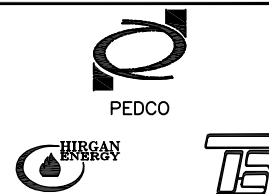




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سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

نسخه	سریال	نوع مدرک	رشته	تسهيلات	صادرکننده	بسته کاری	پروژه
D03	0002	DG	IN	120	PEDCO	GCS	BK

شماره صفحه: 01 از 55

طرح نگهداشت و افزایش تولید ۲۷ مخزن

INSTRUMENT HOOK-UP DIAGRAM

نگهداشت و افزایش تولید میدان نفتی بینک

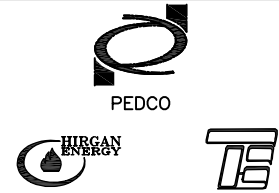
D03	SEP.2023	AFC	P.Hajisadeghi	M.Fakharian	A.M.Mohseni	
D02	OCT.2022	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D01	JUN.2022	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D00	MAR.2022	IFC	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
REV.	DATE	PURPOSE OF ISSUE/STATUS	PREPARED BY:	CHECKED BY:	APPROVED BY:	CLIENT APPROVAL
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

نسخه	سریال	نوع مدرک	رشته	تسهيلات	صادرکننده	بسته کاری	پروژه
D03	0002	DG	IN	120	PEDCO	GCS	BK

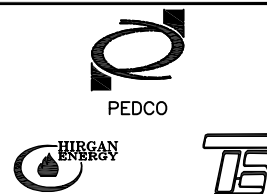
شماره صفحه: 02 از 55

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				34		X	X	X			
2	X	X	X	X				35			X	X			
3	X	X	X	X				36			X	X			
4	X	X	X	X				37			X	X			
5	X	X	X	X				38			X	X			
6	X	X		X				39			X	X			
7	X	X	X	X				40				X			
8	X	X	X	X				41				X			
9	X	X		X				42				X			
10	X	X	X	X				43				X			
11	X	X	X	X				44				X			
12	X	X	X	X				45				X			
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25	X	X	X	X				58							
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28	X		X	X				61							
29	X		X	X				62							
30	X		X	X				63							
31	X		X	X				64							
32		X	X	X				65							
33		X	X	X				66							



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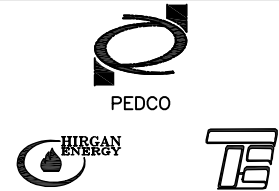
INSTRUMENT HOOK-UP DIAGRAM

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
D03	0002	DG	IN	120	PEDCO	GCS	BK

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شماره صفحه: 04 از 55

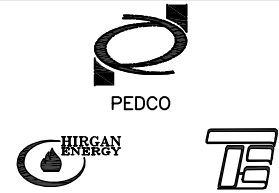
نسخه	سرال	نوع مدرک	رشته	تسهيلات	صادرکننده	بسته کاری	پروژه
D03	0002	DG	IN	120	PEDCO	GCS	BK

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INSTRUMENT HOOK-UP DIAGRAM

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D03	0002	DG	IN	120	PEDCO	GCS	BK

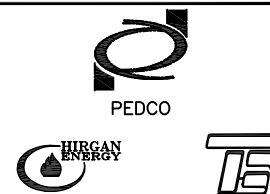
شماره صفحه: 05 از 55

BULK MATERIAL SUMMARY SHEET

ITEM	DESCRIPTION	SIZE	MATERIAL	TOTAL QTY	UNIT	TOTAL QTY+20	REMARK
01	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2" O.D	AISI 316L SS	1082	METER	1299	
02	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/4" O.D	AISI 316L SS	310	METER	372	
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR -#3000	1/4" NPTMx1/4" O.D	AISI 316L SS	116	PIECES	140	
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR -#6000	1/4" NPTMx1/4" O.D	AISI 316L SS	123	PIECES	148	
08A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR -#3000	1/2" NPTMx1/2" O.D	AISI 316L SS	74	PIECES	89	
08B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR -#6000	1/2" NPTMx1/2" O.D	AISI 316L SS	126	PIECES	152	
09A	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE -#3000	1/2" O.D	AISI 316L SS	36	PIECES	44	
09B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE -#6000	1/2" O.D	AISI 316L SS	74	PIECES	89	
10	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2" O.D	AISI 316L SS	31	PIECES	38	
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4" O.D	AISI 316L SS	194	METER	233	
17	TUBE CAP	1/4" O.D	AISI 316L SS	118	PIECES	142	
22A	UNION TUBE TEE-#3000	1/2"	AISI 316L SS	2	PIECES	3	
22B	UNION TUBE TEE-#6000	1/2"	AISI 316L SS	10	PIECES	12	
23A	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE -#3000	1/4" O.D.	AISI 316L SS	31	PIECES	38	
23B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE -#6000	1/4" O.D.	AISI 316L SS	28	PIECES	34	
24A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR -#3000	1/2" NPTMx1/4" O.D	AISI 316L SS	77	PIECES	93	
24B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR -#6000	1/2" NPTMx1/4" O.D	AISI 316L SS	28	PIECES	34	
25A	UNION TUBE TEE-#3000	1/4"	AISI 316L SS	8	PIECES	10	
25B	UNION TUBE TEE-#6000	1/4"	AISI 316L SS	21	PIECES	26	



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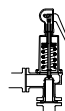
INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

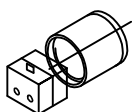
شماره صفحه: 06 از 55



PRESSURE GAUGE



SAFETY VALVE



PRESSURE TRANSMITTER



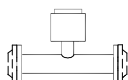
CONTROL VALVE



PRESSURE SWITCH



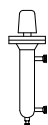
CORROSION COUPON



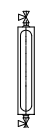
ULTRASONIC FLOWMETER



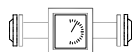
ON/OFF VALVE



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



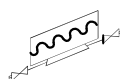
UNION



TEMPERATURE TRANSMITTER



TUBE CAP



DIAPHRAGM SEAL



CONNECTOR



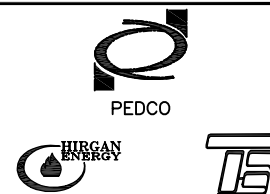
TEMPERATURE SWITCH



3-WAY 2 VALVES MANIFOLD
FOR PRESSURE GAUGES



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INSTRUMENT HOOK-UP DIAGRAM

نسخه	سریال	نوع مدرک	رشته	تسهيلات	صادرکننده	بسته کاری	پروژه
D03	0002	DG	IN	120	PEDCO	GCS	BK

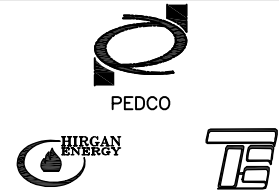
شماره صفحه: 07 از 55

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_D04
6	P&ID - W028	BK-W028-PEDCO-110-PR-PI-0001_D04
7	P&ID - W046S	BK-W046S-PEDCO-110-PR-PI-0001_D04
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_D04
11	P&ID - W008N	BK-W008N-PEDCO-110-PR-PI-0001_D04
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 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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D03	0002	DG	IN	120	PEDCO	GCS	BK

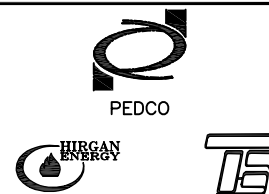
شماره صفحه: 08 از 55

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_D04
29	P&ID- Gas Compression Inlet Gas Pipeline (Golghari)	BK-GCS-PEDCO-120-PR-PI-0003_D04
30	P&ID - Slug Catcher System	BK-GCS-PEDCO-120-PR-PI-0004_D04
31	P&ID - Gas Compression Inlet Knock Out Drum	BK-GCS-PEDCO-120-PR-PI-0005_D04
32	P&ID - 1st Stage Gas Compression Suction Drums	BK-GCS-PEDCO-120-PR-PI-0006_D04
33	P&ID - 1st Stage Gas Compression Compressors	BK-GCS-PEDCO-120-PR-PI-0007_D04
34	P&ID - 1st Stage Gas Compression Air Coolers	BK-GCS-PEDCO-120-PR-PI-0008_D04
35	P&ID - 2nd Stage Gas Compression Suction Drums	BK-GCS-PEDCO-120-PR-PI-0009_D04
36	P&ID-2nd Stage Gas Compression Compressors	BK-GCS-PEDCO-120-PR-PI-0010_D04
37	P&ID - 2nd Stage Gas Compression Air Coolers	BK-GCS-PEDCO-120-PR-PI-0011_D04
38	P&ID - 2nd Stage Gas Compression Discharge Drum	BK-GCS-PEDCO-120-PR-PI-0012_D04
39	P&ID - Gas Compression Dehydration Package	BK-GCS-PEDCO-120-PR-PI-0013_D04
40	P&ID - Lean Glycol Storage Tank	BK-GCS-PEDCO-120-PR-PI-0014_D04
41	P&ID - Instrument & Plant Air System	BK-GCS-PEDCO-120-PR-PI-0015_D04
42	P&ID - Nitrogen Generation System	BK-GCS-PEDCO-120-PR-PI-0016_D04
43	P&ID - Close Drain System	BK-GCS-PEDCO-120-PR-PI-0017_D04
44	P&ID - Corrosion Inhibitor Package	BK-GCS-PEDCO-120-PR-PI-0018_D04
45	P&ID - Methanol Injection Package	BK-GCS-PEDCO-120-PR-PI-0019_D04
46	P&ID - LP Flare System	BK-GCS-PEDCO-120-PR-PI-0020_D04
47	P&ID - Oily Water Sewer	BK-GCS-PEDCO-120-PR-PI-0021_D04
48	P&ID - Fuel Gas System	BK-GCS-PEDCO-120-PR-PI-0022_D04
49	P&ID - Diesel Oil System	BK-GCS-PEDCO-120-PR-PI-0023_D04
50	P&ID - Potable Water System	BK-GCS-PEDCO-120-PR-PI-0024_D04
51	P&ID - Glycol Sump Drum	BK-GCS-PEDCO-120-PR-PI-0025_D04
52	Specification For Instrumentation	BK-GNRL-PEDCO-000-IN-SP-0001_D04
53	Instrument & Control System Design Criteria	BK-GCS-PEDCO-120-IN-DC-0002_D01



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053-073-9184

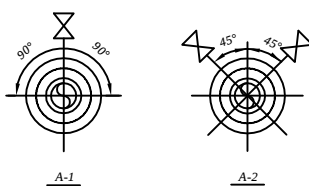
INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

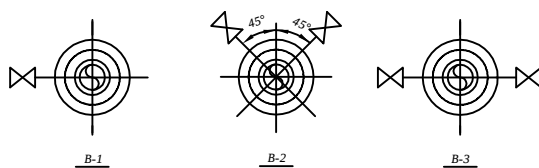
شماره صفحه: 09 از 55

TAP VALVE ORIENTATION (UP STREAM VIEW)

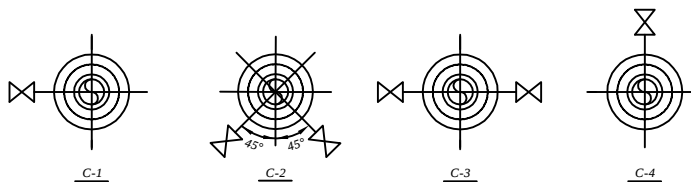
TYPE : A



TYPE : B



TYPE : C



NOTE :

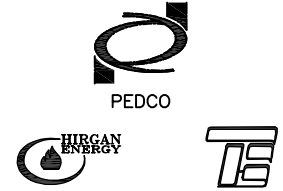
TYPE : A ----- GAS SERVICE

TYPE : B ----- STEAM SERVICE

TYPE : C ----- LIQUID SERVICE



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
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شماره پیمان:

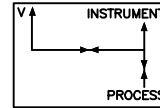
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 10 از 55

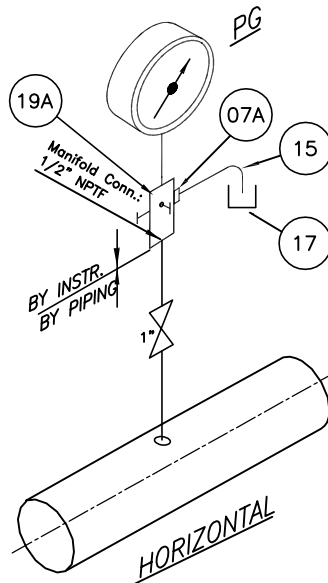
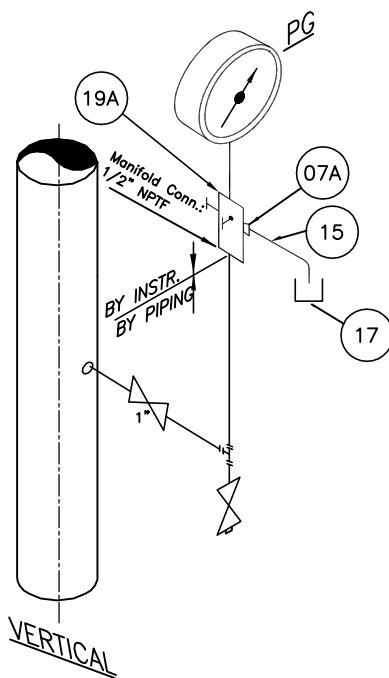
PRESSURE GAUGE OP PIPE (GAS)-MATERIAL RATING: #2000



(DETAIL OF MANIFOLD ITEM 19)

TAG NUMBERS

PG-2201



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.

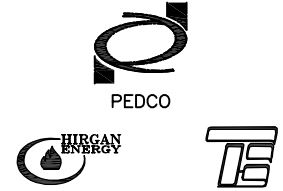
D03

DESCRIPTION : PRESSURE GAUGE OP 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	1	1	PIECES	#3000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	1	1	METER	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	1	1	PIECES	-
19A	3 WAY 2-VALVE MANIFOLD	2 x 1/2"+ 1/4"	AISI 316L SS	1	1	1	PIECES	#3000 BY VENDOR



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



شماره پیمان:

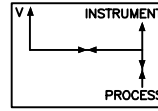
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 11 از 55

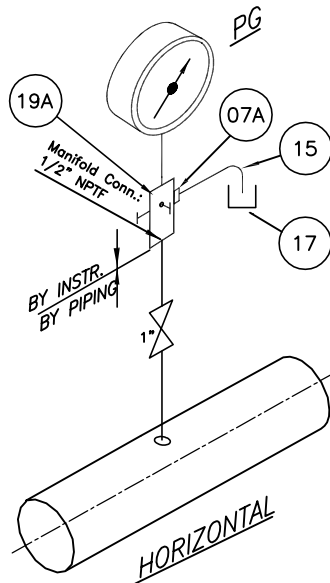
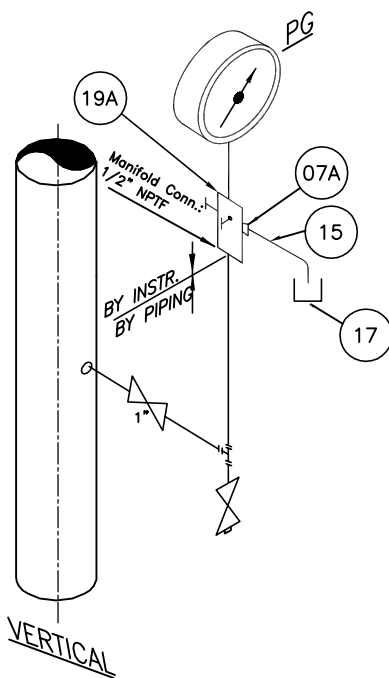
PRESSURE GAUGE OP PIPE (GAS)-MATERIAL RATING:#3000



(DETAIL OF MANIFOLD ITEM 19)

TAG NUMBERS

PG-2261
PG-2211
PG-2124A
PG-2124A
PG-2124B
PG-2122A
PG-2122A
PG-2122C



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.

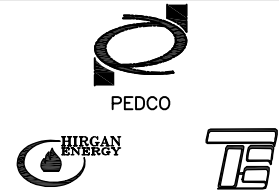


DESCRIPTION : PRESSURE GAUGE OP PIPE (GAS)-MATERIAL RATING:#3000

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	8	8	PIECES	#3000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	8	8	METER	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	8	8	PIECES	-
19A	3 WAY 2-VALVE MANIFOLD	2 x 1/2"+ 1/4"	AISI 316L SS	1	8	8	PIECES	#3000 BY VENDOR



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
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شماره پیمان:

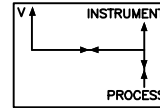
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 12 از 55

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

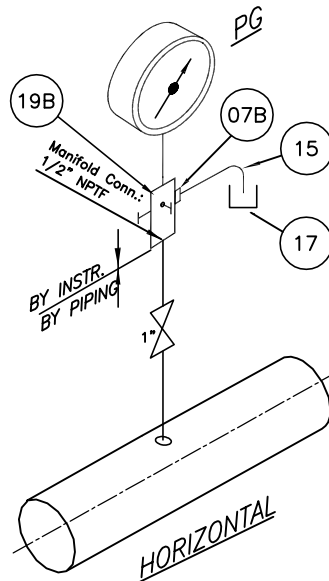
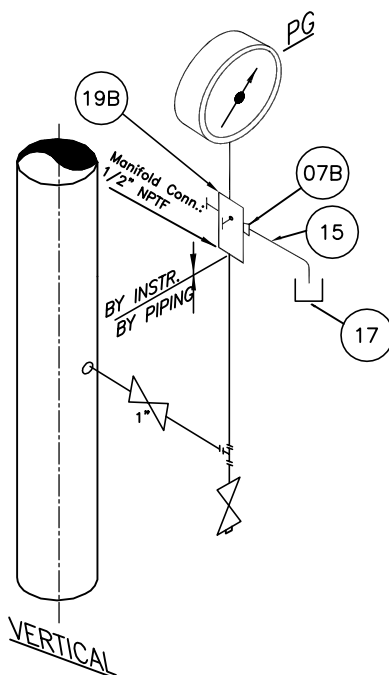


(DETAIL OF MANIFOLD ITEM 19)

TAG NUMBERS

PG-2133A
PG-2133B
PG-2133C
PG-2142
PG-2132C
PG-2123A
PG-2123A
PG-2123B
PG-2132A
PG-2132B
PG-2134A
PG-2134B
PG-2134C

D03



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.

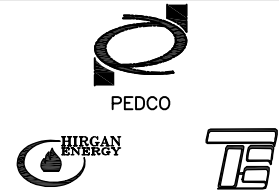
D03

DESCRIPTION : PRESSURE GAUGE OP 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	13	13	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	13	13	METER	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	13	13	PIECES	-
19B	3 WAY 2-VALVE MANIFOLD	2 x 1/2"+ 1/4"	AISI 316L SS	1	13	13	PIECES	#6000 BY VENDOR



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شماره پیمان:

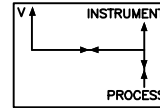
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 13 از 55

PRESSURE GAUGE OP PIPE (GAS)-MATERIAL RATING: #9000

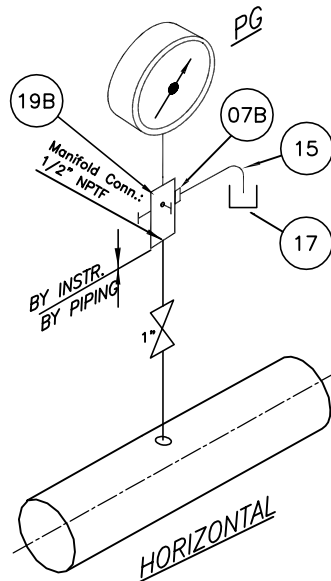
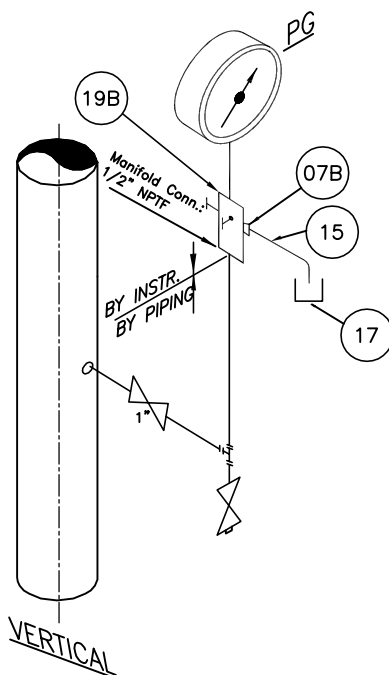


(DETAIL OF MANIFOLD ITEM 19)

TAG NUMBERS

PG-2232A
PG-2232B
PG-2251A
PG-2251B
PG-2271
PG-2272
PG-2274
PG-2101
PG-2102
PG-2115
PG-2103
PG-2104

D03



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.

D03

DESCRIPTION : PRESSURE GAUGE OP 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	12	12	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	12	12	METER	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	12	12	PIECES	-
19B	3 WAY 2-VALVE MANIFOLD	2 x 1/2"+ 1/4"	AISI 316L SS	1	12	12	PIECES	#6000 BY VENDOR



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شماره پیمان:

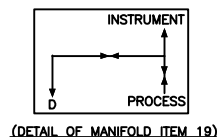
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 14 از 55

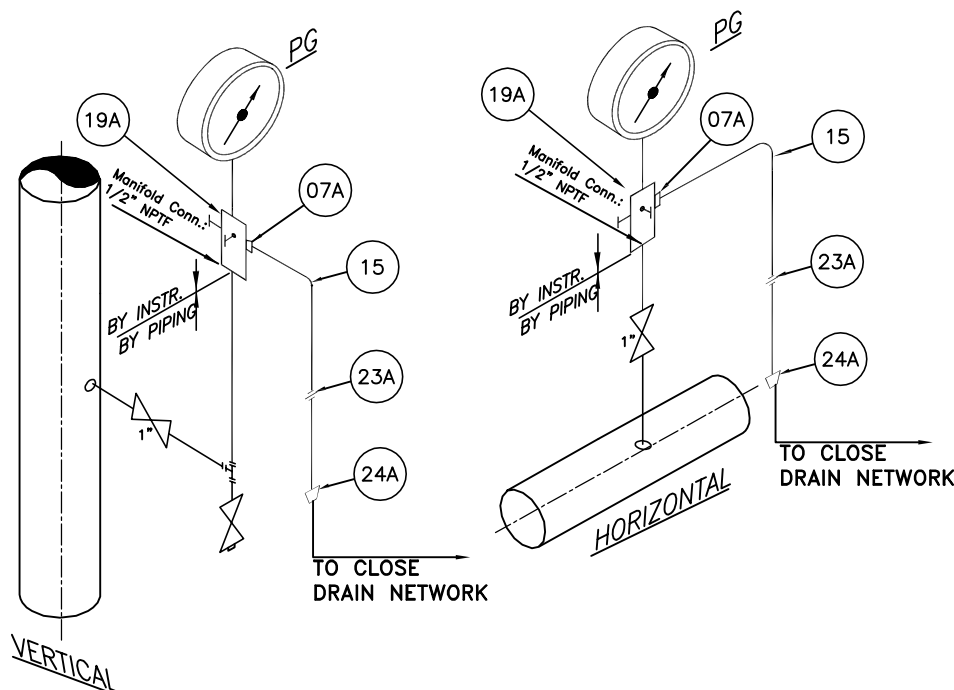
PRESSURE GAUGE OP PIPE (LIQUID)-MATERIAL RATING:#2000



PG-2291

PG-2292

D03



D03

NOTES:

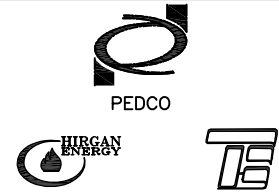
- 1-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO GAUGE
- 2-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 3-IF USINED A UNION BETWEEN THE PRESSURE GAUGE AND THE MANIFOLD, THE INSTRUMENT VENDOR SHALL BE

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

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



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شماره پیمان:

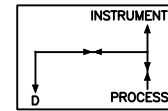
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

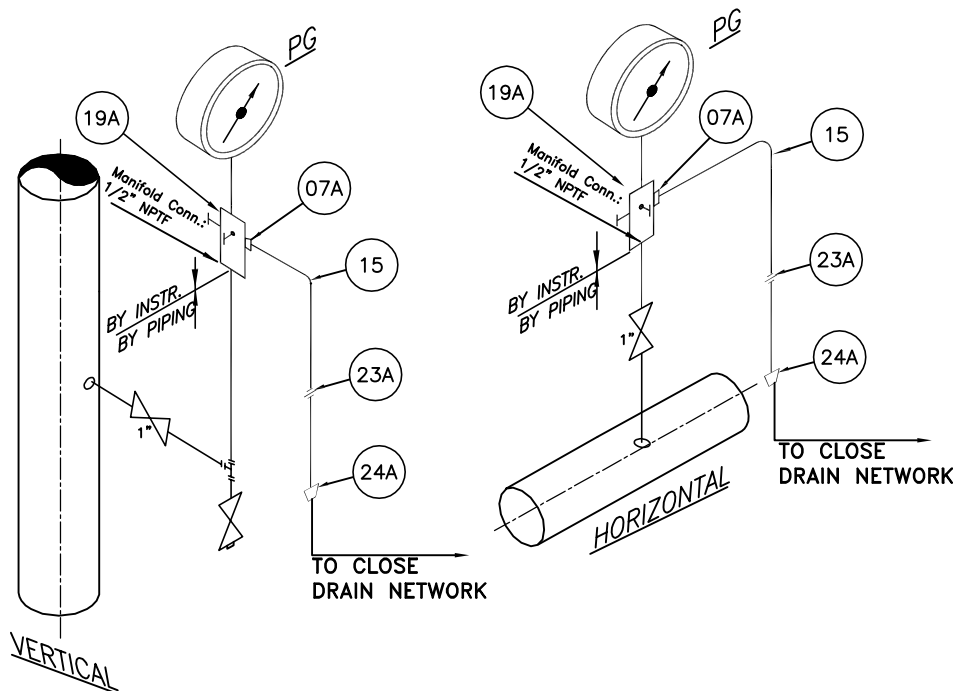
پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 15 از 55

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



(DETAIL OF MANIFOLD ITEM 19)



PG-2222A
PG-2222A
PG-2162
PG-2298
PG-2163A
PG-2163B
PG-2293
PG-2295
PG-2301
PG-2303A
PG-2303B
PG-2304
PG-2305
PG-2301A
PG-2301B
PG-2114A
PG-2114B
PG-2282
PG-2283
PG-2304A
PG-2304B
PG-2302A
PG-2302B

D03

NOTES:

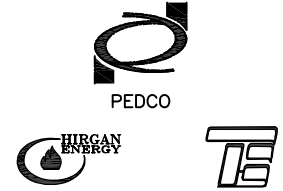
- 1-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO GAUGE
- 2-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 3-IF USINED A UNION BETWEEN THE PRESSURE GAUGE AND THE MANIFOLD, THE INSTRUMENT VENDOR SHALL BE

DESCRIPTION : PRESSURE GAUGE OP 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	23	23	PIECES	#3000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	23	23	METER	-
19A	3 WAY 2-VALVE MANIFOLD	2 x 1/2" + 1/4"	AISI 316L SS	1	23	23	PIECES	#3000 BY VENDOR
23A	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	23	23	PIECES	#3000
24A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/4"O.D	AISI 316L SS	1	23	23	PIECES	#3000



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
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شماره پیمان:

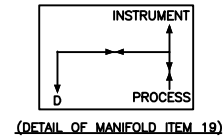
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 16 از 55

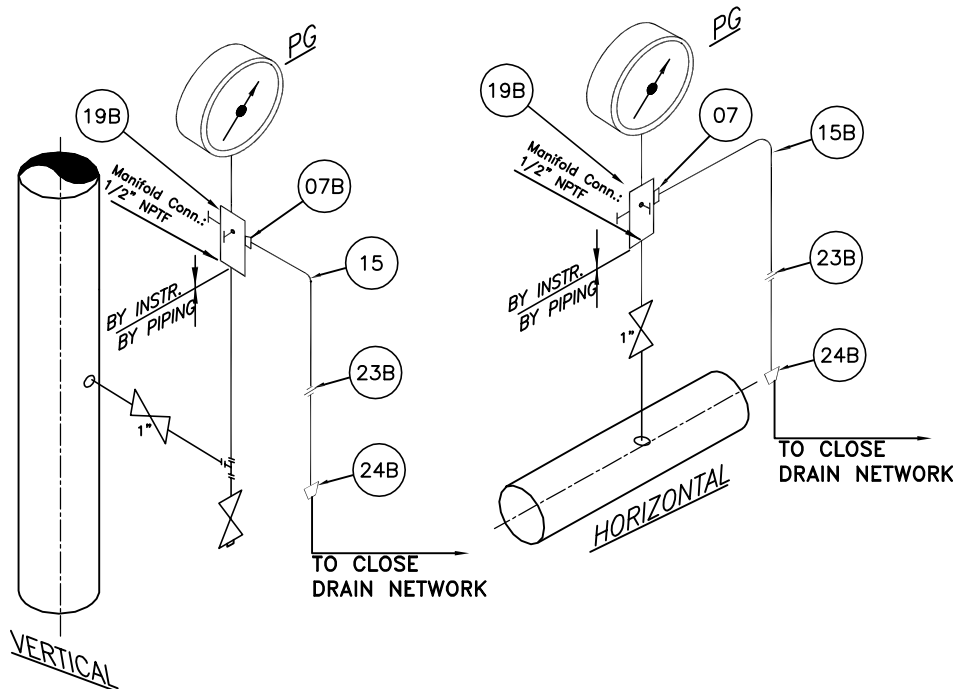
PRESSURE GAUGE OP PIPE (LIQUID)-MATERIAL RATING:#6000



PG-2113A

PG-2113B

D03



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

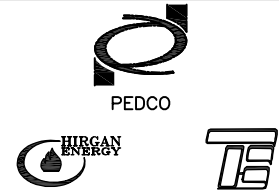
D03

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

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



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
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شماره پیمان:

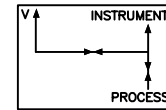
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

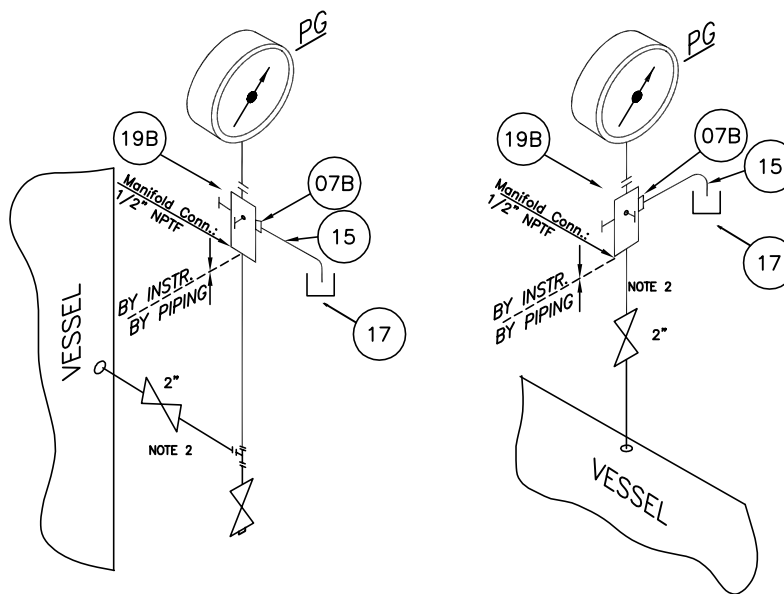
شماره صفحه: 17 از 55

PRESSURE GAUGE ON VESSEL (GAS SERVICE)



(DETAIL OF MANIFOLD ITEM 19)

TAG NUMBERS
PG-2114
PG-2121A
PG-2121A
PG-2121B
PG-2131A
PG-2131B
PG-2131C
PG-2141
PG-2202
PG-2212
PG-2221
PG-2251
PG-2273
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.

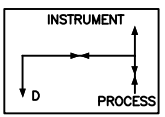


DESCRIPTION : PRESSURE GAUGE ON VESSEL (GAS)

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	14	14	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	14	14	M	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	14	14	PIECES	-
19B	3 WAY 2-VALVE MANIFOLD	2 x 1/2" + 1/4"	AISI 316L SS	1	14	14	PIECES	#6000 BY VENDOR

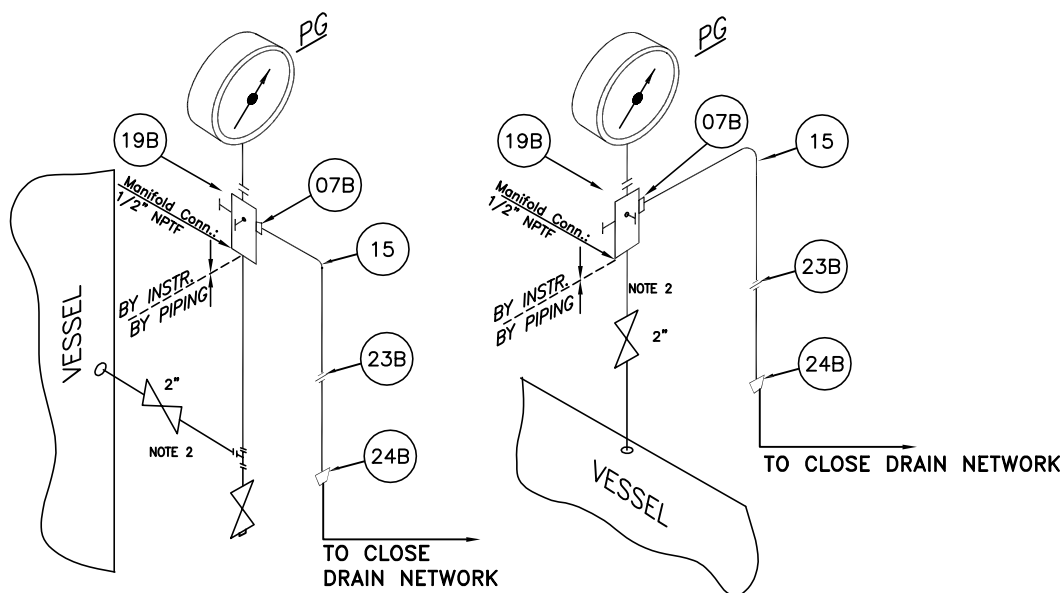
 NISOC	پروژه نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								 PEDCO  HIRGAN ENERGY 
شماره پیمان: 053-073-9184	INSTRUMENT HOOK-UP DIAGRAM								شماره صفحه: 18 از 55
	پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه	
	BK	GCS	PEDCO	120	IN	DG	0002	D03	

PRESSURE GAUGE ON VESSEL (LIQUID SERVICE)

INSTRUMENT	TAG NUMBERS
	PG-2111 ADDED
	PG-2281
	PG-2281B DELETED

(DETAIL OF MANIFOLD ITEM 19)

DELETED



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."

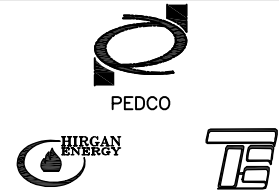
3-IF USINED A UNION BETWEEN THE PRESSURE GAUGE AND THE MANIFOLD, THE INSTRUMENT VENDOR SHALL BE SUPPLIED IT.

DESCRIPTION : PRESSURE GAUGE ON VESSEL (LIQUID)

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	M	-
19B	3 WAY 2-VALVE MANIFOLD	2 x 1/2" + 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



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
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شماره پیمان:

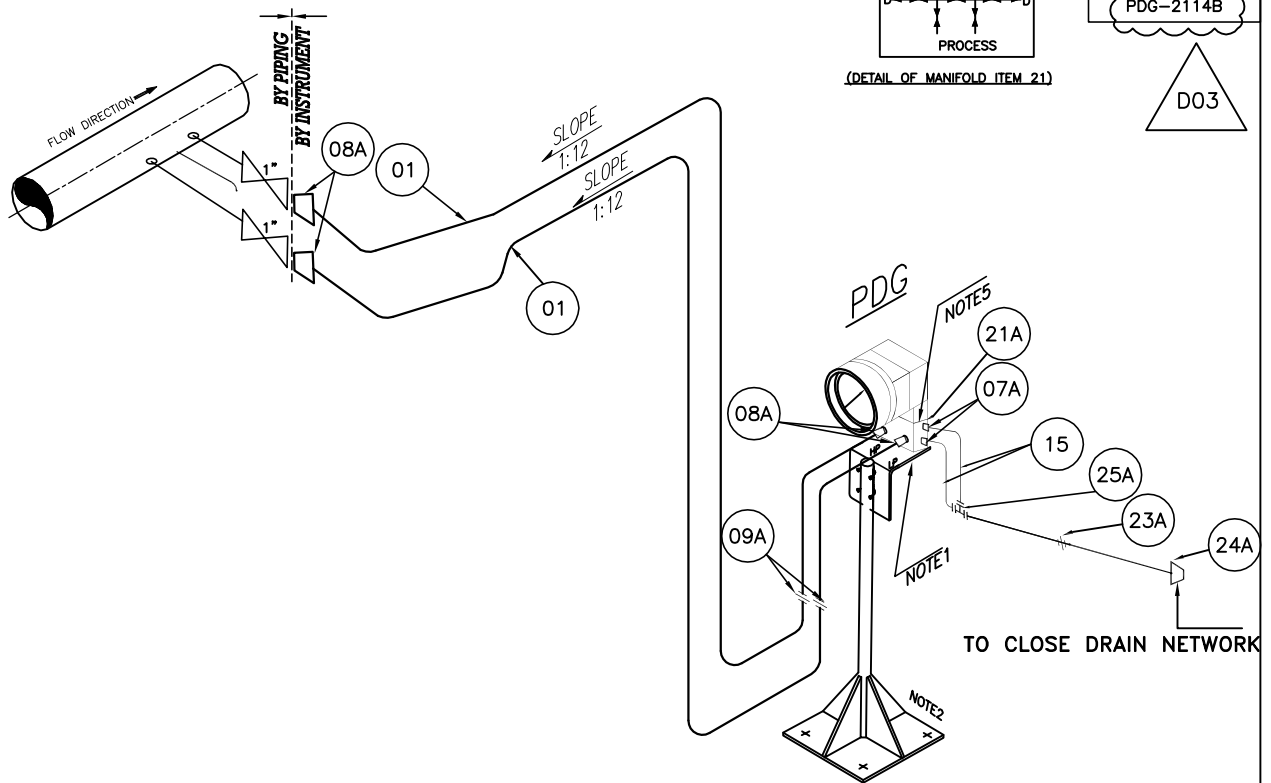
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 19 از 55

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



NOTES:

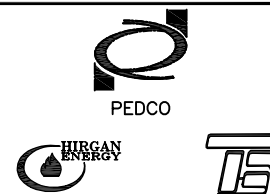
- 1-(5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 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	M	D03
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"NPTMx1/2"O.D	AISI 316L SS	4	2	8	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	10	2	20	M	-
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"NPTMx1/4"O.D	AISI 316L SS	1	2	2	PIECES	#3000
25A	UNION TUBE TEE	1/4"	AISI 316L SS	1	2	2	PIECES	#3000



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شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

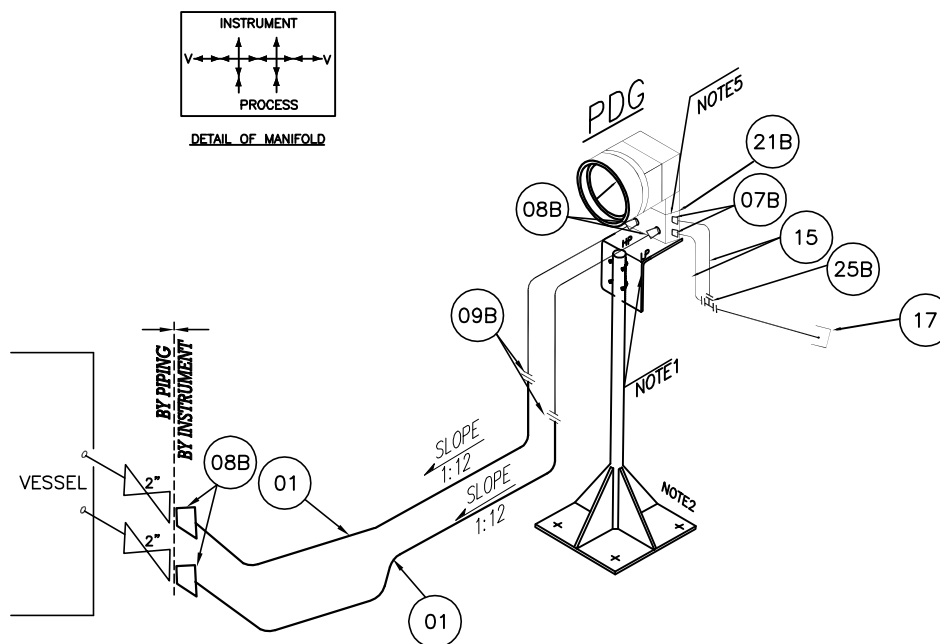
پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 20 از 55

PRESSURE DIFFERENTIAL GAUGE ON VESSEL (GAS)

TAG NUMBERS

PDG-2271



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 .

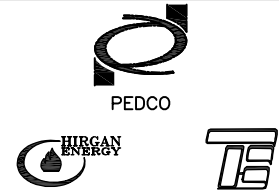
D03

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	M	
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"NPTMx1/2"O.D	AISI 316L SS	4	1	4	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	1	1	1	M	-
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



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شماره پیمان:

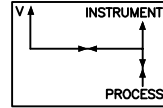
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 21 از 55

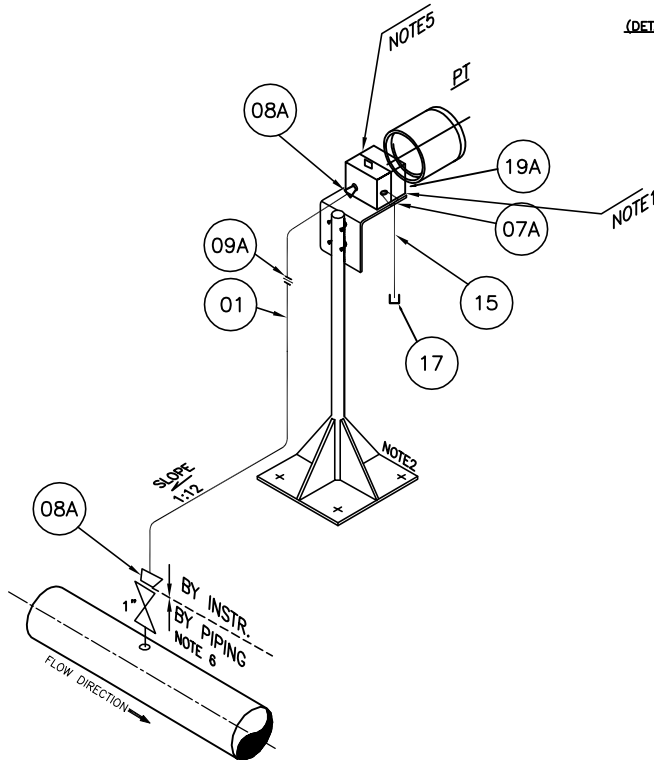
PRESSURE TRANSMITTER ON PIPE (GAS)-MATERIAL RATING:#2000



(DETAIL OF MANIFOLD ITEM 19)

PIT-2203
PIT-2201A
PIT-2201B
PIT-2201C

D03



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.

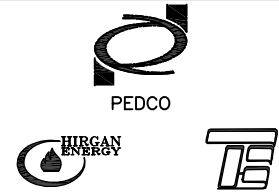
D03

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	4	40	M	
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"NPTMx1/2"O.D	AISI 316L SS	2	4	8	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	M	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	4	4	PIECES	-
19A	3 - WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	1	4	4	PIECES	#3000 BY VENDOR



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شماره پیمان:

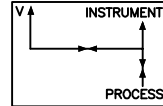
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

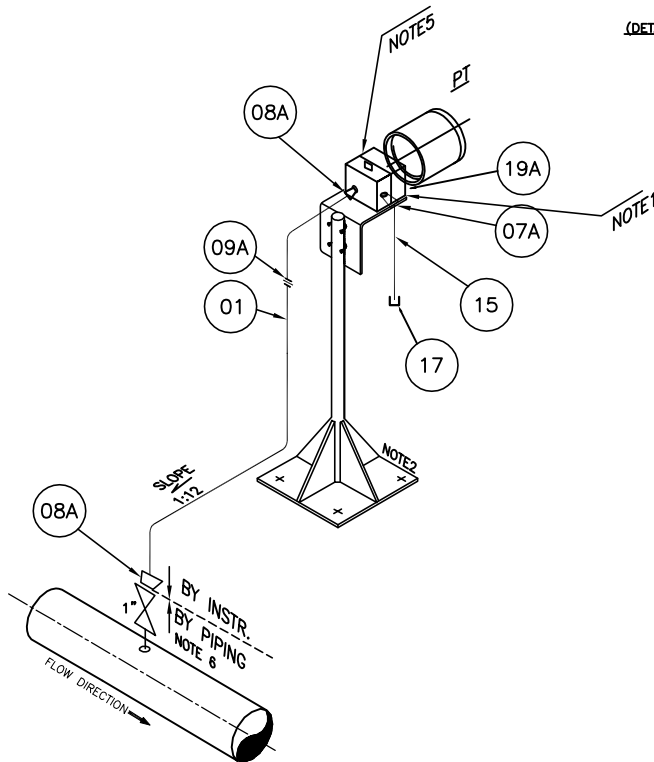
پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 22 از 55

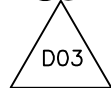
PRESSURE TRANSMITTER ON PIPE (GAS)-MATERIAL RATING:#3000



(DETAIL OF MANIFOLD ITEM 19)



PIT-2202
PIT-2201
PIT-2213
PIT-2214
PIT-2211
PIT-2121A
PIT-2121A
PIT-2121B
PIT-2122A
PIT-2122A
PIT-2122C



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.

D03

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	11	110	M	
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	11	11	PIECES	#3000
08A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	2	11	22	PIECES	#3000
09A	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	1	11	11	PIECES	#3000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	11	11	M	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	11	11	PIECES	-
19A	3 - WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	1	11	11	PIECES	#3000 BY VENDOR



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شماره پیمان:

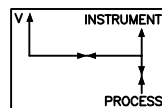
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

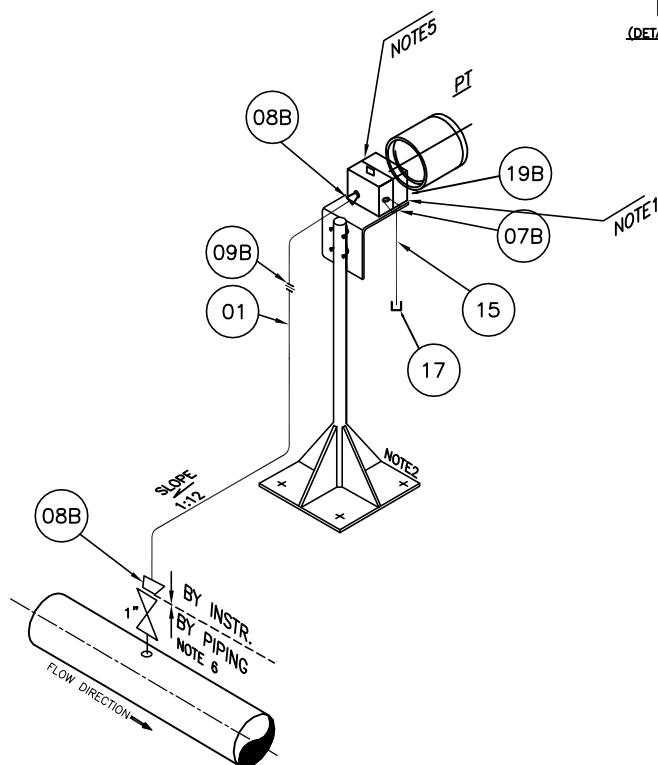
پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 23 از 55

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



(DETAIL OF MANIFOLD ITEM 19)



PIT-2125A
PIT-2125A
PIT-2125B
PIT-2131A
PIT-2131B
PIT-2131C
PIT-2134A
PIT-2134B
PIT-2134C
PIT-2151
PIT-2135A
PIT-2135B
PIT-2135C
D03

NOTES:

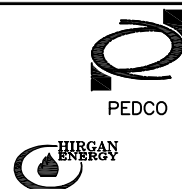
- 1-VLVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY TRANSMITTER VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 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 (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	13	130	M	
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	13	13	PIECES	#6000
08B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	2	13	26	PIECES	#6000
09B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	1	13	13	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	13	13	M	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	13	13	PIECES	-
19B	3 - WAY VALVE MANIFOLD	2 X 1/2" x 1/4"	AISI 316L SS	1	13	13	PIECES	#6000 BY VENDOR



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شماره پیمان:

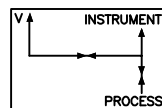
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

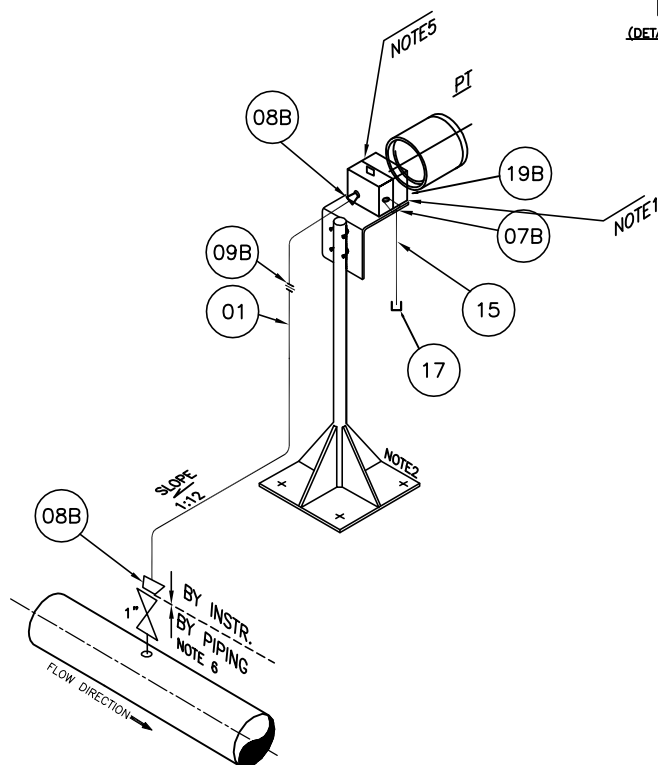
پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 24 از 55

PRESSURE TRANSMITTER ON PIPE (GAS)-MATERIAL RATING:#9000



(DETAIL OF MANIFOLD ITEM 19)



PIT-2222A

PIT-2222A

PIT-2252

PIT-2272

PIT-2271

PIT-2102

PIT-2111

PIT-2116

PIT-2104

D03

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.

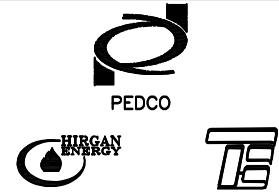
D03

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	M	
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"NPTMx1/2"O.D	AISI 316L SS	2	9	18	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	M	-
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



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شماره پیمان:

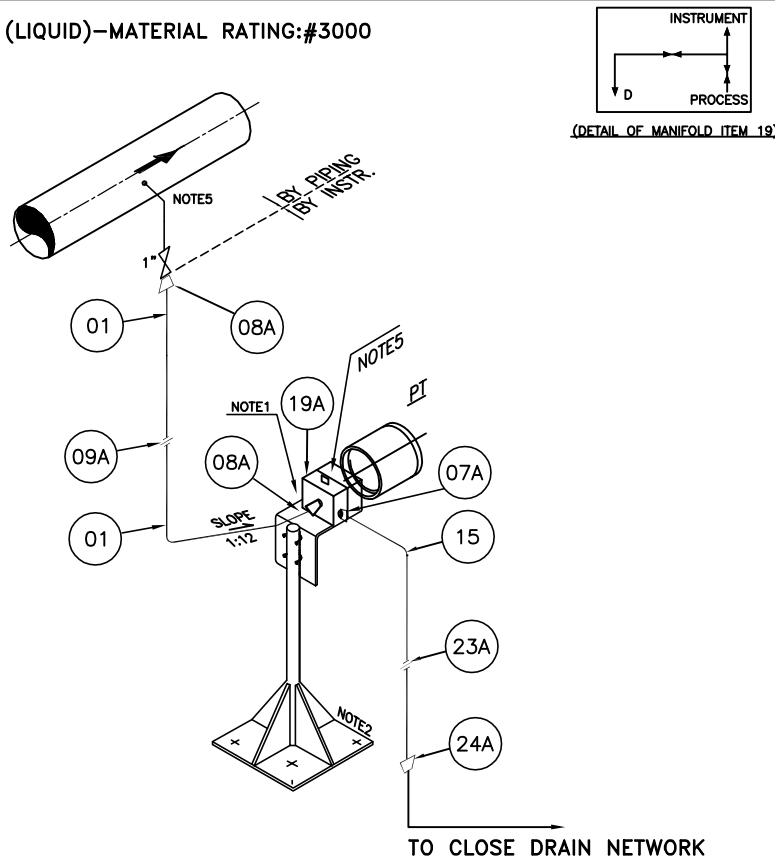
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 25 از 55

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



TAG NUMBERS
PIT-2114A
PIT-2114B
PIT-2301



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.

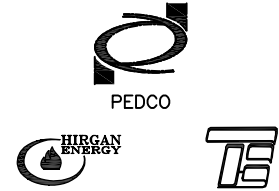
D03

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

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT	QTY	TOTAL	UNIT	REMARK
01	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	10	3	30	M	
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	3	3	PIECES	#3000
08A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	2	3	6	PIECES	#3000
09A	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"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	M	-
19A	3 WAY 2-VALVE MANIFOLD	2 x 1/2" + 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"NPTMx1/4"O.D	AISI 316L SS	1	3	3	PIECES	#3000



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شماره پیمان:

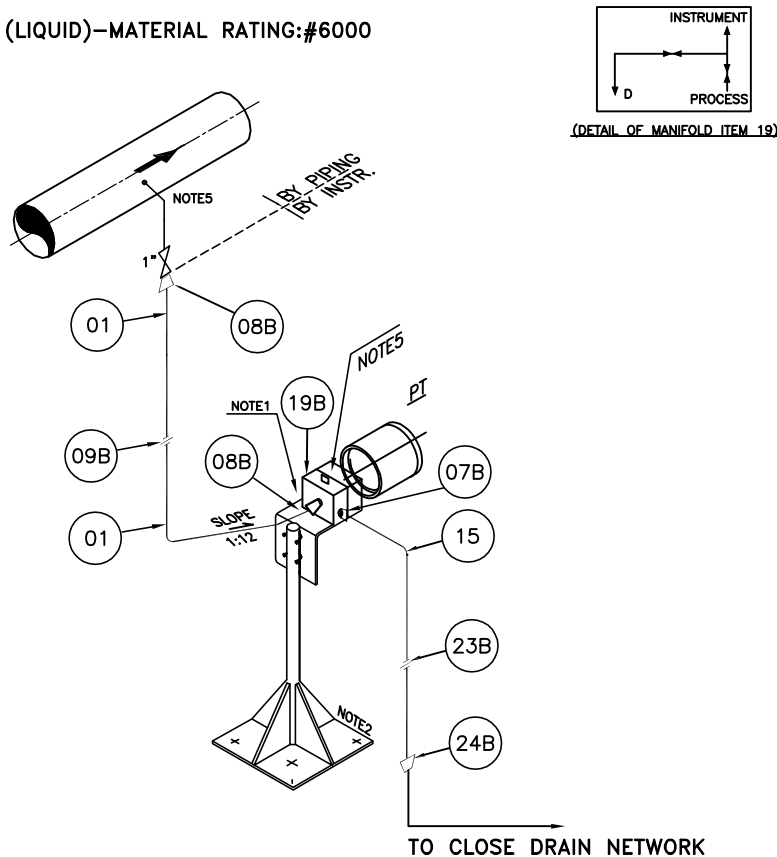
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 26 از 55

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



TAG NUMBERS
PIT-2116A
PIT-2116B

D03

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.

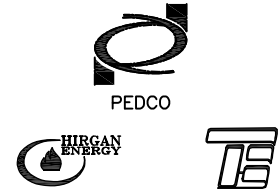
D03

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	2	20	M	
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	2	2	4	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	M	-
19B	3 WAY 2-VALVE MANIFOLD	2 x 1/2" + 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



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شماره پیمان:

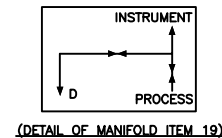
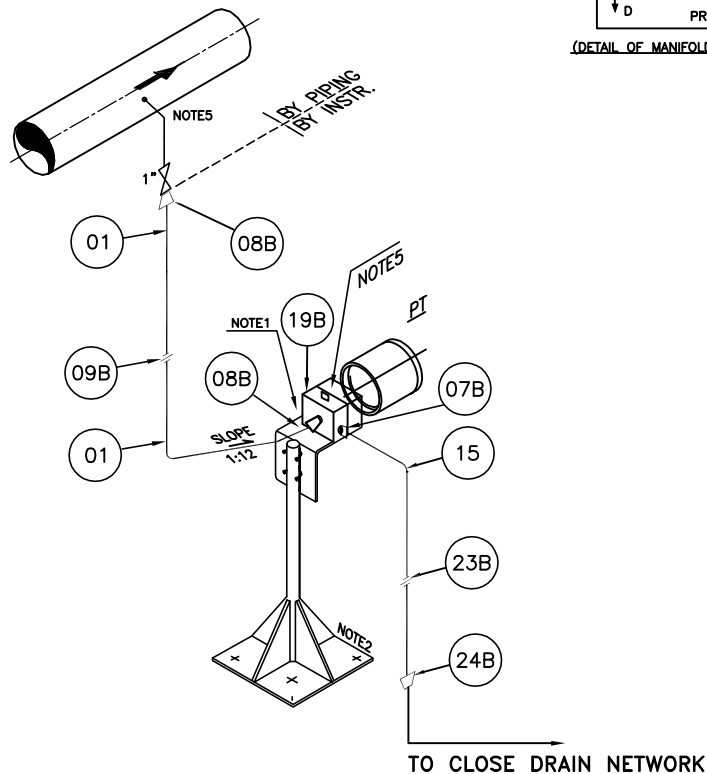
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 27 از 55

PRESSURE TRANSMITTER ON PIPE (LIQUID)-MATERIAL RATING:#9000



TAG NUMBERS

PIT-2251A
PIT-2251B
PIT-2114
PIT-2115

D03

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.

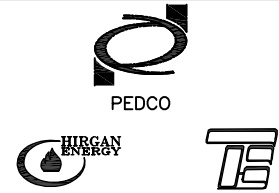
D03

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	40	M	
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"NPTMx1/2"O.D	AISI 316L SS	2	4	8	PIECES	#6000
09B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	1	4	4	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	4	4	M	-
19B	3 WAY 2-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"NPTMx1/4"O.D	AISI 316L SS	1	4	4	PIECES	#6000



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شماره پیمان:

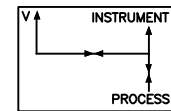
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INSTRUMENT HOOK-UP DIAGRAM

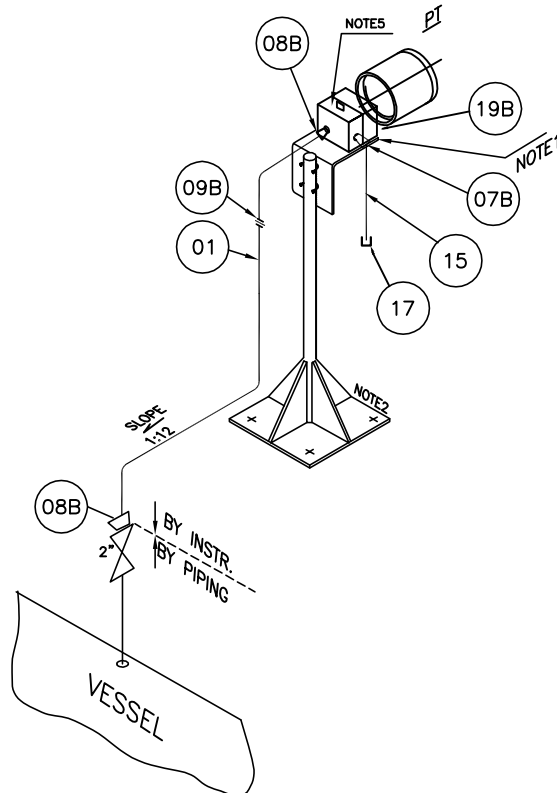
پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 28 از 55

PRESSURE TRANSMITTER ON VESSEL (GAS SERVICE)



TAG NUMBERS
PIT-2117



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.

D03

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	1	10	M	
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	1	1	PIECES	#6000
08B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	2	1	2	PIECES	#6000
09B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	1	1	1	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	1	1	M	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	1	1	PIECES	-
19B	3 WAY 2-VALVE MANIFOLD	2 x 1/2" + 1/4"	AISI 316L SS	1	1	1	PIECES	#6000 BY VENDOR



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شماره پیمان:

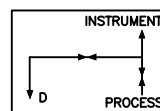
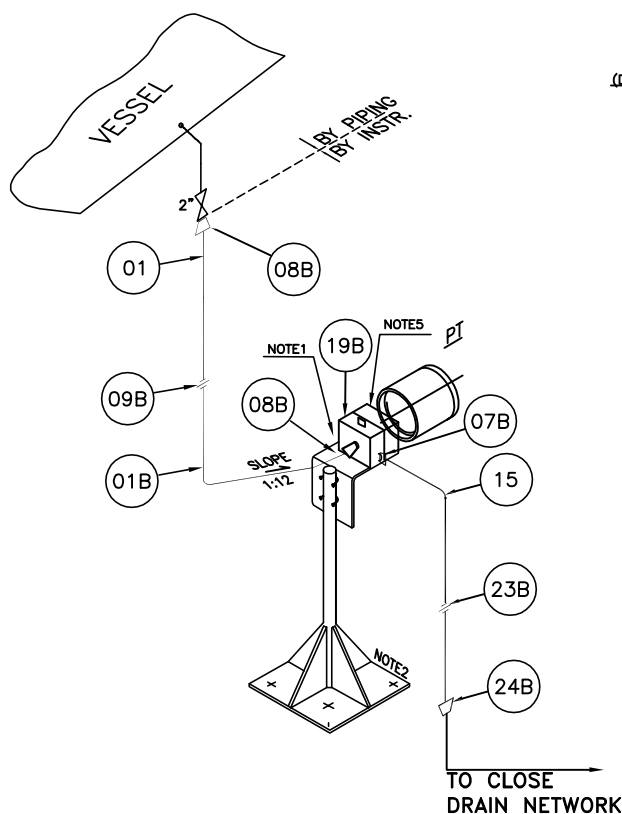
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 29 از 55

PRESSURE TRANSMITTER ON VESSEL (LIQUID SERVICE)



(DETAIL OF MANIFOLD ITEM 19)

TAG NUMBERS

PIT-2161
PIT-2112
PIT-2112

DESCRIPTION : PRESSURE TRANSMITTER (LIQUID SERVICE)

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.

D03

DESCRIPTION : 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	10	3	30	M	
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	3	3	PIECES	#6000
08B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	2	3	6	PIECES	#6000
09B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	1	3	3	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	3	3	M	-
19B	3 WAY 2-VALVE MANIFOLD	2 x 1/2" + 1/4"	AISI 316L SS	1	3	3	PIECES	#6000 BY VENDOR
23B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	3	3	PIECES	#6000
24B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/4"O.D	AISI 316L SS	1	3	3	PIECES	#6000



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شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

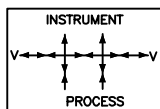
پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 30 از 55

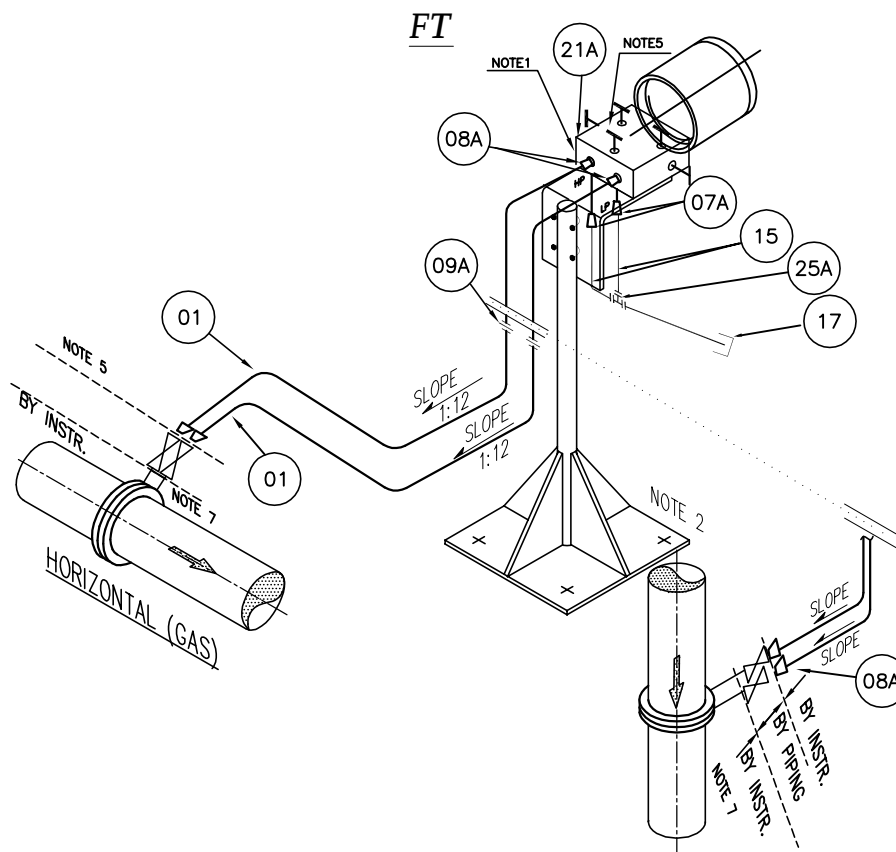
DIFFERENTIAL PRESSURE TRANSMITTER ON PIPE (GAS)-MATERIAL RATING:#3000

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.

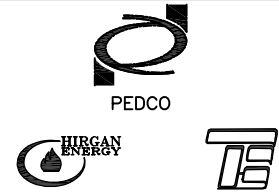
DESCRIPTION : DIFFERENTIAL PRESSURE TRANSMITTER ON PIPE (GAS)- MATERIAL RATING:#3000

D03

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	M	
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"NPTMx1/2"O.D	AISI 316L SS	4	1	4	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	1	1	1	M	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	2	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



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شماره پیمان:

053-073-9184

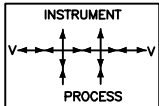
INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

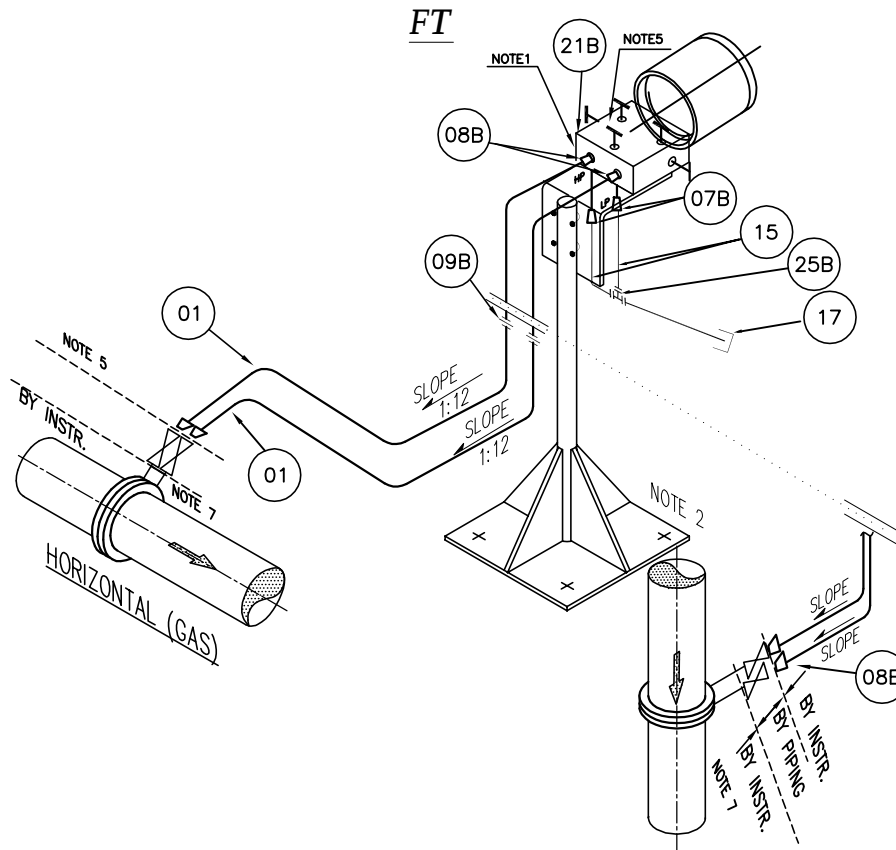
شماره صفحه: 31 از 55

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

TAG NUMBERS
PDIT-2143



(DETAIL OF MANIFOLD ITEM 21)



NOTES:

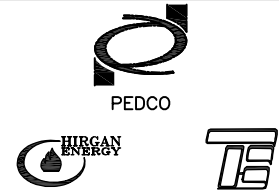
- 1-(5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 5-EACH (5) VALVES MANIFOLD IS DEFINED WITH ONE 1/4"NPTF DRAIN CONNECTION .
- 6-MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO TRANSMITTER.
- 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 (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	M	
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"NPTMx1/2"O.D	AISI 316L SS	4	1	4	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	1	1	1	M	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	2	1	2	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



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شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

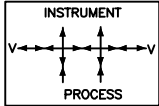
پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 32 از 55

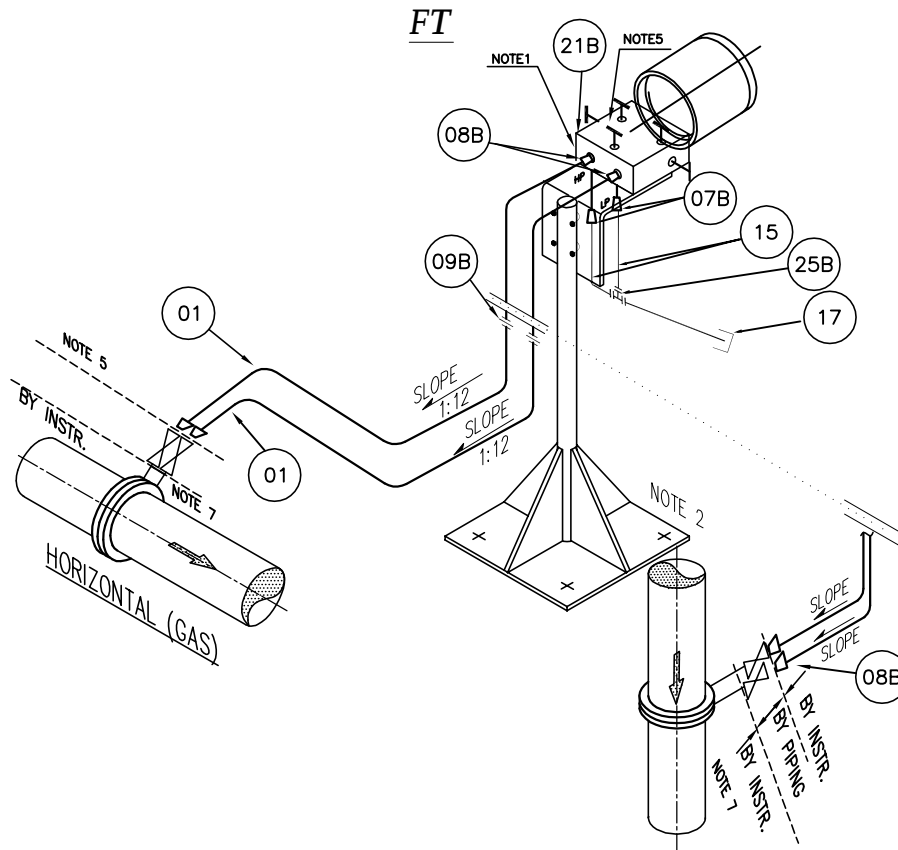
DIFFERENTIAL PRESSURE TRANSMITTER ON PIPE (GAS)-MATERIAL RATING:#9000

TAG NUMBERS

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



(DETAIL OF MANIFOLD ITEM 21)



NOTES:

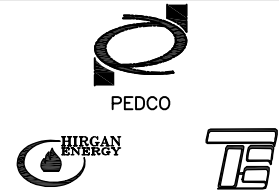
- (5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- EACH (5) VALVES MANIFOLD IS DEFINED WITH ONE 1/4"NPTF DRAIN CONNECTION .
- MANIFOLD SHALL BE SUITABLE FOR CONNECTING TO TRANSMITTER.
- 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 (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	M	
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"NPTMx1/2"O.D	AISI 316L SS	4	3	12	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	1	3	3	M	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	2	3	6	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



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شماره پیمان:

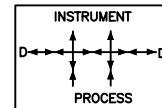
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 33 از 55

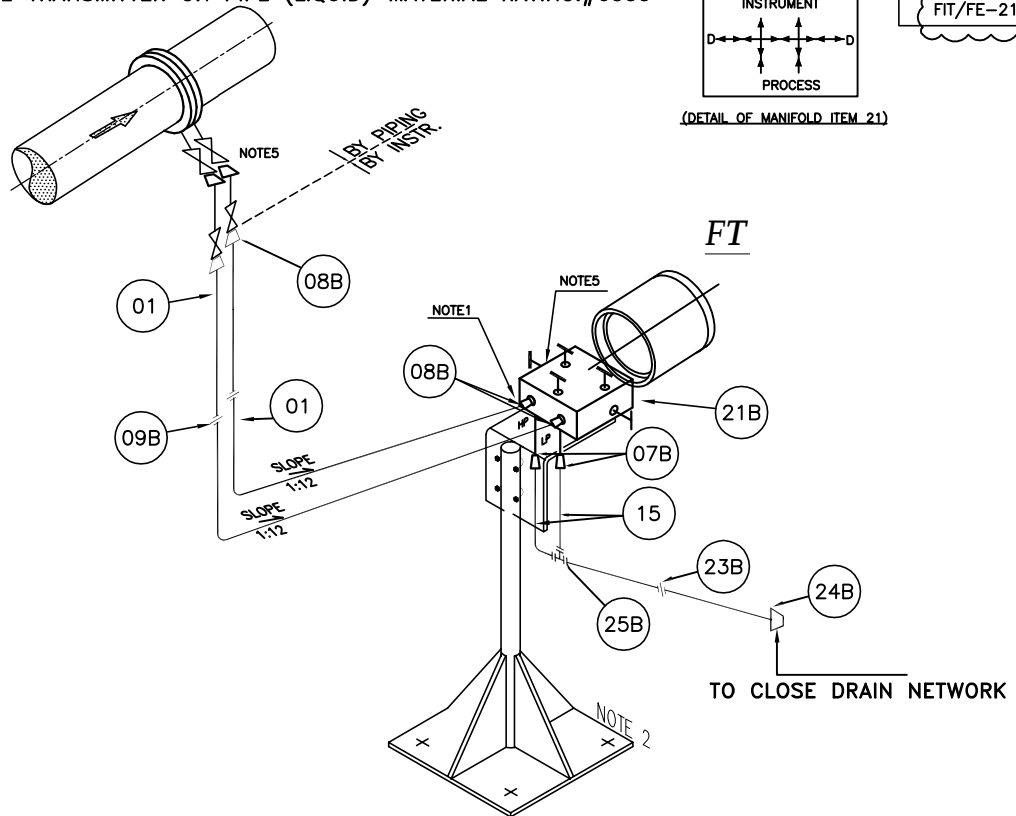
DIFFERENTIAL PRESSURE TRANSMITTER ON PIPE (LIQUID)-MATERIAL RATING:#6000



(DETAIL OF MANIFOLD ITEM 21)

TAG NUMBERS

FIT/FE-2111



NOTES:

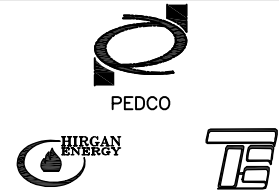
- 1-(5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."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

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	M	
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"NPTMx1/2"O.D	AISI 316L SS	4	1	4	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	1	1	1	M	-
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"NPTMx1/4"O.D	AISI 316L SS	1	1	1	PIECES	#6000
25B	UNION TUBE TEE	1/4"	AISI 316L SS	1	1	1	PIECES	#6000



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شماره پیمان:

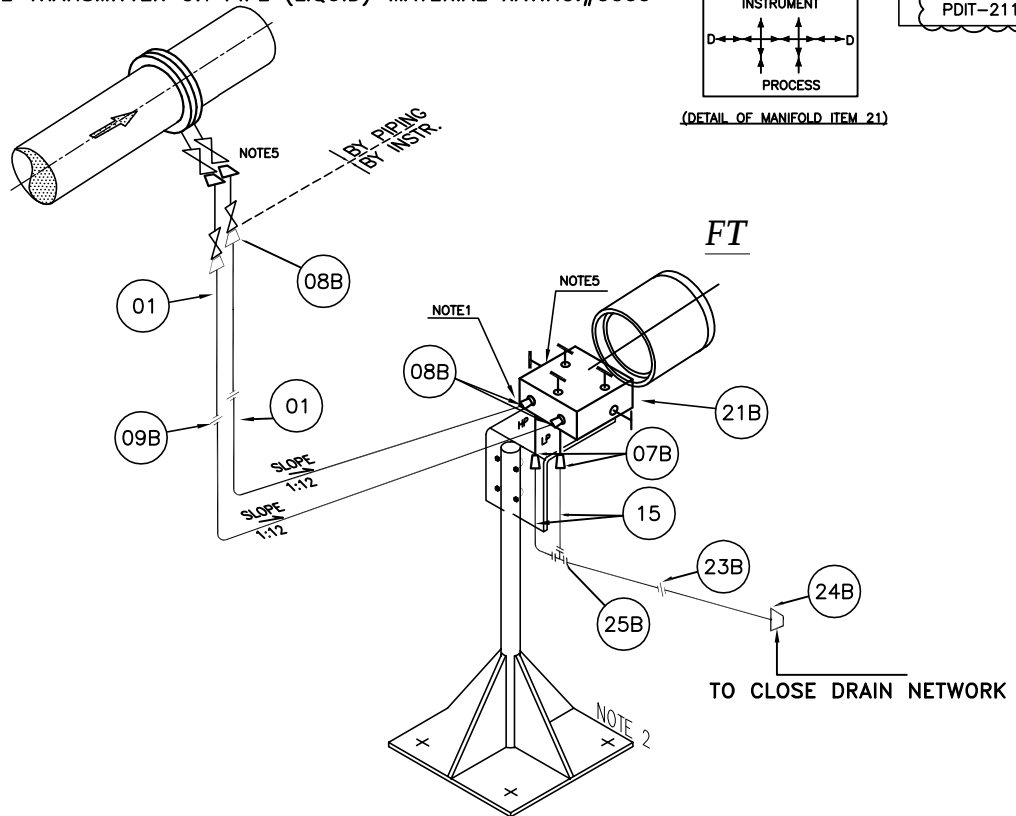
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 34 از 55

DIFFERENTIAL PRESSURE TRANSMITTER ON PIPE (LIQUID)-MATERIAL RATING:#9000



NOTES:

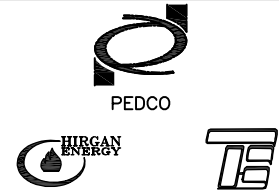
- 1-(5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 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	M	
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"NPTMx1/2"O.D	AISI 316L SS	4	1	4	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	1	1	1	M	-
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"NPTMx1/4"O.D	AISI 316L SS	1	1	1	PIECES	#6000
25B	UNION TUBE TEE	1/4"	AISI 316L SS	1	1	1	PIECES	#6000



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شماره پیمان:

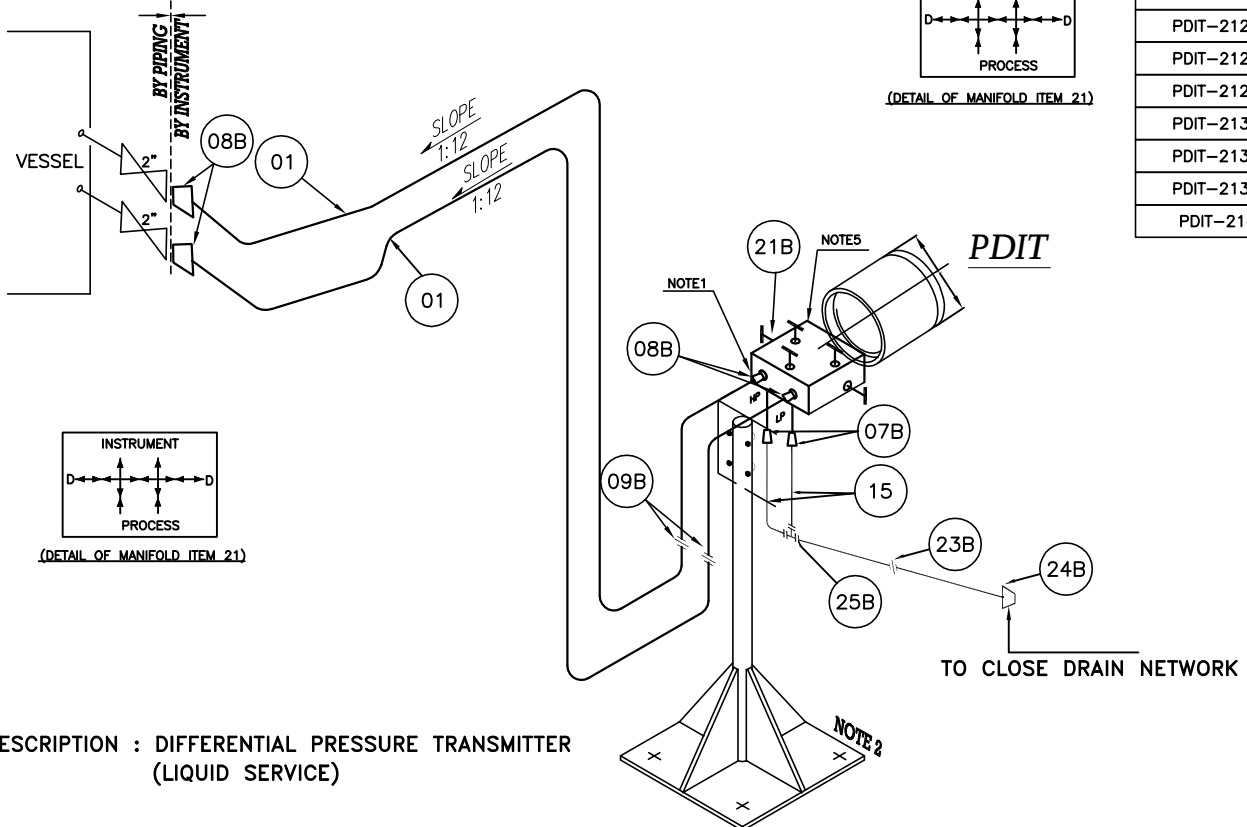
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 35 از 55

DIFFERENTIAL PRESSURE TRANSMITTER ON VESSEL (LIQUID SERVICE)



TAG NUMBERS

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

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	M	
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"NPTMx1/2"O.D	AISI 316L SS	4	8	32	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	1	8	8	M	-
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"NPTMx1/4"O.D	AISI 316L SS	1	8	8	PIECES	#6000
25B	UNION TUBE TEE	1/4"	AISI 316L SS	1	8	8	PIECES	#6000



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شماره پیمان:

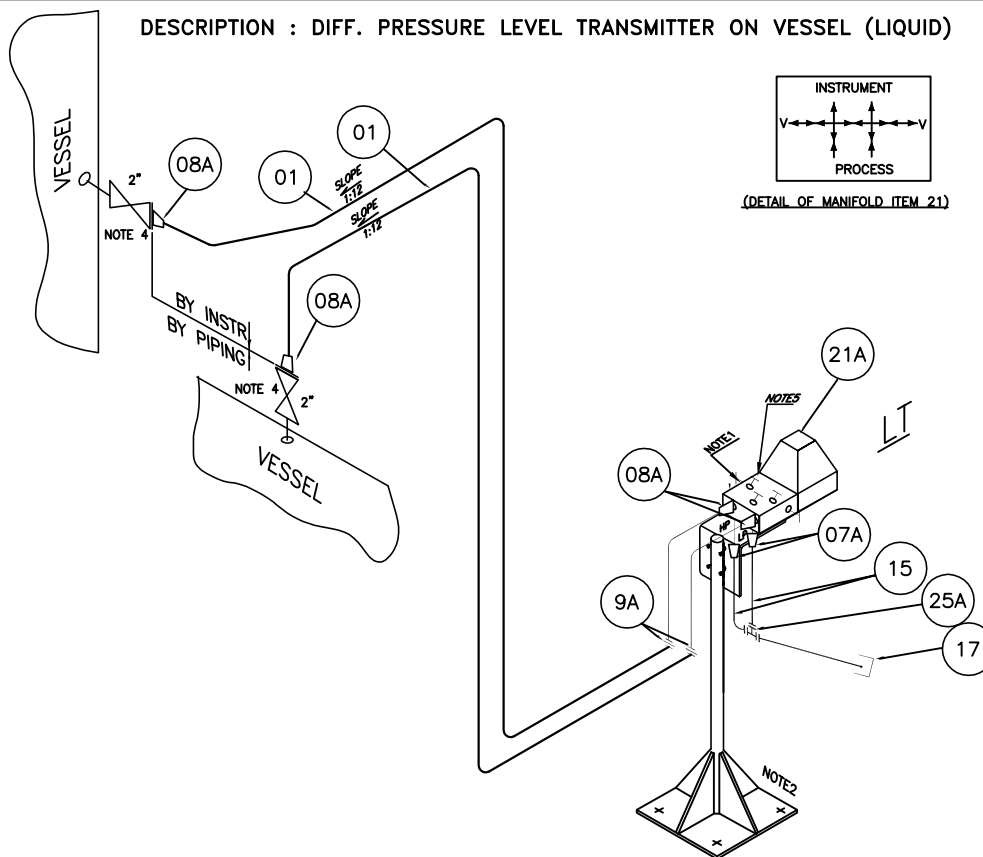
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 36 از 55

DESCRIPTION : DIFF. PRESSURE LEVEL TRANSMITTER ON VESSEL (LIQUID)



TAG NUMBERS

LIT-2161
LIT-2293
LIT-2281
LIT-2291

NOTES:

- (5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- THIS SUPPORT IS TYPICAL. PLEASE REFER TO INSTALLATION DETAILS.
- USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- BLIND FLANGE WITH 1/2" NPT TAPPING, BOLTS & NUTS BY PIPING.
- EACH (5) VALVES MANIFOLD IS DEFINED WITH ONE 1/4"NPTF DRAIN CONNECTION .
- MANIFOLD SHALL BE SUITABLE FOR CONNECT TO TRANSMITTER.

DESCRIPTION : DIFF. PRESSURE LEVEL TRANSMITTER ON VESSEL (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	4	80	M	-
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	2	4	8	PIECES	#3000
08A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	4	4	16	PIECES	#3000
09A	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	2	4	8	PIECES	#3000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	4	4	M	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	4	4	PIECES	-
21A	5 - WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	1	4	4	PIECES	#3000 VY VENDOR
25A	UNION TUBE TEE	1/4"	AISI 316L SS	1	4	4	PIECES	#3000



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شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

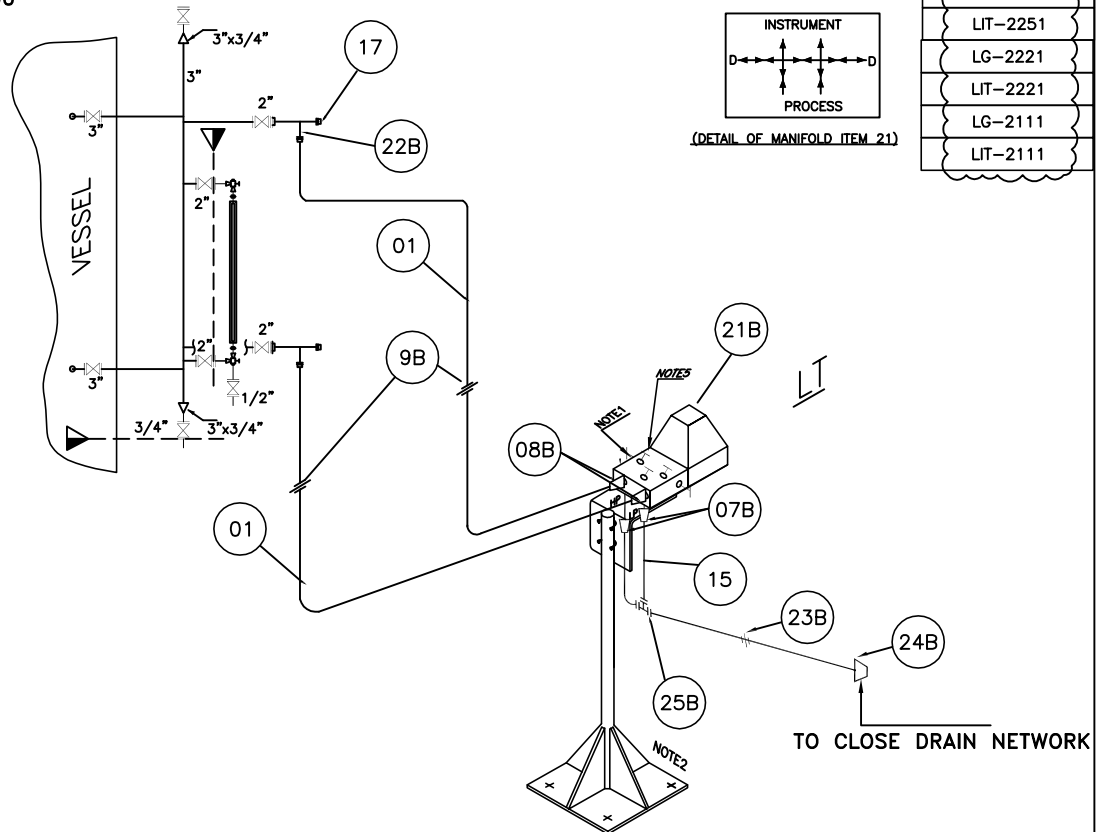
پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 38 از 55

DIFF. PRESSURE LEVEL TRANSMITTER/LEVEL GAUGE-SIDE-SIDE (REFLEX) ON VESSEL (LIQUID)
MATERIAL RATING:#9000

TAG NUMBERS

LG-2251
LIT-2251
LG-2221
LIT-2221
LG-2111
LIT-2111



NOTES:

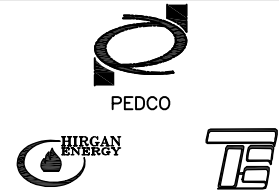
- (5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- THIS SUPPORT IS TYPICAL. PLEASE REFER TO INSTALLATION DETAILS.
- USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- MANIFOLD SHALL BE SUITABLE FOR CONNECT TO TRANSMITTER.
- BLIND FLANGE WITH 1/2" NPT TAPPING, BOLTS & NUTS BY PIPING.

DESCRIPTION : DIFF. PRESSURE LEVEL TRANSMITTER/LEVEL GAUGE-SIDE-SIDE (REFLEX) ON VESSEL (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	3	60	M	-
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"NPTMx1/2"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	1	3	3	M	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	2	3	6	PIECES	-
21B	5 - WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	1	3	3	PIECES	#6000 BY VENDOR
22B	UNION TUBE TEE	1/2"	AISI 316L SS	2	3	6	PIECES	#6000
23B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	3	3	PIECES	#6000
24B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/4"O.D	AISI 316L SS	1	3	3	PIECES	#6000
25B	UNION TUBE TEE	1/4"	AISI 316L SS	1	3	3	PIECES	#6000



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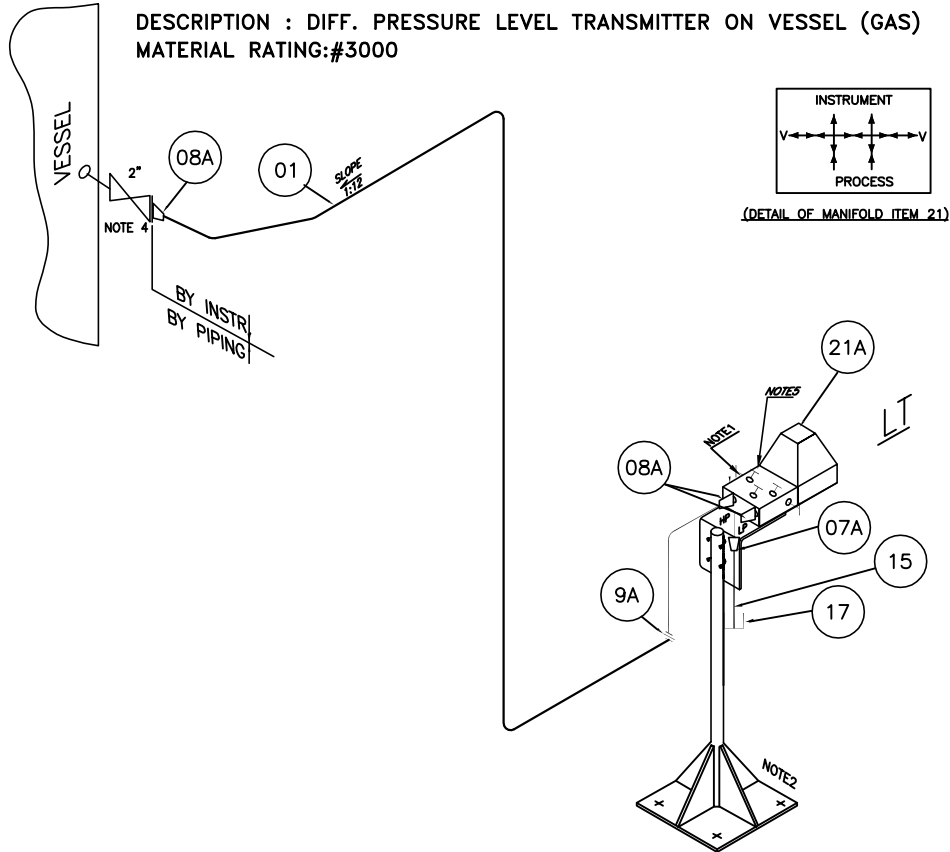


شماره پیمان:
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 39 از 55



TAG NUMBERS

LT-2301

LT-2302

NOTES:

- 1-(5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- 2-TTHIS SUPPORT IS TYPICAL. PLEASE REFER TO INSTALLATION DETAILS.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-BLIND FLANGE WITH 1/2" NPT TAPPING, BOLTS & NUTS BY PIPING.
- 5-EACH (5) VALVES MANIFOLD IS DEFINED WITH ONE 1/4"NPTF DRAIN CONNECTION .
- 6-MANIFOLD SHALL BE SUITABLE FOR CONNECT TO TRANSMITTER.

DESCRIPTION : DIFF. PRESSURE LEVEL TRANSMITTER ON VESSEL (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	2	20	M	
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	2	2	PIECES	#3000
08A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	2	2	4	PIECES	#3000
09A	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	1	2	2	PIECES	#3000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	2	2	M	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	2	2	PIECES	-
21A	5 - WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	1	2	2	PIECES	#3000 BY VENDOR



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شماره پیمان:

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INSTRUMENT HOOK-UP DIAGRAM

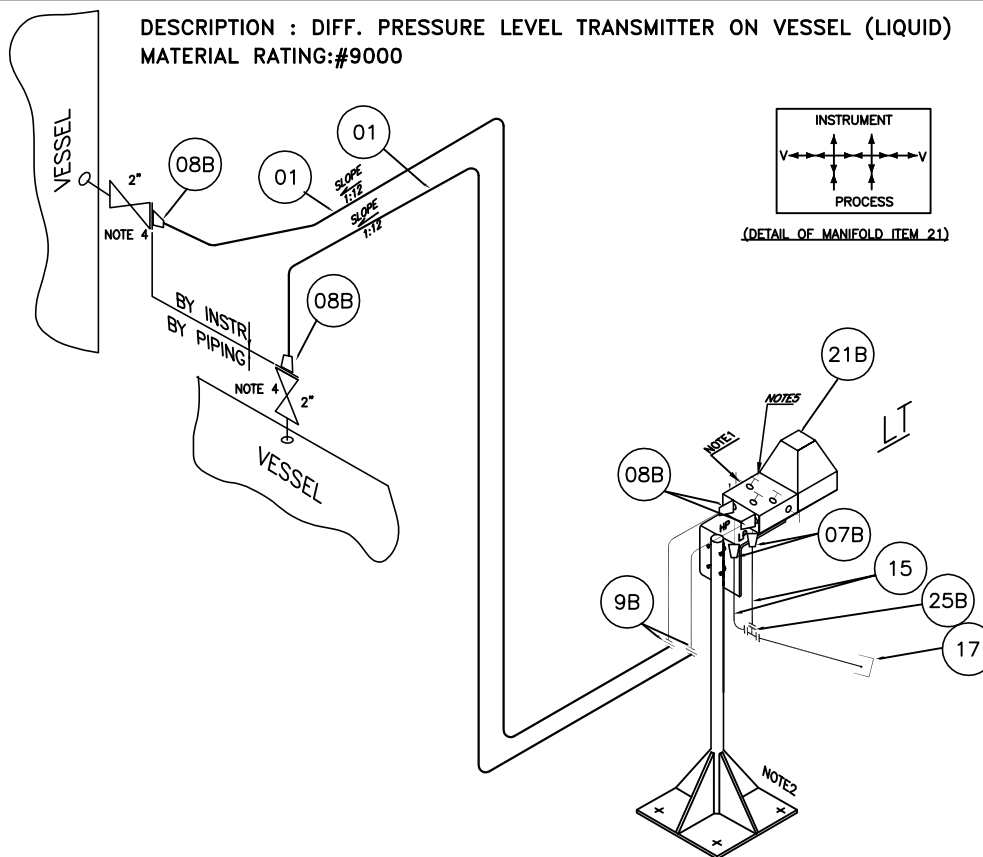
پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 40 از 55

DESCRIPTION : DIFF. PRESSURE LEVEL TRANSMITTER ON VESSEL (LIQUID)
MATERIAL RATING:#9000

TAG NUMBERS

LIT-2112



NOTES:

- 1-(5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- 2-THIS SUPPORT IS TYPICAL. PLEASE REFER TO INSTALLATION DETAILS.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-BLIND FLANGE WITH 1/2" NPT TAPPING, BOLTS & NUTS BY PIPING.
- 5-EACH (5) VALVES MANIFOLD IS DEFINED WITH ONE 1/4"NPTF DRAIN CONNECTION .
- 6-MANIFOLD SHALL BE SUITABLE FOR CONNECT TO TRANSMITTER.

D03

DESCRIPTION : DIFF. PRESSURE LEVEL TRANSMITTER ON VESSEL (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	M	
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"NPTMx1/2"O.D	AISI 316L SS	4	1	4	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	1	1	1	M	-
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



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شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

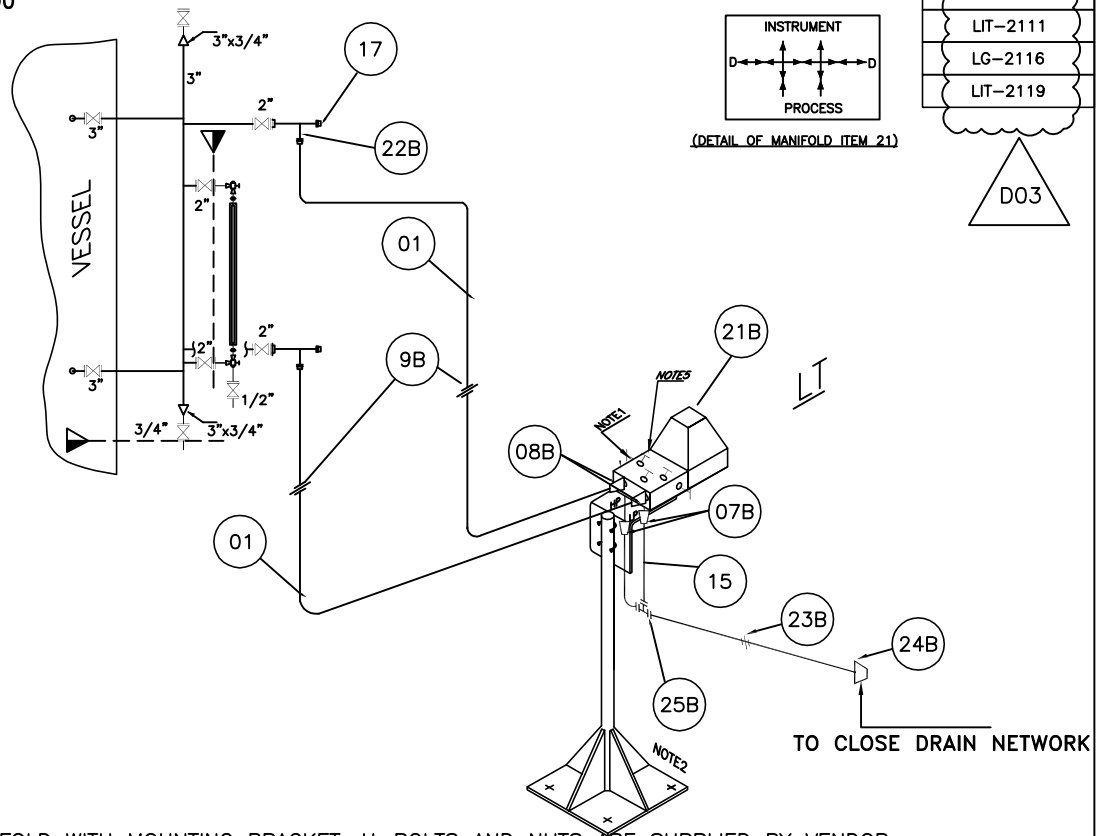
شماره صفحه: 41 از 55

DIFF. PRESSURE LEVEL TRANSMITTER/LEVEL GAUGE-SIDE-SIDE (REFLEX) ON VESSEL (LIQUID)
MATERIAL RATING: #9000

TAG NUMBERS

LG-2111
LIT-2111
LG-2116
LIT-2119

D03



NOTES:

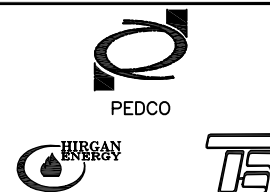
- 1-(5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- 2-THE SUPPORT IS TYPICAL. PLEASE REFER TO INSTALLATION DETAILS.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-MANIFOLD SHALL BE SUITABLE FOR CONNECT TO TRANSMITTER.
- 5-BLIND FLANGE WITH 1/2" NPT TAPPING, BOLTS & NUTS BY PIPING.

DESCRIPTION : DIFF. PRESSURE LEVEL TRANSMITTER/LEVEL GAUGE-SIDE-SIDE (REFLEX) ON VESSEL (LIQUID)-MATERIAL RATING: #6000

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT	QTY	TOTAL	UNIT	REMARK
01	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	20	2	40	M	-
07B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	2	2	4	PIECES	#6000
08B	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	2	2	4	PIECES	#6000
09B	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	2	2	4	PIECES	#6000
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1	2	2	M	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	2	2	4	PIECES	-
21B	5 - WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	1	2	2	PIECES	#6000 BY VENDOR
22B	UNION TUBE TEE	1/2"	AISI 316L SS	2	2	4	PIECES	#6000
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
25B	UNION TUBE TEE	1/4"	AISI 316L SS	1	2	2	PIECES	#6000



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شماره پیمان:

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INSTRUMENT HOOK-UP DIAGRAM

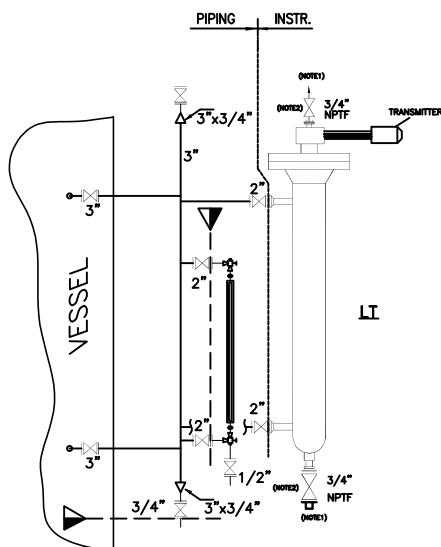
پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 42 از 55

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

TAG NUMBERS

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



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

NOTES:

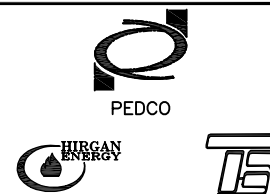
- 1-SUITABLE CONNECTION TO OPEN DRAIN & VENT TO SAFE LOCATION TO BE CONSIDERED IN THIS PROJECT.
- 2-COCK VALVE, VENT & DRAIN VALVE, FLANGE GASKETS, BOLTS & NUTS BY INSTR. VENDOR.
- 3-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."

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

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK



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شماره پیمان:

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INSTRUMENT HOOK-UP DIAGRAM

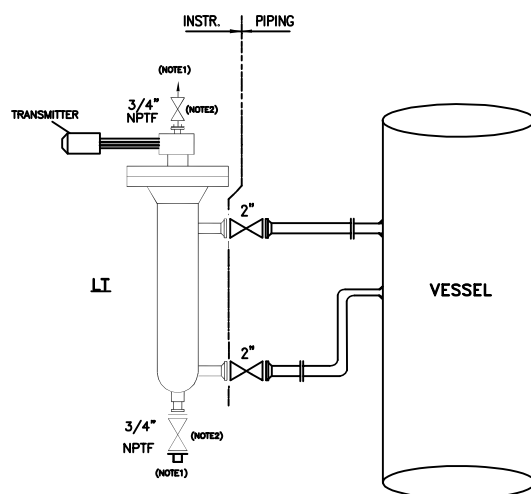
پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 43 از 55

DISPLACER LEVEL TRANS. (DIRECT CONNECTION)

TAG NUMBERS

LIT-2118
LIT-2122A
LIT-2122A
LIT-2122C
LIT-2253
LIT-2252A
LIT-2252B
LIT-2252C
LIT-2117
LIT-2132A
LIT-2132B
LIT-2132C
LIT-2142
LIT-2272



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

NOTES:

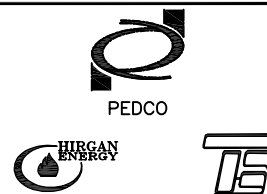
- 1-SUITABLE CONNECTION TO OPEN DRAIN & VENT TO SAFE LOCATION TO BE CONSIDERED IN THIS PROJECT.
- 2-COCK VALVE, VENT & DRAIN VALVE, FLANGE GASKETS, BOLTS & NUTS BY INSTR. VENDOR.
- 3-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."

DESCRIPTION : DISPLACER LEVEL TRANS.(DIRECT CONNECTION)

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK



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شماره پیمان:

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INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 44 از 55

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

TAG NUMBERS

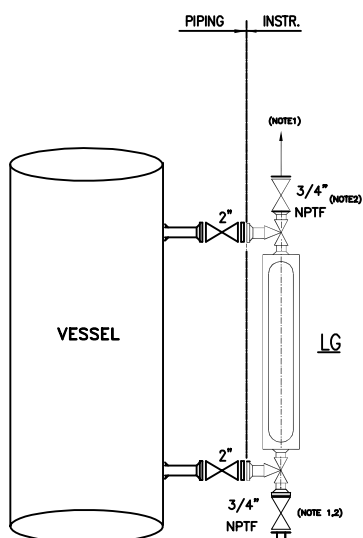
LG ONLY

LG-2201

LG-2211

LG-2281A

LG-2281B



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

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

NOTES:

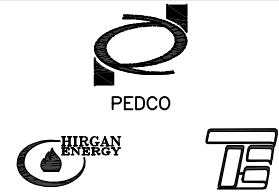
- 1-SUITABLE CONNECTION TO OPEN DRAIN & VENT TO SAFE LOCATION TO BE CONSIDERED IN THIS PROJECT.
- 2-COCK VALVE, VENT & DRAIN VALVE, FLANGE GASKETS, BOLTS & NUTS BY INSTR. VENDOR.
- 3-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."

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

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK



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شماره پیمان:

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INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

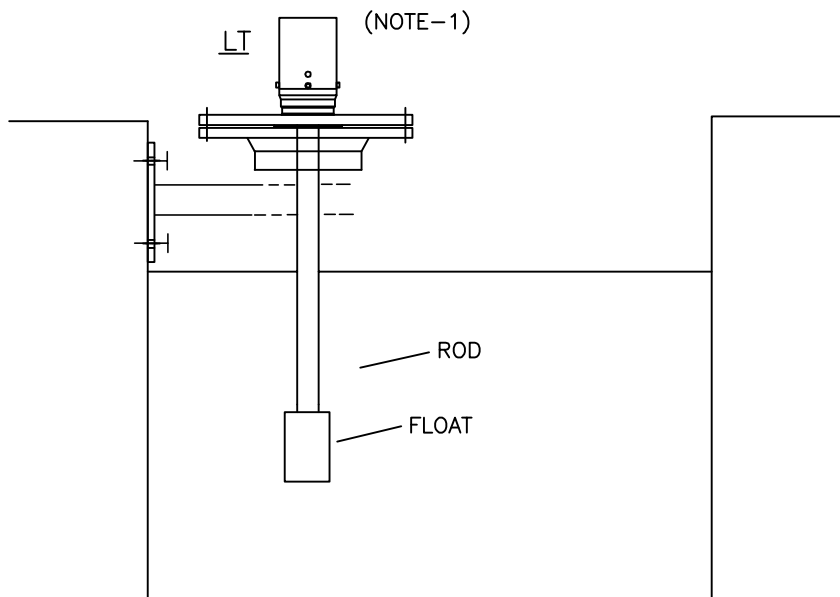
شماره صفحه: 45 از 55

FLOAT LEVEL TRANS. - TOP MOUNTED (INTERNAL)

TAG NUMBERS

LIT-2223

LIT-2273



NOTE:

1- THERE IS NO CONNECTION WITH PIPING DEPARTMENT.

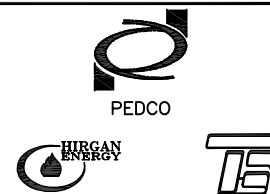
2- FOR INSTALLATION ACCESSORIES REFER TO DETAILS OF SUPPORT INSTALLATION BK-GCS-PEDCO-120-IN-DW-0001

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

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK



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شماره پیمان:

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INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 46 از 55

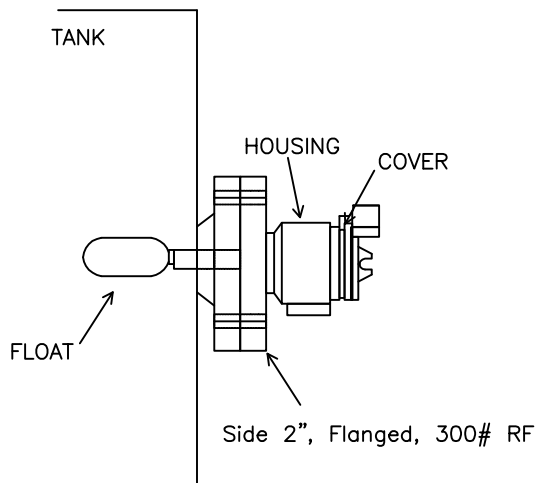
FLOAT LEVEL SWITCH - SIDE MOUNTED



TAG NUMBERS

LSLL-2301

LSLL-2302



NOTE:

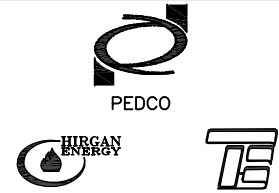
1- THERE IS NO CONNECTION WITH PIPING DEPARTMENT.

DESCRIPTION : FLOAT LEVEL SWITCH - SIDE MOUNTED

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK



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053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

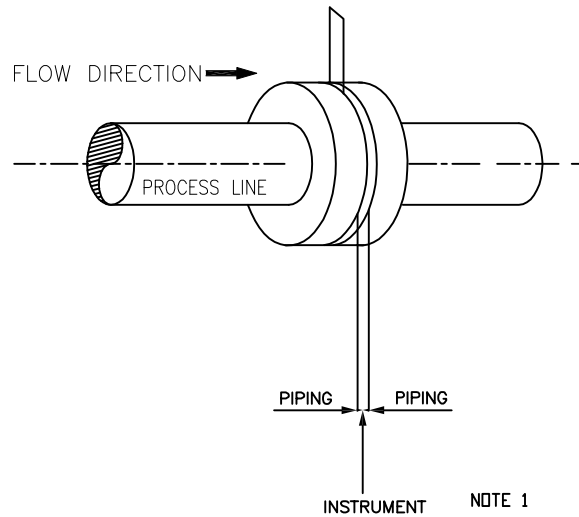
پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 47 از 55

RESTRICTION ORIFICE PLATE

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.

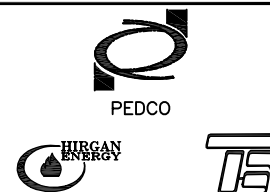
2-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."

DESCRIPTION : RESTRICTION ORIFICE PLATE

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
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شماره پیمان:

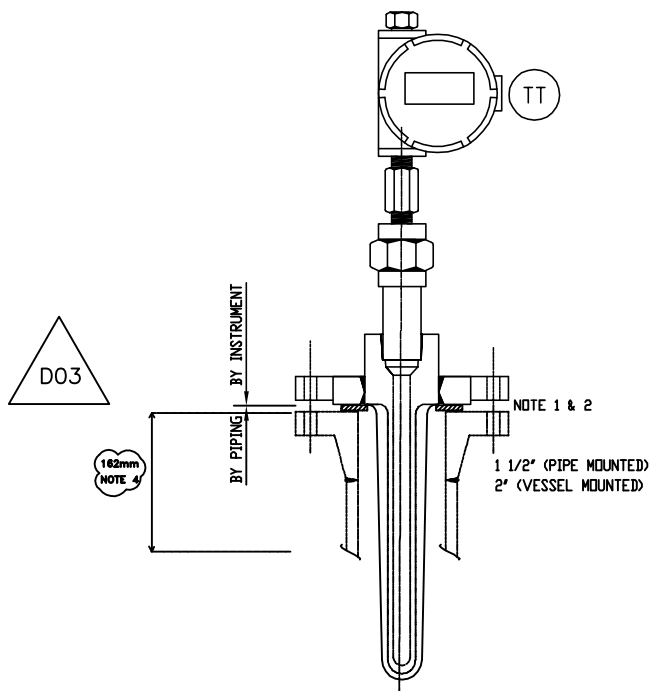
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 49 از 55

TEMPERATURE TRANSMITTER



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



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شماره پیمان:

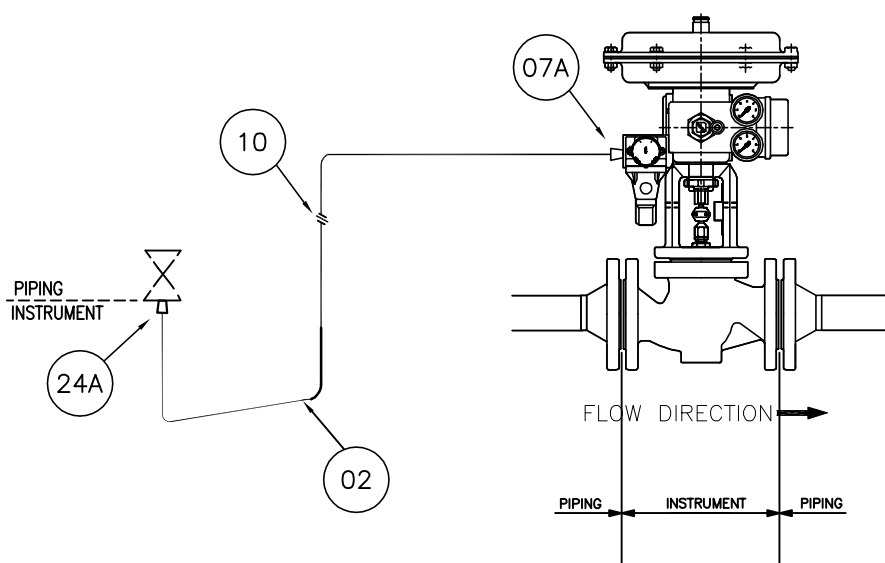
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 50 از 55

CONTROL VALVE



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:

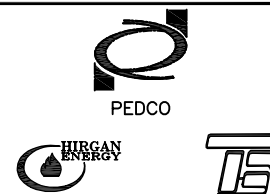
1-FLANGE, GASKET, BOLTS & NUTS BY PIPING.

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	M	
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	15	15	PIECES	#3000
10	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"NPTMx1/4"O.D	AISI 316L SS	1	15	15	PIECES	#3000



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شماره پیمان:

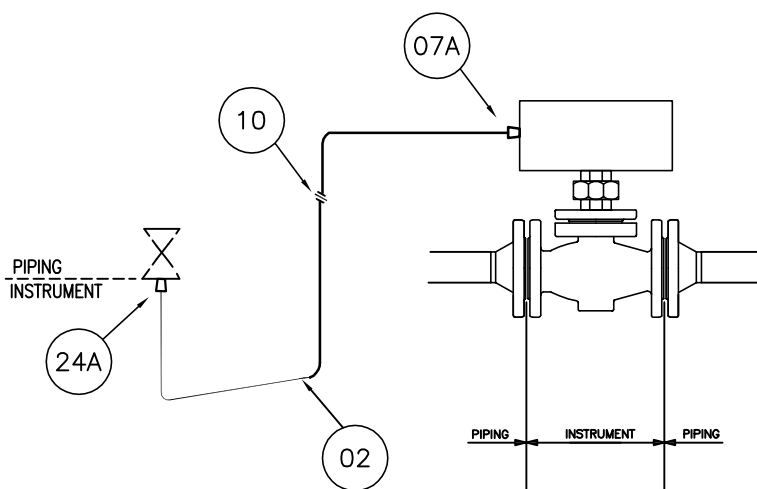
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 51 از 55

ON/OFF VALVE



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.

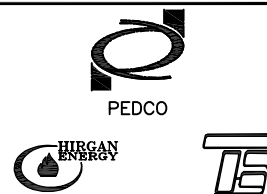


DESCRIPTION : CONTROL VALVE

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	31	310	M	
07A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	31	31	PIECES	#3000
10	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4" O.D.	AISI 316L SS	1	31	31	PIECES	
24A	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/4"O.D	AISI 316L SS	1	31	31	PIECES	#3000



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شماره پیمان:

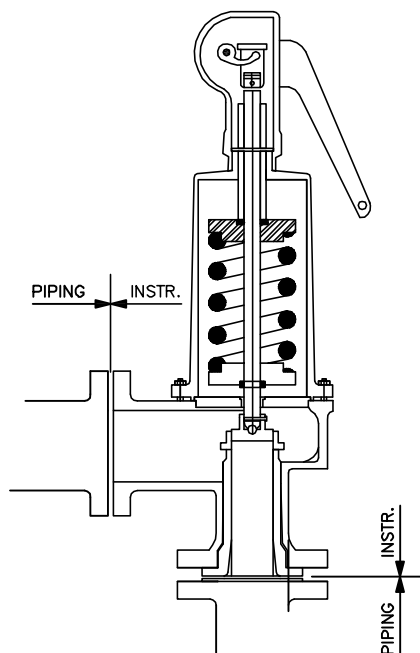
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

نسخه	سریال	نوع مدرک	رشته	تسهيلات	صادرکننده	بسته کاری	پروژه
D03	0002	DG	IN	120	PEDCO	GCS	BK

شماره صفحه: 52 از 55

SAFETY & RELIEF VALVE



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:

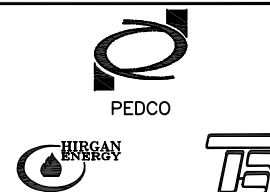
1-FLANGE, GASKET, BOLTS & NUTS BY PIPING.

DESCRIPTION : SAFETY & RELIEF VALVE

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK



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

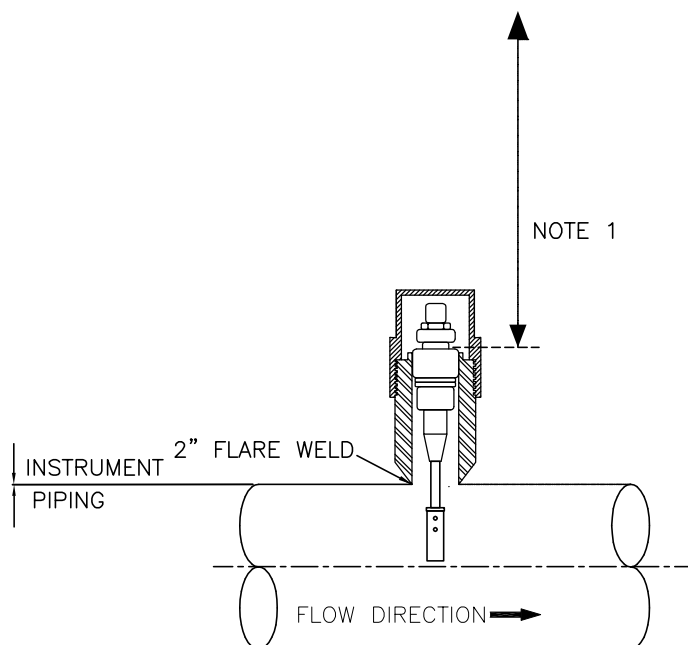
پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

شماره صفحه: 53 از 55

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

TAG NUMBERS

CC-2101
CC-2102
CC-2111
CC-2112
CC-2141
CC-2151
CC-2162
CC-2271



NOTES:

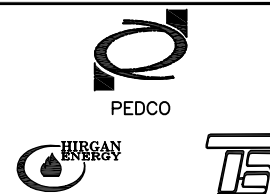
- 1-DDETAILS TO BE FINALIZED AS PER VENDOR DATA.
- 2-DDETAILS SHALL BE DETERMINED BY PIPING.
- 3-FREE SPACE FOR REMOVAL OF ACCESS FITTING AND RETRIEVAL SYSTEM TO BE CONSIDERED.

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
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شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D03

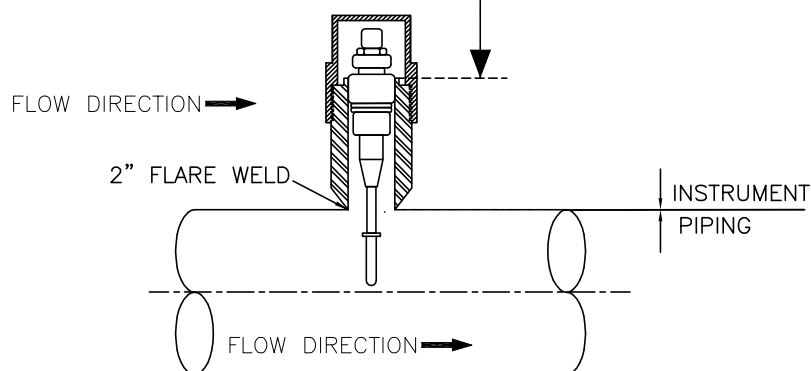
شماره صفحه: 54 از 55

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

TAG NUMBERS

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

NOTE 1



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

