

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							 	
	DATA SHEET FOR LEVEL SWITCH								
شماره پیمان: 053 - 073 - 9184	پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تهیهات 120	رشته IN	نوع مدرک DT	سریال 0008	نسخه D01	شماره صفحه: 1 از 6

طرح نگهداشت و افزایش تولید 27 مخزن

DATA SHEET FOR LEVEL SWITCH

نگهداشت و افزایش تولید میدان نفتی بینک

D01	SEP.2022	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D00	APR.2022	IFC	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
Class: 2		CLIENT Doc. Number: F9Z-708929				
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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تکده‌داشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEET FOR LEVEL SWITCH

شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 2 از 6
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REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04	Page	D00	D01	D02	D03	D04
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2	X	X				66					
3	X	X				67					
4	X	X				68					
5	X	X				69					
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DATA SHEET FOR LEVEL SWITCH

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REFERENCE DOCUMENTS :

Specification For Instrumentation	BK-GNRAL-PEDCO-000-IN-SP-0001
Process Basis Of Design	BK-GNRAL-PEDCO-000-PR-DB-0001
Piping Material Specification	BK-GCS-PEDCO-120-PI-SP-0001
Hazardous Area Classification Layout	BK-GCS-PEDCO-120-SA-PY-0002
Instrument & Control System Design Criteria	BK-GCS-PEDCO-120-IN-DC-0002



Symbol & Legend For PFD and P&ID	BK-GCS-PEDCO-120-PR-PI-0001
P&ID - Gas Compression Inlet Gas Pipeline (Binak)	BK-GCS-PEDCO-120-PR-PI-0002
P&ID - Gas Compression Inlet Gas Pipeline (Golkhari)	BK-GCS-PEDCO-120-PR-PI-0003
P&ID - Slug Catcher System	BK-GCS-PEDCO-120-PR-PI-0004
P&ID - Gas Compression Inlet Knock Out Drum	BK-GCS-PEDCO-120-PR-PI-0005
P&ID - 1st Stage Gas Compression Suction Drums	BK-GCS-PEDCO-120-PR-PI-0006
P&ID - 1st Stage Gas Compression Compressors	BK-GCS-PEDCO-120-PR-PI-0007
P&ID - 1st Stage Gas Compression Air Coolers	BK-GCS-PEDCO-120-PR-PI-0008
P&ID - 2nd Stage Gas Compression Suction Drums	BK-GCS-PEDCO-120-PR-PI-0009
P&ID - 2nd Stage Gas Compression Compressors	BK-GCS-PEDCO-120-PR-PI-0010
P&ID - 2nd Stage Gas Compression Air Coolers	BK-GCS-PEDCO-120-PR-PI-0011
P&ID - 2nd Stage Gas Compression Discharge Drum	BK-GCS-PEDCO-120-PR-PI-0012
P&ID - Gas Compression Dehydration Package	BK-GCS-PEDCO-120-PR-PI-0013
P&ID - Lean Glycol Storage Tank	BK-GCS-PEDCO-120-PR-PI-0014
P&ID - Instrument & Plant Air System	BK-GCS-PEDCO-120-PR-PI-0015
P&ID - Nitrogen Generation System	BK-GCS-PEDCO-120-PR-PI-0016
P&ID - Close Drain System	BK-GCS-PEDCO-120-PR-PI-0017
P&ID - Corrosion Inhibitor Package	BK-GCS-PEDCO-120-PR-PI-0018
P&ID - Methanol Injection Package	BK-GCS-PEDCO-120-PR-PI-0019
P&ID - LP Flare System	BK-GCS-PEDCO-120-PR-PI-0020
P&ID - Oily Water Sewer	BK-GCS-PEDCO-120-PR-PI-0021
P&ID - Fuel Gas System	BK-GCS-PEDCO-120-PR-PI-0022
P&ID - Diesel Oil System	BK-GCS-PEDCO-120-PR-PI-0023
P&ID - Potable Water System	BK-GCS-PEDCO-120-PR-PI-0024
P&ID - Glycol Sump Drum	BK-GCS-PEDCO-120-PR-PI-0025
P&ID - Fire Water Network	BK-GCS-PEDCO-120-SA-PI-0001
P&ID - Total Flooding System For Extension of Existing Elect. Building	BK-GCS-PEDCO-120-SA-PI-0002

IPS Construction and Installation Standard for Level instruments	IPS-C-IN-140
IPS Engineering and Design Standard for Level instruments	IPS-E-IN-140
IPS Material and Equipment Standard for Level instruments	IPS-M-IN-140

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									DATA SHEET FOR LEVEL SWITCH
	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک		سريال
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GENERAL NOTES:

- 1 - Vendor to follow materials indicated in the Data Sheets, related wetted parts, these materials can be as minimum and shall be verified by vendor.
- 2 - For level switches suitable sunshades shall be supplied by vendor.
- 3 - Vendor design shall be in accordance with : "Specification For Instrumentation, Doc. No. BK-GNRAL-PEDCO-000-IN-SP-0001" and all related spec.s for level switches.
- 4 - Vendor shall specify dead band of switches at quotation stage for client approval.
- 5 - Calibration scale shall be provided in switch to indicate exact set-point setting of switch.
- 6 - Vendor shall provide calibration certificate, factory visual and dimensional inspection report, hydrostatic pressure test certification, and mechanical test report.
- 7 - Level switches shall be fabricated according to IPS-M-IN-140.
- 8 - Level switches shall be provided with a stainless steel 304 SS (VTC) nameplate permanently fastened to the instrument. Following details shall be engraved on them:

- Tag Number
- Manufacturer model and serial number
- Service
- Contact rating
- Electrical classification and certification agency name and code
- Project Information

- 9 - Environmental condition for field instrumentation of Binak oilfield shall be considered as per the following (According to "BK-GNRAL-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: - (°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

- 10- Internal stilling well should be supplied by the Vendor, and should have an inside diameter of at least 25mm larger than the displacer or float diameter.
 The stilling well shall be open at the bottom end, and should have a vent hole located above the maximum level.

D01



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DATA SHEET FOR LEVEL SWITCH

شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 5 از 6
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LEVEL SWITCH

D01

GENERAL DATA	1	Tag No.	SEE PAGE 6	
	2	P & ID No.	SEE PAGE 6	
	3	Service	SEE PAGE 6	
	4	Equipment No.	SEE PAGE 6	
	5	Area Classification	ZONE 2, IIB T4	
	6			
OPERATING CONDITIONS	7	Upper Fluid	Lower Fluid	SEE PAGE 6
	8	Upper Phase	Lower Phase	SEE PAGE 6
	9	Operating Pressure	Design Pressure (barg)	SEE PAGE 6
	10	Operating Temperature	Design Temperature (°C)	SEE PAGE 6
	11	Upper Density	Lower Density (kg/m ³)	SEE PAGE 6
	12			
BODY/GAGE	13			
	14	Body/Cage Material	SEE PAGE 6	
	15	Head Orientation	Top	
	16	Connection Size & Rating	SEE PAGE 6	
	17	Flange Material	SEE PAGE 6	
	18	Length of Center To Center (C-C)	Set Point (mm)	N.A SEE PAGE 6 (Note 1)
DISPLACER / FLOAT	19	Mounting	Internal	
	20			
	21	Type	SEE PAGE 6	
	22	Insertion Depth	VTA	
	23	Displacer or Float Material	316 S.S	
SWITCH	24	Setting	Adjustable / Internal	
	25	Differential Gap (Fixed/Adj)	Fixed	
	26	Type	Snap Acting with Hermetically Sealed (write protected)	
	27	Quantity	2 x DPDT	
	28	Setpoint	SEE PAGE 6	
	29	Ingress Protection	IP-65 as minimum	
	30	Electrical Certificate	EExd IIB,T4	
	31	Electrical Connection	ISO M20 x 1.5	
	32	Contact Rating	10A @ 110 VAC	
	33	Load Type	Inductive	
	34	Case Material	VTA	
OPTIONS	35	Contacts (Open / Close)	Normally Close	
	36	On Level (Incr. / Decr.)	SEE PAGE 6	
	37	ACCURACY	1% OF SPAN	
	38	Tag Name Plate	Required	
PURCHASING DATA	39	Cable Gland	Required	
	40	Vent/Drain Valve	N.A	
	41	NACE Requirement (As per MR0175/ISO 15156 Compliance)	SEE PAGE 6	
	42	Model	Manufacture	Will be finalized later
	43	Supplier	Order	Will be finalized later
	44			

VTA : VENDOR TO ADVISE

(1) The location for installation will be finalized by process and mechanical departments.

(2) Safety area classification shall be hold until to be finalized in Doc.: Hazardous Area Classification Layout BK-GCS-PEDCO-120-SA-PY-0002.



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DATA SHEET FOR LEVEL SWITCH

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شماره صفحات: 6 از 6

DOI: 10.1002/for

LEVEL SWITCH LIST

[illegible]

NOTE: (1) G: GAS L: LIQUID NA: NOT APPLICABLE