



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR TEMPERATURE TRANSMITTER

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

IN

نوع مدرک

DT

سریال

0005

نسخه

D02

شماره صفحه: ۱ از ۷

طرح نگهداشت و افزایش تولید 27 مخزن

DATA SHEET FOR TEMPERATURE TRANSMITTER/SWITCH

نگهداشت و افزایش تولید میدان نفتی بینک

D02	SEP.2023	AFC	P.Hajisadeghi	M.Fakharian	A.M.Mohseni	
D01	NOV.2022	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D00	MAR.2022	IFC	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class: 1

CLIENT Doc. Number: F9Z-708926

status:

IDC: Inter-Discipline Check

IFC: Issued For Comment

IFA: Issued For Approval

AFD: Approved For Design

AFC: Approved For Construction

AFP: Approved For Purchase

AFQ: Approved For Quotation

IFI: Issued For Information

AB-R: As-Built for CLIENT Review

AB-A: As-Built -Approved



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نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR TEMPERATURE TRANSMITTER

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

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120

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سریال

0005

نسخه

D02

شماره صفحه: ۲ از ۷

REVISION RECORD SHEET

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3	X	X			
4	X	X			
5	X	X	X		
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نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR TEMPERATURE TRANSMITTER

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

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D02

شماره صفحه: ۳ از ۷

REFERENCE DOCUMENTS :

D02

Specification For Instrumentation
Process Basis Of Design
Piping Material Specification
Hazardous Area Classification Layout
Instrument & Control System Design Criteria

BK-GNRAL-PEDCO-000-IN-SP-0001-D04
BK-GNRAL-PEDCO-000-PR-DB-0001-D04
BK-GCS-PEDCO-120-PI-SP-0001-D02
BK-GCS-PEDCO-120-SA-PY-0002-D00
BK-GCS-PEDCO-120-IN-DC-0002-D01

Symbol & Legend For PFD and P&ID
P&ID - Gas Compression Inlet Gas Pipeline (Binak)
P&ID - Gas Compression Inlet Gas Pipeline (Golkhari)
P&ID - Slug Catcher System
P&ID - Gas Compression Inlet Knock Out Drum
P&ID - 1st Stage Gas Compression Suction Drums
P&ID - 1st Stage Gas Compression Compressors
P&ID - 1st Stage Gas Compression Air Coolers
P&ID - 2nd Stage Gas Compression Suction Drums
P&ID - 2nd Stage Gas Compression Compressors
P&ID - 2nd Stage Gas Compression Air Coolers
P&ID - 2nd Stage Gas Compression Discharge Drum
P&ID - Gas Compression Dehydration Package
P&ID - Lean Glycol Storage Tank
P&ID - Instrument & Plant Air System
P&ID - Nitrogen Generation System
P&ID - Close Drain System
P&ID - Corrosion Inhibitor Package
P&ID - Methanol Injection Package
P&ID - LP Flare System
P&ID - Oily Water Sewer
P&ID - Fuel Gas System
P&ID - Diesel Oil System
P&ID - Potable Water System
P&ID - Glycol Sump Drum
P&ID - Fire Water Network
P&ID - Total Flooding System For Extension of Existing Elect. Building

BK-GCS-PEDCO-120-PR-PI-0001-D04
BK-GCS-PEDCO-120-PR-PI-0002-D06
BK-GCS-PEDCO-120-PR-PI-0003-D06
BK-GCS-PEDCO-120-PR-PI-0004-D06
BK-GCS-PEDCO-120-PR-PI-0005-D06
BK-GCS-PEDCO-120-PR-PI-0006-D06
BK-GCS-PEDCO-120-PR-PI-0007-D06
BK-GCS-PEDCO-120-PR-PI-0008-D06
BK-GCS-PEDCO-120-PR-PI-0009-D06
BK-GCS-PEDCO-120-PR-PI-0010-D06
BK-GCS-PEDCO-120-PR-PI-0011-D06
BK-GCS-PEDCO-120-PR-PI-0012-D06
BK-GCS-PEDCO-120-PR-PI-0013-D06
BK-GCS-PEDCO-120-PR-PI-0014-D06
BK-GCS-PEDCO-120-PR-PI-0015-D06
BK-GCS-PEDCO-120-PR-PI-0016-D06
BK-GCS-PEDCO-120-PR-PI-0017-D06
BK-GCS-PEDCO-120-PR-PI-0018-D06
BK-GCS-PEDCO-120-PR-PI-0019-D06
BK-GCS-PEDCO-120-PR-PI-0020-D06
BK-GCS-PEDCO-120-PR-PI-0021-D05
BK-GCS-PEDCO-120-PR-PI-0022-D06
BK-GCS-PEDCO-120-PR-PI-0023-D06
BK-GCS-PEDCO-120-PR-PI-0024-D06
BK-GCS-PEDCO-120-PR-PI-0025-D06
BK-GCS-PEDCO-120-SA-PI-0001-D04
BK-GCS-PEDCO-120-SA-PI-0002-D02



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نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR TEMPERATURE TRANSMITTER

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۴ از ۷
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GENERAL NOTES:

- 1- Vendor to follow materials indicated in the Data Sheets, related wetted parts, these materials can be as the minimum and shall be verified by vendor.
- 2 - Vendor is responsible for the selection of Materials suitable for the specified working conditions.
- 3 - All lines below 4", shall be expanded to 4" to be suitable for thermowell installation.
- 4- Tag plate as per Specification for Instrumentation, shall be stainless steel 304 SS (VTC). Following details shall be engraved on them:
 - Tag Number
 - Range Limit
 - Service
 - Manufacture Model
- 5- All transmitters shall have output short circuit & reverse polarity protection.
- 6- Sunshade to be considered for all transmitters.
- 7- All transmitters shall have a none-volatile EEprom memory to be used for storing the configuration data and sensor linearization data. This data must be retained in the transmitter to be functional upon power up.
- 8- Vendor shall identify and detail any deviation from the present instrument datasheet.
- 9- All transmitters shall be equipped with internal diagnostics software.
- 10- Environmental condition for field instrumentation of Binak oilfield shall be considered as per the following (According to "BK-GNRL-PEDCO-000-PR-DB-0001: Process Basis Of Design"):

Maximum ambient temperature: 50 (°C)
 Minimum ambient temperature: 5 (°C)
 Maximum steel surface exposed to sun: 85 (°C)
 Maximum summer dry bulb: 50 (°C)
 DB/RH for Summer HVAC Design: 41 °C / 61 %
 DB for Winter HVAC Design: 6 °C

Relative Humidity:

- Maximum Design relative humidity (%): 100
- Minimum Design relative humidity (%): 0

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							 
	DATA SHEETS FOR TEMPERATURE TRANSMITTER							شماره صفحه: ۵ از ۷
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
	BK	GCS	PEDCO	120	IN	DT	0005	D02

TEMPERATURE TRANSMITTER				
GENERAL DATA	1	Tag No.	SEE PAGE 6 & 7	
	2	P&ID	Service	SEE PAGE 6 & 7
	3	Piping Class	Line No.	SEE PAGE 6 & 7
	4	Line Size	Schedule	SEE PAGE 6 & 7
	5	Area Clacification	Zone 2- IIB T4	
PROCESS CONDITION		RFI Protection	Tropicalisation	NEEDED
	6	Fluid	Phase	SEE PAGE 6 & 7
	7	Operating Temperature	Design Temperature (°C)	SEE PAGE 6 & 7
	8	Operating Pressure	Design Pressure (barg)	SEE PAGE 6 & 7
	9	Density (Winter)	Density (Summer) (Kg/m3)	SEE PAGE 6 & 7
	10	Viscosity (Winter)	Viscosity (Summer) (C.P)	SEE PAGE 6 & 7
TRANSMITTER	11	Velocity	(m/s)	SEE PAGE 6 & 7
	12	Thermoelement Type	RTD	
	13	Housing Material	Die-Cast Aluminum	
	14	Power Supply	24 VDC, Loop Powered	
	15	Output Signal	Communication Protocol	4-20 mA
	16	Instrument Range	Calibrated Range	VTA
	17	Integral Digital Indicator	Scale	Required
	18	Accuracy	+/- 0.1 % Calibrated Span	
	19	Burn Out Direction	Up Scale	
	20	Ingress Protection	Electrical Certification	IP-65 as minimum
	21	Electrical Connection	Cable Gland	ISO M20 x 1.5
	22	Mounting	Compact With Element	
HEAD	23	Calibration Range	Write Protection	VTA
	24	Head Type	Material	Top Mounted-Screwed
	25	Terminal Block	With 4 Terminal Wires	
	26	Weather Protection	Electrical Certification	IP-65 as minimum
	27	Electrical Connection	Cable Gland	ISO M20
TEMPERATURE ELEMENT	28	Nipple Size	1/2 " NPT	
	29	Type	RTD	
	30	Resistance	Wire Size	100 ohms at 0 degree Celsius.
	31	Single / Double	No. of Wires	SEE PAGE 6 & 7
	32	Sheath Material	Sheath OD	316 S.S
	33	Stem Length	Leads	To Match Thermowell
	34	Mounting Thread	Sealing	1/2 " NPT
THERMOWELL	35	Accuracy	Class A as per IEC 60751	
	36	Construction Type	Drilled Bar Stock in Tapered Configuration	
	37	Element Connection	1/2" NPT	
	38	Size (in)	Rating (lbs)	SEE PAGE 6 & 7
	39	Process Connection	Flange Facing / Finish (µm)	Flanged
	40	Insertion Length (U) mm	LAG Extension (T) mm	SEE PAGE 6 & 7
	41	Flange Material	Well Material	316L S.S
	42	Wake Frequency Standard	Required as per ASME PTC 19.3	
	43	NACE Requirements	SEE PAGE 6 & 7 (Note 1)	
	44			
PURCHASING DATA	45	Model	Manufacturer	will be finalized later
	46	Supplier	Order	will be finalized later
	47			

NOTES :

VTA : Vendor to Advise VTC : Vendor to Confirm N/A: Not Applicable

(1) Thermowell wake frequency analysis (stress calculation) according to ASME Power Test

Code 19.3 shall be done & submitted by vendor.

(2) The element length shall be compatible with well length.

(3) The transmitters which shall be write protected are identified by note 2 in sheet 6. (Also see note 2 in sheet 7)

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شماره پیمان:			بروزه		بسته کاری		مصادر کننده		نشیات		رشته		نوع مدارک		سریال		نسخه		شماره صفحه: ۶ از ۷									
۹۱۸۲ - ۷۳ - ۵۲			BK		GCS		PEDCO		120		IN		DT		0005		D02											
DATA SHEETS FOR TEMPERATURE TRANSMITTER																												
TEMPERATURE TRANSMITTER LIST																												
Item No.	Tag No.	System (note 2)	P&ID No.	Service	Piping Class	Line/Equipment No.	Line Size	Fluid	Phase	Operating Temperature (°C)	Design Temperature (°C)	Operating Pressure (barg)	Design Pressure (barg)	Density (kg/m ³)	Viscosity (cP)	Velocity (m/s)	Instrument Range (°C)	Calibration Range (°C)	Projection Length (mm)	Size (in)	Rating /Facing	Max Insertion Length (U) mm (VTC -Note3)	Nace					
1	TIT-2102	DCS	BK-GCS-PEDCO-120-PR-PI-0002-D06	TO INLET K.O. DRUM	AN07	GAS-111-0101-AN07-6"-PT	6"	PROCESS GAS	GAS	26.67-46.11	85	5.50	18.20	6.664165	0.01	16.15	VTA	0-100	162 NOTE 1	1 1/2"	300/RF	250	YES					
2	TIT-2104	DCS	BK-GCS-PEDCO-120-PR-PI-0003-D06	TO SLUG CATCHER	FN07	GAS-111-0001-FN07-8"-PT	8"	PROCESS GAS	GAS	15-32	85	5.50	41.20	6.214058	0.01	17.17	VTA	0-100	162 NOTE 1	1 1/2"	600/RF	300	YES					
3	TIT-2112	DCS	BK-GCS-PEDCO-120-PR-PI-0005-D06	INLET K.O. DRUM INPUT	AN07	GAS-111-0005-AN07-10"-PT	10"	PROCESS GAS	GAS	37.17-19.23	85	5.30	9	6.16486	0.01	17.37	VTA	0-100	162 NOTE 1	1 1/2"	300/RF	300	YES					
4	TIT-2121A	DCS	BK-GCS-PEDCO-120-PR-PI-0007-D06 (1 of 3)	FROM 1ST STAGE GAS COMP. SUCTION DRUM (V-2101A)	AN05	GAS-111-0031A-AN05-8"-ET	8"	PROCESS GAS	GAS	18.88-36.78	155	4.90	22	5.771499	0.01	14.21	VTA	0-100	162 NOTE 1	1 1/2"	300/RF	300	YES					
5	TIT-2124A (Note 2)	ESD	BK-GCS-PEDCO-120-PR-PI-0007-D06 (1 of 3)	TO 1ST STAGE AIR COOLER (AE-2101A)	CN05	GAS-111-0036A-CN05-6"-PT	6"	PROCESS GAS	GAS	113.1-124.8	155	19	22	15.38345	0.01	9.23	VTA	0-250	162 NOTE 1	1 1/2"	300/RF	250	YES					
6	TIT-2121B	DCS	BK-GCS-PEDCO-120-PR-PI-0007-D06 (2 of 3)	FROM 1ST STAGE GAS COMP. SUCTION DRUM (V-2101B)	AN05	GAS-111-0031B-AN05-8"-ET	8"	PROCESS GAS	GAS	18.88-36.78	155	4.90	22	5.771499	0.01	14.21	VTA	0-100	162 NOTE 1	1 1/2"	300/RF	300	YES					
7	TIT-2124B (Note 2)	ESD	BK-GCS-PEDCO-120-PR-PI-0007-D06 (2 of 3)	TO 1ST STAGE AIR COOLER (AE-2101B)	CN05	GAS-111-0036B-CN05-6"-PT	6"	PROCESS GAS	GAS	113.1-124.8	155	19	22	15.38345	0.01	9.23	VTA	0-250	162 NOTE 1	1 1/2"	300/RF	250	YES					
8	TIT-2121C	DCS	BK-GCS-PEDCO-120-PR-PI-0007-D06 (3 of 3)	FROM 1ST STAGE GAS COMP. SUCTION DRUM (V-2101C)	AN05	GAS-111-0031C-AN05-8"-ET	8"	PROCESS GAS	GAS	18.88-36.78	155	4.90	22	5.771499	0.01	14.21	VTA	0-100	162 NOTE 1	1 1/2"	300/RF	300	YES					
9	TIT-2124C (Note 2)	ESD	BK-GCS-PEDCO-120-PR-PI-0007-D06 (3 of 3)	TO 1ST STAGE AIR COOLER (AE-2101C)	CN05	GAS-111-0036C-CN05-6"-PT	6"	PROCESS GAS	GAS	113.1-124.8	155	19	22	15.38345	0.01	9.23	VTA	0-250	162 NOTE 1	1 1/2"	300/RF	250	YES					
10	TIT-2126A	DCS	BK-GCS-PEDCO-120-PR-PI-0008-D06 (1 of 3)	AFTER 1ST STAGE AIR COOLER (AE-2101-A)	CS00	GAS-111-0037A-CS00-6"-NP	6"	PROCESS GAS	GAS	60	150	18.30	22	18.2771	0.01	7.77	VTA	0-120	162 NOTE 1	1 1/2"	300/RF	250	NO					
11	TIT-2125A (Note 2)	ESD	BK-GCS-PEDCO-120-PR-PI-0008-D06 (1 of 3)	AFTER 1ST STAGE AIR COOLER (AE-2101-A)	CS00	GAS-111-0037A-CS00-6"-NP	6"	PROCESS GAS	GAS	60	150	18.30	22	18.2771	0.01	7.77	VTA	0-120	162 NOTE 1	1 1/2"	300/RF	250	NO					
12	TIT-2126B	DCS	BK-GCS-PEDCO-120-PR-PI-0008-D06 (2 of 3)	AFTER 1ST STAGE AIR COOLER (AE-2101-B)	CS00	GAS-111-0037B-CS00-6"-NP	6"	PROCESS GAS	GAS	60	150	18.30	22	18.2771	0.01	7.77	VTA	0-120	162 NOTE 1	1 1/2"	300/RF	250	NO					
13	TIT-2125B (Note 2)	ESD	BK-GCS-PEDCO-120-PR-PI-0008-D06 (2 of 3)	AFTER 1ST STAGE AIR COOLER (AE-2101-B)	CS00	GAS-111-0037B-CS00-6"-NP	6"	PROCESS GAS	GAS	60	150	18.30	22	18.2771	0.01	7.77	VTA	0-120	162 NOTE 1	1 1/2"	300/RF	250	NO					
14	TIT-2126C	DCS	BK-GCS-PEDCO-120-PR-PI-0008-D06 (3 of 3)	AFTER 1ST STAGE AIR COOLER (AE-2101-C)	CS00	GAS-111-0037C-CS00-6"-NP	6"	PROCESS GAS	GAS	60	150	18.30	22	18.2771	0.01	7.77	VTA	0-120	162 NOTE 1	1 1/2"	300/RF	250	NO					
15	TIT-2125C (Note 2)	ESD	BK-GCS-PEDCO-120-PR-PI-0008-D06 (3 of 3)	AFTER 1ST STAGE AIR COOLER (AE-2101-C)	CS00	GAS-111-0037C-CS00-6"-NP	6"	PROCESS GAS	GAS	60	150	18.30	22	18.2771	0.01	7.77	VTA	0-120	162 NOTE 1	1 1/2"	300/RF	250	NO					
16	TIT-2131A	DCS	BK-GCS-PEDCO-120-PR-PI-0010-D06 (1 of 3)	FROM 2ND STAGE GAS COMP. SUCTION DRUM (V-2102A)	CN05	GAS-111-0044A-CN05-6"-ET	6"	PROCESS GAS	GAS	59.88-59.89	175	18.10	62	18.0832	0.01	7.85	VTA	0-120	162 NOTE 1	1 1/2"	300/RF	250	YES					
17	TIT-2134A (Note 2)	ESD	BK-GCS-PEDCO-120-PR-PI-0010-D06 (1 of 3)	TO 2ND STAGE AIR COOLER (AE-2102A)	FN05	GAS-111-0051A-FN05-6"-IS	6"	PROCESS GAS	GAS	142.3/149.5	175	54.80	62	42.92249	0.01	3.31	VTA	0-300	162 NOTE 1	1 1/2"	600/RF	250	YES					
18	TIT-2131B	DCS	BK-GCS-PEDCO-120-PR-PI-0010-D06 (2 of 3)	FROM 2ND STAGE GAS COMP. SUCTION DRUM (V-2102B)	CN05	GAS-111-0044B-CN05-6"-ET	6"	PROCESS GAS	GAS	59.88-59.89	175	18.10	62	18.0832	0.01	7.85	VTA	0-120	162 NOTE 1	1 1/2"	300/RF	250	YES					
19	TIT-2134B (Note 2)	ESD	BK-GCS-PEDCO-120-PR-PI-0010-D06 (2 of 3)	TO 2ND STAGE AIR COOLER (AE-2102B)	FN05	GAS-111-0051B-FN05-6"-IS	6"	PROCESS GAS	GAS	142.3/149.5	175	54.80	62	42.92249	0.01	3.31	VTA	0-300	162 NOTE 1	1 1/2"	600/RF	250	YES					
20	TIT-2131C	DCS	BK-GCS-PEDCO-120-PR-PI-0010-D06 (3 of 3)	FROM 2ND STAGE GAS COMP. SUCTION DRUM (V-2102C)	CN05	GAS-111-0044C-CN05-6"-ET	6"	PROCESS GAS	GAS	59.88-59.89	175	18.10	62	18.0832	0.01	7.85	VTA	0-120	162 NOTE 1	1 1/2"	300/RF	250	YES					
21	TIT-2134C (Note 2)	ESD	BK-GCS-PEDCO-120-PR-PI-0010-D06 (3 of 3)	TO 2ND STAGE AIR COOLER (AE-2102C)	FN05	GAS-111-0051C-FN05-6"-IS	6"	PROCESS GAS	GAS	142.3/149.5	175	54.80	62	42.92249	0.01	3.31	VTA	0-300	162 NOTE 1	1 1/2"	600/RF	250	YES					
22	TIT-2135A	DCS	BK-GCS-PEDCO-120-PR-PI-0011-D06 (1 of 3)	AFTER 2ND STAGE AIR COOLER (AE-2102-A)	FS00	GAS-111-0058A-FS00-6"-NP	6"	PROCESS GAS	GAS	60	175	54.10	62	59.63269	0.01	2.38	VTA	0-120	162 NOTE 1	1 1/2"	600/RF	250	YES					
23	TIT-2136A (Note 2)	ESD	BK-GCS-PEDCO-120-PR-PI-0011-D06 (1 of 3)	AFTER 2ND STAGE AIR COOLER (AE-2102-A)	FS00	GAS-111-0058A-FS00-6"-NP	6"	PROCESS GAS	GAS	60	175	54.10	62	59.63269	0.01	2.38	VTA	0-120	162 NOTE 1	1 1/2"	600/RF	250	YES					
24	TIT-2135B	DCS	BK-GCS-PEDCO-120-PR-PI-0011-D06 (2 of 3)	AFTER 2ND STAGE AIR COOLER (AE-2102-B)	FS00	GAS-111-0058B-FS00-6"-NP	6"	PROCESS GAS	GAS	60	175	54.10	62	59.63269	0.01	2.38	VTA	0-120	162 NOTE 1	1 1/2"	600/RF	250	YES					
25	TIT-2136B (Note 2)	ESD	BK-GCS-PEDCO-120-PR-PI-0011-D06 (2 of 3)	AFTER 2ND STAGE AIR COOLER (AE-2102-B)	FS00	GAS-111-0058B-FS00-6"-NP	6"	PROCESS GAS	GAS	60	175	54.10	62	59.63269	0.01	2.38	VTA	0-120	162 NOTE 1	1 1/2"	600/RF	250	YES					



تکداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR TEMPERATURE TRANSMITTER

شماره پیمان:

•DT - •VT - 91AT

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شماره صفحه: Y از Y

TEMPERATURE TRANSMITTER LIST

Process Flow Diagram																								
Item No.	Tag No.	System (note 2)	P&ID No.	D02	Service	Piping Class	Line/Equipment No.	Line Size	Fluid	Phase	D02	D02	D02	D02	D02	Viscosity (cP)	D02	Instrument Range (°C)	Calibration Range (°C)	Projection Length (mm)	Size (in)	Rating /Facing	Max Insertion Length (U) mm (VTC -Note3)	Nace
											Operating Temperature (°C)	Design Temperature (°C)	Operating Pressure (barg)	Design Pressure (barg)	Density (kg/m³)		Velocity (m/s)							
26	TIT-2135C	DCS	BK-GCS-PEDCO-120-PR-PI-0011-D06 (3 of 3)		AFTER 2ND STAGE AIR COOLER (AE-2102-C)	FS00	GAS-111-0058C-FS00-6"-NP	6"	PROCESS GAS	GAS	60	175	54.10	62	59.63269	0.01	2.38	VTA	0-120	162 NOTE 1	1 1/2"	600/RF	250	YES
27	TIT-2136C (Note 2)	ESD	BK-GCS-PEDCO-120-PR-PI-0011-D06 (3 of 3)		AFTER 2ND STAGE AIR COOLER (AE-2102-C)	FS00	GAS-111-0058C-FS00-6"-NP	6"	PROCESS GAS	GAS	60	175	54.10	62	59.63269	0.01	2.38	VTA	0-120	162 NOTE 1	1 1/2"	600/RF	250	YES
28	TT-2211	DCS	BK-GCS-PEDCO-120-PR-PI-0016-D06		NITROGEN RECEIVER OUTLET	AN01	NIT-112-0024-AN01-2"-PT	2"	NITROGEN	GAS	60	85	8	12.50	8.62	0.02	0.63	VTA	0-100	162 NOTE 1	1 1/2"	300/RF	200 (NOTE 3 IN GENERAL NOTES)	NO
29	TIT-2271	DCS	BK-GCS-PEDCO-120-PR-PI-0022-D06		FUEL GAS K.O. DRUM OUTLET	AN07	FLG-112-0110-AN07-2"-PT	2"	FUEL GAS	GAS	32	85	0.5	9.00	5.771499	0.01	0.64	VTA	0-100	162 NOTE 1	1 1/2"	300/RF	200 (NOTE 3 IN GENERAL NOTES)	YES

NOTES:

(1) Projection Length (mm) will be finalized by piping department.

(2) Transmitters shall be of the smart transmitter type with HART communication protocol. Smart type transmitters selected for ESD application shall be configured as "write protection".

(3) Thermowell wake frequency analysis (stress calculation) shall be done by vendor.