



**BUSHEHR PETROCHEMICAL COMPANY
MEG PLANT**



**P&ID FOR EMERGENCY INSTRUMENT AIR
COMPRESSOR**






Owner Document Number: 17811-03B	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
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**P&ID FOR EMERGENCY INSTRUMENT AIR
COMPRESSOR**

		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		Jul.14.2021
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.		

01	11/06/2021	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: 2	Phase: DE

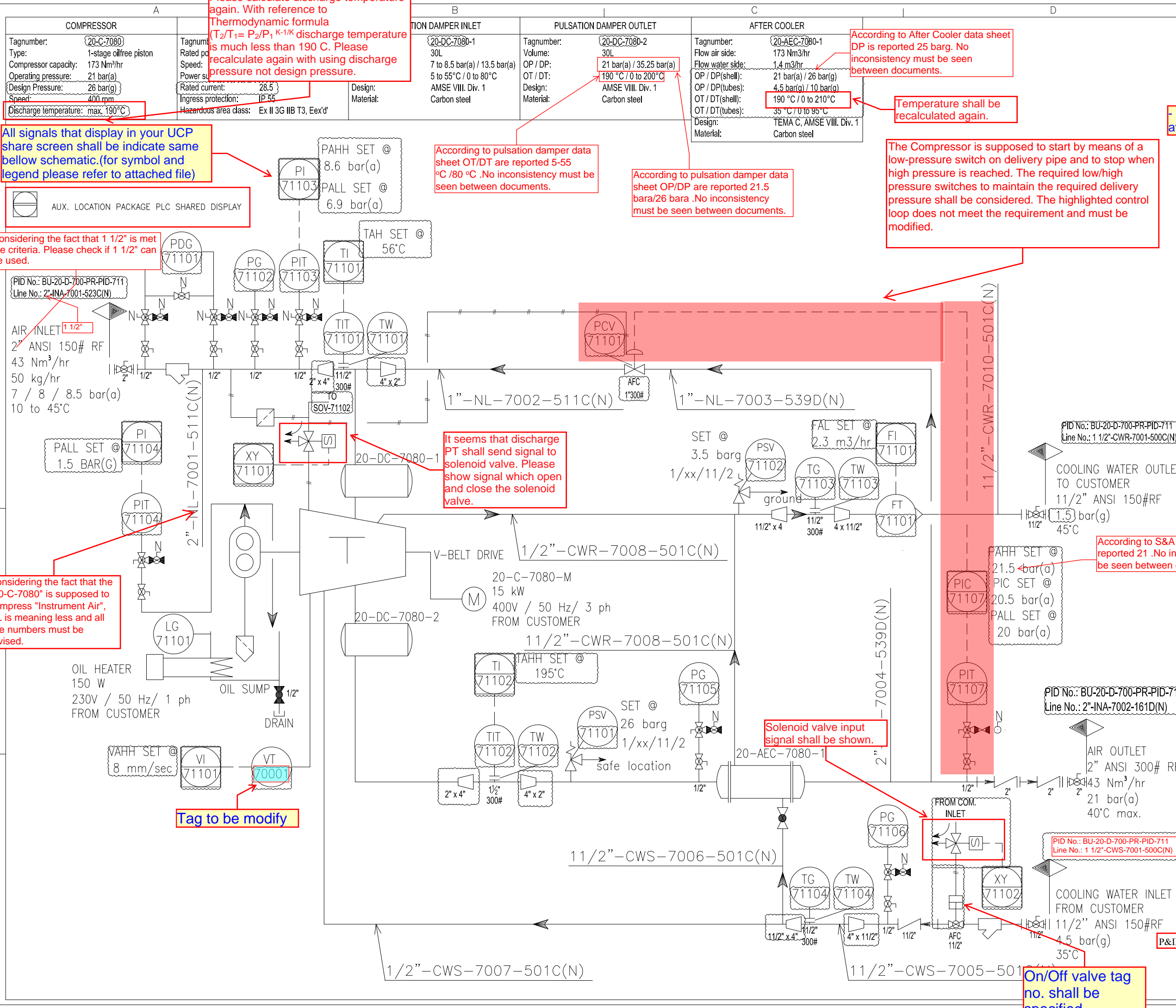
OWNER:  شرکت پتروشیمی بوشهر BUPC	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR:  Airpack Netherlands					
	P&ID FOR EMERGENCY INSTRUMENT AIR COMPRESSOR											
MC :  شرکت سمت و سوی توسعه ایرانیاين NDV EC	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445				
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3.	X	X			
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Please calculate discharge temperature again. With reference to Thermodynamic formula $(T_2/T_1 = P_2/P_1)^{K-1/K}$ discharge temperature is much less than 190 C. Please recalculate again with using discharge pressure not design pressure.

All signals that display in your UCP share screen shall be indicate same bellow schematic.(for symbol and legend please refer to attached file)

Considering the fact that 1 1/2" is met the criteria. Please check if 1 1/2" can be used.

Considering the fact that the "20-C-7080" is supposed to compress "Instrument Air", NL is meaning less and all line numbers must be revised.

Tag to be modify

According to pulsation damper data sheet OT/DT are reported 5-55 °C / 80 °C .No inconsistency must be seen between documents.

According to pulsation damper data sheet OP/DP are reported 21.5 bara/26 bara .No inconsistency must be seen between documents.

According to After Cooler data sheet DP is reported 25 barg. No inconsistency must be seen between documents.

Temperature shall be recalculated again.

The Compressor is supposed to start by means of a low-pressure switch on delivery pipe and to stop when high pressure is reached. The required low/high pressure switches to maintain the required delivery pressure shall be considered. The highlighted control loop does not meet the requirement and must be modified.

It seems that discharge PT shall send signal to solenoid valve. Please show signal which open and close the solenoid valve.

Solenoid valve input signal shall be shown.

According to S&A list HH Alarm is reported 21 .No inconsistency must be seen between documents.

On/Off valve tag no. shall be specified

GENERAL NOTES
 NOTES :
 Please add in general note: All signals mentioned in P&ID will be transferred to FCS via Modbus TCP/IP communication link.

- Symbol, Legend and abbreviation same as attached file shall be submitted by vendor.

1. API designator for PSV to be determined after completion of PSV calculation

REFERENCE DRAWINGS	DWG.No.
xxxxxxx	xxxxxxx

PID No.: BU-20-D-700-PR-PID-711 Line No.: 2"-INA-7001-523C(N)	
COOLING WATER OUTLET TO CUSTOMER 1 1/2" ANSI 150#RF 1.5 bar(g) 45°C	
PID No.: BU-20-D-700-PR-PID-711 Line No.: 1 1/2"-CWR-7001-500C(N)	
AIR INLET 2" ANSI 150# RF 43 Nm ³ /hr 50 kg/hr 7 / 8 / 8.5 bar(a) 10 to 45°C	
PID No.: BU-20-D-700-PR-PID-711 Line No.: 2"-INA-7002-161D(N)	
AIR OUTLET 2" ANSI 300# RF 43 Nm ³ /hr 21 bar(a) 40°C max.	
PID No.: BU-20-D-700-PR-PID-711 Line No.: 1 1/2"-CWS-7001-500C(N)	
COOLING WATER INLET FROM CUSTOMER 1 1/2" ANSI 150#RF 4.5 bar(g) 35°C	
PID No.: BU-20-D-700-PR-PID-711 Line No.: 1 1/2"-CWS-7005-501C(N)	
FROM COM. INLET	
PID No.: BU-20-D-700-PR-PID-711 Line No.: 1 1/2"-CWS-7006-501C(N)	
1 1/2"-CWS-7007-501C(N)	
1 1/2"-CWS-7008-501C(N)	
1 1/2"-CWR-7008-501C(N)	
2"-7004-539D(N)	
1"-NL-7002-511C(N)	
1"-NL-7003-539D(N)	
1 1/2"-CWR-7010-501C(N)	

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PROJECT: BUSHEHR PETROCHEMICAL COMPANY MEG PLANT									
DRAWING TITLE: P&ID FOR EMERGENCY INSTRUMENT AIR COMPRESSOR									
CONTRACT NO.	SCALE	SIZE	CLASS	PHASE					
52-98/445	XX	A0	-	1					
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OWNER DOC. NO. BU-20-VD-303-PR-DWG-0066									

