

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک						 		
	DATA SHEETS FOR PRESSURE & DIFF. PRESSURE GAUGE								
شماره پیمان: 053 - 073 - 9184	پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تنهیلات 120	رشته IN	نوع مدرک DT	سریال 0001	نسخه D03	شماره صفحه: 1 از 10

طرح نگهداشت و افزایش تولید 27 مخزن

DATA SHEETS FOR PRESSURE & DIFF. PRESSURE GAUGE

نگهداشت و افزایش تولید میدان نفتی بینک

D03	DEC.2024	AFC	P.Hajisadeghi	M.Fakharian	S.Faramarzpour	
D02	FEB.2024	AFC	P.Hajisadeghi	M.Fakharian	S.Faramarzpour	
D01	JUL.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-708922

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



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR PRESSURE & DIFF. PRESSURE GAUGE

شماره پیمان:

053 - 073 - 9184

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

IN

نوع مدرک

DT

سریال

0001

نسخه

D03

شماره صفحه: 2 از 10

REVISION RECORD SHEET

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1	X	X	X	X		65					
2	X	X	X	X		66					
3	X	X				67					
4	X	X				68					
5	X	X				69					
6	X	X	X			70					
7	X	X	X			71					
8	X	X	X	X		72					
9		X	X	X		73					
10		X	X	X		74					
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NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR PRESSURE & DIFF. PRESSURE GAUGE

شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 3 از 10
053 - 073 - 9184	BK	GCS	PEDCO	120	IN	DT	0001	D03	

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

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک DATA SHEETS FOR PRESSURE & DIFF. PRESSURE GAUGE							 	
شماره پیمان: 053 - 073 - 9184	پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تسهیلات 120	رشته IN	نوع مدرک DT	سریال 0001	نسخه D03	شماره صفحه: 4 از 10

GENERAL NOTES:

- Pressure elements shall be capable of withstanding intermittent over-ranging to 1.3 times the maximum scale reading.
- Ranges shall be selected suitable to have the operating pressure in the middle third of the scale.
- Vendor is responsible for applying suitable accessories to prevent damage and to reach required accuracy for PG.
- Vendor to follow materials indicated in the Data Sheets, related wetted parts, these materials can be as minimum and shall be verified by vendor.
- Gauges shall be supplied with syphon on steam services which operating temperatures are more than 100°C.
- 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
 - Manufacturer model and serial number
- Weep hole shall be provided on the case bottom of all gauges.
- Material Test Certificate and Calibration Certificate for all gauges to be submitted by vendor.
- Each pressure gauge which doesn't have Diaphragm Seal, shall be supplied with a Two way (valve) manifold (block & bleed manifold) by vendor (Process Conn. 1/2"NPTF, 316 S.S.).
- Environmental Condition For Field Instrumentation Of BINAK Complex 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 % (Note */ Note**
DB FOR Winter HVAC Design: 6 °C

Relative Humidity:

 - Maximum Design relative humidity (%): 100
 - Minimum Design relative humidity (%): 0
- Will be finalized as per Safety Department information.

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	DATA SHEETS FOR PRESSURE & DIFF. PRESSURE GAUGE								
	شماره پیمان:	پروژه	صادر کننده	بسته کاری	تسهیلات	رشته	نوع مدرک	سریال	نسخه
053 - 073 - 9184	BK	GCS	PEDCO	120	IN	DT	0001	D03	

PRESSURE GAUGE									
GENERAL	1	Tag No.		P&ID No.		SEE PAGE 6		SEE PAGE 6	
	2	Service		Piping Class		SEE PAGE 6		SEE PAGE 6	
	3	Area Clacification				Zone 2, IIB T4			
PROCESS CONDITION	4	Fluid		Phase		SEE PAGE 6		SEE PAGE 6	
	5	Operating. Pressure		Design. Pressure		SEE PAGE 6		SEE PAGE 6 (barg)	
	6	Operating. Temperature		Design. Temperature		SEE PAGE 6		SEE PAGE 6 (°C)	
	7	Min. Design Metal Temperature				SEE PAGE 6		(°C)	
GAUGE	8	Range				SEE PAGE 6			
	9	Type				Pressure Gauge-Direct Reading			
	10	Instrument Range				SEE PAGE 6			
	11	Liquid Filled				Silicon Oil - SEE PAGE 6~9 (Note 5)			
	12	Mounting				Direct			
	13	Dial Size	Dial Color	Zero Adjustment	150 mm	White with black lettering	Adjustable pointer		
	14	Case Material		Ring Material	304 SS (Note 2 & 9)	304 SS			
	15	Blow-Out Protection				Required-Back			
	16	Windows Material	Dial Material	Shatter proof glass		Aluminum			
	17	Pressure Element Type				SEE PAGE 6			
	18	Pressure Element Material	Stem Material	SEE PAGE 6		316 SS			
	19	Connection Material				316 S.S			
	20	Connection Size				1/2 " NPT			
	21	Connection Location				Bottom			
	22	Movement Material				316 S.S			
	23	Nominal Accuracy				0.5% F.S			
	24	Ingress Protection				IP-65 as minimum			
DIAPHRAGM SEAL	25	Type				N/A			
	26	Size (In)				N/A			
	27	Diaphragm Material				N/A			
	28	Fill Fluid				N/A			
	29	Capillary Length				N/A			
	30	Capillary Material				N/A			
OPTIONS	31								
	32	Movement Damping				SEE PAGE 6			
	33	Overrange Protection				SEE PAGE 6 (1.3 of F.S) (Note 7)			
	34	Siphon	Material	SEE PAGE 6		316 S.S			
	35	Manifold	Body Material	2 Way Manifold		316 S.S			
	36	Process Connection	Rating	SEE PAGE 6 (Note 6)		SEE PAGE 6			
	37	Manifold Model	Manifold Manufacturer	VTA		VTA			
	38	NACE Requirements				SEE PAGE 6 (Note 1)			
PURCHASING DATA	39								
	40								
	41	Model No.	Manufacturer	(Note 8)		(Note 8)			
	42	Supplier	Order	(Note 8)		(Note 8)			
	43								
	44								

NOTES : VTA : Vendor to Advise

(1) NACE-MR-0175/ISO 15156 requirements shall be covered where Piping/Pipeline Material Specification recommended.

(2) Window shall be heavy plate glass, breakage resistance and shatter proof.

(3) Pressure gauges shall be double scale type (Bar and Psi).

(4) All gauges shall be equipped with screw driver slot type adjustment for calibration purposes.

(5) Oil-filled system or Pulsation dampeners shall be supplied for all pressure instruments and gauges in vibrating or pulsating services.

(6) 1/2"NPT for Instrument/Process connection and 1/4" NPT for Drain Connection-All Manifolds, Pulsation Dampners and Siphons shall be suitable for connecting to gauges (1/2" NPT). And the material shall be 316 SS.

(7) Over range protection shall be 1.3 times the maximum range.

(8) Will be finalized later at the purchasing time.

(9) Cases for pressure gauges shall be solid front stainless steel.

(10) Weep hole shall be provided on the case bottom of all gauges.

 NISOC			نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک										 HIRGAN ENERGY 												
			DATA SHEETS FOR PRESSURE & DIFF. PRESSURE GAUGE																						
شماره پیمان:			پروژه	بسته کاری	صادر کننده	تجهیزات	رشته	نوع مدرک	سرمال	نسخه	شماره صفحه: 6 از 10														
053 - 073 - 9184			BK	GCS	PEDCO	120	IN	DT	0001	D03															
PRESSURE GAUGE																									
Rev.	Item No.	Tag No.	P&IDs No.	Service.	LINE/ EQUIPME NT	Piping Class	Manifold Rating	Process Connection	Fluid	Phase	Operating Pressure (barg)	Design Pressure (barg)	Operating Temperature (°C)	Design Temperature (°C)	Instrument Range (barg)	Liquid. Filled	Press. Element Type	Press. Element Material	Movement Damper (Snubber)	Over Range Protection	Siphon	Diaphragm Seal	Nace	Model	Remark
	1	PG-2101	BK-GCS-PEDCO-120-PR-PI-0002	EXISTING GAS PIG RECEIVER	GAS-111-0001-AN07-6"-PT	AN07	#6000	1/2" NPT	HYDROCARBON	GAS	7.5	18.2	46.11/26.67	85	0-16	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	2	PG-2102	BK-GCS-PEDCO-120-PR-PI-0002	EXISTING GAS PIG RECEIVER	GAS-111-0001-AN07-6"-PT	AN07	#6000	1/2" NPT	HYDROCARBON	GAS	7.5	18.2	46.11/26.67	85	0-16	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	3	PG-2103	BK-GCS-PEDCO-120-PR-PI-0003	GAS PIG RECEIVER	GAS-111-0008-FN07-8"-PT	FN07	#6000	1/2" NPT	HYDROCARBON	GAS	7.5	175	15.5-32	85	0-16	Yes	Bourdon	SS 316L	No	Yes	No	No	Yes	VTA	
	4	PG-2104	BK-GCS-PEDCO-120-PR-PI-0003	GAS PIG RECEIVER	GAS-111-0008-FN07-8"-PT	FN07	#6000	1/2" NPT	HYDROCARBON	GAS	7.5	175	15.5-32	85	0-16	Yes	Bourdon	SS 316L	No	Yes	No	No	Yes	VTA	
	5	PG-2111	BK-GCS-PEDCO-120-PR-PI-0004 (1 of 2)	SLUG CATCHER DRUM	V-2104	AN07	#6000	1/2" NPT	HYDROCARBON/ WATER	GAS	5.5	FW9	15.5-32	85	0-10	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	6	PG-2114A	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	SLUG PUMPS	CDH-111-0010-AS00-4"-NP	AS00	#3000	1/2" NPT	WATER	LIQUID	5.5	13.9	23.22/8.82	85	0-10	Yes	Bourdon	SS 316L	No	Yes	No	No	Yes	VTA	
	7	PG-2113A	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	SLUG PUMPS	CDH-111-0012-CN05-3"-PT	CN05	#6000	1/2" NPT	WATER	LIQUID	19.5	47.7	AMB	85	0-40	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	8	PG-2113B	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	SLUG PUMPS	CDH-111-0013-CN05-4"-PT	CN05	#6000	1/2" NPT	WATER	LIQUID	19.5	47.7	AMB	85	0-40	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	9	PG-2114B	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	SLUG PUMPS	CDH-111-0011-AS00-4"-PT	AS00	#3000	1/2" NPT	WATER	LIQUID	5.5	13.9	23.22/8.82	85	0-10	Yes	Bourdon	SS 316L	No	Yes	No	No	Yes	VTA	
	10	PG-2114	BK-GCS-PEDCO-120-PR-PI-0005	INLET KNOCK OUT DRUM	V-2105	AN07	#6000	1/2" NPT	HYDROCARBON/ WATER	GAS	5.3	FW9	19-37	85	0-10	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	11	PG-2115	BK-GCS-PEDCO-120-PR-PI-0005	GAS	GAS-111-0025-AN07-10"-PT	AN07	#6000	1/2" NPT	HYDROCARBON/ WATER	GAS	5.1	18.2	19-37	85	0-10	Yes	Bourdon	SS 316L	No	Yes	No	No	Yes	VTA	
	12	PG-2121A	BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3)	1ST STAGE GAS COMPRESSION SUCTION DRUM TRAIN #A	V-2101-A	CN05	#6000	1/2" NPT	HYDROCARBON	GAS	5.1	FW/22	19-37	85	0-10	Yes	Bourdon	SS 316L	No	Yes	No	No	Yes	VTA	
	13	PG-2121B	BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3)	1ST STAGE GAS COMPRESSION SUCTION DRUM TRAIN #B	V-2101-B	CN05	#6000	1/2" NPT	HYDROCARBON	GAS	5.1	FW/22	19-37	85	0-10	Yes	Bourdon	SS 316L	No	Yes	No	No	Yes	VTA	
	14	PG-2121C	BK-GCS-PEDCO-120-PR-PI-0006 (3 of 3)	1ST STAGE GAS COMPRESSION SUCTION DRUM TRAIN #C	V-2101-C	CN05	#6000	1/2" NPT	HYDROCARBON	GAS	5.1	FW/22	19-37	85	0-10	Yes	Bourdon	SS 316L	No	Yes	No	No	Yes	VTA	
	15	PG-2122A	BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3)	1ST STAGE GAS COMPRESSOR TRAIN#A	GAS-111-0031A-CN05-8"-ET	CN05	#6000	1/2" NPT	HYDROCARBON	GAS	4.9	47.7	18-35	85	0-10	Yes	Bourdon	SS 316L	No	Yes	No	No	Yes	VTA	
	16	PG-2123A	BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3)	1ST STAGE GAS COMPRESSOR TRAIN#A	GAS-111-0036A-CN05-6"-NP	CN05	#6000	1/2" NPT	HYDROCARBON	GAS	19	47.7	113/124	155	0-40	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	17	PG-2122B	BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3)	1ST STAGE GAS COMPRESSOR TRAIN#B	GAS-111-0031B-CN05-8"-ET	CN05	#6000	1/2" NPT	HYDROCARBON	GAS	4.9	47.7	18-35	85	0-10	Yes	Bourdon	SS 316L	No	Yes	No	No	Yes	VTA	
	18	PG-2123B	BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3)	1ST STAGE GAS COMPRESSOR TRAIN#B	GAS-111-0036B-CN05-6"-NP	CN05	#6000	1/2" NPT	HYDROCARBON	GAS	19	47.7	113/124	155	0-40	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	19	PG-2122C	BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3)	1ST STAGE GAS COMPRESSOR TRAIN#C	GAS-111-0031C-CN05-8"-ET	CN05	#6000	1/2" NPT	HYDROCARBON	GAS	4.9	47.7	18-35	85	0-10	Yes	Bourdon	SS 316L	No	Yes	No	No	Yes	VTA	
	20	PG-2123C	BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3)	1ST STAGE GAS COMPRESSOR TRAIN#C	GAS-111-0036C-CN05-6"-NP	CN05	#6000	1/2" NPT	HYDROCARBON	GAS	19	47.7	113/124	155	0-40	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	21	PG-2124A	BK-GCS-PEDCO-120-PR-PI-0008 (1 of 3)	1ST STAGE GAS COMPRESSION AIR COOLER TRAIN #A	GAS-111-0037A-CS00-6"-NP	CS00	#3000	1/2" NPT	HYDROCARBON	GAS/LIQUID	18.3	30.3	60	155	0-40	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	22	PG-2124B	BK-GCS-PEDCO-120-PR-PI-0008 (2 of 3)	1ST STAGE GAS COMPRESSION AIR COOLER TRAIN #B	GAS-111-0037B-CS00-6"-NP	CS00	#3000	1/2" NPT	HYDROCARBON	GAS/LIQUID	18.3	30.3	60	155	0-40	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	23	PG-2124C	BK-GCS-PEDCO-120-PR-PI-0008 (3 of 3)	1ST STAGE GAS COMPRESSION AIR COOLER TRAIN #C	GAS-111-0037C-CS00-6"-NP	CS00	#3000	1/2" NPT	HYDROCARBON	GAS/LIQUID	18.3	30.3	60	155	0-40	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	24	PG-2131A	BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3)	2ND STAGE GAS COMPRESSOR CUCTION DRUM TRAIN #A	V-2102-A	CS00	#3000	1/2" NPT	HYDROCARBON	GAS	18.3	FW/22	60	115.4	0-40	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	25	PG-2131B	BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3)	2ND STAGE GAS COMPRESSOR CUCTION DRUM TRAIN #B	V-2102-B	CS00	#3000	1/2" NPT	HYDROCARBON	GAS	18.3	FW/22	60	115.4	0-40	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	26	PG-2131C	BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3)	2ND STAGE GAS COMPRESSOR CUCTION DRUM TRAIN #C	V-2102-C	CS00	#3000	1/2" NPT	HYDROCARBON	GAS	18.3	FW/22	60	115.4	0-40	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	27	PG-2132A	BK-GCS-PEDCO-120-PR-PI-0010 (1 of 3)	2ND STAGE GAS COMPRESSOR TRAIN#A	GAS-111-0044A-CN05-6"-ET	CN05	#6000	1/2" NPT	HYDROCARBON	GAS	18.1	47.7	59-60	115.4	0-40	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	28	PG-2133A	BK-GCS-PEDCO-120-PR-PI-0010 (1 of 3)	2ND STAGE GAS COMPRESSOR TRAIN#A	GAS-111-0051A-FN05-6"-IS	FN05	#6000	1/2" NPT	HYDROCARBON	GAS	54.8	90	142-150	175	0-100	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	29	PG-2132B	BK-GCS-PEDCO-120-PR-PI-0010 (2 of 3)	2ND STAGE GAS COMPRESSOR TRAIN#B	GAS-111-0044B-CN05-6"-ET	CN05	#6000	1/2" NPT	HYDROCARBON	GAS	18.1	47.7	59-60	115.4	0-40	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	

 NISOC			تکهداشت و افزایش تولید میدان نفتی بینک سطح الارض										 تسهیل و تسهیم تهران 												
			DATA SHEETS FOR PRESSURE & DIFF. PRESSURE GAUGE																						
شماره پیمان:			یوزده	بسته کاری	صادرکننده	نهایت	رشته	نوع مدرک	سرمال	نسخه	شماره صفحه: 7 از 10														
053 - 073 - 9184			BK	GCS	PEDCO	120	IN	DT	0001	D03															
PRESSURE GAUGE																									
Rev.	Item No.	Tag No.	P&IDs No.	Service.	LINE/ EQUIPME T	Piping Class	Manifold Rating	Process Connection	Fluid	Phase	Operating Pressure (barg)	Design Pressure (barg)	Operating Temperature (°C)	Design Temperature (°C)	Instrument Range (barg)	Liquid. Filled	Press. Element Type	Press. Element Material	Movement Damper (Snubber)	Over Range Protection	Siphon	Diaphragm Seal	Nace	Model	Remark
	30	PG-2133B	BK-GCS-PEDCO-120-PR-Pi-0010 (2 of 3)	2ND STAGE GAS COMPRESSOR TRAINIIB	GAS-111-0051B-FN05-6"-IS	FN05	#6000	1/2" NPT	HYDROCARBON	GAS	54.8	90	142-150	175	0-100	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	31	PG-2132C	BK-GCS-PEDCO-120-PR-Pi-0010 (3 of 3)	2ND STAGE GAS COMPRESSOR TRAINIIC	GAS-111-0044C-CN05-6"-ET	CN05	#6000	1/2" NPT	HYDROCARBON	GAS	18.1	47.7	59-60	115.4	0-40	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	32	PG-2133C	BK-GCS-PEDCO-120-PR-Pi-0010 (3 of 3)	2ND STAGE GAS COMPRESSOR TRAINIIC	GAS-111-0051C-FN05-6"-IS	FN05	#6000	1/2" NPT	HYDROCARBON	GAS	54.8	90	142-150	175	0-100	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	33	PG-2134A	BK-GCS-PEDCO-120-PR-Pi-0011 (1 of 3)	2ND STAGE GAS COMPRESSOR AIR COOLER TRAINIIA	GAS-111-0058A-F500-6"-NP	F500	#6000	1/2" NPT	HYDROCARBON	GAS/LIQUID	54.1	62.4	60	175	0-100	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	34	PG-2134B	BK-GCS-PEDCO-120-PR-Pi-0011 (2 of 3)	2ND STAGE GAS COMPRESSOR AIR COOLER TRAINIIB	GAS-111-0058B-F500-6"-NP	F500	#6000	1/2" NPT	HYDROCARBON	GAS/LIQUID	54.1	62.4	60	175	0-100	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	35	PG-2134C	BK-GCS-PEDCO-120-PR-Pi-0011 (3 of 3)	2ND STAGE GAS COMPRESSOR AIR COOLER TRAINIIC	GAS-111-0058C-F500-6"-NP	F500	#6000	1/2" NPT	HYDROCARBON	GAS/LIQUID	54.1	62.4	60	175	0-100	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	36	PG-2142	BK-GCS-PEDCO-120-PR-Pi-0012	GAS COMPRESSION DISCHARGE DRUM	V-2103	FN05	#6000	1/2" NPT	HYDROCARBON	GAS	53.9	90	59-60	130	0-100	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	37	PG-2141	BK-GCS-PEDCO-120-PR-Pi-0012	GAS COMPRESSION DISCHARGE DRUM	V-2103	FN05	#6000	1/2" NPT	HYDROCARBON	GAS	53.9	FV62	59-60	130	0-100	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	38	PG-2162	BK-GCS-PEDCO-120-PR-Pi-0014	GLYCOL TRANSFER PUMP	TEG-111-0007-AN04-2"-PT	AN04	#3000	1/2" NPT	LEAN GLYCOL	LIQUID	0.02	18.2	AMB	85	0-40 mbar VTA	Yes	Diaphragm	SS 316L	No	Yes	No	No	No	VTA	
	39	PG-2163A	BK-GCS-PEDCO-120-PR-Pi-0014	GLYCOL TRANSFER PUMP	TEG-111-0002-AN04-2"-PT	AN04	#3000	1/2" NPT	LEAN GLYCOL	LIQUID	2.1	18.2	AMB	85	0-4	Yes	Bourdon	SS 316L	No	Yes	No	No	No	VTA	
	40	PG-2163B	BK-GCS-PEDCO-120-PR-Pi-0014	GLYCOL TRANSFER PUMP	TEG-111-0006-AN04-2"-PT	AN04	#3000	1/2" NPT	LEAN GLYCOL	LIQUID	2.1	18.2	AMB	85	0-4	Yes	Bourdon	SS 316L	No	Yes	No	No	No	VTA	
	41	PG-2161	BK-GCS-PEDCO-120-PR-Pi-0014	LEAN GLYCOL STORAGE TANK	TOP OF THE TK-2102	AN07	#6000	1/2" NPT	LEAN GLYCOL	GAS	0.1	FULL OF LIQUID + 160MBARG/7MBARG	AMB	85	0-250 mbar VTA	Yes	Diaphragm	SS 316L	No	Yes	No	No	Yes	VTA	
	42	PG-2298	BK-GCS-PEDCO-120-PR-Pi-0014	LEAN GLYCOL STORAGE TANK	TEG-111-0004-AN04-2"-PT	AN04	#3000	1/2" NPT	LEAN GLYCOL	GAS	0.1	18.2	AMB	85	0-250 mbar VTA	Yes	Diaphragm	SS 316L	No	Yes	No	No	No	VTA	
	43	PG-2201	BK-GCS-PEDCO-120-PR-Pi-0015 (2 of 2)	Instrument Air Receiver	ISA-112-0012-AZ00-2"-NP	AZ00	#3000	1/2" NPT	Air	GAS	8	18.2	65	85	0-16	Yes	Bourdon	SS 316L	No	No	No	No	No	VTA	
	44	PG-2202	BK-GCS-PEDCO-120-PR-Pi-0015 (2 of 2)	Instrument Air Receiver	V-2203	AZ00	#3000	1/2" NPT	Air	GAS	8	12.5	65	85	0-16	Yes	Bourdon	SS 316L	No	No	No	No	No	VTA	
	45	PG-2211	BK-GCS-PEDCO-120-PR-Pi-0016	Nitrogen Receiver	NIT-112-0021-AN01-2"-PT	AN01	#3000	1/2" NPT	Nitrogen	GAS	8	18.2	60	85	0-16	Yes	Bourdon	SS 316L	No	No	No	No	No	VTA	
	46	PG-2212	BK-GCS-PEDCO-120-PR-Pi-0016	Nitrogen Receiver	V-2204	AN01	#3000	1/2" NPT	Nitrogen	GAS	8	12.5	60	85	0-16	Yes	Bourdon	SS 316L	No	No	No	No	No	VTA	
	47	PG-2221	BK-GCS-PEDCO-120-PR-Pi-0017 (2 of 2)	closed drain drum	V-2202	AN07	#6000	1/2" NPT	HYDROCARBON/ WATER	LIQUID	0.5	FV6.0	AMB	85	0-1	Yes	Diaphragm	SS 316L	No	Yes	No	No	Yes	VTA	
	48	PG-2232A	BK-GCS-PEDCO-120-PR-Pi-0017 (2 of 2)	closed drain drum	CDH-112-0033-AN07-2"-PT	AN07	#6000	1/2" NPT	HYDROCARBON	LIQUID	7	18.2	AMB	85	0-16	Yes	Bourdon	SS 316L	No	Yes	No	No	Yes	VTA	
	49	PG-2232B	BK-GCS-PEDCO-120-PR-Pi-0017 (2 of 2)	closed drain drum	CDH-112-0032-AN07-2"-PT	AN07	#6000	1/2" NPT	HYDROCARBON	LIQUID	7	18.2	AMB	85	0-16	Yes	Bourdon	SS 316L	No	Yes	No	No	Yes	VTA	
	50	PG-2232A	BK-GCS-PEDCO-120-PR-Pi-0017 (2 of 2)	closed drain drum	OWA-112-0003-AN01-2"-PT	AN01	#3000	1/2" NPT	HYDROCARBON/ WATER	LIQUID	2	18.2	AMB	85	0-4	Yes	Bourdon	SS 316L	No	Yes	No	No	No	VTA	
	51	PG-2232B	BK-GCS-PEDCO-120-PR-Pi-0017 (2 of 2)	closed drain drum	OWA-112-0004-AN01-2"-PT	AN01	#3000	1/2" NPT	HYDROCARBON/ WATER	LIQUID	2	18.2	AMB	85	0-4	Yes	Bourdon	SS 316L	No	Yes	No	No	No	VTA	
	52	PG-2251	BK-GCS-PEDCO-120-PR-Pi-0020 (2 of 3)	LP flare K.O.drum	V-2201	AN07	#6000	1/2" NPT	HYDROCARBON	GAS	0.5	FV6.0	32	85	0-1	Yes	Diaphragm	SS 316L	No	Yes	No	No	Yes	VTA	
	53	PG-2251A	BK-GCS-PEDCO-120-PR-Pi-0020 (2 of 3)	LP flare K.O.drum pump	CDH-112-0038-AN07-2"-PT	AN07	#6000	1/2" NPT	HYDROCARBON	LIQUID	1.6	18.2	AMB	85	0-4	Yes	Bourdon	SS 316L	No	Yes	No	No	Yes	VTA	
	54	PG-2251B	BK-GCS-PEDCO-120-PR-Pi-0020 (2 of 3)	LP flare K.O.drum pump	CDH-112-0037-AN07-2"-PT	AN07	#6000	1/2" NPT	HYDROCARBON	LIQUID	1.6	18.2	AMB	85	0-4	Yes	Bourdon	SS 316L	No	Yes	No	No	Yes	VTA	
	55	PG-2272	BK-GCS-PEDCO-120-PR-Pi-0022	FUEL GAS	FLG-111-0004-AN07-2"-PT	AN07	#6000	1/2" NPT	HYDROCARBON	GAS	5.1	18.2	19-37	85	0-10	Yes	Bourdon	SS 316L	No	Yes	No	No	Yes	VTA	
	56	PG-2273	BK-GCS-PEDCO-120-PR-Pi-0022	FUEL GAS	V-2205	AN07	#6000	1/2" NPT	HYDROCARBON	GAS	4.9	FV9	19-37	85	0-10	Yes	Bourdon	SS 316L	No	No	No	No	Yes	VTA	
	57	PG-2271	BK-GCS-PEDCO-120-PR-Pi-0022	FUEL GAS	FLG-112-0010-AN07-2"-PT	AN07	#6000	1/2" NPT	HYDROCARBON	GAS	4.9	18.2	33.6	85	0-10	Yes	Bourdon	SS 316L	No	Yes	No	No	Yes	VTA	



NISOC

تکهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR PRESSURE & DIFF. PRESSURE GAUGE

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053 - 073 - 9184

شماره صفحه: 8 از 10

PRESSURE GAUGE

Rev.	Item No.	Tag No.	P&IDs No.	Service.	LINE/EQUIPMENT	Piping Class	Manifold Rating	Process Connection	Fluid	Phase	Operating Pressure (barg)	Design Pressure (barg)	Operating Temperature (°C)	Design Temperature (°C)	Instrument Range (barg)	Liquid Filled	Press. Element Type	Press. Element Material	Movement Damper (Snubber)	Over Range Protection	Siphon	Diaphragm Seal	Nace	Model	Remark
	58	PG-2274	BK-GCS-PEDCO-120-PR-PI-0022	FUEL GAS	FL-112-0040-AN07-2"-PT	AN07	#6000	1/2" NPT	HYDROCARBON	GAS	0.5	18.2	33.6	85	0-1	Yes	Diaphragm	SS 316L	No	Yes	No	No	Yes	VTA	
D03-Modified	59	PG-2282	BK-GCS-PEDCO-120-PR-PI-0023	OIL	V-2206	AN01	#3000	1/2" NPT	HYDROCARBON	LIQUID/OIL	0.95	18.2	5-50	85	0-2.5	Yes	Bourdon	SS 316L	No	Yes	No	No	No	VTA	
D03-Modified	60	PG-2283	BK-GCS-PEDCO-120-PR-PI-0023	OIL	V-2206	AN01	#3000	1/2" NPT	HYDROCARBON	LIQUID/OIL	0.95	18.2	5-50	85	0-2.5	Yes	Bourdon	SS 316L	No	Yes	No	No	No	VTA	
	61	PG-2291	BK-GCS-PEDCO-120-PR-PI-0024	Potable Water	PTW-112-0003-AZ00-2"-NP	AZ00	#3000	1/2" NPT	Water	Liquid	1.95	18.2	AMB	85	0-4	Yes	Bourdon	SS 316L	No	Yes	No	No	No	VTA	
	62	PG-2292	BK-GCS-PEDCO-120-PR-PI-0024	Potable Water	PTW-112-0001-AZ00-2"-NP	AZ00	#3000	1/2" NPT	Water	Liquid	0.15	18.2	AMB	85	0-250 mbar VTA	Yes	Diaphragm	SS 316L	No	Yes	No	No	No	VTA	
	63	PG-2293	BK-GCS-PEDCO-120-PR-PI-0025	RICH GLYCOL	V-2107	AN04	#3000	1/2" NPT	RICH GLYCOL	Liquid	2.1	18.2	AMB	85	0-4	Yes	Bourdon	SS 316L	No	Yes	No	No	No	VTA	
	64	PG-2294	BK-GCS-PEDCO-120-PR-PI-0025	Right Glycol	TEG-111-001-AN04-2"-PT	AN04	#3000	1/2" NPT	RICH GLYCOL	Liquid	0.01	FW3.5	AMB	85	0-25 mbar VTA	Yes	Diaphragm	SS 316L	No	Yes	No	No	No	VTA	
	65	PG-2295	BK-GCS-PEDCO-120-PR-PI-0025	GLYCOL SUMP DRUM	NIT-111-0009-AN04-1"-PT	AN04	#3000	1/2" NPT	NITROGEN	GAS	0.5	18.2	AMB	85	0-1	Yes	Bourdon	1	No	Yes	No	No	No	VTA	
	66	PG-2301	BK-GCS-PEDCO-120-SA-PI-0001 (1 of 8)	Fire Water	FWA-113-0001-AN04-3"-PT	AN04	#3000	1/2" NPT	Water	Liquid	11.3	17	AMB	85	0-25	Yes	Bourdon	SS 316L	No	No	No	No	No	VTA	
	67	PG-2305	BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8)	Fire Water	FWA-113-0025-AN04-12"-PT	AN04	#3000	1/2" NPT	Water	Liquid	11.3	17	AMB	85	0-25	Yes	Bourdon	SS 316L	No	No	No	No	No	VTA	
D03-Added	68	PG-2306	BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8)	Fire Water	FWA-113-0007-AN04-12"-PT	AN04	#3000	1/2" NPT	Water	Liquid	11.3	17	AMB	85	0-25	Yes	Bourdon	SS 316L	No	No	No	No	No	VTA	
	69	PG-2303A	BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8)	Fire Water	FWA-113-0027-AN04-2"-PT	AN04	#3000	1/2" NPT	Water	Liquid	1	1.5	AMB	85	0-2.5	Yes	Bourdon	SS 316L	No	No	No	No	No	VTA	
	70	PG-2304A	BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8)	Fire Water	FWA-113-0029-AN04-2"-PT	AN04	#3000	1/2" NPT	Water	Liquid	11.3	17	AMB	85	0-25	Yes	Bourdon	SS 316L	No	No	No	No	No	VTA	
	71	PG-2303B	BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8)	Fire Water	FWA-113-0026-AN04-2"-PT	AN04	#3000	1/2" NPT	Water	Liquid	1	1.5	AMB	85	0-2.5	Yes	Bourdon	SS 316L	No	No	No	No	No	VTA	
	72	PG-2304B	BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8)	Fire Water	FWA-113-0028-AN04-2"-PT	AN04	#3000	1/2" NPT	Water	Liquid	11.3	17	AMB	85	0-25	Yes	Bourdon	SS 316L	No	No	No	No	No	VTA	
	73	PG-2304	BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8)	Fire Water	FWA-113-0018-AN04-12"-PT	AN04	#3000	1/2" NPT	Water	Liquid	11	16.5	AMB	85	0-25	Yes	Bourdon	SS 316L	No	No	No	No	No	VTA	
	74	PG-2301A	BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8)	Fire Water	FWA-113-0006-AN04-12"-PT	AN04	#3000	1/2" NPT	Water	Liquid	1	1.5	AMB	85	0-2.5	Yes	Bourdon	SS 316L	No	No	No	No	No	VTA	
	75	PG-2302A	BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8)	Fire Water	FWA-113-00022-AN04-10"-PT	AN04	#3000	1/2" NPT	Water	Liquid	11.3	17	AMB	85	0-25	Yes	Bourdon	SS 316L	No	No	No	No	No	VTA	
	76	PG-2301B	BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8)	Fire Water	FWA-113-0006-AN04-12"-PT	AN04	#3000	1/2" NPT	Water	Liquid	1	1.5	AMB	85	0-2.5	Yes	Bourdon	SS 316L	No	No	No	No	No	VTA	
	77	PG-2302B	BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8)	Fire Water	FWA-113-0021-AN04-10"-PT	AN04	#3000	1/2" NPT	Water	Liquid	11.3	17	AMB	85	0-25	Yes	Bourdon	SS 316L	No	No	No	No	No	VTA	

 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک						 		
		DATA SHEETS FOR PRESSURE & DIFF. PRESSURE GAUGE								
شماره پیمان: 053 - 073 - 9184		پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 9 از 10
		BK	GCS	PEDCO	120	IN	DT	0001	D03	

Differential Pressure Gauge										
GENERAL	1	Item				See Page 10				
	2	Tag Number				See Page 10				
	3	Service				See Page 10				
	4	Line No.				See Page 10				
	5	Equipment No.		P&ID No.		See Page 10			See Page 10	
	6	Area Classification				Zone 2, IIB T4				
PROCESS CONDITIONS	7	Fluid		Fluid State		See Page 10			See Page 10	
	8	Max Press. Oper.		Design Pressure		See Page 10			barg See Page 10	
	9	Oper. Temp.		Design Temperature		See Page 10			See Page 10 °C	
MANIFOLD	10	Manifold Type		Manifold Material		5 Way Manifold			316 S.S.	
	11	Connection		Manifold Rating		1/2" NPTF (Note 6)			(Note 11)	
CASE	12	Case Type		Case Style		Silicon Oil Filled			weather proof (IP 65)	
	13	Case Material		Case Size		304 S.S.			150 mm	
	14	Case Pressure Relief				Yes				
	15	Conn. Location		Proc. Connection		bottom			See Page 10	
	16	Ring Style		Ring Material		VTA			304 S.S.	
	17	Mounting Type		Blow-out protection		Direct			Back	
	18	Socket Material				316 S.S.				
	19	Window Material				Shatterproof glass				
	20	Seal / O-Ring Material				VTA				
	ELEMENT	21	Liquid Fill Material				VTA			
22		Element Type		Element Material		Bourdon Tube			D03 316 S.S.	
23		Movement Style		Movement Material		VTA			316 S.S.	
24		Over Range Protection				1.3 times of maximum operating pressure				
25		Accuracy				±0.5% of F.S.				
26		Internal Stop				Yes				
27		Measuring Range				See Page 10			barg	
DIAL	28	Dial Scale Type		Dial Material		Dual indicating scales (bar/psi)			aluminum	
	29	Dial Color				black marks on white background				
	30	Zero Adjustment				Adjustable pointer				
ACCESSORY	31	Syphon		Material		See Page 10			316 S.S.(if necessary)	
	32	Pulsation Damper		Material		See Page 10			316 S.S.(if necessary)	
	33	Over Range Protection		Material		See Page 10			316 S.S.(if necessary)	
	34	End Connection				1/2" NPT (Note 6)				
DIAPHRAGM SEAL	35	Seal Type				N/A				
	36	Instrument Conn.		Process Conn.		N/A			N/A	
	37	Diaphragm Extension Length				N/A				
	38	Diaphragm Material				N/A				
	39	Capillary Material		Capillary Length		N/A			N/A	
	40	Housing Mtrl.		Lower		N/A			N/A	
	41	Bolting Material				N/A				
SPECIAL	42	Gasket / O-Ring Material				N/A				
	43	Fill Fluid Material				N/A				
	44	NACE MR0175/ISO 15156 Compliance				See Page 10				
PURCHASE	45	Manufacturer				(Note 8)				
	46	Model				(Note 8)				

NOTES:

VTA : Vendor to Advise

N/A: Not Applicable

(1) NACE-MR-0175/ISO 15156 requirements shall be covered where Piping/Pipeline Material Specification recommended.

(2) Window shall be heavy plate glass, breakage resistance and shatter proof.

(3) Pressure gauges shall be double scale type (Bar and Psi).

(4) All gauges shall be equipped with screw driver slot type adjustment for calibration purposes.

(5) Oil-filled system or Pulsation dampeners shall be supplied for all pressure instruments and gauges in vibrating or pulsating services.

(6) 1/2"NPT for Instrument/Process connection and 1/4" NPT for Drain Connection-All Manifolds, Pulsation Dampners and Siphons shall be suitable for connecting to gauges (1/2" NPT). And the material shall be 316 SS.

(7) Over range protection shall be 1.3 times the maximum range.

(8) Will be finalized later at the purchasing time.

(9) Cases for pressure gauges shall be solid front stainless steel.

(10) Weep hole shall be provided on the case bottom of all gauges.

(11) For manifoled rating, Bolt & Gasket material refer to "Piping Material Specification Doc No.: BK-GCS-PEDCO-120-PI-SP-0001"

(12) Gauge pointer shall be adjustable (micro meter adjustment) without removal from pinion shaft.



تنگه‌داشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR PRESSURE & DIFF. PRESSURE GAUGE

شماره ۵ بهمان:

053 - 073 - 9184

شماره صفحه: 10 از 10

DIFFERENTIAL PRESSURE GAUGE

Rev.	Item No.	Tag No.	P&IDs No.	Service.	LINE/ EQUIPMENT	Piping Class	Connection Rating	Process Connection	Fluid	Phase	Operating Pressure (barg) / Differential Pressure (bar)	Design Pressure (barg)	Operating Temperature (°C)	Design Temperature (°C)	Instrument Range (barg)	Liquid Filled	Press. Element Type	Press. Element Material	Movement Damper (Snubber)	Over Range Protection	Siphon	Diaphragm Seal	Nace	Model	Remark
	1	PDG-2114A	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	BEFORE SLUG PUMP A	CDH-112-0010-AS00-4"-PT	AS00	-	1/2" NPT	WATER	LIQUID	5.5 / 1.5	13.9	23.228.82	85	0-2.5	Yes	Bourdon	SS 316L	No	Yes	No	No	YES	VTA	
	2	PDG-2114B	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	BEFORE SLUG PUMP B	CDH-112-0011-AS00-4"-PT	AS00	-	1/2" NPT	WATER	LIQUID	5.5 / 1.5	13.9	23.228.82	85	0-2.5	Yes	Bourdon	SS 316L	No	Yes	No	No	YES	VTA	
D03-Deleted	3	PDG-2271	BK-GCS-PEDCO-120-PR-PI-0002	FUEL-GAS-K.O-DRUM	V-2205	-	-	1/2" NPT	HYDROCARBON	GAS	4.8 / 1.5	RVB	23.6	85	0-2.5	Yes	Bourdon	SS 316L	No	Yes	No	No	YES	VTA	