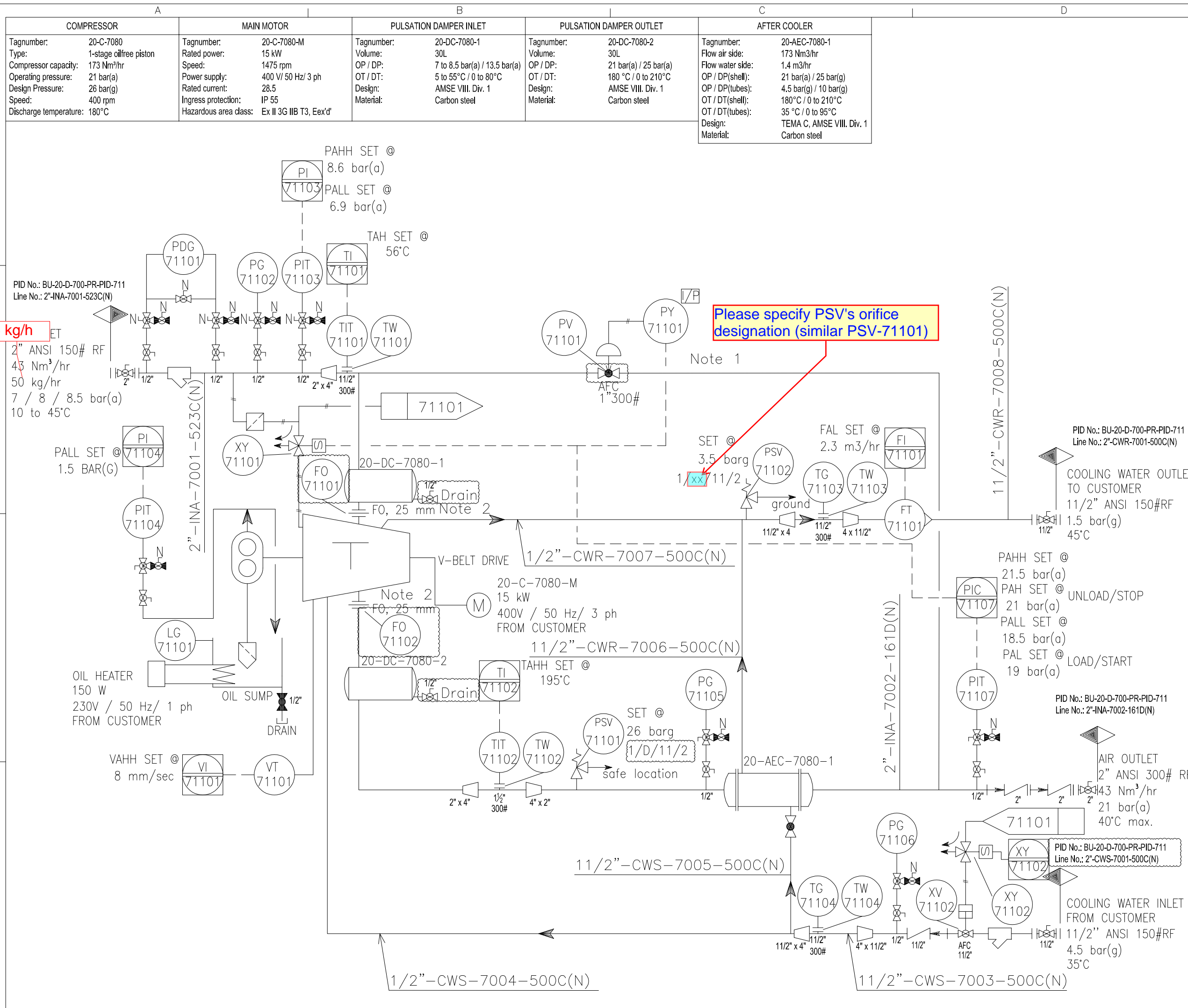
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
04	07/01/2022	Approved for Construction	KP	KP	PW	
03	10/12/2021	Approved for Construction	KP	KP	PW	
02	04/11/2021	For approval	KP	KP	PW	
01	11/06/2021	For approval	KP	KP	PW	
00	30/10/2020	For approval	KP	KP	PW	
					Class: 1	Phase: P

OWNER:  شرکت ست و سبوی توسه ایرانین (سهانی خاص)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR: 		
	P&ID FOR EMERGENCY INSTRUMENT AIR COMPRESSOR								
MC :   شرکت ست و سبوی توسه ایرانین (سهانی خاص)	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-03B	BU	20	VD	303	PR	DWG	0066	Rev.:	Page
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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:

- This line is to recycle the flow that is not required to go into the system any additional flow is recycled to the inlet based on pressure setting on PIT-71107
- FO (orifice) have been added based on preliminary pulsation study
- Compressor starts by means of PIT-71107 low pressure and stops by means of PIT-71101 high pressure

HOLDS:

- Deleted

It seems that PIT-71107 is correct. Please clarify.

Please specify PSV's orifice designation (similar PSV-71101)

55 kg/h

REFERENCE DRAWINGS	DWG.No.
xxxxxxx	xxxxxxx

REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.	AC.
04	07/01/21	Approved for Construction	KP	CS	KP	JL
03	09/12/21	For construction	KP	CS	KP	JL
02	04/12/20	For approval	KP	CS	KP	JL
01	04/12/20	For approval	KP	CS	KP	JL
00	20/10/20	For approval	KP	CS	KP	JL

Approved for Construction

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.
	BU	20	VD	303	PR	DWG	0066	1 OF 2	04

