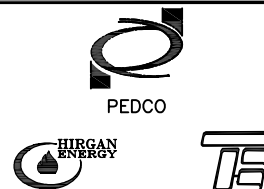




پروژه نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 01 از 39

طرح نگهداشت و افزایش تولید ۲۷ مخزن

INSTRUMENT HOOK-UP DIAGRAM

نگهداشت و افزایش تولید میدان نفتی بینک

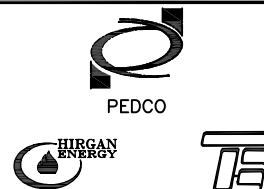
D02	OCT.2022	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D01	JUN.2022	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D00	MAR.2022	IFC	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
REV.	DATE	PURPOSE OF ISSUE/STATUS	PREPARED BY:	CHECKED BY:	APPROVED BY:	CLIENT APPROVAL
CLASS:2		CLIENT Doc. Number:F2J-708945				

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
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 02 از 39

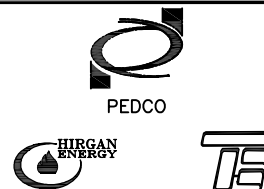
نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D02	0002	DG	IN	120	PEDCO	GCS	BK

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					34		X	X				
2	X	X	X					35			X				
3	X	X	X					36			X				
4	X	X	X					37			X				
5	X	X	X					38			X				
6	X	X						39			X				
7	X	X	X					40							
8	X	X	X					41							
9	X	X						42							
10	X	X	X					43							
11	X	X	X					44							
12	X	X	X					45							
13	X	X	X					46							
14	X	X	X					47							
15	X	X	X					48							
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17	X	X	X					50							
18	X	X	X					51							
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25	X	X	X					58							
26	X	X	X					59							
27	X		X					60							
28	X		X					61							
29	X		X					62							
30	X		X					63							
31	X		X					64							
32		X	X					65							
33		X	X					66							



پروژه نگهداشت و افزایش تولید میدان نفتی بینک
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شماره پیمان:

053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 03 از 39

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D02	0002	DG	IN	120	PEDCO	GCS	BK

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



شماره پیمان:

053-073-9184

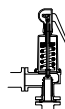
INSTRUMENT HOOK-UP DIAGRAM

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D02	0002	DG	IN	120	PEDCO	GCS	BK

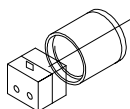
شماره صفحه: 06 از 39



PRESSURE GAUGE



SAFETY VALVE



PRESSURE TRANSMITTER



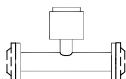
CONTROL VALVE



PRESSURE SWITCH



CORROSION COUPON



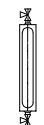
ULTRASONIC FLOWMETER



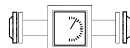
ON/OFF VALVE



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



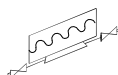
UNION



TEMPERATURE TRANSMITTER



TUBE CAP



DIAPHRAGM SEAL



CONNECTOR



TEMPERATURE SWITCH



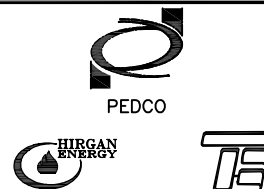
3-WAY 2 VALVES MANIFOLD
FOR PRESSURE GAUGES

 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>پروژه</th><th>بسته کاری</th><th>صادرکننده</th><th>تهیلات</th><th>رشته</th><th>نوع مدرک</th><th>سریال</th><th>نسخه</th></tr><tr><td>BK</td><td>GCS</td><td>PEDCO</td><td>120</td><td>IN</td><td>DG</td><td>0002</td><td>D02</td></tr></table>	INSTRUMENT HOOK-UP DIAGRAM								پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه	BK	GCS	PEDCO	120	IN	DG	0002	D02	شماره صفحه: 07 از 39
INSTRUMENT HOOK-UP DIAGRAM																										
پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه																			
BK	GCS	PEDCO	120	IN	DG	0002	D02																			

02	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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INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 08 از 39

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D02	0002	DG	IN	120	PEDCO	GCS	BK

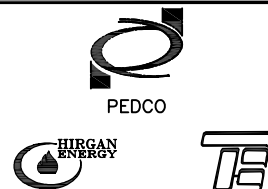


REFERENCE DOCUMENTS/STANDARDS

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 (Golkhari)	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-GNRAL-PEDCO-000-IN-SP-0001_D04
53	Instrument & Control System Design Criteria	BK-GCS-PEDCO-120-IN-DC-0002_D01



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شماره پیمان:

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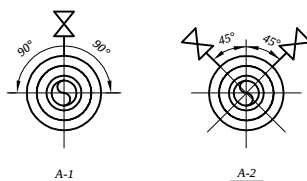
INSTRUMENT HOOK-UP DIAGRAM

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D02	0002	DG	IN	120	PEDCO	GCS	BK

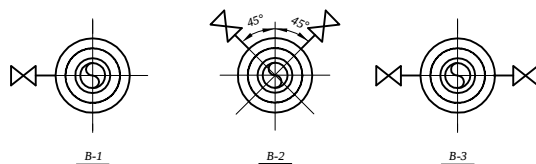
شماره صفحه: 09 از 39

TAP VALVE ORIENTATION (UP STREAM VIEW)

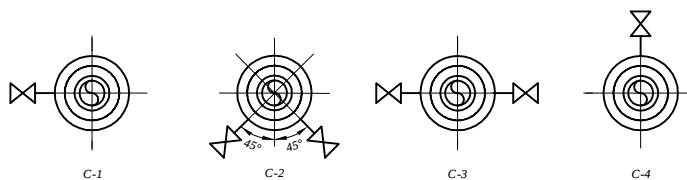
TYPE : A



TYPE : B



TYPE : C



NOTE :

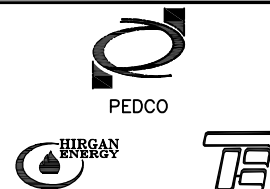
TYPE : A ----- GAS SERVICE

TYPE : B ----- STEAM SERVICE

TYPE : C ----- LIQUID SERVICE



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شماره پیمان:

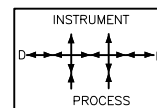
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D02

شماره صفحه: 16 از 39

PRESSURE DIFFERENTIAL GAUGE ON VESSEL (LIQUID SERVICE)

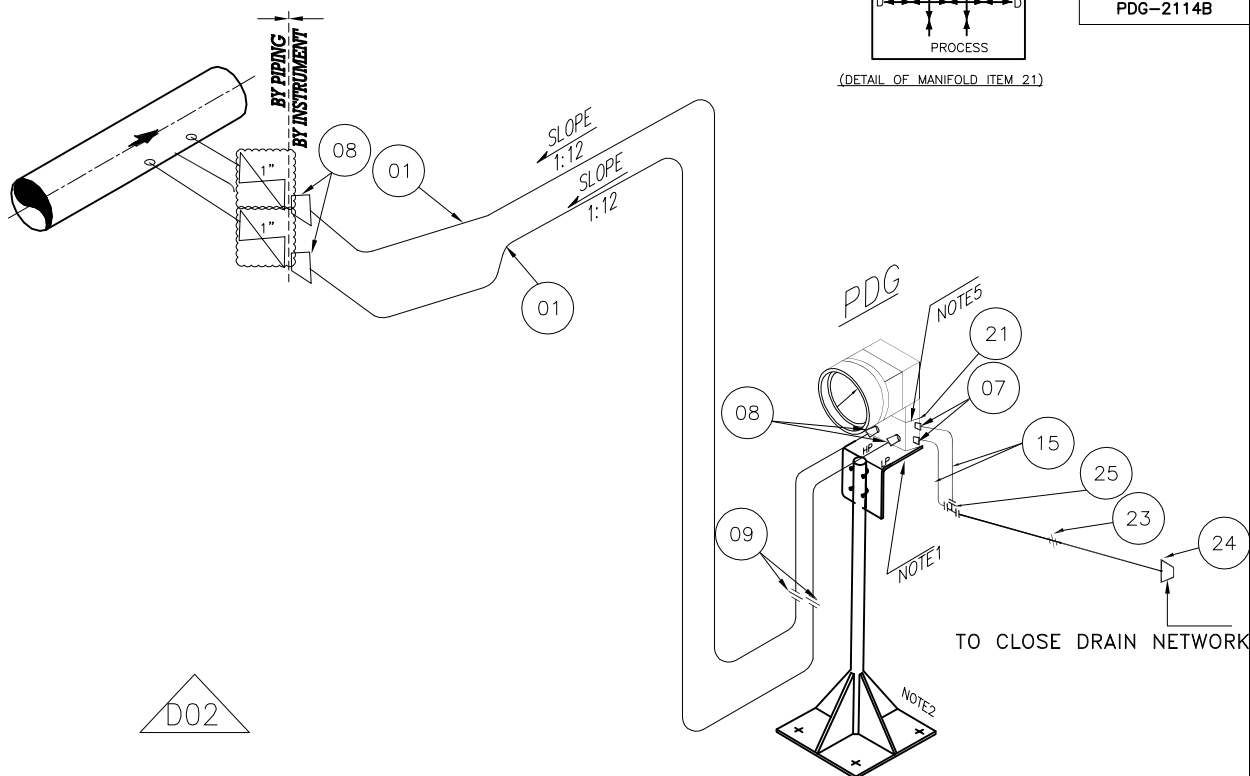


(DETAIL OF MANIFOLD ITEM 21)

TAG NUMBERS

PDG-2114A

PDG-2114B



NOTES:

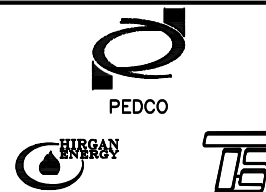
- 1-(5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."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

DESCRIPTION : PRESSURE DIFFERENTIAL GAUGE ON VESSEL (LIQUID)

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
1	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	20	2	40	M	
07	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	2	2	4	PIECE S	-
08	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	4	2	8	PIECE S	-
09	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	2	2	4	PIECE S	-
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	10	2	20	M	-
								-
21	5- WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	1	2	2	PIECE S	-
23	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	2	2	PIECE S	-
24	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/4"O.D	AISI 316L SS	1	2	2	PIECE S	-
25	UNION TUBE TEE	1/4"	AISI 316L SS	1	2	2	PIECE S	-



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شماره پیمان:

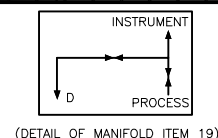
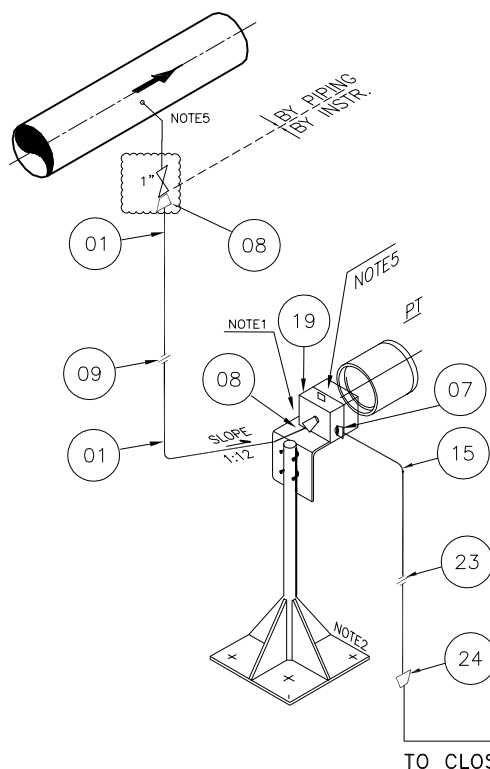
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 18 از 39

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D02

PRESSURE TRANSMITTER ON PIPE (LIQUID SERVICE)



TAG NUMBERS

PIT-2114A
PIT-2114B
PIT-2116A
PIT-2116B
PIT-2114
PIT-2115
PIT-2251A
PIT-2251B
PIT-2301

NOTES:

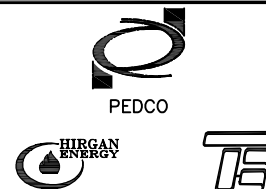
- 1-VLVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY TRANSMITTER VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING, DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."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

DESCRIPTION : PRESSURE TRANSMITTER ON PIPE (LIQUID)

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
1	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	10	9	90	M	
07	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	9	9	PIECE S	-
08	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	2	9	18	PIECE S	-
09	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	1	9	9	PIECE S	-
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	10	9	90	M	-
								-
19	3 WAY 2-VALVE MANIFOLD	2 x1/2"+ 1/4"	AISI 316L SS	1	9	9	PIECE S	BY VENDOR
23	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	9	9	PIECE S	
24	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/4"O.D	AISI 316L SS	1	9	9	PIECE S	



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شماره پیمان:

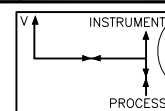
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D02

شماره صفحه: 19 از 39

PRESSURE TRANSMITTER ON VESSEL (GAS SERVICE)

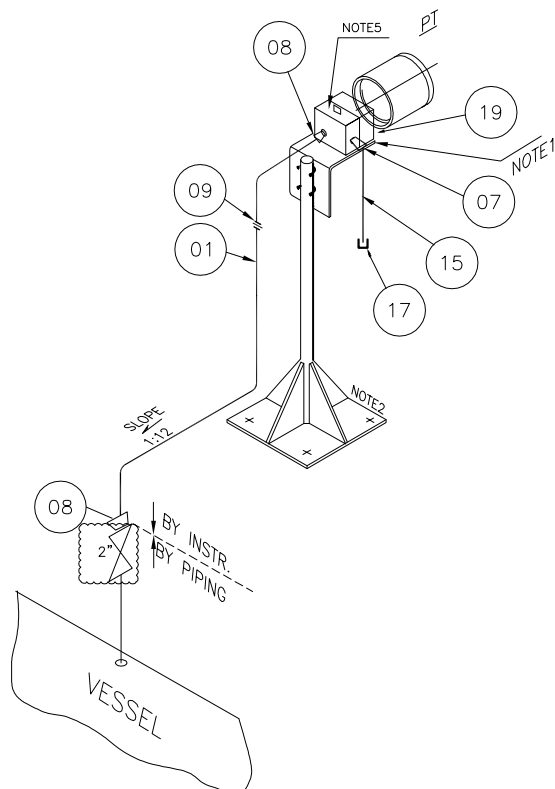


(DETAIL OF MANIFOLD ITEM 19)

TAG NUMBERS

PIT-2112

PIT-2117



NOTES:

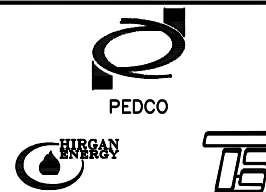
- 1-VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY TRANSMITTER VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."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

DESCRIPTION : PRESSURE TRANSMITTER ON VESSEL (GAS)

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
1	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	10	2	20	M	
07	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	1	2	2	PIECE S	-
08	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	2	2	4	PIECE S	-
09	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	1	2	2	PIECE S	-
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	1.00	2	2.0000	M	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	1	2	2	PIECE S	-
19	3 WAY 2-VALVE MANIFOLD	2 x 1/2" + 1/4"	AISI 316L SS	1	2	2	PIECE S	BY VENDOR



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شماره پیمان:

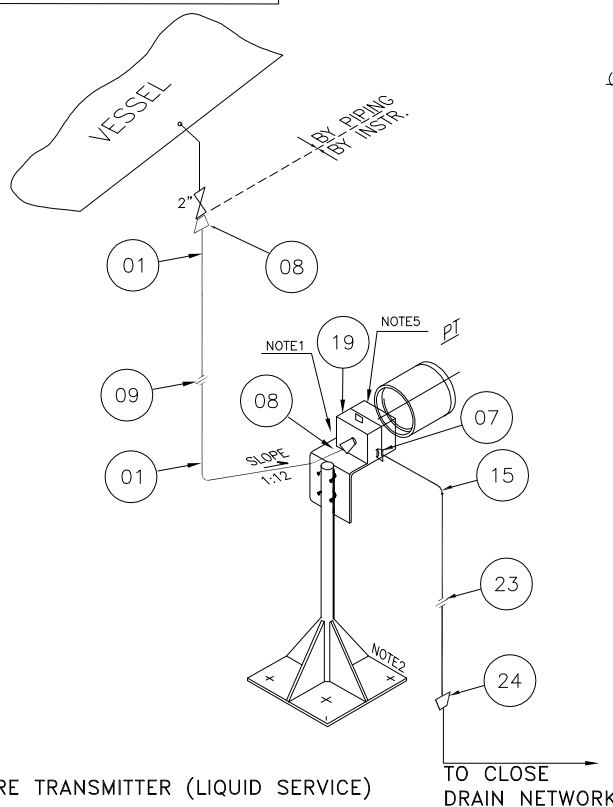
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

پروژه	بسته کاری	صادرکننده	نهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D02

شماره صفحه: 20 از 39

PRESSURE TRANSMITTER ON VESSEL (LIQUID SERVICE)



DESCRIPTION : PRESSURE TRANSMITTER (LIQUID SERVICE)

NOTES:

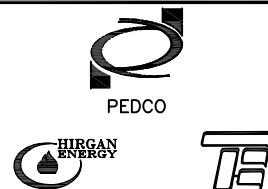
- 1-VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY TRANSMITTER VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING, DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."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

DESCRIPTION : PRESSURE TRANSMITTER ON VESSEL (LIQUID)

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



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شماره پیمان:

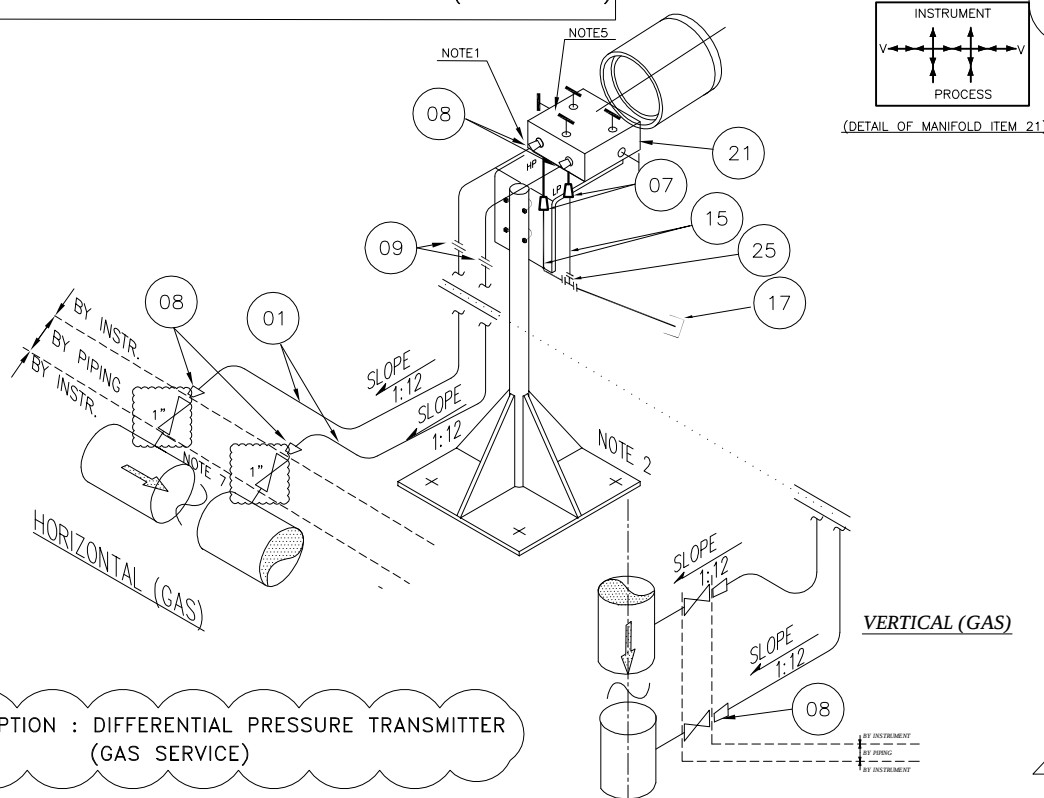
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

شماره صفحه: 21 از 39

نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه
D02	0002	DG	IN	120	PEDCO	GCS	BK

DIFFERENTIAL PRESSURE TRANSMITTER ON PIPE (GAS SERVICE)



DESCRIPTION : DIFFERENTIAL PRESSURE TRANSMITTER (GAS 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 PIPE (GAS)

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
1	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	20	2	40	M	
07	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	2	2	4	PIECE S	-
08	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	4	2	8	PIECE S	-
09	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	2	2	4	PIECE S	-
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	PIECE S	-
21	5 - WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	1	2	2	PIECE S	-
25	UNION TUBE TEE	1/4"	AISI 316L SS	1	2	2	PIECE S	-



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شماره پیمان:

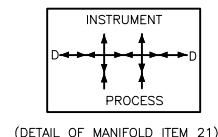
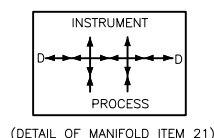
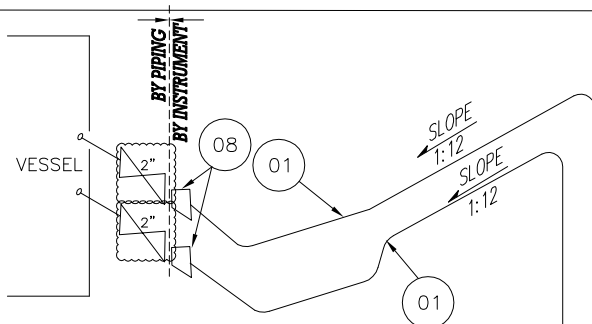
053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

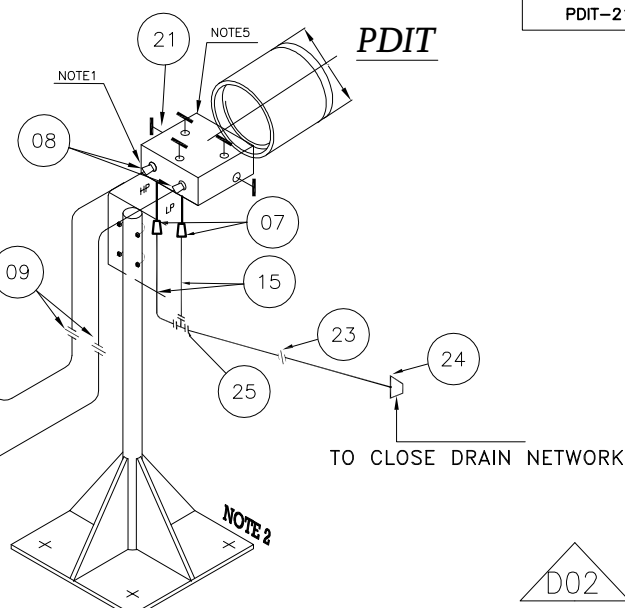
پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D02

شماره صفحه: 22 از 39

DIFFERENTIAL PRESSURE TRANSMITTER ON VESSEL (LIQUID SERVICE)



(DETAIL OF MANIFOLD ITEM 21)



TAG NUMBERS

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

DESCRIPTION : DIFFERENTIAL PRESSURE TRANSMITTER (LIQUID SERVICE)

NOTES:

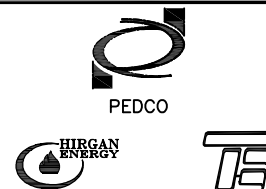
- 1-(5) VALVES MANIFOLD WITH MOUNTING BRACKET, U-BOLTS AND NUTS ARE SUPPLIED BY VENDOR.
- 2-FOR DETAILS OF SUPPORT INSTALLATION REFER TO BK-GCS-PEDCO-120-IN-DW-0001.
- 3-USE OF UNION SHALL BE AVOIDED WHEREVER POSSIBLE.
- 4-FOR PIPING CONNECTION REFER TO PIPING ASSEMBLY DRAWING. DOC NO."BK-GCS-PEDCO-120-PI-DW-0002."
- 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
1	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	20	8	160	M	
07	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	2	8	16	PIECE S	-
08	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	4	8	32	PIECE S	-
09	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D	AISI 316L SS	2	8	16	PIECE S	-
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	10	8	80	M	-
								-
21	5 - WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	1	8	8	PIECE S	-
23	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	8	8	PIECE S	-
24	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/4"O.D	AISI 316L SS	1	8	8	PIECE S	-
25	UNION TUBE TEE	1/4"	AISI 316L SS	1	8	8	PIECE S	-



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053-073-9184

INSTRUMENT HOOK-UP DIAGRAM

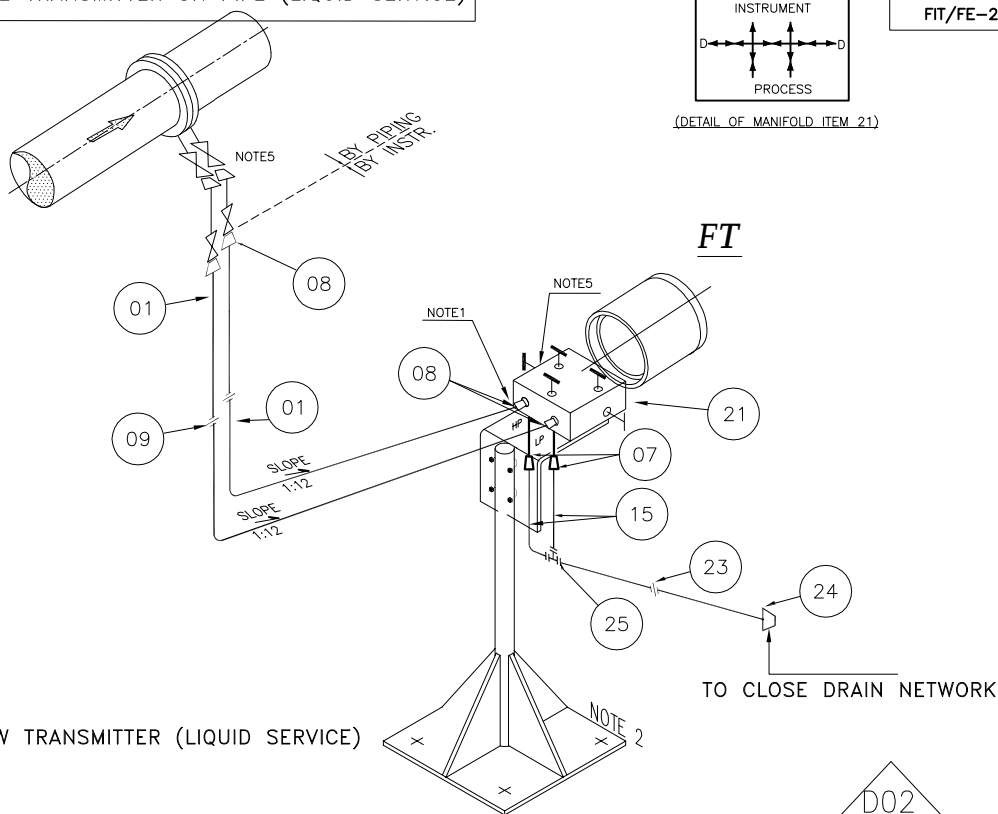
پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D02

شماره صفحه: 24 از 39

DIFFERENTIAL PRESSURE TRANSMITTER ON PIPE (LIQUID SERVICE)

TAG NUMBERS

FIT/FE-2111



DESCRIPTION : FLOW 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.

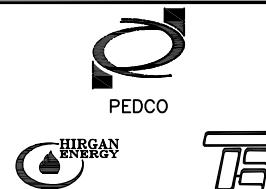
DESCRIPTION : DIFFERENTIAL PRESSURE TRANSMITTER ON PIPE (LIQUID)

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

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شماره پیمان:

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INSTRUMENT HOOK-UP DIAGRAM

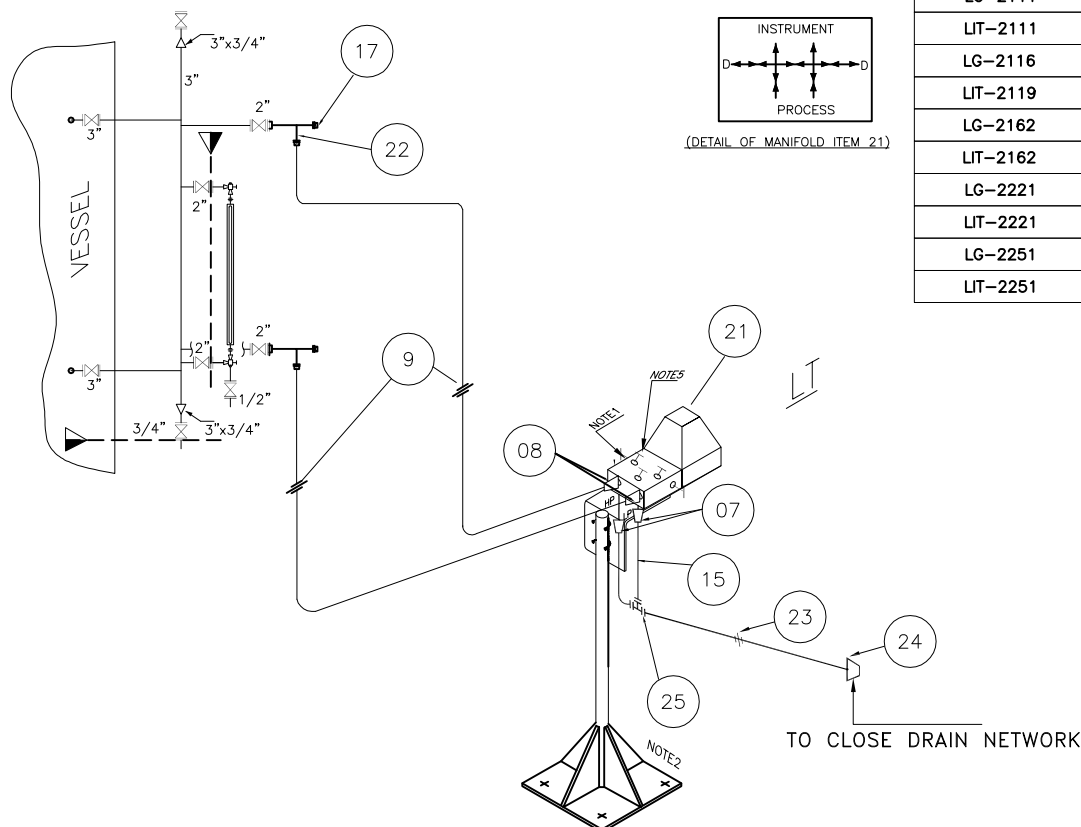
شماره صفحه: 31 از 39

پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DG	0002	D02

DIFF. PRESSURE LEVEL TRANSMITTER/LEVEL GAUGE-SIDE-SIDE (REFLEX) ON VESSEL (LIQUID)

TAG NUMBERS

LG-2111
LIT-2111
LG-2116
LIT-2119
LG-2162
LIT-2162
LG-2221
LIT-2221
LG-2251
LIT-2251



D02

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)

CODE	DESCRIPTION	SIZE	MATERIAL	UNIT QTY	QTY	TOTAL QTY	UNIT	REMARK
1	TUBING, SEAMLESS, WALL THICKNESS 0.065"	1/2"O.D	AISI 316L SS	20	5	100	M	
07	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/4"NPTMx1/4"O.D	AISI 316L SS	2	5	10	PIECES	-
08	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/2"O.D	AISI 316L SS	2	5	10	PIECES	-
09	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/2"O.D.	AISI 316L SS	2	5	10	PIECES	-
15	TUBING, SEAMLESS, WALL THICKNESS 0.049"	1/4"O.D.	AISI 316L SS	10	5	50	M	-
17	TUBE CAP	1/4"O.D.	AISI 316L SS	2	7	14	PIECES	-
21	5 - WAY VALVE MANIFOLD	2 X 1/2" + 1/4"	AISI 316L SS	1	5	5	PIECES	-
22	UNION TUBE TEE	1/2"	AISI 316L SS	2	5	10	PIECES	-
23	STRAIGHT UNION COMPRESSION TYPE DOUBLE FERRULE	1/4"O.D.	AISI 316L SS	1	5	5	PIECES	-
24	DOUBLE FERRULE COMPRESSION TYPE MALE CONNECTOR	1/2"NPTMx1/4"O.D	AISI 316L SS	1	5	5	PIECES	-
25	UNION TUBE TEE	1/4"	AISI 316L SS	1	5	5	PIECES	-

