



نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض و ابنیه تحت الارض
خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک
(قرارداد ۸-۰۱۰-۰۰۱-BK-HD-GCS-CO)



INSTRUMENT D.S. FOR PRESSURE TRANSMITTERS AND DIFFE.
PRESSURE TRANSMITTERS

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

بسته کاری

صادرکننده

تجهیزات

رشته

نوع مدرک

سریال

نسخه

BK

GCS

MF

120

IN

DS

0007

V00

شماره صفحه: ۱ از ۱۰

طرح نگهداشت و افزایش تولید ۲۷ مخزن

INSTRUMENT D.S. FOR PRESSURE TRANSMITTERS AND DIFFE. PRESSURE
TRANSMITTERS

نگهداشت و افزایش تولید میدان نفتی بینک

V00	Mar.2025	IFA	MFS	M.Fakharian	S.Faramarzpour	
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status:

IFA: Issued For Approval

IFI: Issued For Information

AFC: Approved For Construction

**INSTRUMENT D.S. FOR PRESSURE TRANSMITTERS AND
DIFFERENTIAL PRESSURE TRANSMITTERS**

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۰ از ۲
	BK	GCS	MF	120	IN	DS	0007	V00	

REVISION RECORD SHEET

Revision Record Sheet						Revision Record Sheet					
Page	V00	V01	V02	V03	V04	Page	V00	V01	V02	V03	V04
1	X					61					
2	X					62					
3	X					63					
4	X					64					
5	X					65					
6	X					66					
7	X					67					
8	X					68					
9	X					69					
10	X					70					
11						71					
12						72					
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53						113					
54						114					
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57						117					
58						118					
59						119					
60						120					

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱-۰۰۰ BK-HD-GCS-CO قرارداد)									
	INSTRUMENT D.S. FOR PRESSURE TRANSMITTERS AND DIFFE. PRESSURE TRANSMITTERS									
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۵ از ۱۰	
۰۲۳-۰۲۳-۰۱۸۱	BK	GCS	MF	120	IN	DS	0007	V00		
GENERAL	1	Item Number	Tag Number	Quantity	3		D-PIT-2103		1	
	2	Service							FROM FUEL GAS HEADER TO REBOILER	
	3	P & ID No.	Page No.	BK-GCS-MF-120-PR-PI-0003		4/7				
	4	Line No. / Equipment No.	Piping Class	FLG-111-0024-AN07-1"-PT		AN07				
PROCESS CONDITIONS	5	Fluid	Phase	FUEL GAS		V				
	6	Operating Pressure:	Normal	Minimum	Unit	4.9	4.9	barg		
	7	Operating Temperature:	Minimum	Maximum	Unit	48	48	°C		
	8	Design Pressure	Unit		9.0	barg				
	9	Design Temperature	Unit		85	°C				
	10	Operating Viscosity	Unit		0.0119	cp				
	11	Solid in Suspension	Wet Gas		-	-				
	12	Corrosive Service	NACE Requirement		-	YES				
	13	Toxic Service	Superheat		-	-				
	14									
	TRANSMITTER	15	Instrument Type	Model	Pressure		Will be finalized later			
		16	Calibration Range	Unit	0 ~ 8		Barg			
		17	Instrument Range	Unit	0 ~10(VTC)		Barg			
		18	Zero Adjustment	Span Adjustment	YES (Internal)		YES (Internal)			
19		Accuracy	Repeatability	± 0.1% of full scale.		± 0.2% of full scale (VTC)				
20		Integral Indicator	Scale Factor	YES		VTA				
21		RFI Protection	Write Protection	YES (VTC)		YES				
22		Power Supply	Power Consumption	24 Vdc (2 wire), loop powered		0.1W(VTC)				
23		Output Signal	Electrical Connection	4-20 mA, HART		ISO M20 x 1.5				
24		Failure / Diagnostic Alarm	Self-Diagnostics							
25		Housing Material	Mounting Type	Painted Copper Free Die Cast Aluminum		YOKE (2" Pipe)				
26		Ex Certificate	Ingress Protection	Ex-ia IIB T4		IP65				
27		SIL Requirement/Level	No							
SENSING & BODY	28	Element Type	Element Material	Diaphragm (VTC)		316 SS (NACE)				
	29	Body Material	Body Rating	316 SS		Mfr. Std.				
	30	O-Rings Material	Bolts Material	Mfr. Std.		SS				
	31	Instrument Connection	1/2" NPT Integral with 2-Way Valve Manifold							
	32	Fill Fluid	No							
	33									
DIAPHRAGM SEAL	34	Type	Model Number	NA		NA				
	35	Process Connection	Instrument Connection	NA		NA				
	36	Connection Material	Connection Rating	NA		NA				
	37	Diaphragm Material	NA							
	38	Extended Length	NA							
	39	Bottom Housing Material	NA							
	40	Top Housing Material	NA							
	41	Flushing Connection	NA							
	42	Fill Connection	NA							
	43	Fill Fluid	NA							
	44	Capillary Length	NA							
	45	Capillary Bleeder	NA							
	46	Capillary Material	NA							
	47									
MANIFOLD	48	Valve Type	Model	2-Way Valve Manifold		Will be finalized later				
	49	Body Material	Trim Material	316 SS		316 SS (NACE)				
	50	Process Connection	Instrument Connection	1/2" NPT(F)		1/2" NPT Integral with transmitter				
	51	Vent / Drain size	Valve Rating	1/4" NPT(F)		3000# (VTC)				
	52	Packing Material	PTFE (VTC)							
	53									
OPTIONS	54	Lightning Protection			YES					
	55	Mounting Brackets	Brackets Material	2" Pipe Mounting Bracket		SS				
	56	Name Plate			YES (SS)					
	57	Elec. integrally mounted indicator LCD			YES					
PURCHASE	58	Manufacturer			Will be selected later					
	59	Model			Will be selected later					
	60	Requisition Number								

Note:

1- Engraved stainless steel corrosion resistant tag nameplate is required for transmitter.

2-Transmitter shall be provided with ground lug

3-All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard.

4- Pressure elements shall be furnished with over-range protection to at least 1.5 times the maximum range of the instrument.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (A-001000-GCS-HD-BK قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE TRANSMITTERS AND DIFFE. PRESSURE TRANSMITTERS								
شماره پیمان:	پروژه	بسته کاری	مسئول کننده	تسهیلات	رشته	نوع متریک	سیرال	نسخه	
۰۵۳-۷۳۰۹۱۸۸	BK	GCS	MF	120	IN	DS	0007	V00	
شماره صفحه: ۱۰ از ۸									
GENERAL	1	Item Number	Tag Number	Quantity	6	D-PDIT-2101		1	
	2	Service	C-100						
	3	P & ID No.	Page No.	BK-GCS-MF-120-PR-PI-0003		1/7			
	4	Line No. / Equipment No.	Piping Class	C-100		NA			
PROCESS CONDITIONS	5	Fluid	Phase	GAS		V			
	6	Operating Pressure:	Normal	Minimum	Unit	53.8	54.9	barg	
	7	Operating Temperature:	Minimum	Maximum	Unit	62.08	63.6	°C	
	8	Design Pressure	Unit		62	barg			
	9	Design Temperature	Unit		5 / 148	°C			
	10	Operating Viscosity	Unit		0.01418	cp			
	11	Solid in Suspension	Wet Gas	-		-			
	12	Corrosive Service	NACE Requirement	YES		YES			
	13	Toxic Service	Superheat	-		-			
	14								
TRANSMITTER	15	Instrument Type	Model	Pressure		Will be finalized later			
	16	Calibration Range	Unit	0 ~ 100		Barg			
	17	Instrument Range	Unit	0 ~ 120(VTC)		Barg			
	18	Zero Adjustment	Span Adjustment	YES (Internal)		YES (Internal)			
	19	Accuracy	Repeatability	± 0.1% of full scale.		± 0.2% of full scale (VTC)			
	20	Integral Indicator	Scale Factor	YES		VTA			
	21	RFI Protection	Write Protection	YES (VTC)		YES			
	22	Power Supply	Power Consumption	24 Vdc (2 wire), loop powered		0.1W(VTC)			
	23	Output Signal	Electrical Connection	4-20 mA, HART		ISO M20 x 1.5			
	24	Failure / Diagnostic Alarm	Self-Diagnostics						
	25	Housing Material	Mounting Type	Painted Copper Free Die Cast Aluminum		YOKE (2" Pipe)			
	26	Ex Certificate	Ingress Protection	Ex-ia IIB T4		IP65			
	27	SIL Requirement/Level	No						
SENSING & BODY	28	Element Type	Element Material	Diaphragm (VTC)		316 SS (NACE)			
	29	Body Material	Body Rating	316 SS		Mfr. Std.			
	30	O-Rings Material	Bolts Material	Mfr. Std.		SS			
	31	Instrument Connection	1/2" NPTM						
	32	Fill Fluid	No						
DIAPHRAGM SEAL	33								
	34	Type	Model Number	Clamped Diaphragm Seals(VTC)		Manufacturer/Model			
	35	Process Connection	Instrument Connection	2" Flanged type		1/2" NPT(F)			
	36	Connection Material	Connection Rating	SS316(NACE)		600#			
	37	Diaphragm Material	316 SS(NACE)						
	38	Extended Length	316 SS(NACE)						
	39	Bottom Housing Material	316 SS(NACE)						
	40	Top Housing Material	316 SS(NACE)						
	41	Flushing Connection	1/4" NPTM(VTC)						
	42	Fill Connection	1/4" NPTF(VTC)						
	43	Fill Fluid	Silicone oil (VTC)						
	44	Capillary Length	3m						
	45	Capillary Bleeder	YES/1/4" NPTF(VTC)						
	46	Capillary Material	316 SS shielded by flexible stainless steel tubing with PVC cover (VTA)						
MANIFOLD	47								
	48	Valve Type	Model	NA		NA			
	49	Body Material	Trim Material	NA		NA			
	50	Process Connection	Instrument Connection	NA		NA			
	51	Vent / Drain size	Valve Rating	NA		NA			
	52	Packing Material	NA						
OPTIONS	53								
	54	Lightning Protection	YES						
	55	Mounting Brackets	Brackets Material	2" Pipe Mounting Bracket		SS			
	56	Name Plate	YES (SS)						
PURCHASE	57	Elec. integrally mounted indicator LCD	YES						
	58	Manufacturer	Will be selected later						
	59	Model	Will be selected later						
	60	Requisition Number							

Note:

- Engraved stainless steel corrosion resistant tag nameplate is required for transmitter.
- Transmitter shall be provided with ground lug
- All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard
- Pressure elements shall be furnished with over-range protection to at least 1.5 times the maximum range of the instrument.

	تکمیل داشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (A-001-BK-GCS-CO-HD-BK قرارداد)									
	INSTRUMENT D.S. FOR PRESSURE TRANSMITTERS AND DIFF. PRESSURE TRANSMITTERS									
شماره پیغام: ۰۳-۰۷۲-۹۱۴۵	پروژه	بسته کاری	صنایع کننده	تجهیزات	رشته	نوع مدارک	سریال	نسخه	شماره صفحه: ۱۰ از ۹	
	BK	GCS	MF	120	IN	DS	0007	V00		
GENERAL	1	Item Number		Tag Number		Quantity		7	D-PDIT-2102	1
	2	Service								C-100
	3	P & ID No.		Page No.		BK-GCS-MF-120-PR-PI-0003			1/7	
	4	Line No. / Equipment No.		Piping Class		C-100			NA	
PROCESS CONDITIONS	5	Fluid		Phase		GAS		V		
	6	Operating Pressure:		Normal	Minimum	Unit	53.8	54.9	barg	
	7	Operating Temperature:		Minimum	Maximum	Unit	62.08	63.6	°C	
	8	Design Pressure				Unit	62	barg		
	9	Design Temperature				Unit	5 / 148	°C		
	10	Operating Viscosity				Unit	0.01418	cp		
	11	Solid in Suspension		Wet Gas				-	-	
	12	Corrosive Service		NACE Requirement		YES		YES		
	13	Toxic Service		Superheat				-	-	
	14									
TRANSMITTER	15	Instrument Type		Model		Pressure		Will be finalized later		
	16	Calibration Range				Unit	0 ~ 80		Barg	
	17	Instrument Range				Unit	0 ~ 120(VTC)		Barg	
	18	Zero Adjustment		Span Adjustment		YES (Internal)		YES (Internal)		
	19	Accuracy		Repeatability		± 0.1% of full scale.		± 0.2% of full scale (VTC)		
	20	Integral Indicator		Scale Factor		YES		VTA		
	21	RFI Protection		Write Protection		YES (VTC)		YES		
	22	Power Supply		Power Consumption		24 Vdc (2 wire), loop powered		0.1W(VTC)		
	23	Output Signal		Electrical Connection		4-20 mA, HART		ISO M20 x 1.5		
	24	Failure / Diagnostic Alarm				Self-Diagnostics				
	25	Housing Material		Mounting Type		Painted Copper Free Die Cast Aluminum		YOKE (2" Pipe)		
	26	Ex Certificate		Ingress Protection		Ex-ia IIB T4		IP65		
	27	SIL Requirement/Level				No				
SENSING & BODY	28	Element Type		Element Material		Diaphragm (VTC)		316 SS (NACE)		
	29	Body Material		Body Rating		316 SS		Mfr. Std.		
	30	O-Rings Material		Bolts Material		Mfr. Std.		SS		
	31	Instrument Connection				1/2" NPTM				
	32	Fill Fluid				No				
	33									
DIAPHRAGM SEAL	34	Type		Model Number		Clamped Diaphragm Seals(VTC)		Will be finalized later		
	35	Process Connection		Instrument Connection		2" Flanged type		1/2" NPT(F)		
	36	Connection Material		Connection Rating		SS316 RF		600#		
	37	Diaphragm Material				316 SS(NACE)				
	38	Extended Length				316 SS(NACE)				
	39	Bottom Housing Material				316 SS(NACE)				
	40	Top Housing Material				316 SS(NACE)				
	41	Flushing Connection				1/4" NPTM(VTC)				
	42	Fill Connection				1/4" NPTF(VTC)				
	43	Fill Fluid				Silicone oil (VTC)				
	44	Capillary Length				3m				
	45	Capillary Bleeder				YES/1/4" NPTF(VTC)				
	46	Capillary Material				316 SS shielded by flexible stainless steel tubing with PVC cover (VTA)				
	47									
MANIFOLD	48	Valve Type		Model		NA		NA		
	49	Body Material		Trim Material		NA		NA		
	50	Process Connection		Instrument Connection		NA		NA		
	51	Vent / Drain size		Valve Rating		NA		NA		
	52	Packing Material				NA				
	53									
OPTIONS	54	Lightning Protection				YES				
	55	Mounting Brackets		Brackets Material		2" Pipe Mounting Bracket		SS		
	56	Name Plate				YES (SS)				
	57	Elec. integrally mounted indicator LCD				YES				
PURCHASE	58	Manufacturer				Will be selected later				
	59	Model				Will be selected later				
	60	Requisition Number								

Note:

- Engraved stainless steel corrosion resistant tag nameplate is required for transmitter.
- Transmitter shall be provided with ground lug
- All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard.
- Pressure elements shall be furnished with over-range protection to at least 1.5 times the maximum range of the instrument.

