



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



Data Sheets For Temperature Transmitter/Switch

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 Sheets For Temperature Transmitter/Switch

نگهداشت و افزایش تولید میدان نفتی بینک

D02	JUN.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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4	X	X			
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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

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نسخه

D02

شماره صفحه: ۳ از ۷

REFERENCE DOCUMENTS :

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

Symbol & Legend For PFD and P&ID
P&ID - Gas Compression Inlet Gas Pipeline (Binak)
P&ID - Gas Compression Inlet Gas Pipeline (Golghari)
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

D02

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

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	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۴ از ۷
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	IN	DT	0005	D02	

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

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	DATA SHEETS FOR TEMPERATURE TRANSMITTER							
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	IN	DT	0005	D02
شماره صفحه: ۵ از ۷								

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 HART (SMART TYPE)
	16	Instrument Range	Calibrated Range	SEE PAGE 6 & 7
	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
	35	Accuracy	Class A as per IEC 60751	
THERMOWELL	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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			DATA SHEETS FOR TEMPERATURE TRANSMITTER																					
شماره پیمان: ۹۱۸۳ - ۷۳ - ۵۳			پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدارک	سریال	نسخه	شماره صفحه: ۶ از ۷													
			BK	GCS	PEDCO	120	IN	DT	0005	D02														
TEMPERATURE TRANSMITTER LIST																								
Rev.	Item No.	Tag No.	P&ID No.	Service	Piping Class	Line/Equipment No.	Line Size	Fluid	Phase	D02 Operating Temperature (°C)	D02 Design Temperature (°C)	D02 Operating Pressure (bar)	D02 Design Pressure (bar)	D02 Density (kg/m³)	D02 Viscosity (cP)	D02 Velocity (m/s)	D02 Instrument Range (°C)	D02 Calibration Range (°C)	D02 Projection Length (mm)	D02 Size (in)	D02 Rating /Facing	D02 Max Insertion Length (U) mm	D02 Nace	
D02	1	TIT-2102	BK-GCS-PEDCO-120-PR-PI-0002-D04	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	
D02	2	TIT-2104	BK-GCS-PEDCO-120-PR-PI-0003-D04	TO SLUG CATCHER	FN05	GAS-111-0001-FN05-8"-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	
D02	3	TIT-2112	BK-GCS-PEDCO-120-PR-PI-0005-D04	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	
D02	4	TIT-2121A	BK-GCS-PEDCO-120-PR-PI-0007-D04 (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	
D02	5	TIT-2124A (Note 2)	BK-GCS-PEDCO-120-PR-PI-0007-D04 (1 of 3)	TO 1ST STAGE AIR COOLER (AE-2101A)	CN05	GAS-111-0036A-CN05-6"-NP	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	
D02	6	TIT-2121B	BK-GCS-PEDCO-120-PR-PI-0007-D04 (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	
D02	7	TIT-2124B (Note 2)	BK-GCS-PEDCO-120-PR-PI-0007-D04 (2 of 3)	TO 1ST STAGE AIR COOLER (AE-2101B)	CN05	GAS-111-0036B-CN05-6"-NP	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	
D02	8	TIT-2121C	BK-GCS-PEDCO-120-PR-PI-0007-D04 (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	
D02	9	TIT-2124C (Note 2)	BK-GCS-PEDCO-120-PR-PI-0007-D04 (3 of 3)	TO 1ST STAGE AIR COOLER (AE-2101C)	CN05	GAS-111-0036C-CN05-6"-NP	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	
D02	10	TIT-2126A	BK-GCS-PEDCO-120-PR-PI-0008-D04 (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	
D02	11	TIT-2125A (Note 2)	BK-GCS-PEDCO-120-PR-PI-0008-D04 (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	
D02	12	TIT-2126B	BK-GCS-PEDCO-120-PR-PI-0008-D04 (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	
D02	13	TIT-2125B (Note 2)	BK-GCS-PEDCO-120-PR-PI-0008-D04 (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	
D02	14	TIT-2126C	BK-GCS-PEDCO-120-PR-PI-0008-D04 (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	
D02	15	TIT-2125C (Note 2)	BK-GCS-PEDCO-120-PR-PI-0008-D04 (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	
D02	16	TIT-2131A	BK-GCS-PEDCO-120-PR-PI-0010-D04 (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	
D02	17	TIT-2134A (Note 2)	BK-GCS-PEDCO-120-PR-PI-0010-D04 (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	
D02	18	TIT-2131B	BK-GCS-PEDCO-120-PR-PI-0010-D04 (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	
D02	19	TIT-2134B (Note 2)	BK-GCS-PEDCO-120-PR-PI-0010-D04 (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	
D02	20	TIT-2131C	BK-GCS-PEDCO-120-PR-PI-0010-D04 (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	
D02	21	TIT-2134C (Note 2)	BK-GCS-PEDCO-120-PR-PI-0010-D04 (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	
D02	22	TIT-2135A	BK-GCS-PEDCO-120-PR-PI-0011-D04 (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	NO	
D02	23	TIT-2136A (Note 2)	BK-GCS-PEDCO-120-PR-PI-0011-D04 (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	NO	
D02	24	TIT-2135B	BK-GCS-PEDCO-120-PR-PI-0011-D04 (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	NO	
D02	25	TIT-2136B (Note 2)	BK-GCS-PEDCO-120-PR-PI-0011-D04 (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	NO	



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:

•DT - •VT - 91AT

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سته کاری

ادار کنندہ

تسهيلات

مادرک

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سریال

نسخه

شماره صفحه: ۷ از ۷

TEMPERATURE TRANSMITTER LIST

Rev.	Item No.	Tag No.	P&ID No.	Service	Piping Class	Line/Equipment No.	Line Size	Fluid	Phase	D02	D02	D02	D02	D02	D02		D02		D02		Max Insertion Length (U mm)	Nac	
										Operating Temperature (°C)	Design Pressure (barg)	Design Pressure (barg)	Density (kg/m³)	Viscosity (cP)	Velocity (m/s)	Instrument Range (°C)	Calibration Range (°C)	Projection Length (mm)	Size (in)	Rating /Frac			
D02	26	TIT-2135C	BK-GCS-PEDCO-120-PR-PI-0011-D04 (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	NO
D02	27	TIT-2136C (Note 2)	BK-GCS-PEDCO-120-PR-PI-0011-D04 (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	NO
D02	28	TT-2211	BK-GCS-PEDCO-120-PR-PI-0016-D04	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
D02	29	TIT-2271	BK-GCS-PEDCO-120-PR-PI-0022-D04	FUEL GAS K.O. DRUM OUTLET	AN07	FLG-1112-0110-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, except those connected to the ESD/HIPPS/FGS system that will be preferably of conventional electronic type. If smart type transmitters are selected for ESD application they shall be configured as "write protection".