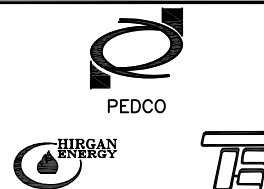




پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 01 از 56

طرح نگهداشت و افزایش تولید ۲۷ مخزن

INSTRUMENT HOOK-UP DIAGRAM

نگهداشت و افزایش تولید میدان نفتی بینک

D04	DEC.2023	AFC	P.Hajisadeghi	M.Fakharian	S.Faramarzpour	
D03	SEP.2023	AFC	P.Hajisadeghi	M.Fakharian	A.M.Mohseni	
D02	OCT.2022	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D01	JUN.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

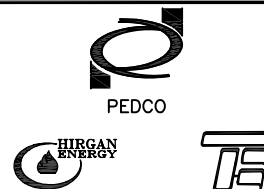
CLIENT Doc. Number:F2J-708945

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



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
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شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 02 از 56

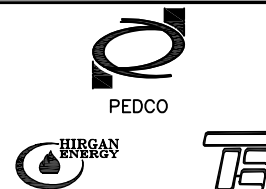
نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D04	0002	DG	IN	120	PEDCO	GCS	BK

REVISION RECORD SHEET

REV. PAGE	D00	D01	D02	D03	D04	D05	D06	REV. PAGE	D00	D01	D02	D03	D04	D05	D06
1	X	X	X	X	X			34		X	X	X	X		
2	X	X	X	X	X			35			X	X	X		
3	X	X	X	X	X			36			X	X	X		
4	X	X	X	X	X			37			X	X	X		
5	X	X	X	X	X			38			X	X	X		
6	X	X		X	X			39			X	X	X		
7	X	X	X	X	X			40				X	X		
8	X	X	X	X	X			41				X	X		
9	X	X		X	X			42				X	X		
10	X	X	X	X	X			43				X	X		
11	X	X	X	X	X			44				X	X		
12	X	X	X	X	X			45				X	X		
13	X	X	X	X	X			46				X	X		
14	X	X	X	X	X			47				X	X		
15	X	X	X	X	X			48				X	X		
16	X	X	X	X	X			49				X	X		
17	X	X	X	X	X			50				X	X		
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20	X		X	X	X			53				X	X		
21	X		X	X	X			54				X	X		
22	X		X	X	X			55				X	X		
23	X		X	X	X			56					X		
24	X		X	X	X			57							
25	X	X	X	X	X			58							
26	X	X	X	X	X			59							
27	X		X	X	X			60							
28	X		X	X	X			61							
29	X		X	X	X			62							
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31	X		X	X	X			64							
32		X	X	X	X			65							
33		X	X	X	X			66							



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شماره پیمان:

053-073-9184

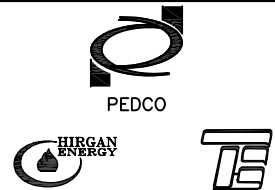
INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 03 از 56

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D04	0002	DG	IN	120	PEDCO	GCS	BK

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LEGEND	06
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شماره صفحه: 04 از 56

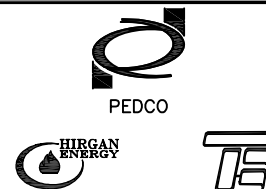
پروژه	بسته کاری	صادرکننده	تهیهات	رشته	نوع مدرک	سریال	سنگه
BK	GCS	PEDCO	120	IN	DG	0002	D04

~~D04~~ TOTALLY REVISED

[illegible]



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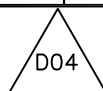
شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 05 از 56

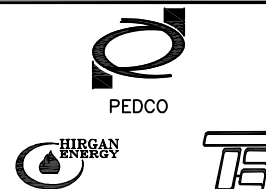
نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D04	0002	DG	IN	120	PEDCO	GCS	BK



CODE	DESCRIPTION	SIZE	MATERIAL	TOTAL QTY	UNIT	REMARK
01	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	988	METER	-
02	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/4"O.D.	AISI 316L SS	470	METER	-
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	536	METER	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	90	PIECES	-
06A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	39	PIECES	#3000
06B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	64	PIECES	#6000
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	144	PIECES	#3000
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	82	PIECES	#6000
08A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/2"O.D	AISI 316L SS	39	PIECES	#3000
08B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/2"O.D	AISI 316L SS	64	PIECES	#6000
09A	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	39	PIECES	#3000
09B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	64	PIECES	#6000
19A	3 WAY 2-VALVE MANIFOLD	2 x 1/2"NPTF+ 1/4"	AISI 316L SS	91	PIECES	#3000 BY VENDOR
19B	3 WAY 2-VALVE MANIFOLD	2 x 1/2"NPTF+ 1/4"	AISI 316L SS	35	PIECES	#6000 BY VENDOR
20A	OVER RANGE PROTECTION	1/2"NPTMx1/2"NPTF	AISI 316L SS	18	PIECES	#3000 BY VENDOR
20B	OVER RANGE PROTECTION	1/2"NPTMx1/2"NPTF	AISI 316L SS	11	PIECES	#3000 BY VENDOR
21A	5- WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	3	PIECES	#3000 BY VENDOR
21B	5- WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	27	PIECES	#6000 BY VENDOR
23A	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	80	PIECES	#3000
23B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	33	PIECES	#6000
24A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/4"O.D	AISI 316L SS	80	PIECES	#3000
24B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/4"O.D	AISI 316L SS	33	PIECES	#6000
25A	UNION TUBE TEE	1/4"	AISI 316L SS	3	PIECES	#3000
25B	UNION TUBE TEE	1/4"	AISI 316L SS	24	PIECES	#6000



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شماره پیمان:

053-073-9184

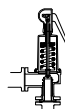
INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

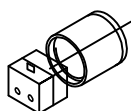
شماره صفحه: 06 از 56



PRESSURE GAUGE



SAFETY VALVE



PRESSURE TRANSMITTER



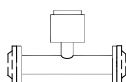
CONTROL VALVE



PRESSURE SWITCH



CORROSION COUPON



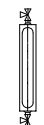
ULTRASONIC FLOWMETER



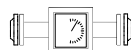
ON/OFF VALVE



DISPLACER LEVEL TRANSMITTER



LEVEL GAUGE



ROTAMETER



5-WAY VALVE MANIFOLD



TEMPERAURE GAUGE



3-WAY 2 VALVES MANIFOLD
FOR PRESSURE TRANSMITTER
AND PRESSURE SWITCH



DIFF. PRESSURE GAUGE



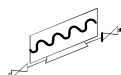
UNION



TEMPERATURE TRANSMITTER



TUBE CAP



DIAPHRAGM SEAL



CONNECTOR



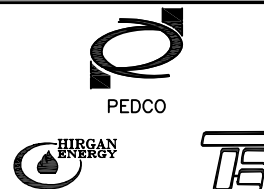
TEMPERATURE SWITCH



3-WAY 2 VALVES MANIFOLD
FOR PRESSURE GAUGES



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شماره پیمان:

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INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 07 از 56

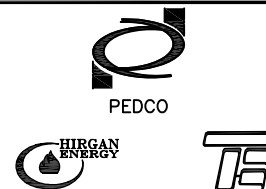
نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D04	0002	DG	IN	120	PEDCO	GCS	BK

REFERENCE DOCUMENTS/STANDARDS

1	IPS Standard Drawing	IPS-D-IN-104
2	Piping Assembly Drawing.	BK-GCS-PEDCO-120-PI-DW-0002
3	Typical Instrument Installation Drawing	BK-GCS-PEDCO-120-IN-DW-0001_D01
4	Symbol & Legend for PFD and P&ID	BK-SSGRL-PEDCO-110-PR-PI-0001_D02
5	P&ID - W018S	BK-W018S-PEDCO-110-PR-PI-0001_D03
6	P&ID - W028	BK-W028-PEDCO-110-PR-PI-0001_D03
7	P&ID - W046S	BK-W046S-PEDCO-110-PR-PI-0001_D03
8	P&ID for Diesel Oil Drum- W0046S	BK-W046S-PEDCO-110-PR-PI-0002_D03
9	P&ID for Potable Water Tank - W0046S	BK-W046S-PEDCO-110-PR-PI-0003_D03
10	P&ID - W035	BK-W035-PEDCO-110-PR-PI-0001_D03
11	P&ID - W008N	BK-W008N-PEDCO-110-PR-PI-0001_D03
12	P&ID - Extension of Binak B/C Manifold	BK-W007S-PEDCO-110-PR-PI-0001_D02
13	P&ID - W007S	BK-W007S-PEDCO-110-PR-PI-0002_D03
14	P&ID for Diesel Oil Drum- W007S	BK-W007S-PEDCO-110-PR-PI-0003_D03
15	P&ID for Potable Water Tank - W007S	BK-W007S-PEDCO-110-PR-PI-0004_D03
16	P&ID for Diesel Oil Drum- BK14	BK-BK14-PEDCO-110-PR-PI-0001_D03
17	P&ID for Potable Water Tank - BK14	BK-BK14-PEDCO-110-PR-PI-0002_D03
18	P&ID for Diesel Oil Drum- BK12	BK-BK12-PEDCO-110-PR-PI-0001_D03
19	P&ID for Potable Water Tank - BK12	BK-BK12-PEDCO-110-PR-PI-0002_D03
20	P&ID for Diesel Oil Drum- BK15	BK-BK15-PEDCO-110-PR-PI-0001_D03
21	P&ID for Potable Water Tank - BK15	BK-BK15-PEDCO-110-PR-PI-0002_D03
22	P&ID for Diesel Oil Drum- BK05	BK-BK05-PEDCO-110-PR-PI-0001_D03
23	P&ID for Potable Water Tank - BK05	BK-BK05-PEDCO-110-PR-PI-0002_D03
24	Symbol & Legend For PFD and P&ID - Gas	BK-PPL-PEDCO-320-PR-PI-0003_D01
25	Pipeline (to Siahmakan G.I. Station)	BK-PPL-PEDCO-320-PR-PI-0001_D03
26	P&ID - Condensate Pipeline (to Binak PU)	BK-PPL-PEDCO-320-PR-PI-0002_D03



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شماره پیمان:

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INSTRUMENT HOOK-UP DIAGRAM

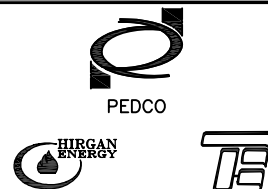
شماره صفحه: 08 از 56

REFERENCE DOCUMENTS/STANDARDS

27	Symbol & Legend For PFD and P&ID	BK-GCS-PEDCO-120-PR-PI-0001_D02
28	P&ID- Gas Compression Inlet Gas Pipeline (Binak)	BK-GCS-PEDCO-120-PR-PI-0002_D03
29	P&ID- Gas Compression Inlet Gas Pipeline (Golkhari)	BK-GCS-PEDCO-120-PR-PI-0003_D03
30	P&ID - Slug Catcher System	BK-GCS-PEDCO-120-PR-PI-0004_D03
31	P&ID - Gas Compression Inlet Knock Out Drum	BK-GCS-PEDCO-120-PR-PI-0005_D03
32	P&ID - 1st Stage Gas Compression Suction Drums	BK-GCS-PEDCO-120-PR-PI-0006_D03
33	P&ID - 1st Stage Gas Compression Compressors	BK-GCS-PEDCO-120-PR-PI-0007_D03
34	P&ID - 1st Stage Gas Compression Air Coolers	BK-GCS-PEDCO-120-PR-PI-0008_D03
35	P&ID - 2nd Stage Gas Compression Suction Drums	BK-GCS-PEDCO-120-PR-PI-0009_D03
36	P&ID-2nd Stage Gas Compression Compressors	BK-GCS-PEDCO-120-PR-PI-0010_D03
37	P&ID - 2nd Stage Gas Compression Air Coolers	BK-GCS-PEDCO-120-PR-PI-0011_D03
38	P&ID - 2nd Stage Gas Compression Discharge Drum	BK-GCS-PEDCO-120-PR-PI-0012_D03
39	P&ID - Gas Compression Dehydration Package	BK-GCS-PEDCO-120-PR-PI-0013_D03
40	P&ID - Lean Glycol Storage Tank	BK-GCS-PEDCO-120-PR-PI-0014_D03
41	P&ID - Instrument & Plant Air System	BK-GCS-PEDCO-120-PR-PI-0015_D03
42	P&ID - Nitrogen Generation System	BK-GCS-PEDCO-120-PR-PI-0016_D03
43	P&ID - Close Drain System	BK-GCS-PEDCO-120-PR-PI-0017_D03
44	P&ID - Corrosion Inhibitor Package	BK-GCS-PEDCO-120-PR-PI-0018_D03
45	P&ID - Methanol Injection Package	BK-GCS-PEDCO-120-PR-PI-0019_D03
46	P&ID - LP Flare System	BK-GCS-PEDCO-120-PR-PI-0020_D03
47	P&ID - Oily Water Sewer	BK-GCS-PEDCO-120-PR-PI-0021_D03
48	P&ID - Fuel Gas System	BK-GCS-PEDCO-120-PR-PI-0022_D03
49	P&ID - Diesel Oil System	BK-GCS-PEDCO-120-PR-PI-0023_D03
50	P&ID - Potable Water System	BK-GCS-PEDCO-120-PR-PI-0024_D03
51	P&ID - Glycol Sump Drum	BK-GCS-PEDCO-120-PR-PI-0025_D03
52	Specification For Instrumentation	BK-GNRAL-PEDCO-000-IN-SP-0001_D03
53	Instrument & Control System Design Criteria	BK-GCS-PEDCO-120-IN-DC-0002_D01



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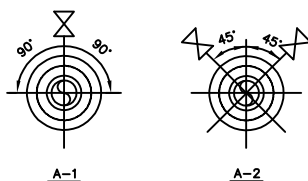
INSTRUMENT HOOK-UP DIAGRAM

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D04	0002	DG	IN	120	PEDCO	GCS	BK

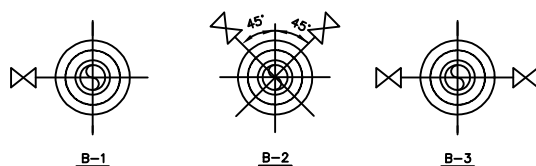
شماره صفحه: 09 از 56

ORIFICE FLANGE TAP VALVE ORIENTATION (UP STREAM VIEW)

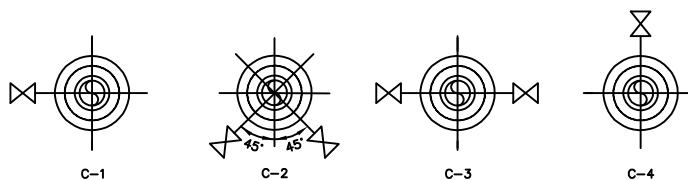
TYPE : A



TYPE : B



TYPE : C



NOTE :

TYPE : A ----- GAS SERVICE

TYPE : B ----- STEAM SERVICE

TYPE : C ----- LIQUID SERVICE



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



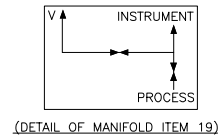
شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

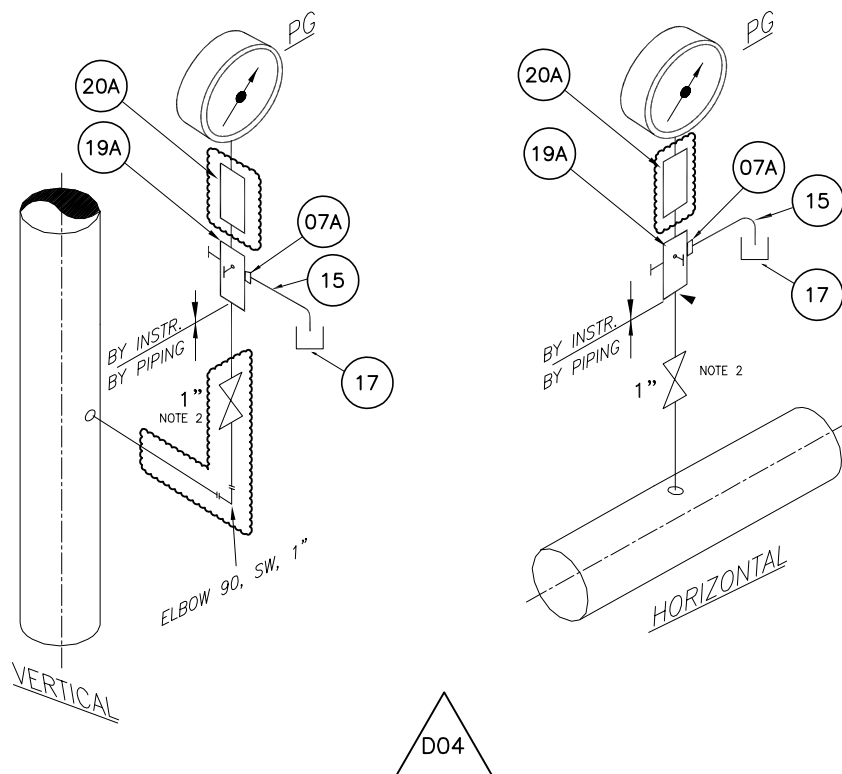
پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

شماره صفحه: 10 از 56



TAG NUMBERS

PG-2122A
PG-2122A
PG-2122C
PG-2295



NOTES:

- 1-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO GAUGE
- 2-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING, DOC. NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 3-IF USED A UNION BETWEEN THE PRESSURE GAUGE AND THE MANIFOLD, THE INSTRUMENT VENDOR SHALL BE SUPPLIED IT.

DESCRIPTION : PRESSURE GAUGE ON PIPE (GAS)-MATERIAL RATING: #3000
WITH OVER RANGE PROTECTION

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	4	4	PIECES	#3000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	4	4	METER	-
20A	OVER RANGE PROTECTION	1/2"NPTMx1/2"NPTF	AISI 316L SS	1	4	4	PIECES	#3000 BY VENDOR
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	4	4	PIECES	-
19A	3 WAY 2-VALVE MANIFOLD	2 x1/2"NPTF+ 1/4"	AISI 316L SS	1	4	4	PIECES	#3000 BY VENDOR

TABLE 1



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

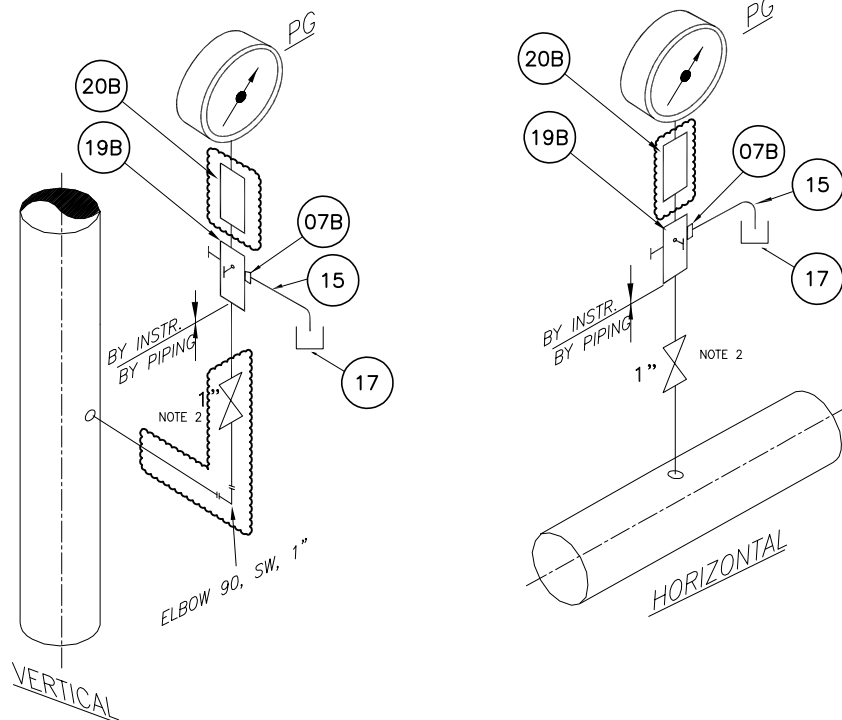
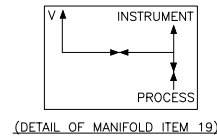
INSTRUMENT HOOK-UP DIAGRAM

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D04	0002	DG	IN	120	PEDCO	GCS	BK

شماره صفحه: 11 از 56

TAG NUMBERS

PG-2103
PG-2104
PG-2115
PG-2161
PG-2272
PG-2271
PG-2274



NOTES:

- 1-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO GAUGE
- 2-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 3-IF USED A UNION BETWEEN THE PRESSURE GAUGE AND THE MANIFOLD, THE INSTRUMENT VENDOR SHALL BE SUPPLIED IT.

DESCRIPTION : PRESSURE GAUGE ON PIPE (GAS)-MATERIAL RATING: #6000
WITH OVER RANGE PROTECTION

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	7	7	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	7	7	METER	-
20B	OVER RANGE PROTECTION	1/2"NPTMx1/2"NPTF	AISI 316L SS	1	7	7	PIECES	#6000 BY VENDOR
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	7	7	PIECES	-
19B	3 WAY 2-VALVE MANIFOLD	2 x1/2"NPTF+ 1/4"	AISI 316L SS	1	7	7	PIECES	#6000 BY VENDOR

TABLE 2



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



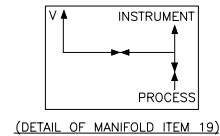
شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

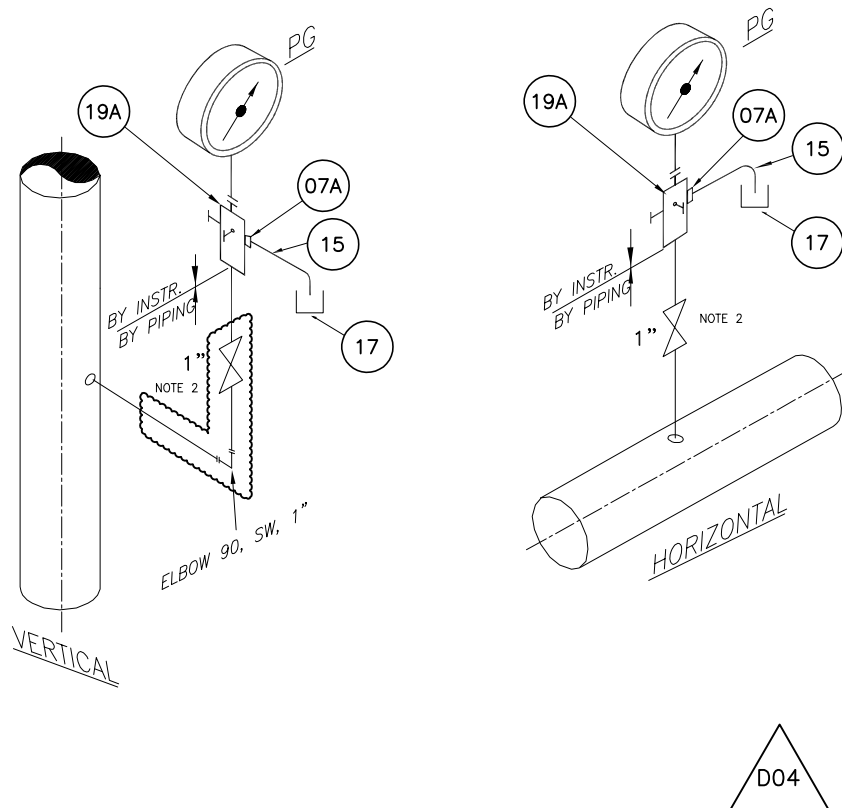
پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

شماره صفحه: 12 از 56



TAG NUMBERS

PG-2123A
PG-2123A
PG-2123B
PG-2124A
PG-2124C
PG-2124B
PG-2132A
PG-2132B
PG-2132C
PG-2133A
PG-2133B
PG-2133C
PG-2134A
PG-2134B
PG-2134C
PG-2201
PG-2211



NOTES:

- 1-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO GAUGE
- 2-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 3-IF USED A UNION BETWEEN THE PRESSURE GAUGE AND THE MANIFOLD, THE INSTRUMENT VENDOR SHALL BE SUPPLIED IT.

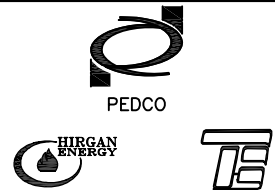
DESCRIPTION : PRESSURE GAUGE ON PIPE (GAS)-MATERIAL RATING: #3000

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	17	17	PIECES	#3000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	17	17	METER	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	17	17	PIECES	-
19A	3 WAY 2-VALVE MANIFOLD	2 x1/2"NPTF+ 1/4"	AISI 316L SS	1	17	17	PIECES	#3000 BY VENDOR

TABLE 3



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



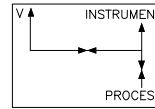
شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

شماره صفحه: 13 از 56

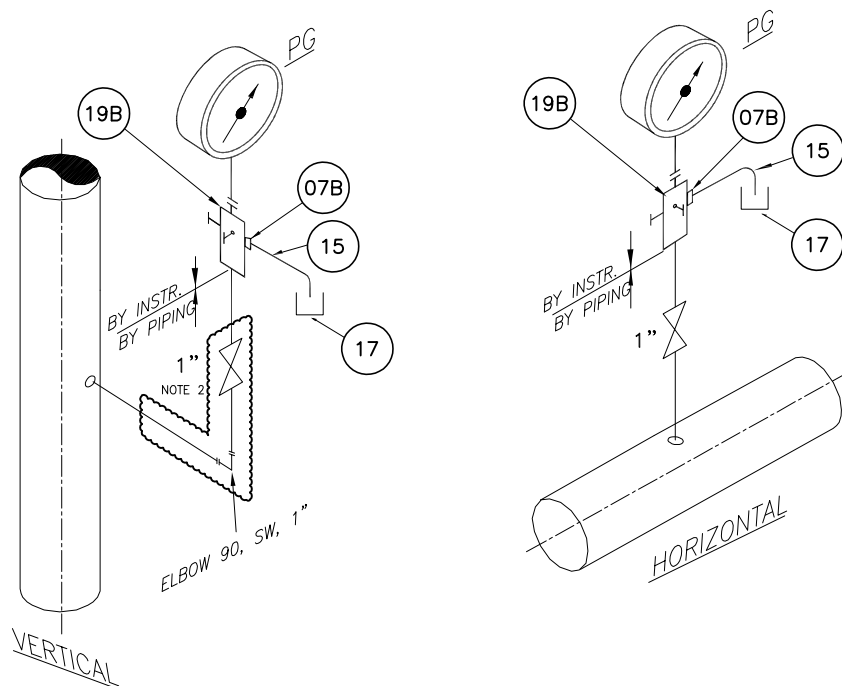


(DETAIL OF MANIFOLD ITEM 19)

TAG NUMBERS

PG-2101

PG-2102



NOTES:

1-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO GAUGE

2-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."

3-IF USED A UNION BETWEEN THE PRESSURE GAUGE AND THE MANIFOLD, THE INSTRUMENT VENDOR SHALL BE SUPPLIED IT.

DESCRIPTION : PRESSURE GAUGE ON PIPE (GAS)-MATERIAL RATING: #6000

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	2	2	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	2	2	METER	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	2	2	PIECES	-
19B	3 WAY 2-VALVE MANIFOLD	2 x1/2"NPTF+ 1/4"	AISI 316L SS	1	2	2	PIECES	#6000 BY VENDOR

TABLE 4



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



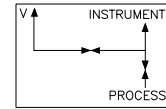
شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 14 از 56

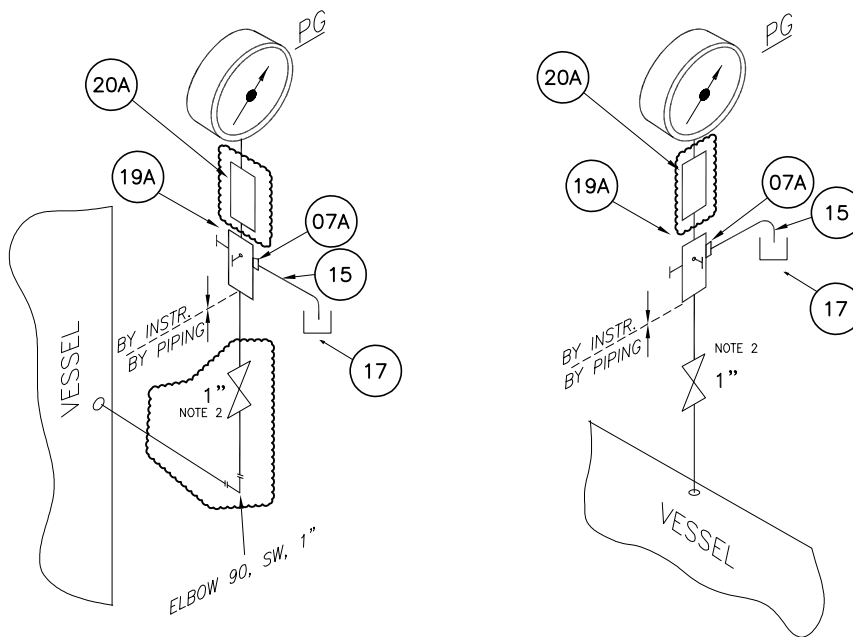
پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04



(DETAIL OF MANIFOLD ITEM 19)

TAG NUMBERS

PG-2121A
PG-2121B
PG-2121C



NOTES:

- 1-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO GAUGE
- 2-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 3-IF USED A UNION BETWEEN THE PRESSURE GAUGE AND THE MANIFOLD, THE INSTRUMENT VENDOR SHALL BE SUPPLIED IT.

DESCRIPTION : PRESSURE GAUGE ON VESSEL (GAS)-MATERIAL RATING: #3000 WITH OVER RANGE PROTECTION

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	3	3	PIECES	#3000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	3	3	METER	-
20A	OVER RANGE PROTECTION	1/2"NPTMx1/2"NPTF	AISI 316L SS	1	3	3	PIECES	#3000 BY VENDOR
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	3	3	PIECES	-
19A	3 WAY 2-VALVE MANIFOLD	2 x1/2"NPTF+ 1/4"	AISI 316L SS	1	3	3	PIECES	#3000 BY VENDOR

TABLE 5



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



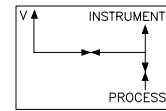
شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 15 از 56

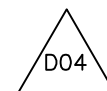
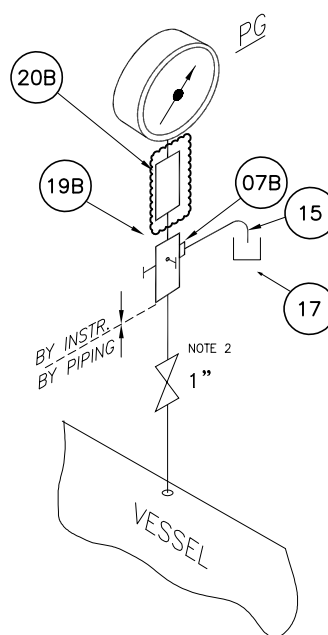
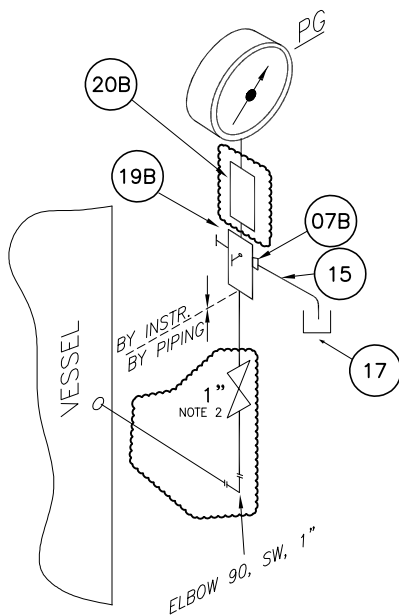
پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04



(DETAIL OF MANIFOLD ITEM 19)

TAG NUMBERS

PG-2251



NOTES:

- 1-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO GAUGE
- 2-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 3-IF USED A UNION BETWEEN THE PRESSURE GAUGE AND THE MANIFOLD, THE INSTRUMENT VENDOR SHALL BE SUPPLIED IT.

DESCRIPTION : PRESSURE GAUGE ON VESSEL (GAS)-MATERIAL RATING: #6000
WITH OVER RANGE PROTECTION

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	1	1	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	1	1	METER	-
20B	OVER RANGE PROTECTION	1/2"NPTMx1/2"NPTF	AISI 316L SS	1	1	1	PIECES	#6000 BY VENDOR
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	1	1	PIECES	-
19B	3 WAY 2-VALVE MANIFOLD	2 x1/2"NPTF+ 1/4"	AISI 316L SS	1	1	1	PIECES	#6000 BY VENDOR

TABLE 6



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



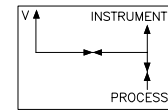
شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

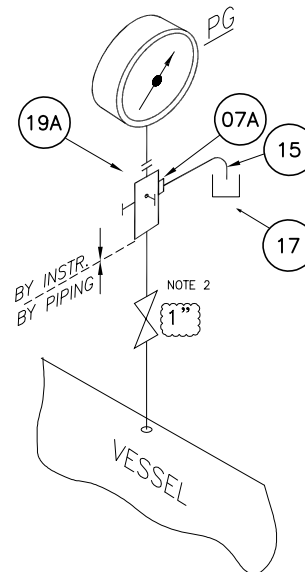
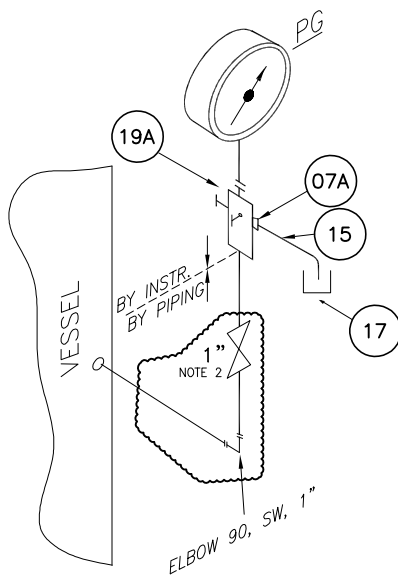
شماره صفحه: 16 از 56



(DETAIL OF MANIFOLD ITEM 19)

TAG NUMBERS

PG-2131A
PG-2131B
PG-2131C
PG-2141
PG-2142
PG-2202
PG-2212



NOTES:

- 1-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO GAUGE
- 2-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 3-IF USED A UNION BETWEEN THE PRESSURE GAUGE AND THE MANIFOLD, THE INSTRUMENT VENDOR SHALL BE SUPPLIED IT.

DESCRIPTION : PRESSURE GAUGE ON VESSEL (GAS)-MATERIAL RATING: #3000

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	7	7	PIECES	#3000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	7	7	METER	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	7	7	PIECES	-
19A	3 WAY 2-VALVE MANIFOLD	2 x1/2"NPTF+ 1/4"	AISI 316L SS	1	7	7	PIECES	#3000 BY VENDOR

TABLE 7



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



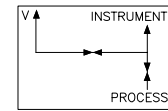
شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

شماره صفحه: 17 از 56



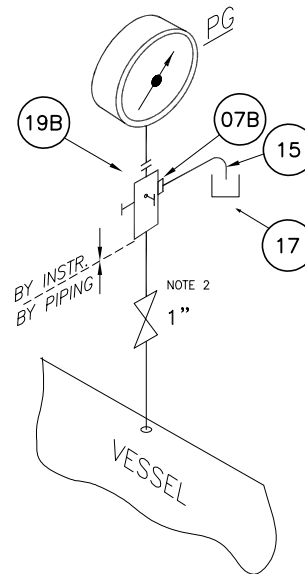
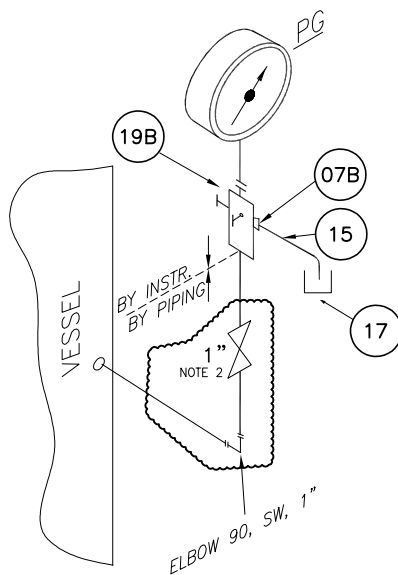
(DETAIL OF MANIFOLD ITEM 19)

TAG NUMBERS

PG-2111

PG-2114

PG-2273



NOTES:

1-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO GAUGE

2-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."

3-IF USED A UNION BETWEEN THE PRESSURE GAUGE AND THE MANIFOLD, THE INSTRUMENT VENDOR SHALL BE SUPPLIED IT.

DESCRIPTION : PRESSURE GAUGE ON VESSEL (GAS)-MATERIAL RATING: #6000

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	3	3	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	3	3	METER	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	3	3	PIECES	-
19B	3 WAY 2-VALVE MANIFOLD	2 x1/2"NPTF+ 1/4"	AISI 316L SS	1	3	3	PIECES	#6000 BY VENDOR

TABLE 8



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



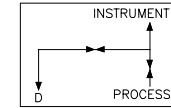
شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

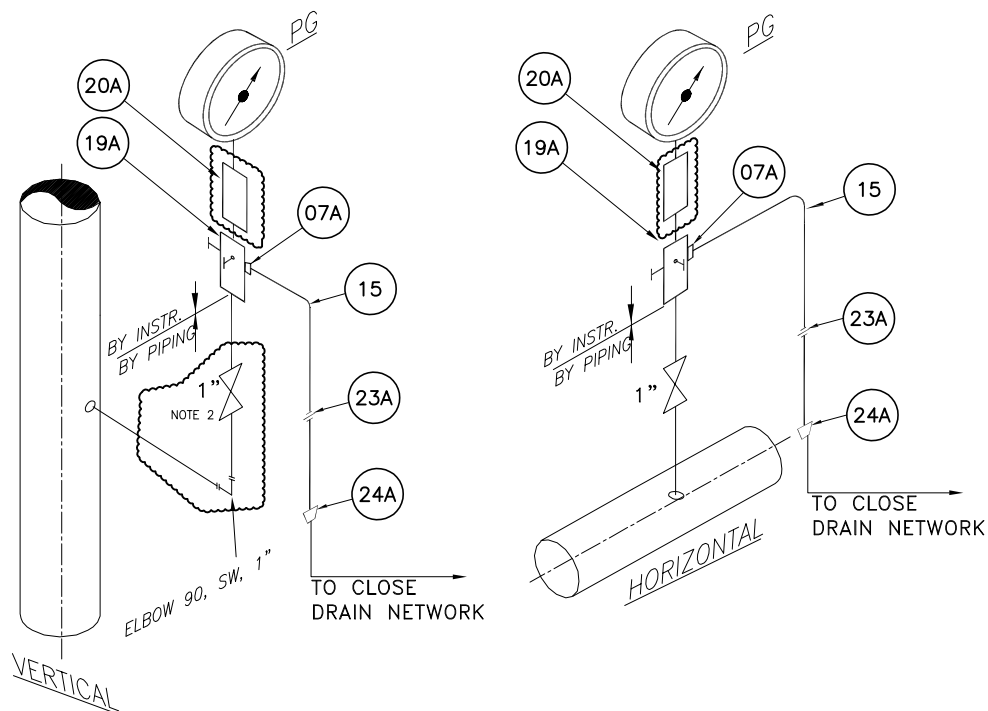
شماره صفحه: 18 از 56

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D04	0002	DG	IN	120	PEDCO	GCS	BK



(DETAIL OF MANIFOLD ITEM 19)

PG-2114A
PG-2114B
PG-2162
PG-2163A
PG-2163B
PG-2291
PG-2292
PG-2294



NOTES:

- 1-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO GAUGE
- 2-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 3-IF USED A UNION BETWEEN THE PRESSURE GAUGE AND THE MANIFOLD, THE INSTRUMENT VENDOR SHALL BE SUPPLIED IT.

DESCRIPTION : PRESSURE GAUGE ON PIPE (LIQUID)-MATERIAL RATING: #3000 WITH OVER RANGE PROTECTION

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	8	8	PIECES	#3000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	10	8	80	METER	-
19A	3 WAY 2-VALVE MANIFOLD	2 x1/2"NPTF+ 1/4"	AISI 316L SS	1	8	8	PIECES	#3000 BY VENDOR
23A	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	8	8	PIECES	#3000
24A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/4"O.D	AISI 316L SS	1	8	8	PIECES	#3000
20A	OVER RANGE PROTECTION	1/2"NPTMx1/2"NPTF	AISI 316L SS	1	8	8	PIECES	#3000 BY VENDOR

TABLE 9



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



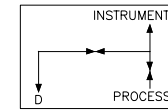
شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

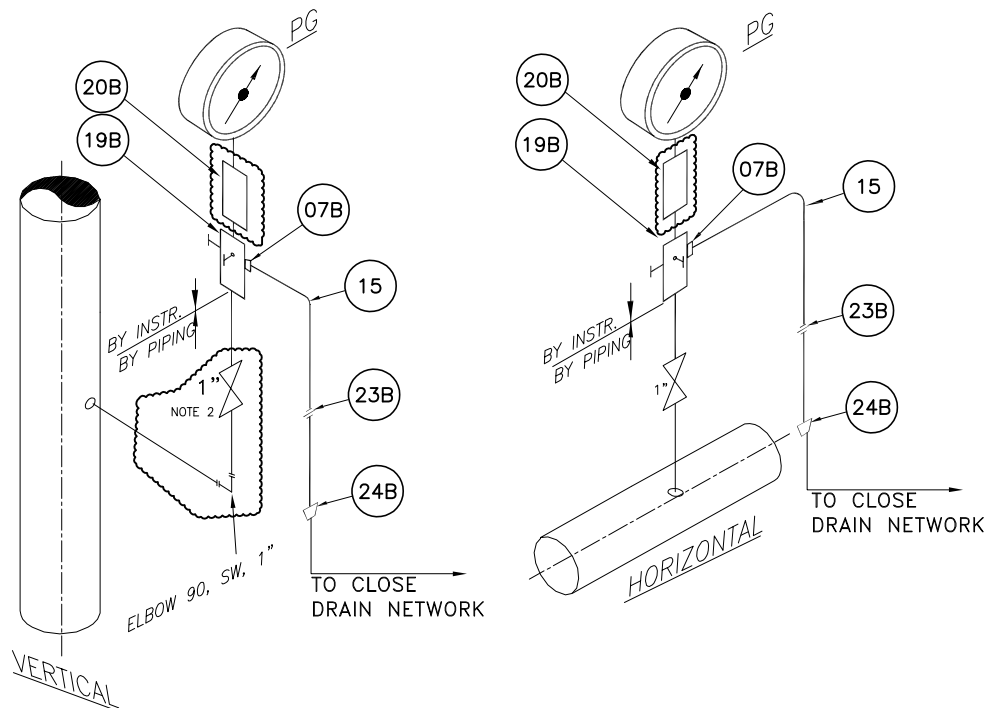
شماره صفحه: 19 از 56



(DETAIL OF MANIFOLD ITEM 19)

PG-2251A

PG-2251B



D04

NOTES:

1-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO GAUGE

2-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING, DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."

3-IF USED A UNION BETWEEN THE PRESSURE GAUGE AND THE MANIFOLD, THE INSTRUMENT VENDOR SHALL BE SUPPLIED IT.

DESCRIPTION : PRESSURE GAUGE ON PIPE (LIQUID)-MATERIAL RATING: #6000
WITH OVER RANGE PROTECTION

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	2	2	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	10	2	20	METER	-
19B	3 WAY 2-VALVE MANIFOLD	2 x1/2"NPTF+ 1/4"	AISI 316L SS	1	2	2	PIECES	#6000 BY VENDOR
23B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	2	2	PIECES	#6000
24B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/4"O.D	AISI 316L SS	1	2	2	PIECES	#6000
20B	OVER RANGE PROTECTION	1/2"NPTMx1/2"NPTF	AISI 316L SS	1	2	2	PIECES	#6000 BY VENDOR

TABLE 10



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



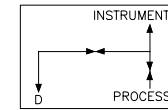
شماره پیمان:

053-073-9184

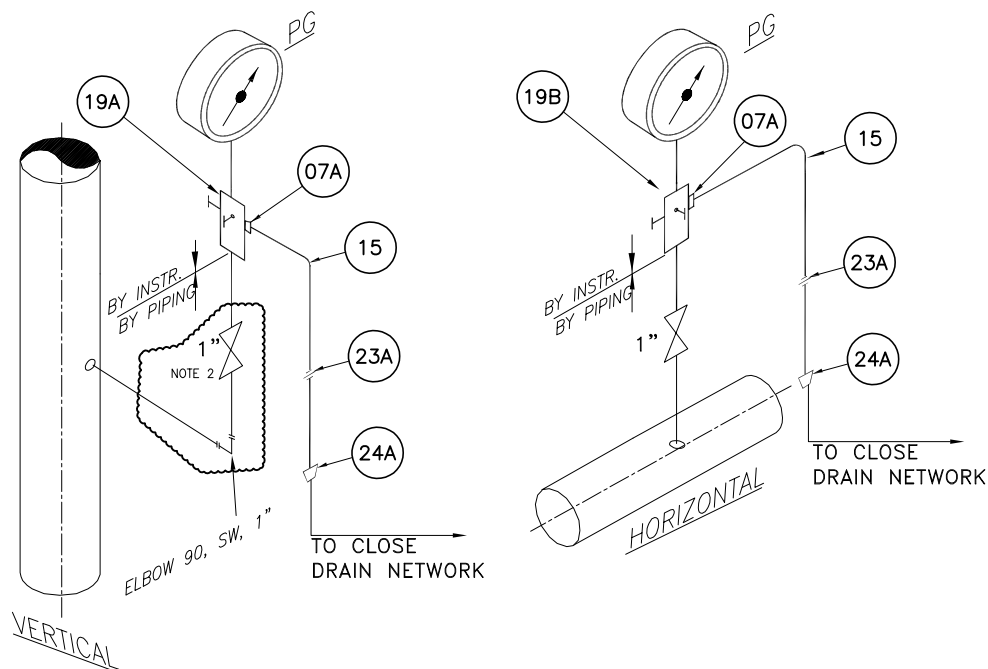
INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 20 از 56

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D04	0002	DG	IN	120	PEDCO	GCS	BK



(DETAIL OF MANIFOLD ITEM 19)



PG-2113A
PG-2113B
PG-2298
PG-2222A
PG-2222B
PG-2304
PG-2301
PG-2305
PG-2303A
PG-2303B
PG-2304A
PG-2304B
PG-2301A
PG-2301B
PG-2302A
PG-2302B

D04

NOTES:

- 1-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO GAUGE
- 2-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 3-IF USINED A UNION BETWEEN THE PRESSURE GAUGE AND THE MANIFOLD, THE INSTRUMENT VENDOR SHALL BE SUPPLIED IT.

DESCRIPTION : PRESSURE GAUGE ON PIPE (LIQUID)-MATERIAL RATING: #3000

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	16	16	PIECES	#3000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	10	16	160	METER	-
19A	3 WAY 2-VALVE MANIFOLD	2 x1/2"NPTF+ 1/4"	AISI 316L SS	1	16	16	PIECES	#3000 BY VENDOR
23A	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	16	16	PIECES	#3000
24A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/4"O.D	AISI 316L SS	1	16	16	PIECES	#3000

TABLE 11



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

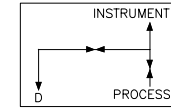
INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

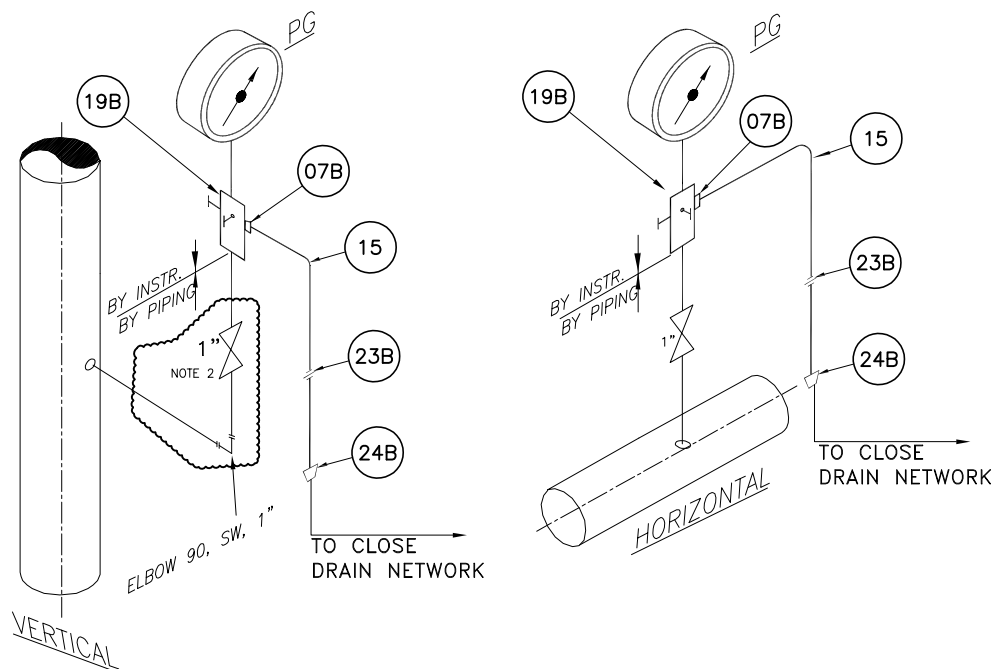
شماره صفحه: 21 از 56

PG-2232A

PG-2232B



(DETAIL OF MANIFOLD ITEM 19)



NOTES:

1-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO GAUGE

2-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."

3-IF USED A UNION BETWEEN THE PRESSURE GAUGE AND THE MANIFOLD, THE INSTRUMENT VENDOR SHALL BE SUPPLIED IT.

DESCRIPTION : PRESSURE GAUGE ON PIPE (LIQUID)-MATERIAL RATING: #6000

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	2	2	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	10	2	20	METER	-
19B	3 WAY 2-VALVE MANIFOLD	2 x1/2"NPTF+ 1/4"	AISI 316L SS	1	2	2	PIECES	#6000 BY VENDOR
23B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	2	2	PIECES	#6000
24B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/4"O.D	AISI 316L SS	1	2	2	PIECES	#6000

TABLE 12



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



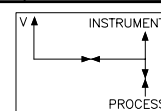
شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 22 از 56

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04



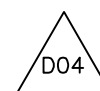
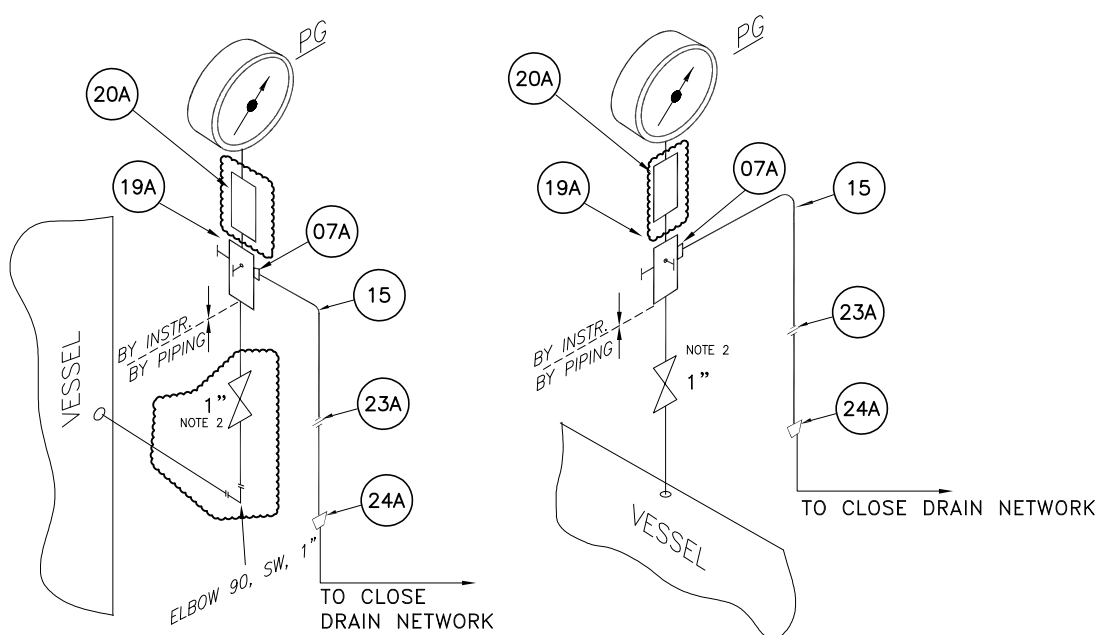
(DETAIL OF MANIFOLD ITEM 19)

TAG NUMBERS

PG-2282

PG-2283

PG-2293



NOTES:

1-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO GAUGE

2-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."

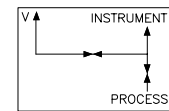
3-IF USED A UNION BETWEEN THE PRESSURE GAUGE AND THE MANIFOLD, THE INSTRUMENT VENDOR SHALL BE SUPPLIED IT.

DESCRIPTION : PRESSURE GAUGE ON PIPE (LIQUID)-MATERIAL RATING: #3000 WITH OVER RANGE PROTECTION

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	3	3	PIECES	#3000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	10	3	30	METER	-
19A	3 WAY 2-VALVE MANIFOLD	2 x1/2"NPTF+ 1/4"	AISI 316L SS	1	3	3	PIECES	#3000 BY VENDOR
23A	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	3	3	PIECES	#3000
24A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/4"O.D	AISI 316L SS	1	3	3	PIECES	#3000
20A	OVER RANGE PROTECTION	1/2"NPTMx1/2"NPTF	AISI 316L SS	1	3	3	PIECES	#3000 BY VENDOR

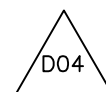
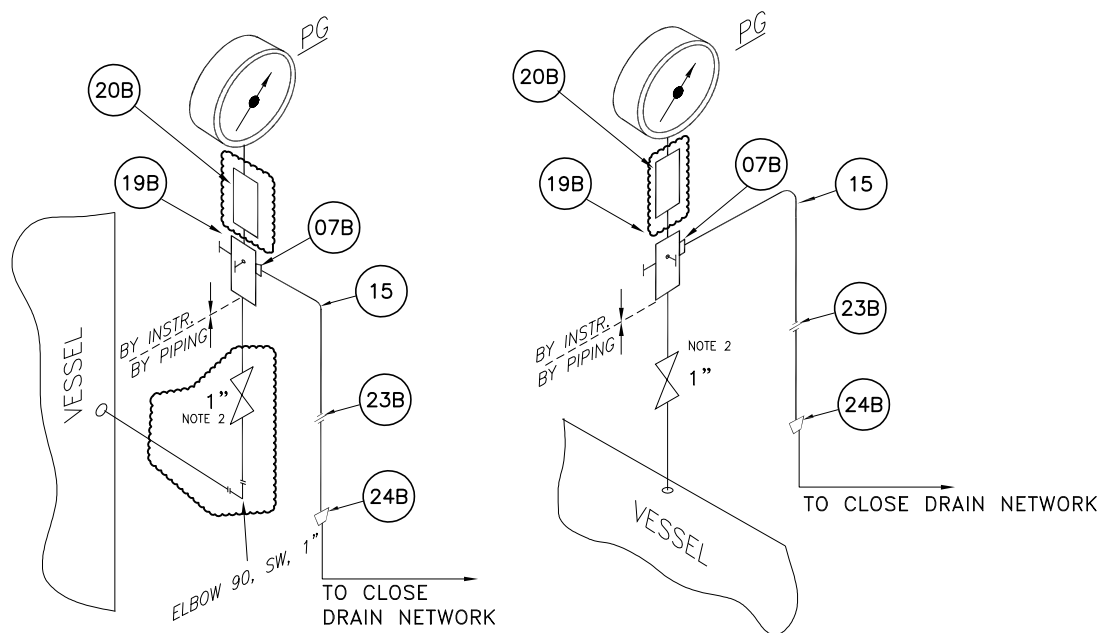
TABLE 13

 NISOC	پروژه نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک	 PEDCO  HURGAN ENERGY 																								
شماره پیمان: 053-073-9184	<table><tr><th colspan="8">INSTRUMENT HOOK-UP DIAGRAM</th></tr><tr><th>نسخه</th><th>سریال</th><th>نوع مدرک</th><th>رشته</th><th>تهیلات</th><th>صادرکننده</th><th>بسته کاری</th><th>پروژه</th></tr><tr><td>D04</td><td>0002</td><td>DG</td><td>IN</td><td>120</td><td>PEDCO</td><td>GCS</td><td>BK</td></tr></table>	INSTRUMENT HOOK-UP DIAGRAM								نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه	D04	0002	DG	IN	120	PEDCO	GCS	BK	شماره صفحه: 23 از 56
INSTRUMENT HOOK-UP DIAGRAM																										
نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه																			
D04	0002	DG	IN	120	PEDCO	GCS	BK																			



(DETAIL OF MANIFOLD ITEM 19)

TAG NUMBERS
PG-2221



NOTES:

- 1-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO GAUGE
- 2-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 3-IF USINED A UNION BETWEEN THE PRESSURE GAUGE AND THE MANIFOLD, THE INSTRUMENT VENDOR SHALL BE SUPPLIED IT.

DESCRIPTION : PRESSURE GAUGE ON PIPE (LIQUID)-MATERIAL RATING: #6000 WITH OVER RANGE PROTECTION

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	1	1	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	10	1	10	METER	-
19B	3 WAY 2-VALVE MANIFOLD	2 x1/2"NPTF+ 1/4"	AISI 316L SS	1	1	1	PIECES	#6000 BY VENDOR
23B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	1	1	PIECES	#6000
24B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/4"O.D	AISI 316L SS	1	1	1	PIECES	#6000
20B	OVER RANGE PROTECTION	1/2"NPTMx1/2"NPTF	AISI 316L SS	1	1	1	PIECES	#6000 BY VENDOR

TABLE 14



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



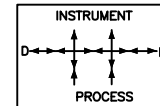
شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 24 از 56

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

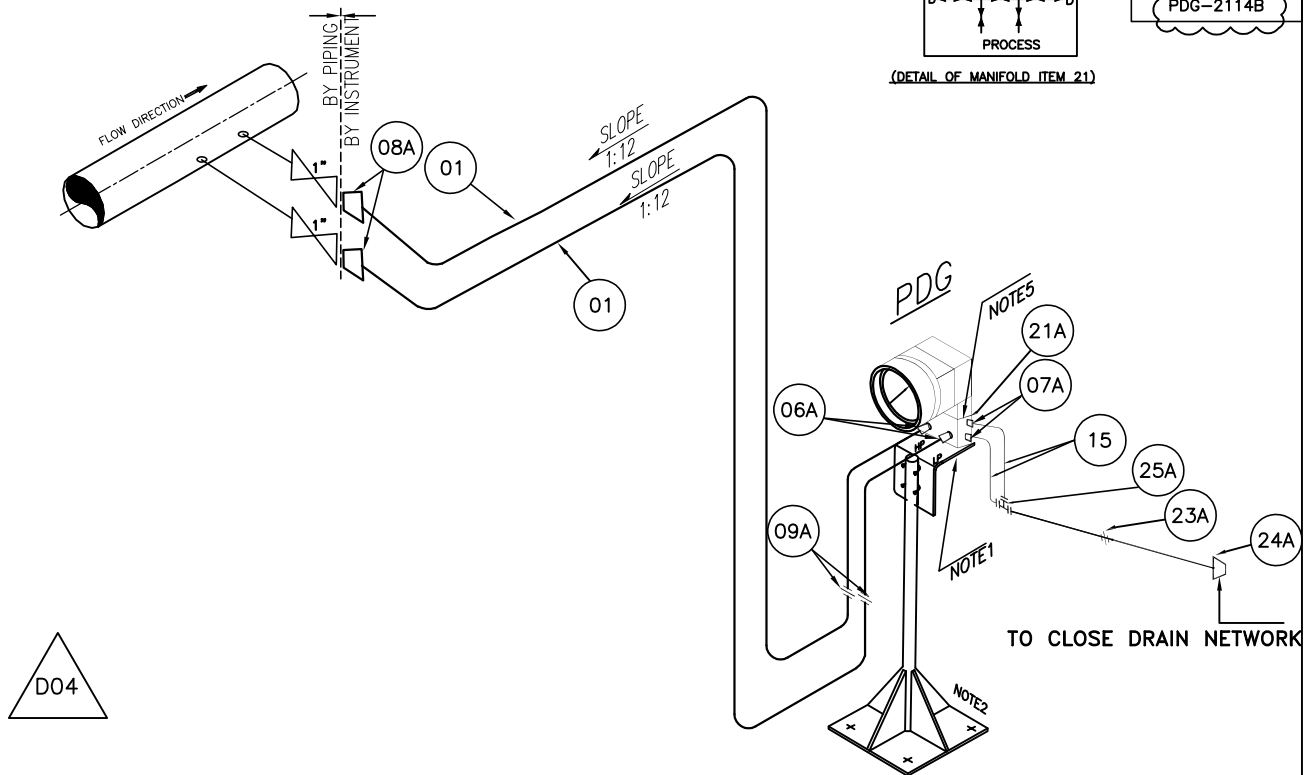


(DETAIL OF MANIFOLD ITEM 21)

TAG NUMBERS

PDG-2114A

PDG-2114B



D04

NOTES:

- 1-(5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 5-EACH (5) VALVES MANIFOLD IS DEFINED WITH TWO 1/4"NPTF DRAIN CONNECTION .

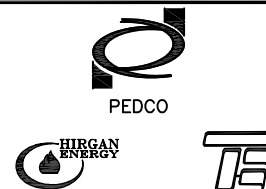
DESCRIPTION : PRESSURE DIFFERENTIAL GAUGE ON PIPE (LIQUID SERVICE) - MATERIAL RATING: #3000

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
01	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	20	2	40	METER	-
06A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	2	2	4	PIECES	#3000
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	2	2	4	PIECES	#3000
08A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/2"O.D	AISI 316L SS	2	2	4	PIECES	#3000
09A	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	2	2	4	PIECES	#3000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	2	2	4	METER	-
21A	5- WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	1	2	2	PIECES	#3000 BY VENDOR
23A	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	2	2	PIECES	#3000
24A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/4"O.D	AISI 316L SS	1	2	2	PIECES	#3000
25A	UNION TUBE TEE	1/4"	AISI 316L SS	1	2	2	PIECES	#3000

TABLE 15



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

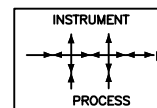
INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 25 از 56

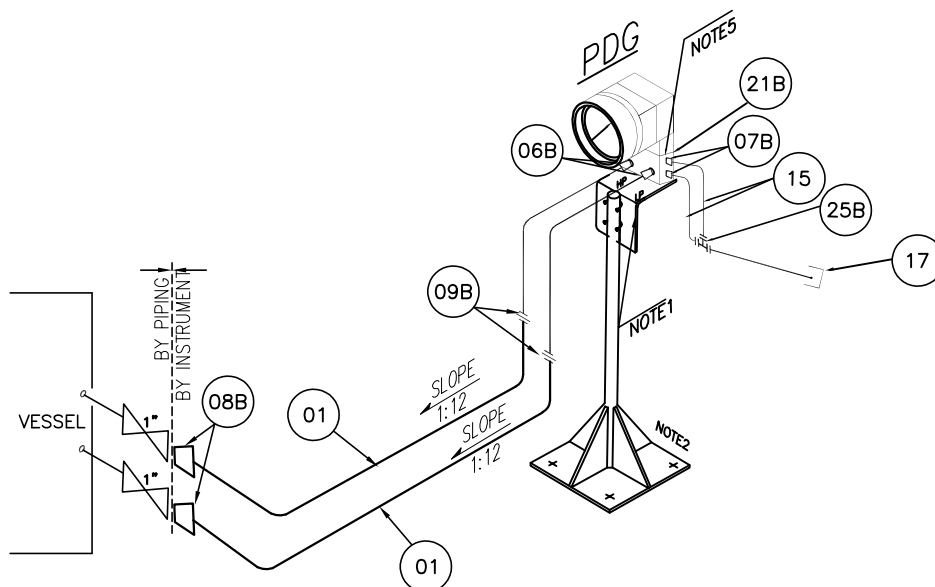
پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

TAG NUMBERS

PDG-2271



(DETAIL OF MANIFOLD ITEM 21)



NOTES:

- 1-(5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 5-EACH (5) VALVES MANIFOLD IS DEFINED WITH TWO 1/4"NPTF DRAIN CONNECTION .

D04

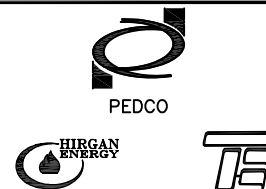
DESCRIPTION : PRESSURE DIFFERENTIAL GAUGE ON VESSEL (GAS)

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
01	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	20	1	20	METER	-
06B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	2	1	4	PIECES	#6000
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	2	1	2	PIECES	#6000
08B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/2"O.D	AISI 316L SS	2	1	2	PIECES	#6000
09B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	2	1	2	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	5	1	1	METER	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	1	1	PIECES	-
21B	5- WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	1	1	1	PIECES	#6000 BY VENDOR
25B	UNION TUBE TEE	1/4"	AISI 316L SS	1	1	1	PIECES	#6000

TABLE 16



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



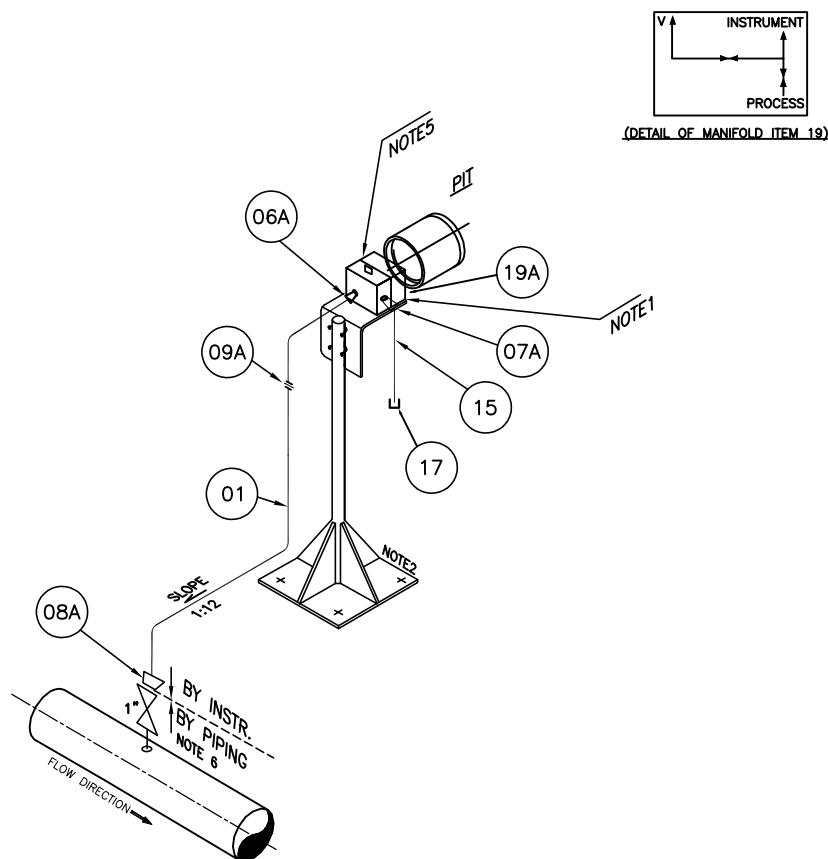
شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 26 از 56

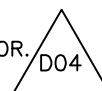
پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04



PIT-2121A
PIT-2121B
PIT-2121C
PIT-2122A
PIT-2125A
PIT-2122B
PIT-2125B
PIT-2122C
PIT-2125C
PIT-2131A
PIT-2134A
PIT-2131B
PIT-2134B
PIT-2131C
PIT-2134C
PIT-2135A
PIT-2135B
PIT-2135C
PIT-2151
PIT-2201
PIT-2202
PIT-2203A
PIT-2203B
PIT-2201A
PIT-2201B
PIT-2201C
PIT-2213
PIT-2214
PIT-2111

NOTES:

- 1-VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY TRANSMITTER VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 5-EACH (3) VALVES MANIFOLD IS DEFINED WITH ONE 1/4"NPTF DRAIN CONNECTION .
- 6-PROCESS CONNECTION TO BE FROM TOP IN 12'O CLOCK.
- 7-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO TRANSMITTER.



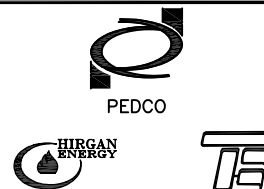
DESCRIPTION : PRESSURE TRANSMITTER ON PIPE (GAS)-MATERIAL RATING #3000

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
01	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	10	29	290	METER	-
06A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	1	29	29	PIECES	#3000
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	29	29	PIECES	#3000
08A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/2"O.D	AISI 316L SS	1	29	29	PIECES	#3000
09A	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	1	29	29	PIECES	#3000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	29	29	METER	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	29	29	PIECES	-
19A	3 - WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	1	29	29	PIECES	#3000 BY VENDOR

TABLE 17



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



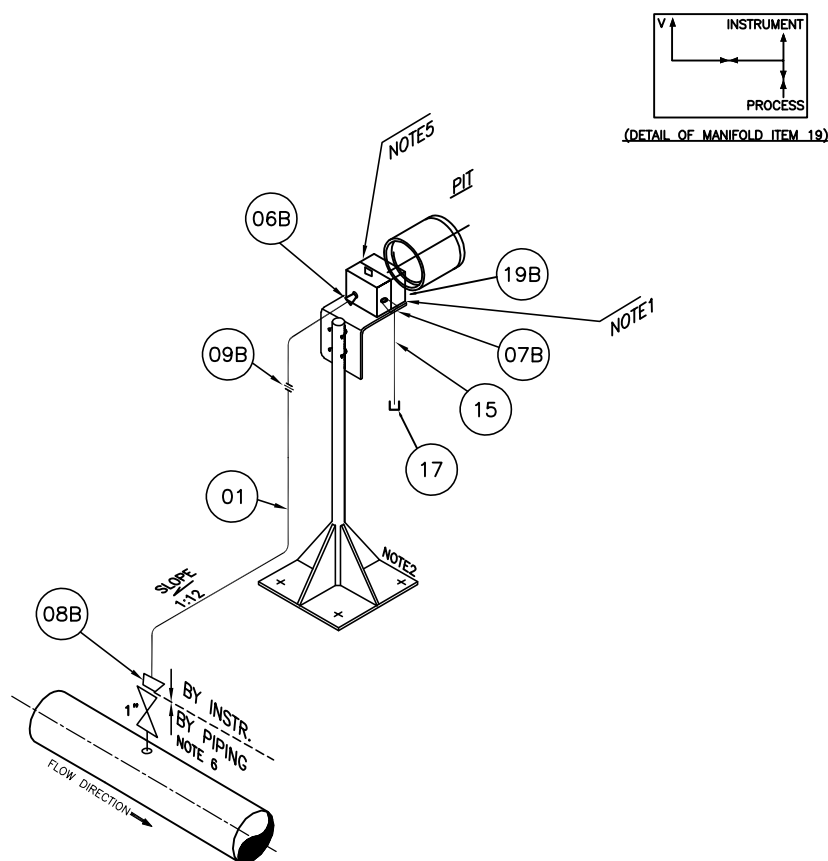
شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 27 از 56

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04



PIT-2102
PIT-2104
PIT-2111
PIT-2116
PIT-2222A
PIT-2222B
PIT-2252
PIT-2271
PIT-2272

D04

NOTES:

- 1-VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY TRANSMITTER VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 5-EACH (3) VALVES MANIFOLD IS DEFINED WITH ONE 1/4"NPTF DRAIN CONNECTION .
- 6-PROCESS CONNECTION TO BE FROM TOP IN 12'O CLOCK.
- 7-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO TRANSMITTER.

DESCRIPTION : PRESSURE TRANSMITTER ON PIPE (GAS)-MATERIAL RATING: #6000

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
01	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	10	9	90	METER	-
06B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	1	9	9	PIECES	#6000
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	9	9	PIECES	#6000
08B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/2"O.D	AISI 316L SS	1	9	9	PIECES	#6000
09B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	1	9	9	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	9	9	METER	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	9	9	PIECES	-
19B	3 - WAY VALVE MANIFOLD	2 x 1/2" + 1/4"	AISI 316L SS	1	9	9	PIECES	#6000 BY VENDOR



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



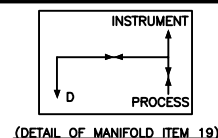
شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

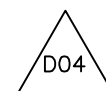
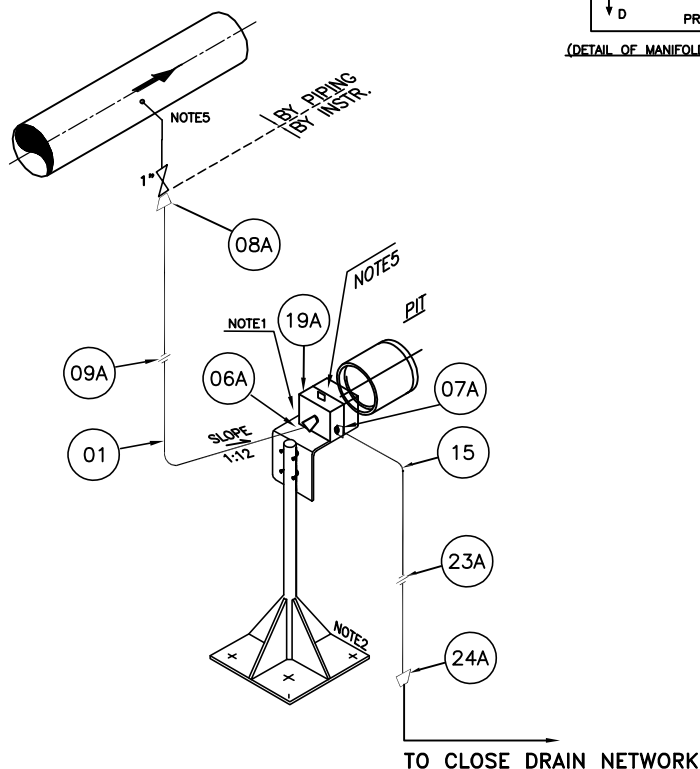
شماره صفحه: 28 از 56

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04



TAG NUMBERS

PIT-2114A
PIT-2116A
PIT-2114B
PIT-2116B



NOTES:

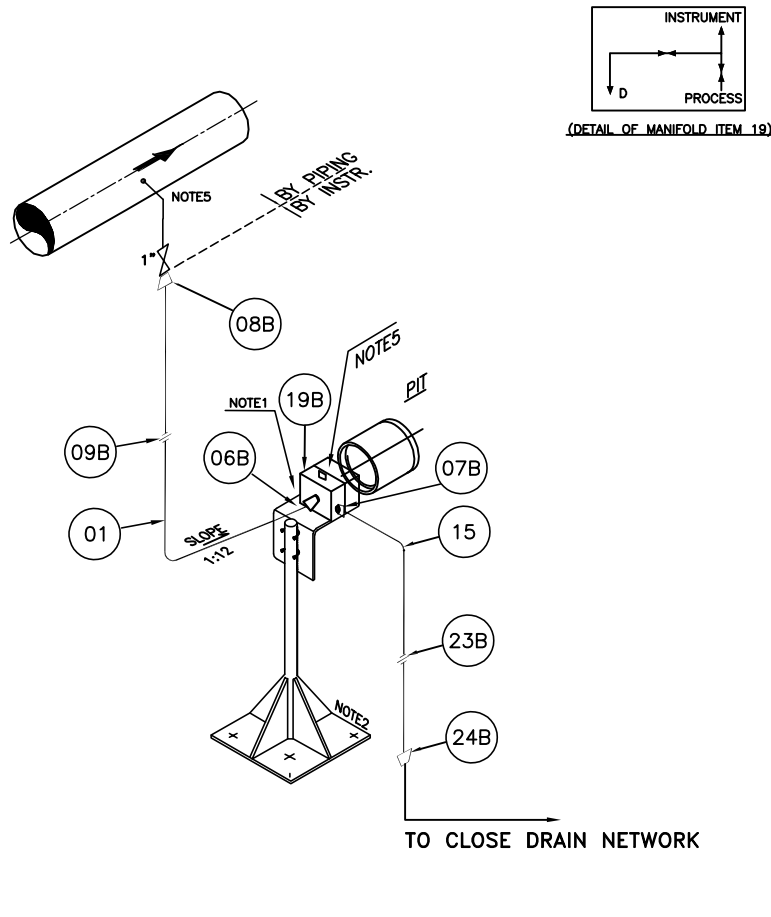
- 1-VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY TRANSMITTER VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 5-EACH (3) VALVES MANIFOLD IS DEFINED WITH ONE 1/4"NPTF DRAIN CONNECTION .
- 6-PROCESS CONNECTION TO BE FROM TOP IN 12'O CLOCK.
- 7-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO TRANSMITTER.

DESCRIPTION : PRESSURE TRANSMITTER ON PIPE (LIQUID)-MATERIAL RATING #3000

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
01	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	10	4	40	METER	-
06A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	1	4	4	PIECES	#3000
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	4	4	PIECES	#3000
08A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/2"O.D	AISI 316L SS	1	4	4	PIECES	#3000
09A	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	1	4	4	PIECES	#3000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	4	4	METER	-
19A	3 WAY 2-VALVE MANIFOLD	2 x1/2"+ 1/4"	AISI 316L SS	1	4	4	PIECES	#3000 BY VENDOR
23A	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	4	4	PIECES	#3000
24A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/4"O.D	AISI 316L SS	1	4	4	PIECES	#3000

TABLE 19

 NISOC	پروژه نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								 PEDCO  HURGAN ENERGY 
شماره پیمان: 053-073-9184	INSTRUMENT HOOK-UP DIAGRAM								شماره صفحه: 29 از 56
	پروژه	بسته کاری	صادرکننده	تهیهات	رشته	نوع مدرک	سریال	نسخه	
	BK	GCS	PEDCO	120	IN	DG	0002	D04	



TAG NUMBERS
PIT-2114
PIT-2115
PIT-2251A
PIT-2251B

NOTES:

- 1-VLVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY TRANSMITTER VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 5-EACH (3) VALVES MANIFOLD IS DEFINED WITH ONE 1/4"NPTF DRAIN CONNECTION .
- 6-PROCESS CONNECTION TO BE FROM TOP IN 12'O CLOCK.
- 7-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO TRANSMITTER.

DESCRIPTION : PRESSURE TRANSMITTER ON PIPE (LIQUID)-MATERIAL RATING #6000

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
01	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	10	4	20	METER	-
06B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	1	4	4	PIECES	#6000
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	4	4	PIECES	#6000
08B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/2"O.D	AISI 316L SS	1	4	4	PIECES	#6000
09B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	1	4	4	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	4	4	METER	-
19B	3 WAY 2-VALVE MANIFOLD	2 x1/2"+ 1/4"	AISI 316L SS	1	4	4	PIECES	#6000 BY VENDOR
23B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	4	4	PIECES	#6000
24B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/4"O.D	AISI 316L SS	1	4	4	PIECES	#6000

TABLE 20



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



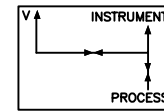
شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

شماره صفحه: 30 از 56

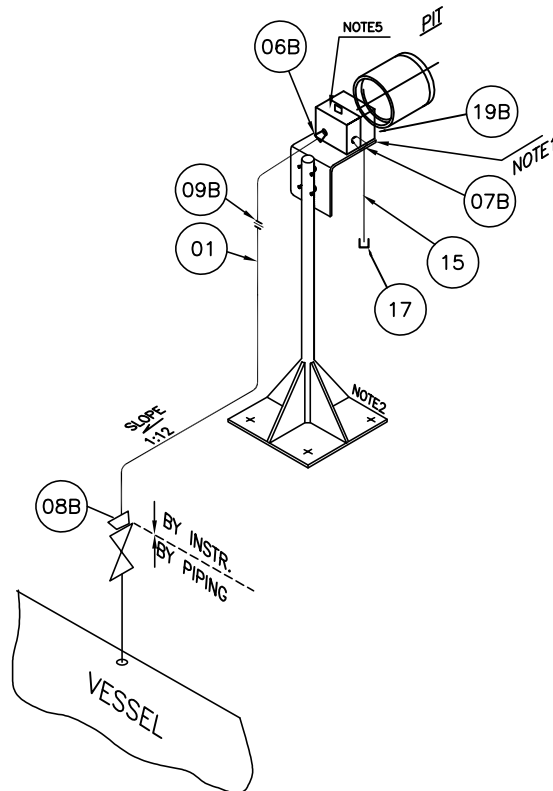


(DETAIL OF MANIFOLD ITEM 19)

TAG NUMBERS

PIT-2117

PIT-2112



NOTES:

- 1-VLVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY TRANSMITTER VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 5-EACH (3) VALVES MANIFOLD IS DEFINED WITH ONE 1/4"NPTF DRAIN CONNECTION .
- 6-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO TRANSMITTER.

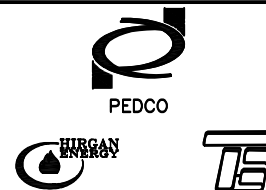
DESCRIPTION : PRESSURE TRANSMITTER ON VESSEL (GAS)

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
01	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	10	2	20	METER	-
06B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	1	2	2	PIECES	#6000
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	2	2	PIECES	#6000
08B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/2"O.D	AISI 316L SS	1	2	2	PIECES	#6000
09B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	1	2	2	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	2	2	METER	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	2	2	PIECES	-
19B	3 WAY 2-VALVE MANIFOLD	2 x 1/2" + 1/4"	AISI 316L SS	1	2	2	PIECES	#6000 BY VENDOR

TABLE 21



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



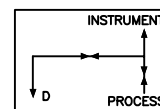
شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D04	0002	DG	IN	120	PEDCO	GCS	BK

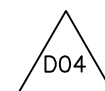
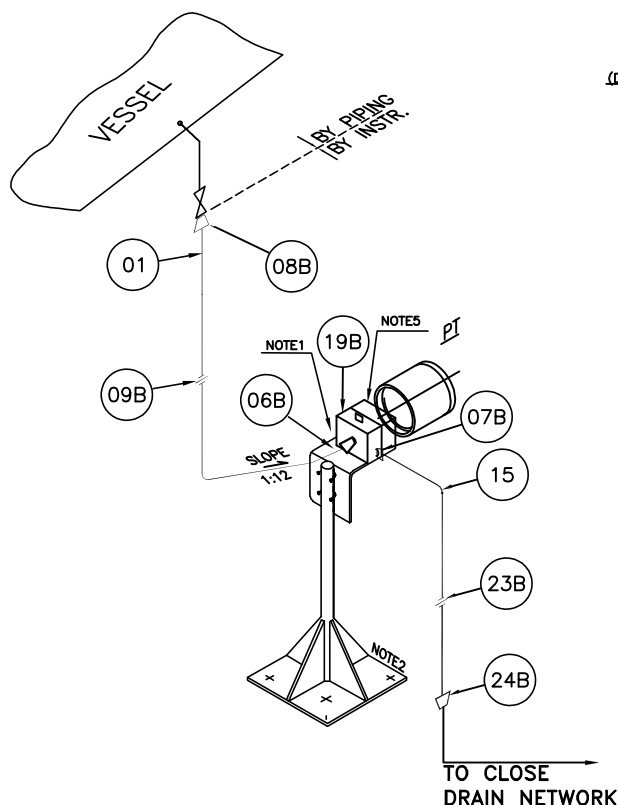
شماره صفحه: 31 از 56



(DETAIL OF MANIFOLD ITEM 19)

TAG NUMBERS

PIT-2161
PIT-2191



NOTES:

- 1-VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY TRANSMITTER VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 5-EACH (3) VALVES MANIFOLD IS DEFINED WITH ONE 1/4"NPTF DRAIN CONNECTION .
- 6-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO TRANSMITTER.

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
01	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	10	2	20	METER	
06B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	1	2	2	PIECES	#6000
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	2	2	PIECES	#6000
08B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	1	2	2	PIECES	#6000
09B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	1	2	2	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	2	2	METER	-
19B	3 WAY 2-VALVE MANIFOLD	2 x1/2" + 1/4"	AISI 316L SS	1	2	2	PIECES	#6000 BY VENDOR
23B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	2	2	PIECES	#6000
24B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/4"O.D	AISI 316L SS	1	2	2	PIECES	#6000

TABLE 22



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

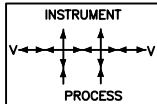
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

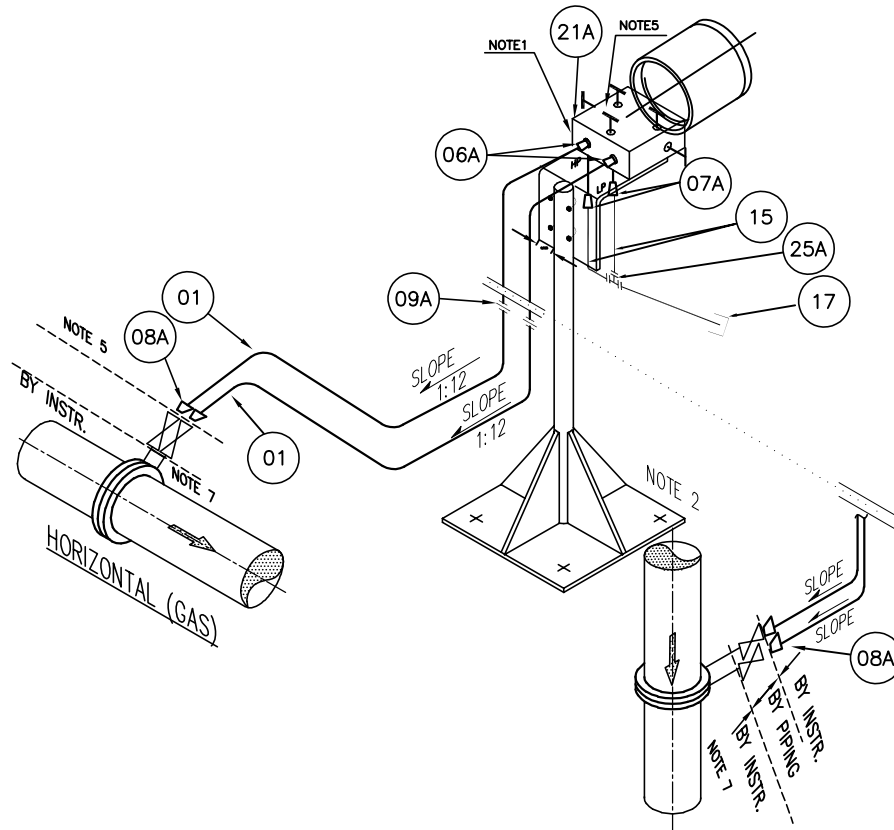
شماره صفحه: 32 از 56

TAG NUMBERS

FIT/FE-2211



(DETAIL OF MANIFOLD ITEM 21)



NOTES:

- 1-(5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 5-EACH (5) VALVES MANIFOLD IS DEFINED WITH ONE 1/4"NPTF DRAIN CONNECTION .
- 6-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO TRANSMITTER.
- 7-PROCESS CONNECTION TO BE FROM SIDE, DUE TO ANY SPACE LIMITATION, ORIENTATION CAN BE DOWNWARDS UP TO 45 DEGREES.

D04

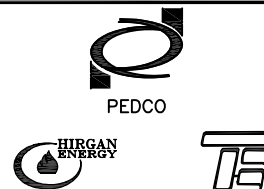
DESCRIPTION : DP FLOW TRANSMITTER ON PIPE (GAS)-MATERIAL RATING: #3000

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
01	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	20	1	20	METER	-
06A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	2	1	2	PIECES	#3000
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	2	1	2	PIECES	#3000
08A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/2"O.D	AISI 316L SS	2	1	2	PIECES	#3000
09A	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	2	1	2	PIECES	#3000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	2	1	1	METER	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	1	2	PIECES	-
21A	5 - WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	1	1	1	PIECES	#3000 BY VENDOR
25A	UNION TUBE TEE	1/4"	AISI 316L SS	1	1	1	PIECES	#3000

TABLE 23



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

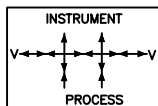
INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

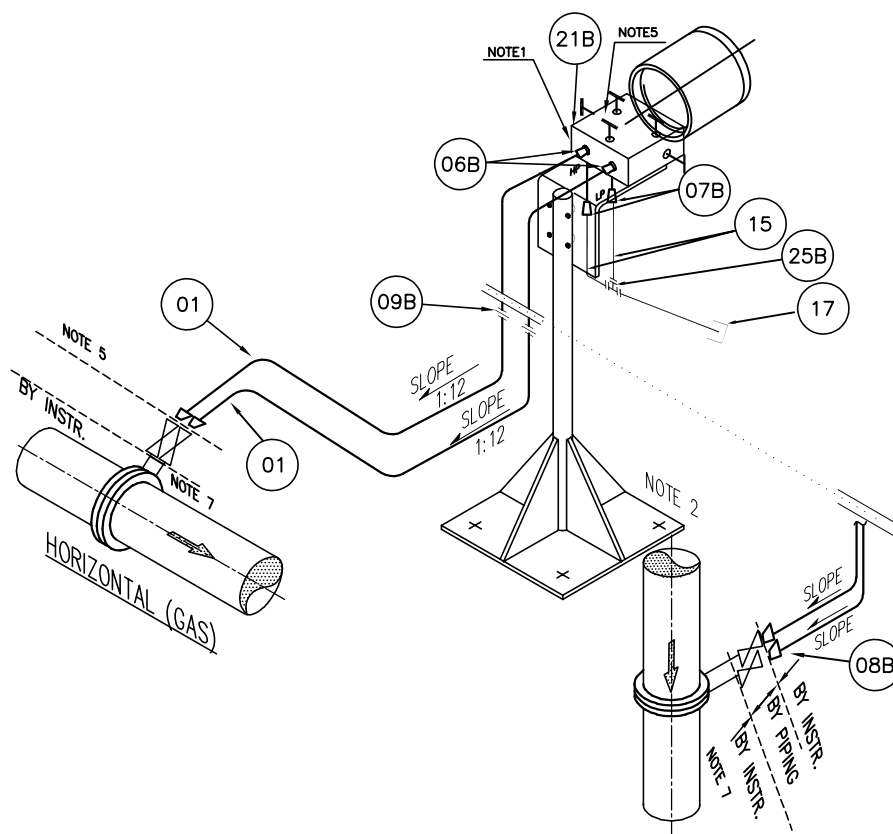
شماره صفحه: 33 از 56

TAG NUMBERS

FIT/FE-2101
FIT/FE-2102
FIT/FE-2271



(DETAIL OF MANIFOLD ITEM 21)



NOTES:

- 1-(5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 5-EACH (5) VALVES MANIFOLD IS DEFINED WITH ONE 1/4"NPTF DRAIN CONNECTION .
- 6-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO TRANSMITTER.
- 7-PROCESS CONNECTION TO BE FROM SIDE, DUE TO ANY SPACE LIMITATION, ORIENTATION CAN BE DOWNWARDS UP TO 45 DEGREES.

D04

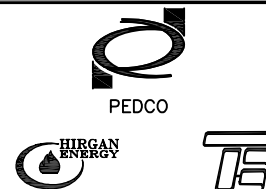
DESCRIPTION : DP FLOW TRANSMITTER ON PIPE (GAS)-MATERIAL RATING: #6000

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
01	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	20	3	60	METER	
06B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	2	3	6	PIECES	#6000
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	2	3	6	PIECES	#6000
08B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/2"O.D	AISI 316L SS	2	3	6	PIECES	#6000
09B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	2	3	6	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	2	3	6	METER	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	3	3	PIECES	-
21B	5 - WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	1	3	3	PIECES	#6000 BY VENDOR
25B	UNION TUBE TEE	1/4"	AISI 316L SS	1	3	3	PIECES	#6000

TABLE 24



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

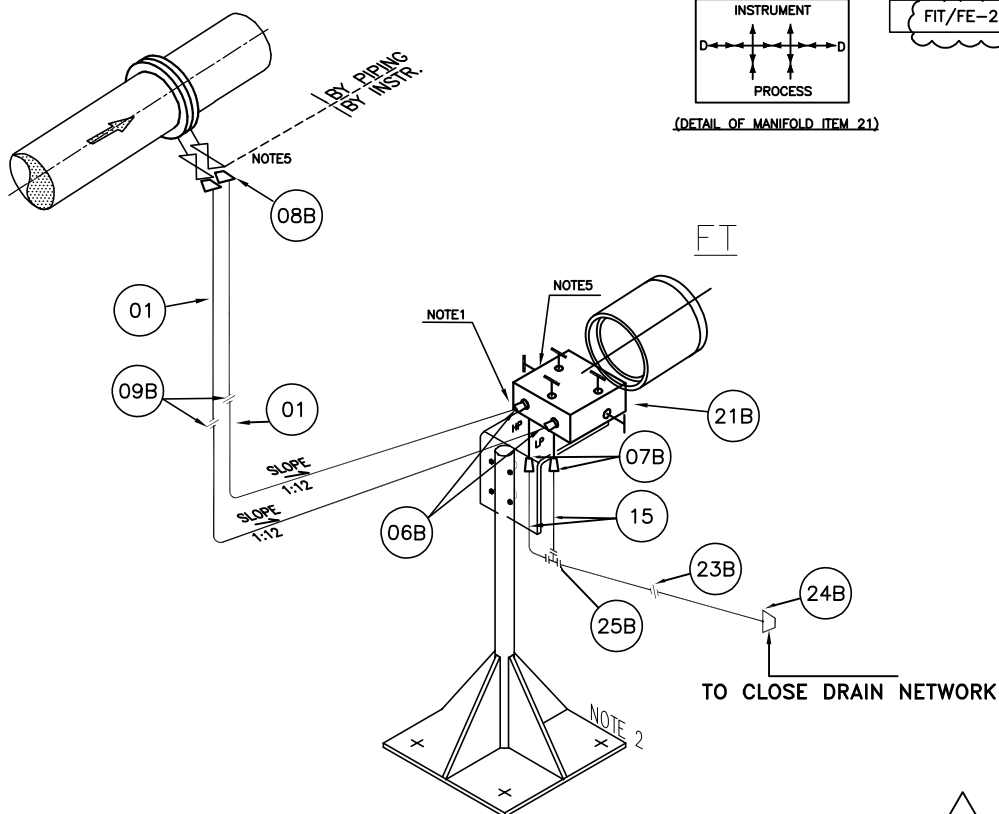
INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

شماره صفحه: 34 از 56

TAG NUMBERS

FIT/FE-2111



NOTES:

- 1-(5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 5-EACH (5) VALVES MANIFOLD IS DEFINED WITH ONE 1/4"NPTF DRAIN CONNECTION .
- 6-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO TRANSMITTER.
- 7-PROCESS CONNECTION TO BE FROM SIDE, DUE TO ANY SPACE LIMITATION, ORIENTATION CAN BE DOWNWARDS UP TO 45 DEGREES.

D04

DESCRIPTION : DP FLOW TRANSMITTER ON PIPE (LIQUID)- MATERIAL RATING: #6000

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
01	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	20	1	20	METER	-
06B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	2	1	2	PIECES	#6000
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	2	1	2	PIECES	#6000
08B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/2"O.D	AISI 316L SS	2	1	2	PIECES	#6000
09B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	2	1	2	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	2	1	1	METER	-
21B	5 - WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	1	1	1	PIECES	#6000 BY VENDOR
23B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	1	1	PIECES	#6000
24B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/4"O.D	AISI 316L SS	1	1	1	PIECES	#6000
25B	UNION TUBE TEE	1/4"	AISI 316L SS	1	1	1	PIECES	#6000

TABLE 25



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

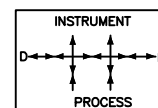
INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 35 از 56

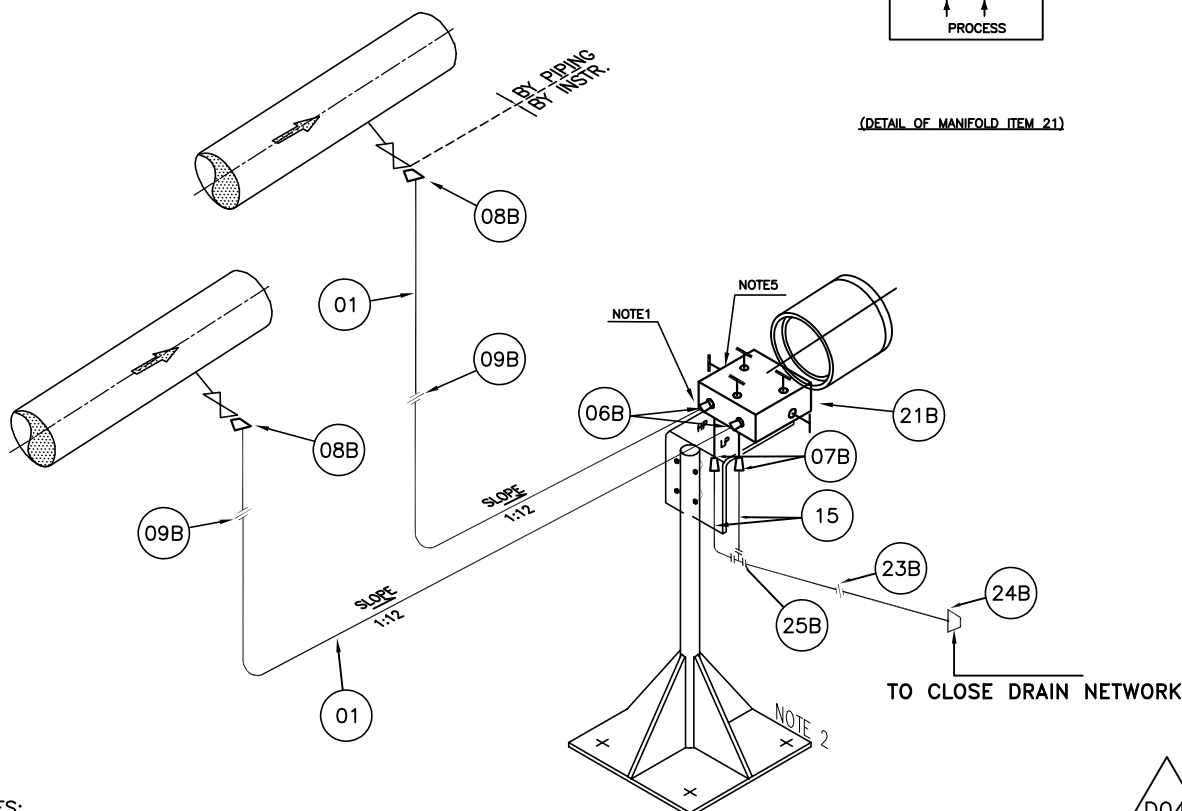
پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

TAG NUMBERS

PDIT-2111

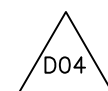


(DETAIL OF MANIFOLD ITEM 21)



NOTES:

- 1-(5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 5-EACH (5) VALVES MANIFOLD IS DEFINED WITH ONE 1/4"NPTF DRAIN CONNECTION .
- 6-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO TRANSMITTER.
- 7-PROCESS CONNECTION TO BE FROM SIDE, DUE TO ANY SPACE LIMITATION, ORIENTATION CAN BE DOWNWARDS UP TO 45 DEGREES.



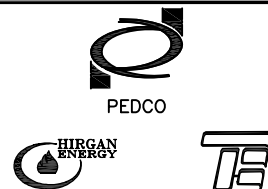
DESCRIPTION : DIFFERENTIAL PRESSURE TRANSMITTER ON PIPE (LIQUID)-
MATERIAL RATING: #6000

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
01	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	20	1	20	METER	
06B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	2	1	2	PIECES	#6000
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	2	1	2	PIECES	#6000
08B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/2"O.D	AISI 316L SS	2	1	2	PIECES	#6000
09B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	2	1	2	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	5	1	5	METER	-
21B	5 - WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	1	1	1	PIECES	#6000 BY VENDOR
23B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	1	1	PIECES	#6000
24B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/4"O.D	AISI 316L SS	1	1	1	PIECES	#6000
25B	UNION TUBE TEE	1/4"	AISI 316L SS	1	1	1	PIECES	#6000

TABLE 26



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

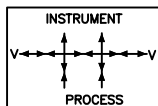
INSTRUMENT HOOK-UP DIAGRAM

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D04	0002	DG	IN	120	PEDCO	GCS	BK

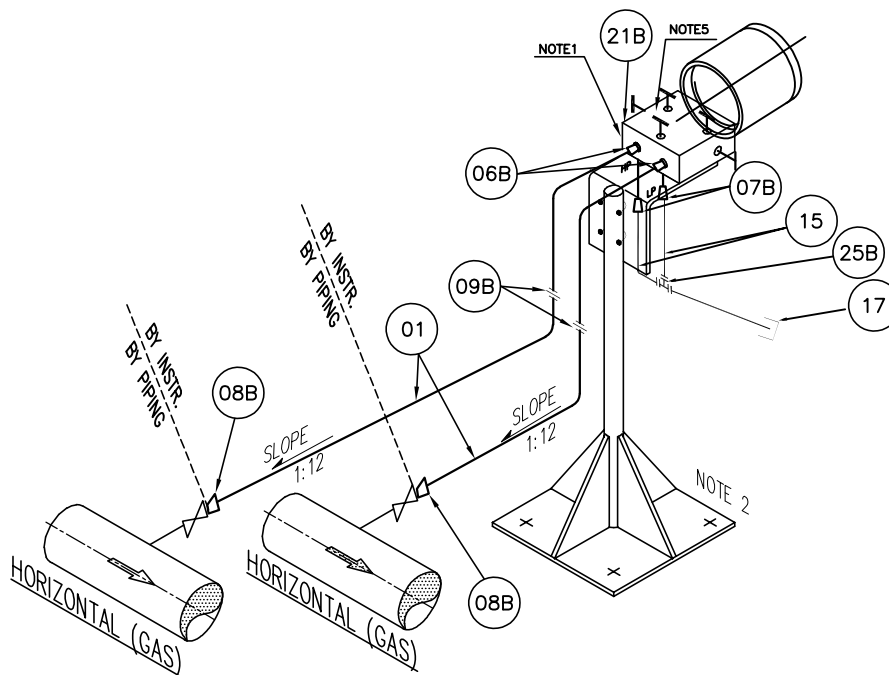
شماره صفحه: 36 از 56

TAG NUMBERS

PDIT-2143



(DETAIL OF MANIFOLD ITEM 21)



NOTES:

- 1-(5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 5-EACH (5) VALVES MANIFOLD IS DEFINED WITH ONE 1/4"NPTF DRAIN CONNECTION .
- 6-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO TRANSMITTER.

D04

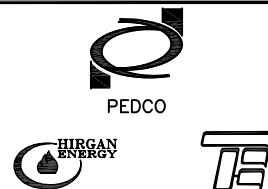
DESCRIPTION : DIFFERENTIAL PRESSURE TRANSMITTER ON PIPE (GAS) -
MATERIAL RATING: #6000

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
01	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	20	1	20	METER	
06B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	2	1	2	PIECES	#6000
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	2	1	2	PIECES	#6000
08B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/2"O.D	AISI 316L SS	2	1	2	PIECES	#6000
09B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	2	1	2	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	2	1	2	METER	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	1	1	PIECES	-
21B	5 - WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	1	1	1	PIECES	#6000 BY VENDOR
25B	UNION TUBE TEE	1/4"	AISI 316L SS	1	1	1	PIECES	#6000

TABLE 27



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



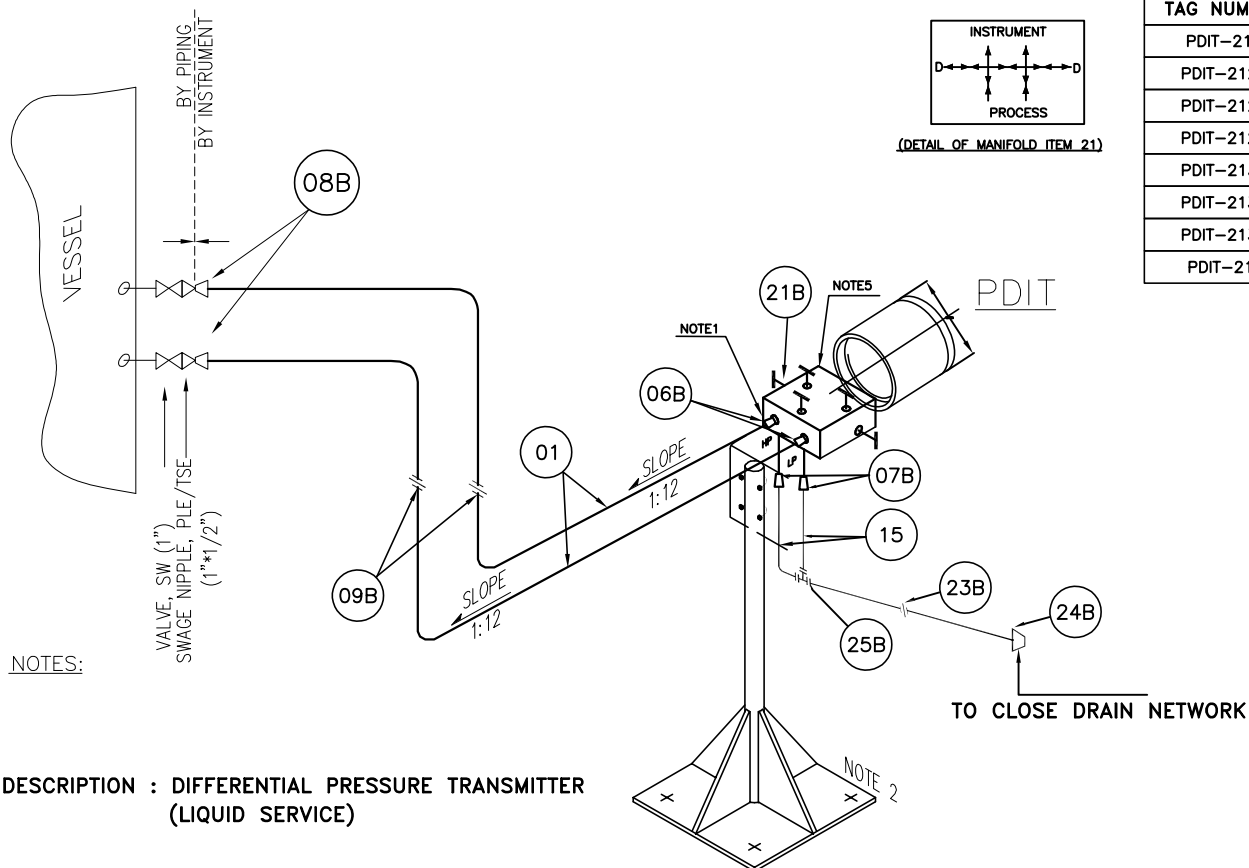
شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 37 از 56

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04



TAG NUMBERS

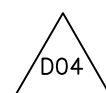
PDIT-2112
PDIT-2121A
PDIT-2121A
PDIT-2121B
PDIT-2131A
PDIT-2131B
PDIT-2131C
PDIT-2141

NOTES:

DESCRIPTION : DIFFERENTIAL PRESSURE TRANSMITTER
(LIQUID SERVICE)

NOTES:

- 1-(5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 5-EACH (5) VALVES MANIFOLD IS DEFINED WITH ONE 1/4"NPTF DRAIN CONNECTION .
- 6-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO TRANSMITTER.
- 7-PROCESS CONNECTION TO BE FROM SIDE, DUE TO ANY SPACE LIMITATION, ORIENTATION CAN BE DOWNWARDS UP TO 45 DEGREES.

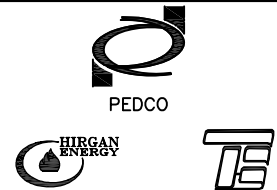


DESCRIPTION : DIFFERENTIAL PRESSURE TRANSMITTER ON VESSEL (LIQUID)

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
01	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	20	8	160	METER	
06B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	2	8	16	PIECES	#6000
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	2	8	16	PIECES	#6000
08B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/2"O.D	AISI 316L SS	2	8	16	PIECES	#6000
09B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	2	8	16	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	5	8	40	METER	-
21B	5 - WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	1	8	8	PIECES	#6000 BY VENDOR
23B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	8	8	PIECES	#6000
24B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/4"O.D	AISI 316L SS	1	8	8	PIECES	#6000
25B	UNION TUBE TEE	1/4"	AISI 316L SS	1	8	8	PIECES	#6000



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
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شماره پیمان:

053-073-9184

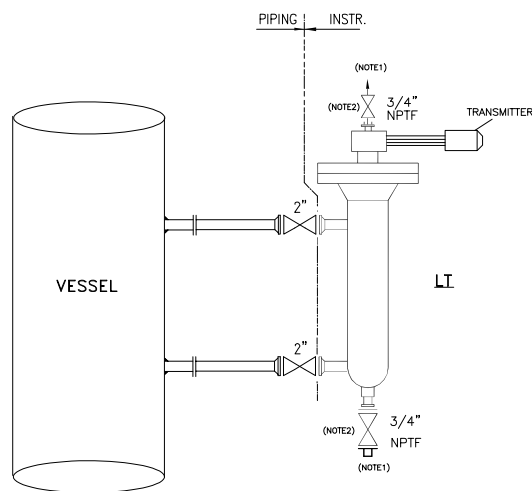
INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 38 از 56

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

TAG NUMBERS

LIT-2118
LIT-2122A
LIT-2122A
LIT-2122C
LIT-2132A
LIT-2132B
LIT-2132C
LIT-2142
LIT-2272
LIT-2252A
LIT-2252B
LIT-2252C



RATING FOR FLANGE ACCORDING TO INDIVIDUAL DATA SHEET
MINIMUM RATING FOR FLANGE SHALL BE 300#

NOTES:

- 1-SUITABLE CONNECTION TO OPEN DRAIN & VENT TO SAFE LOCATION TO BE CONSIDERED IN THIS PROJECT.
- 2-COCK VALVE, VENT & DRAIN VALVE, FLANGE GASKETS, BOLTS & NUTS BY INSTR. VENDOR.
- 3-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."

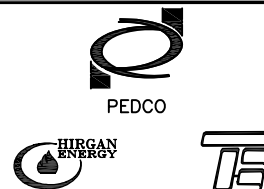
DESCRIPTION : DISPLACER LEVEL TRANS.(DIRECT CONNECTION)-TYPE 1

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK

TABLE 29



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

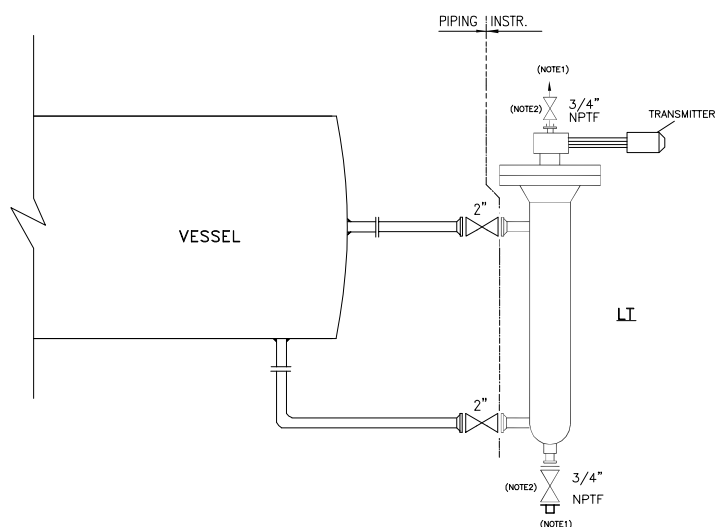
شماره صفحه: 39 از 56

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D04	0002	DG	IN	120	PEDCO	GCS	BK

TAG NUMBERS

LIT-2117

LIT-2253



RATING FOR FLANGE ACCORDING TO INDIVIDUAL DATA SHEET
MINIMUM RATING FOR FLANGE SHALL BE 300#

NOTES:

- 1-SUITABLE CONNECTION TO OPEN DRAIN & VENT TO SAFE LOCATION TO BE CONSIDERED IN THIS PROJECT.
- 2-COCK VALVE, VENT & DRAIN VALVE, FLANGE GASKETS, BOLTS & NUTS BY INSTR. VENDOR.
- 3-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."

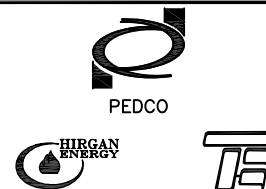
DESCRIPTION : DISPLACER LEVEL TRANS.(DIRECT CONNECTION)-TYPE 2

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK

TABLE 30



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

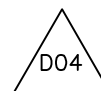
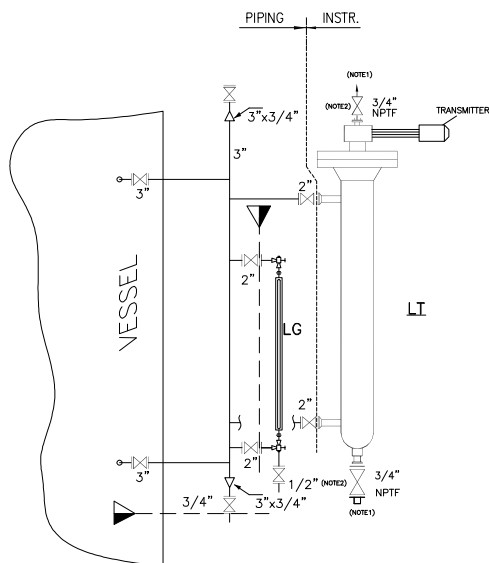


شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 40 از 56



TAG NUMBERS	TAG NUMBERS
LIT-2121A	LG-2121A
LIT-2121A	LG-2121A
LIT-2121B	LG-2121B
LIT-2131A	LG-2131A
LIT-2131B	LG-2131B
LIT-2131C	LG-2131C
LIT-2141	LG-2141
LIT-2271	LG-2271

RATING FOR FLANGE ACCORDING TO INDIVIDUAL DATA SHEET
MINIMUM RATING FOR FLANGE SHALL BE 300#

NOTES:

- 1-SUITABLE CONNECTION TO OPEN DRAIN & VENT TO SAFE LOCATION TO BE CONSIDERED IN THIS PROJECT.
- 2-COCK VALVE, VENT & DRAIN VALVE, FLANGE GASKETS, BOLTS & NUTS BY INSTR. VENDOR.
- 3-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."

DESCRIPTION : DISPLACER LEVEL TRANS./LEVEL GAUGE-SIDE-SIDE (REFLEX)
(DIRECT CONNECTION)

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK

TABLE 31



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

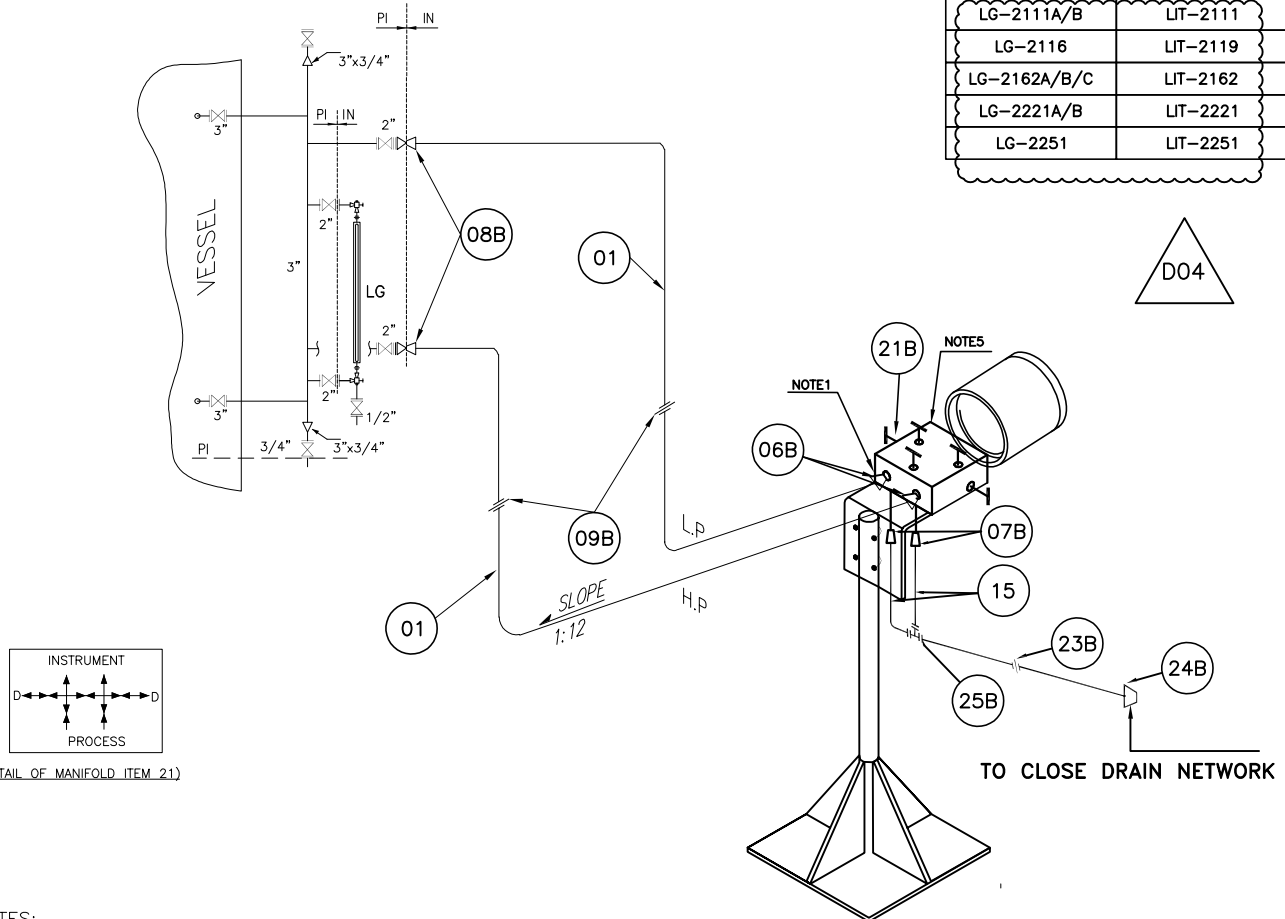
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 41 از 56

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

TAG NUMBERS	TAG NUMBERS
LG-2111A/B	LIT-2111
LG-2116	LIT-2119
LG-2162A/B/C	LIT-2162
LG-2221A/B	LIT-2221
LG-2251	LIT-2251



(DETAIL OF MANIFOLD ITEM 21)

NOTES:

- 1-(5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 5-EACH (5) VALVES MANIFOLD IS DEFINED WITH ONE 1/4"NPTF DRAIN CONNECTION .
- 6-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO TRANSMITTER.

DESCRIPTION : DIFFERENTIAL PRESSURE TRANSMITTER ON VESSEL (LIQUID)-
MATERIAL RATING: #6000-TYPE 1

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
01	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	20	5	100	METER	-
06B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	2	5	20	PIECES	#6000
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	2	5	10	PIECES	#6000
08B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/2"O.D	AISI 316L SS	2	5	20	PIECES	#6000
09B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D.	AISI 316L SS	2	5	10	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	5	5	25	METER	-
21B	5 - WAY VALVE MANIFOLD	2 x 1/2" + 1/4"	AISI 316L SS	1	5	5	PIECES	#6000 BY VENDOR
23B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	5	5	PIECES	#6000
24B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/4"O.D	AISI 316L SS	1	5	5	PIECES	#6000
25B	UNION TUBE TEE	1/4"	AISI 316L SS	1	5	5	PIECES	#6000

TABLE 32



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

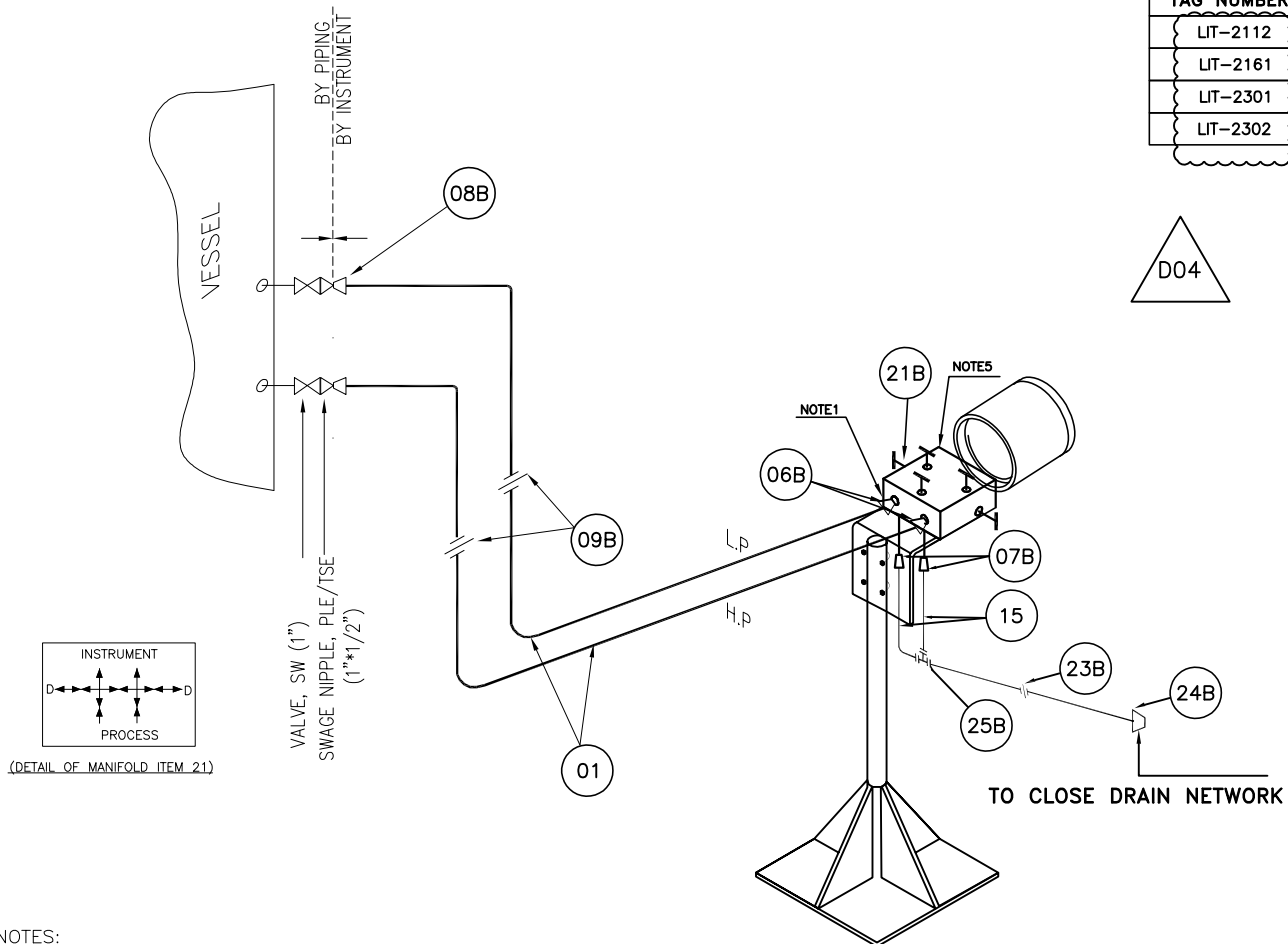
شماره صفحه: 43 از 56

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

TAG NUMBERS

LIT-2112
LIT-2161
LIT-2301
LIT-2302

D04



NOTES:

- 1-(5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 5-EACH (5) VALVES MANIFOLD IS DEFINED WITH ONE 1/4"NPTF DRAIN CONNECTION .
- 6-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO TRANSMITTER.

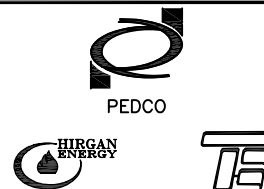
DESCRIPTION : DIFFERENTIAL PRESSURE TRANSMITTER ON VESSEL (LIQUID)-
MATERIAL RATING: #6000-TYPE 3

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
01	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	20	4	80	METER	-
06B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	2	4	8	PIECES	#6000
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	2	4	8	PIECES	#6000
08B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/2"O.D	AISI 316L SS	2	4	8	PIECES	#6000
09B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D.	AISI 316L SS	2	4	8	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	5	4	20	METER	-
21B	5 - WAY VALVE MANIFOLD	2 x 1/2" + 1/4"	AISI 316L SS	1	4	4	PIECES	#6000 BY VENDOR
23B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	4	4	PIECES	#6000
24B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/4"O.D	AISI 316L SS	1	4	4	PIECES	#6000
25B	UNION TUBE TEE	1/4"	AISI 316L SS	1	4	4	PIECES	#6000

TABLE 34



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 44 از 56

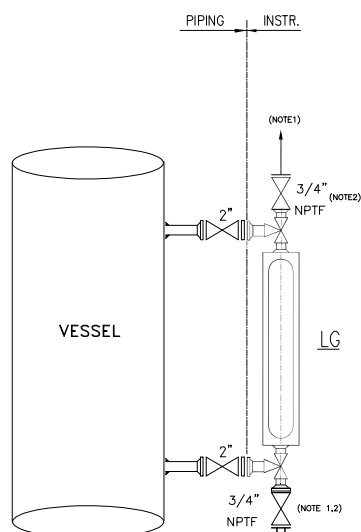
پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

TAG NUMBERS

LG-2201

LG-2211

LG-2281



DESCRIPTION : LEVEL GAUGE-SIDE-SIDE (REFLEX) (DIRECT CONNECTION)

RATING FOR FLANGE ACCORDING TO INDIVIDUAL DATA SHEET
MINIMUM RATING FOR FLANGE SHALL BE 300#

NOTES:

- 1-SUITABLE CONNECTION TO OPEN DRAIN & VENT TO SAFE LOCATION TO BE CONSIDERED IN THIS PROJECT.
- 2-COCK VALVE, VENT & DRAIN VALVE, FLANGE GASKETS, BOLTS & NUTS BY INSTR. VENDOR.
- 3-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."

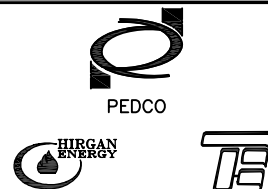
DESCRIPTION : LEVEL GAUGE-SIDE-SIDE (REFLEX) (DIRECT CONNECTION)

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK

TABLE 35



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

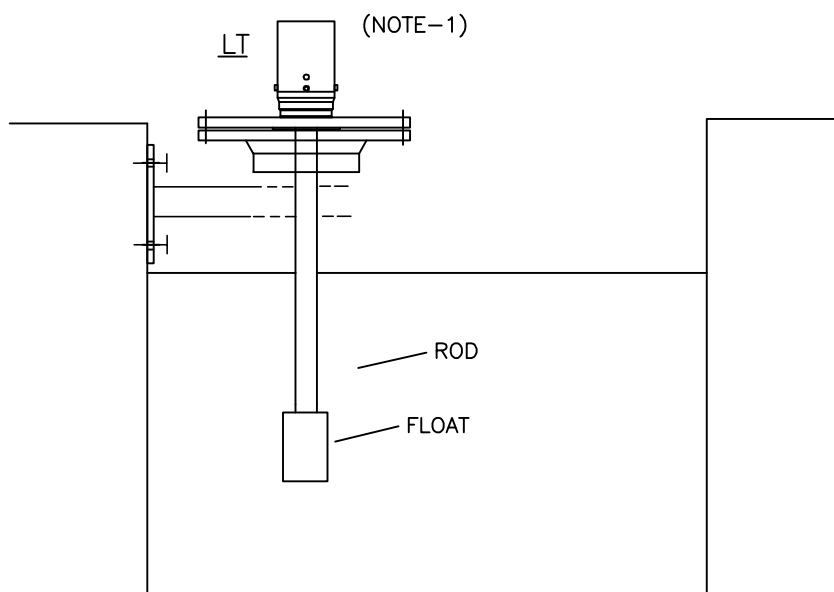
شماره صفحه: 45 از 56

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

TAG NUMBERS

LIT-2223

LIT-2273



NOTE:

1- THERE IS NO CONNECTION WITH PIPING DEPARTMENT.

2- FOR INSTALLATION ACCESSORIES REFER TO DETAILS OF SUPPORT INSTALLATION BK-GCS-PEDCO-120-IN-DW-0001

DESCRIPTION : FLOAT LEVEL TRANS. – TOP MOUNTED (INTERNAL)

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

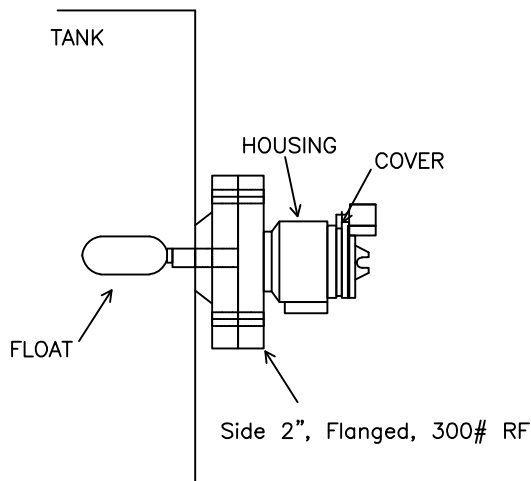
شماره صفحه: 46 از 56

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D04	0002	DG	IN	120	PEDCO	GCS	BK

TAG NUMBERS

LSLL-2301

LSLL-2302



NOTE:

1- THERE IS NO CONNECTION WITH PIPING DEPARTMENT.

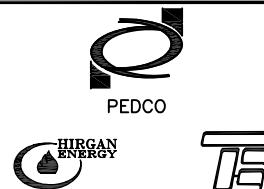
DESCRIPTION : FLOAT LEVEL SWITCH – SIDE MOUNTED

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK

TABLE 37



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
 سطح الارض
 احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

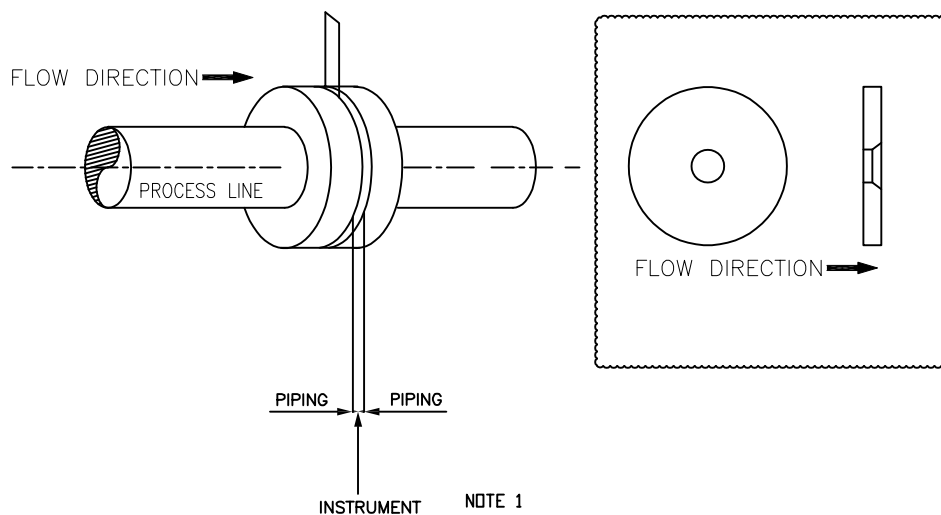
INSTRUMENT HOOK-UP DIAGRAM

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D04	0002	DG	IN	120	PEDCO	GCS	BK

شماره صفحه: 47 از 56

TAG NUMBERS

RO-2112
RO-2131A
RO-2134A
RO-2131B
RO-2134B
RO-2131C
RO-2134C
RO-2133A
RO-2133B
RO-2133C
RO-2141
RO-2144
RO-2151



RATING FOR FLANGE ACCORDING TO INDIVIDUAL DATA SHEET.

NOTES:

1-FLANGE, GASKET, BOLTS & NUTS BY PIPING.

2-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."

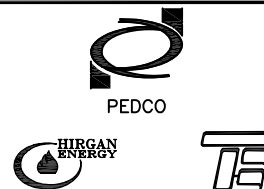
DESCRIPTION : RESTRICTION ORIFICE PLATE

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK

TABLE 38



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

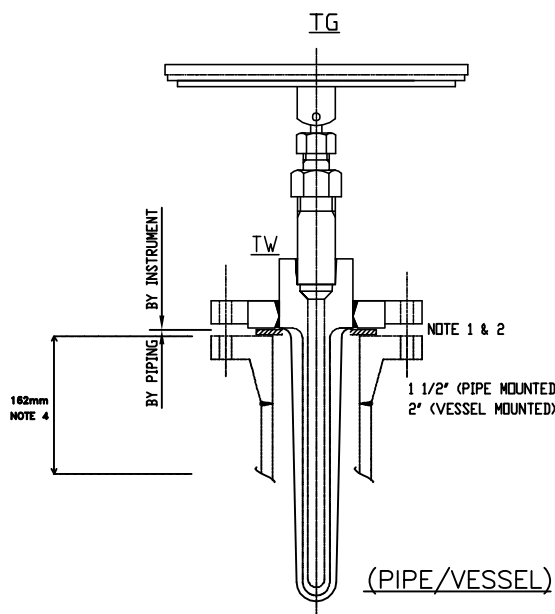
INSTRUMENT HOOK-UP DIAGRAM

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D04	0002	DG	IN	120	PEDCO	GCS	BK

شماره صفحه: 48 از 56

TAG NUMBERS

TG-2111	TG-2131B
TG-2112A	TG-2131C
TG-2112B	TG-2132A
TG-2113	TG-2133A
TG-2114	TG-2132B
TG-2121A	TG-2133B
TG-2121A	TG-2132C
TG-2121B	TG-2133C
TG-2122A	TG-2134A
TG-2123A	TG-2134B
TG-2122A	TG-2134C
TG-2123A	TG-2142
TG-2122C	TG-2141
TG-2123B	TG-2161
TG-2124A	TG-2221
TG-2124A	TG-2251
TG-2124B	TG-2271
TG-2131A	



RATING FOR FLANGE ACCORDING TO INDIVIDUAL DATA SHEET.
MINIMUM RATING FOR FLANGE SHALL BE 300#

NOTES:

- 1-FLANGE, GASKET, BOLTS & NUTS BY PIPING.
- 2-THERMOWELL SUPPLIED BY INSTRUMENT VENDOR, INSTALLED BY PIPING SUB-CONTR.
- 3-INSTALLATION SHALL BE ACCORDANCE WITH IPS-C-IN-120 (LINE SIZE SHALL BE EXPANDED TO 4")
- 4-DISTANCE FROM TOP OF PIPE TO FLANGE FACE FOR PIPE MOUNTED TGs ONLY.
- 5-TEMPERATURE GAUGE TO BE EVERY ANGLE TYPE.

DESCRIPTION : TEMPERATURE GAUGE

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

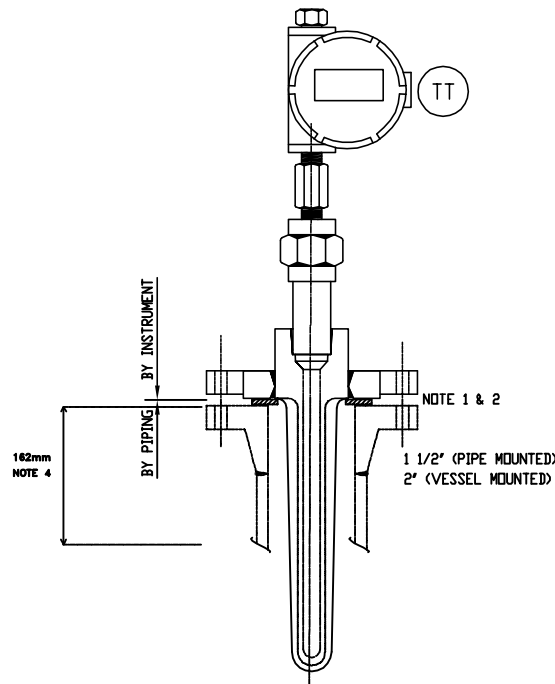


شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 49 از 56



TAG NUMBERS

TIT-2102
TIT-2104
TIT-2112
TIT-2121A
TIT-2124A
TIT-2121A
TIT-2124A
TIT-2121B
TIT-2124B
TIT-2125A
TIT-2126A
TIT-2125A
TIT-2126B
TIT-2125B
TIT-2126C
TIT-2131A
TIT-2134A
TIT-2131B
TIT-2134B
TIT-2131C
TIT-2134C
TIT-2135A
TIT-2136A
TIT-2135B
TIT-2136B
TIT-2135C
TIT-2136C
TT-2211
TT-2271

RATING FOR FLANGE ACCORDING TO INDIVIDUAL DATA SHEET.
MINIMUM RATING FOR FLANGE SHALL BE 300#

NOTES:

- 1-FLANGE, GASKET, BOLTS & NUTS BY PIPING.
- 2-THERMOWELL SUPPLIED BY INSTRUMENT VENDOR, INSTALLED BY PIPING SUB-CONTR.
- 3-INSTALLATION SHALL BE ACCORDANCE WITH IPS-C-IN-120 (line size shall be expanded to 4")
- 4-DISTANCE FROM TOP OF PIPE TO FLANGE FACE FOR PIPE MOUNTED INSTRUMENT ONLY.
- 5-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."

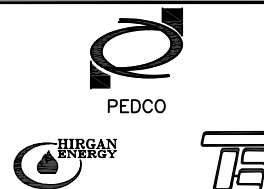
DESCRIPTION : TEMPERATURE TEMPERATURE

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK

TABLE 40



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



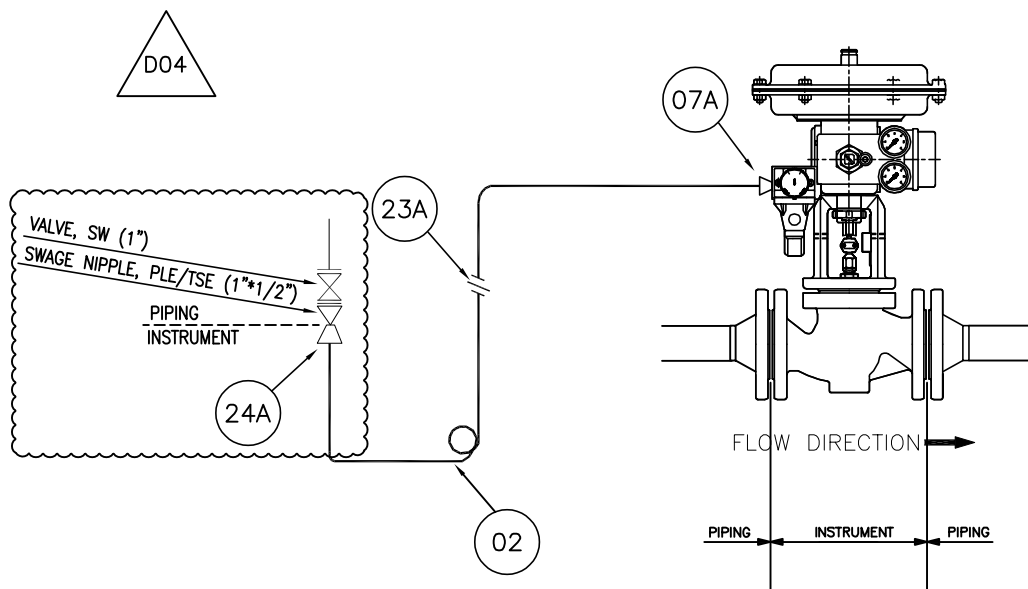
شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

شماره صفحه: 50 از 56



TAG NUMBERS

FCV-2101
FCV-2102
FCV-2111
LCV-2114
PCV-2123A
PCV-2123A
PCV-2123B
PCV-2135A
PCV-2134B
PCV-2134C
PCV-2151
PCV-2152
PCV-2201
PCV-2211
PCV-2272

RATING FOR FLANGE ACCORDING TO INDIVIDUAL DATA SHEET.
MINIMUM RATING FOR FLANGE SHALL BE 300#

NOTES:

1-FLANGE, GASKET, BOLTS & NUTS BY PIPING.

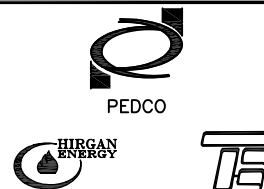
DESCRIPTION : CONTROL VALVE

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
02	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/4" O.D.	AISI 316L SS	10	15	150	METER	
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	15	15	PIECES	#3000
23A	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4" O.D.	AISI 316L SS	1	15	15	PIECES	#3000
24A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/4"O.D	AISI 316L SS	1	15	15	PIECES	#3000

TABLE 41



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

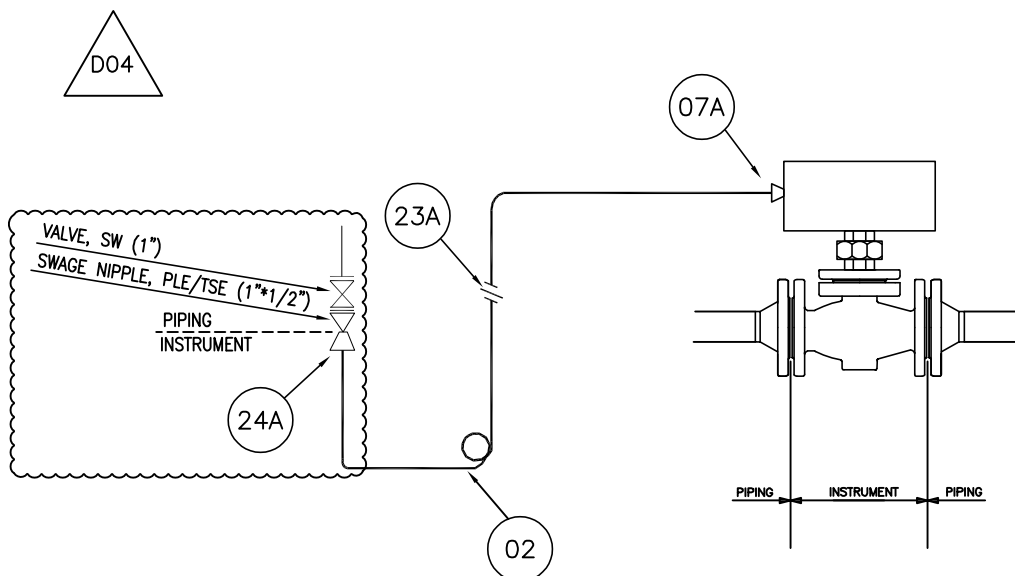
INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 51 از 56

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D04

TAG NUMBERS

ESDV-2101
ESDV-2102
ESDV-2113
ESDV-2272
ESDV-2143
XV-2112
XV-2110
XV-2121A
XV-2122A
XV-2121A
XV-2122A
XV-2121B
XV-2122C
XV-2131A
XV-2131B
XV-2131C
XV-2133A
XV-2133B
XV-2133C
XV-2142
XV-2143
XV-2144
XV-2271
XV-2301
BDV-2131A
BDV-2131B
BDV-2131C
BDV-2132A
BDV-2132B
BDV-2132C
BDV-2141
BDV-2151



**RATING FOR FLANGE ACCORDING TO INDIVIDUAL DATA SHEET.

**MINIMUM RATING FOR FLANGE SHALL BE 300#

**FOR AIR HOOK UP REFER TO "Instrument Air Piping and Air Header Diagram"
DOC NO. BK-GCS-PEDCO-120-IN-DG-0007.

NOTES:

1-FLANGE, GASKET, BOLTS & NUTS BY PIPING.

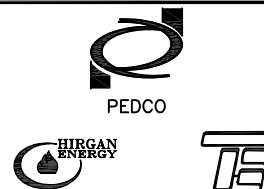
DESCRIPTION : ON/OFF VALVE

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
02	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/4" O.D.	AISI 316L SS	10	32	320	METER	
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	32	32	PIECES	#3000
23A	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4" O.D.	AISI 316L SS	1	32	32	PIECES	#3000
24A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTFx1/4"O.D	AISI 316L SS	1	32	32	PIECES	#3000

TABLE 42



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

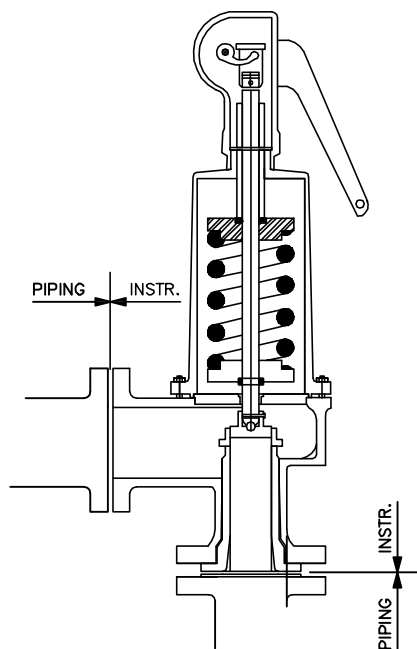
INSTRUMENT HOOK-UP DIAGRAM

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D04	0002	DG	IN	120	PEDCO	GCS	BK

شماره صفحه: 52 از 56

TAG NUMBERS

PSV-2111	PSV-2133B
PSV-2112	PSV-2132C
PSV-2113	PSV-2133C
PSV-2114	PSV-2141
PSV-2121A	PSV-2142
PSV-2121A	PVSV-2161
PSV-2121B	PVSV-2162
PSV-2122A	PRV-2161
PSV-2123A	PRV-2162
PSV-2122A	PRV-2201
PSV-2123A	PSV-2201
PSV-2122C	PSV-2211A
PSV-2123B	PSV-2271
PSV-2131A	TSV-2281A
PSV-2131B	TSV-2281B
PSV-2131C	PRV-2291
PSV-2132A	PRV-2292
PSV-2133A	PSV-2293
PSV-2132B	



RATING FOR FLANGE ACCORDING TO INDIVIDUAL DATA SHEET.

NOTES:

1-FLANGE, GASKET, BOLTS & NUTS BY PIPING.

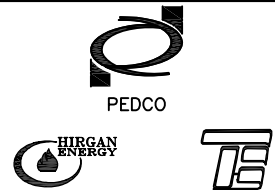
DESCRIPTION : SAFETY & RELIEF VALVE

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK

TABLE 43



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

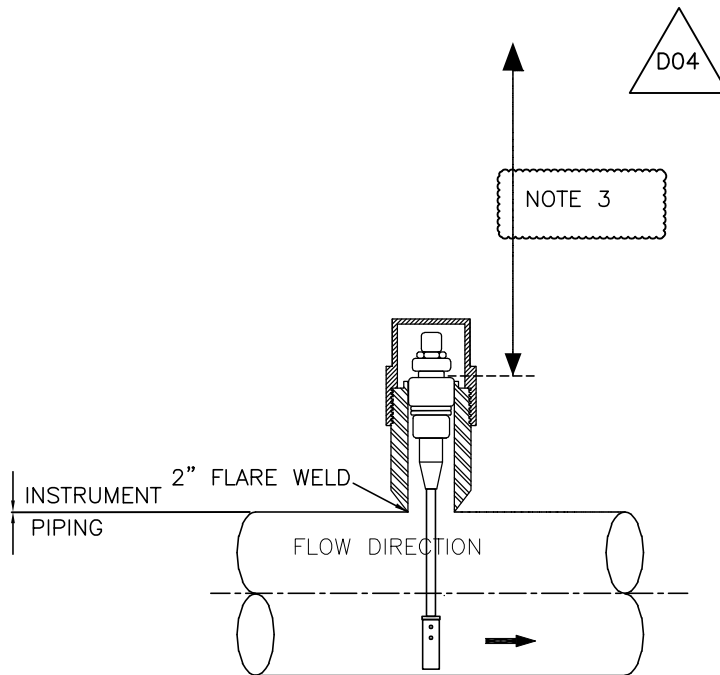
INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 53 از 56

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D04	0002	DG	IN	120	PEDCO	GCS	BK

TAG NUMBERS

CC-2101
CC-2102
CC-2111
CC-2112
CC-2141
CC-2151
CC-2271



NOTES:

- 1-DDETAILS TO BE FINALIZED AS PER VENDOR DATA.
- 2-DDETAILS SHALL BE DETERMINED BY PIPING.
- 3-FREE SPACE FOR REMOVAL OF ACCESS FITTING AND RETRIEVAL SYSTEM TO BE CONSIDERED.

DESCRIPTION : CORROSION COUPON (INSTALLATION IN 12'O CLOCK)(GAS SERVICE)

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

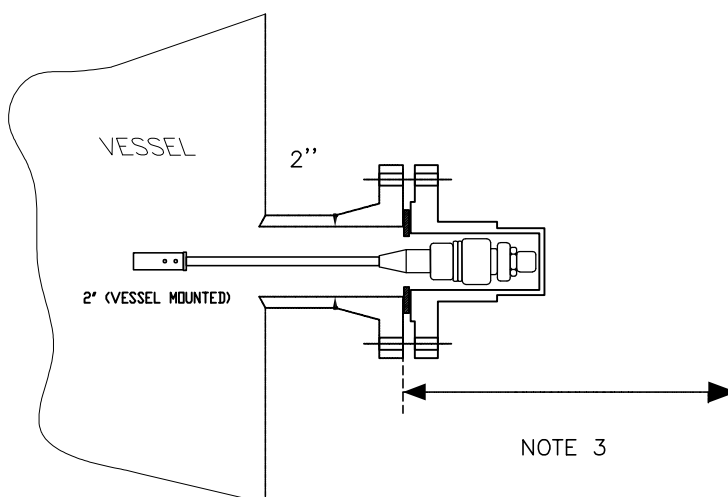
INSTRUMENT HOOK-UP DIAGRAM

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D04	0002	DG	IN	120	PEDCO	GCS	BK

شماره صفحه: 54 از 56

TAG NUMBERS

CC-2162



NOTES:

- 1-DDETAILS TO BE FINALIZED AS PER VENDOR DATA.
- 2-DDETAILS SHALL BE DETERMINED BY PIPING.
- 3-FREE SPACE FOR REMOVAL OF ACCESS FITTING AND RETRIEVAL SYSTEM TO BE CONSIDERED.

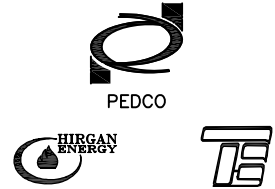
DESCRIPTION : CORROSION COUPON ON TANK (LIQUID SERVICE)

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK

TABLE 45



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

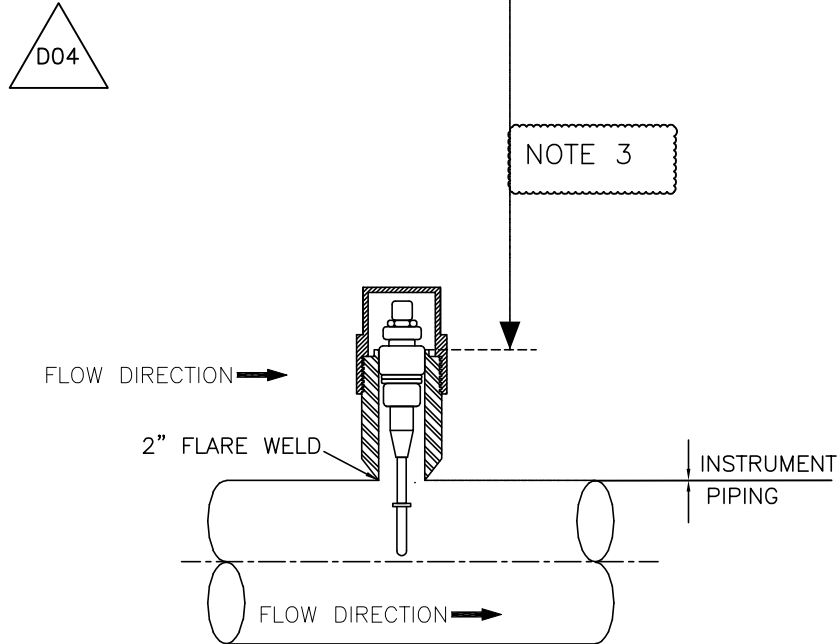
INSTRUMENT HOOK-UP DIAGRAM

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D04	0002	DG	IN	120	PEDCO	GCS	BK

شماره صفحه: 55 از 56

TAG NUMBERS

CP-2101
CP-2102
CP-2111
CP-2112
CP-2141
CP-2251
CP-2271



DESCRIPTION : CORROSION PROBE/TRANSMITTER (INSTALLATION IN 12'O CLOCK) (GAS SERVICE)

NOTES:

- 1-DDETAILS TO BE FINALIZED AS PER VENDOR DATA.
- 2-DDETAILS SHALL BE DETERMINED BY PIPING.
- 3-FREE SPACE FOR REMOVAL OF ACCESS FITTING AND RETRIEVAL SYSTEM TO BE CONSIDERED.

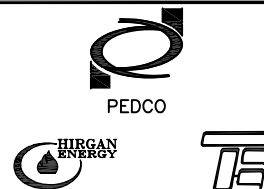
DESCRIPTION : CORROSION PROBE/TRANSMITTER (INSTALLATION IN 12'O CLOCK)
(GAS SERVICE)

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK

TABLE 46



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
 سطح الارض
 احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



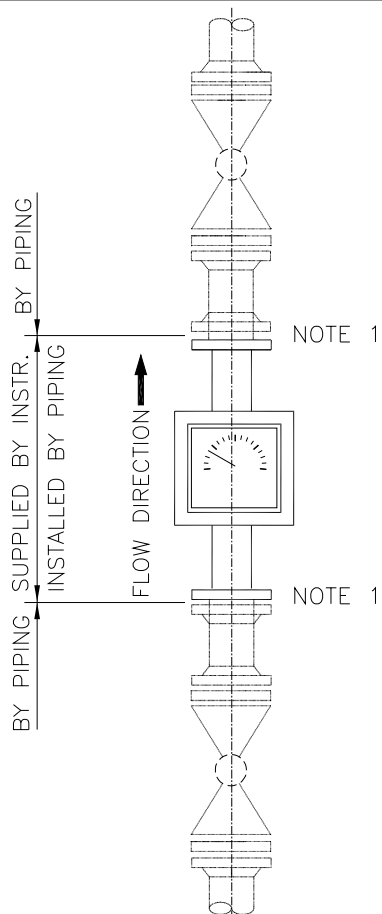
شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 56 از 56

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D04	0002	DG	IN	120	PEDCO	GCS	BK



TAG NUMBERS

FG-2101
FG-2102
FG-2111
FG-2132A
FG-2132B
FG-2132C
FG-2142
FG-2141
FG-2151
FG-2272
FG-2271
FG-2301
FG-3201

NOTES:

- 1-GASKET, BOLTS AND NUTS SHALL BE PROVIDED BY PIPING (IF REQUIRED).
- 2-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING.
DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."

DESCRIPTION : ROTAMETER

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK