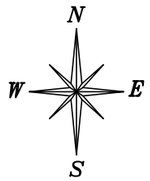
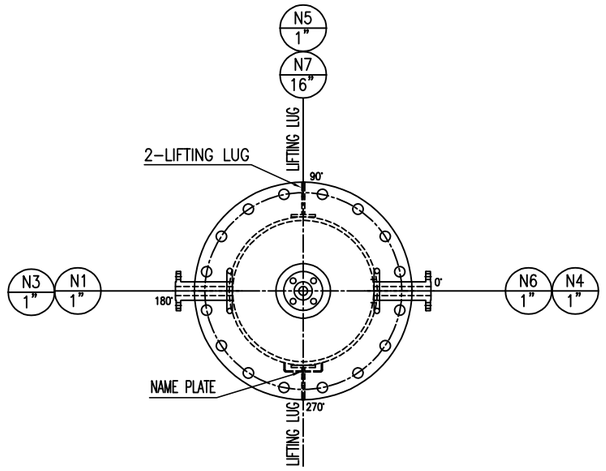
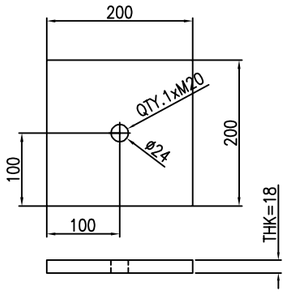
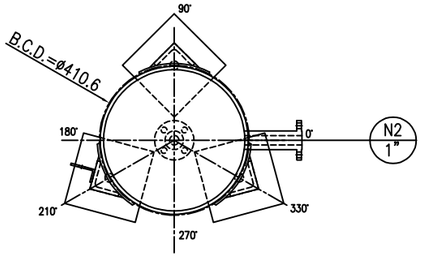




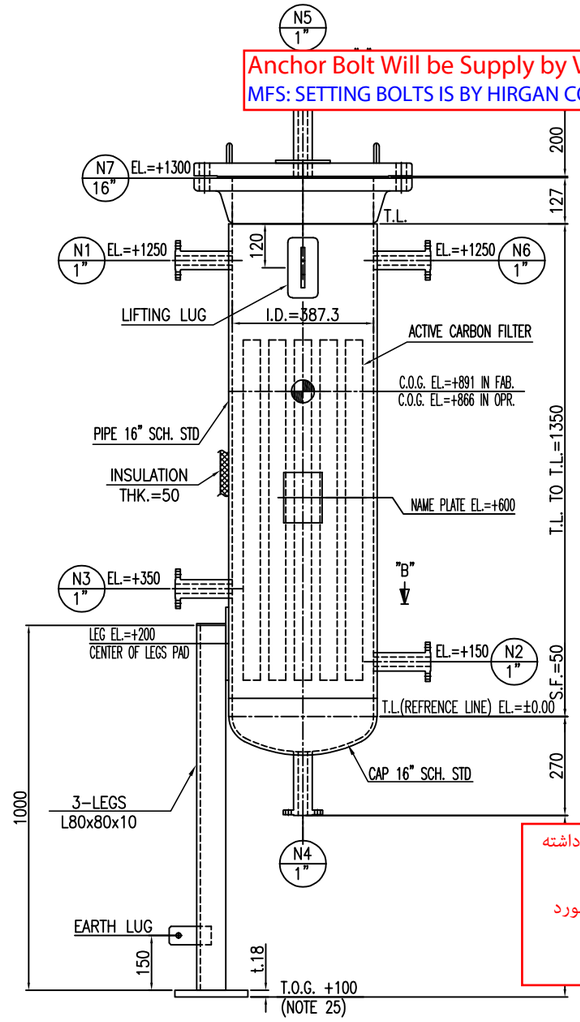
VIEW "A"
SCALE 1:16



BASE PLATE DETAIL
SCALE 1:8



SECTION "B-B"
SCALE 1:16



Anchor Bolt Will be Supply by Vendor.
MFS: SETTING BOLTS IS BY HIRGAN CO.

ELEVATION VIEW
SCALE 1:16

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS ARE SPECIFIED FROM EQUIPMENT T.L. ±0.00
3. ALL THICKNESS SHOWN IN THE DRAWING ARE INTENDED AS MINIMUM AF
4. UNLESS OTHERWISE NOTED OUTSIDE PROJECTIONS OF NOZZLES ARE MEASURED FROM VESSEL VERTICAL C.L. TO THE FLANGES CONTACT FACE. FACE OF RADIAL FLANGES ON SHELL SHALL BE PERPENDICULAR TO C.L.
5. FLANGES FACING TO BE IN ACCORDANCE WITH ASME B.16.5 FOR 24" OR LESS AND ASME B.16.47 SERIES A FOR LARGER.
6. FLANGES FACE FINISHING ARE SERRATED WITH 125 TO 250 MICRO INCH ROUGHNESS AS PER ASME B16.5 FOR 24" AND LESS. ALSO ASME B16.47 SERIES "A" FOR MORE THAN 24".
7. GASKETS SHALL BE SPIRAL WOUND WITH FLEXIBLE GRAPHITE FILLER 4.5MM, HOOP SS316, INNER & OUTER RING SS316.
8. BOLT HOLES FOR FLANGES SHALL BE STRADDLED TO NORTH-SOUTH AND/OR EQUIPMENT C.L.
9. ALL SHARP CORNERS WILL BE ROUNDED OFF.
10. ALL REMOVABLE INTERNALS PASS THROUGH THE HANDHOLE 16".
11. 1/1.4 FACTOR FOR EARTHQUAKE LOADS AND 0.6 FACTOR FOR WIND LOADS HAS BEEN APPLIED FOR LOAD COMBINATION AS PER ASCE-7 2010 ON ONE LEG.
12. FOR MORE SAFETY 10% CONTINGENCY FACTOR IS CONSIDERED ON BASE LOADS CALCULATIONS . SO , OVER LOADS MAY CHANGE THE LOADS & MOMENTS.
13. SETTING BOLTS HAVE 300 MPa TENSILE ALLOWABLE STRESS AND 180 MPa SHEAR ALLOWABLE STRESS AS MINIMUM.
14. ALL REINFORCED PAD HAVE 1/4" NPT TELLTAIL HOLE WHICH WILL BE PLUGGED WITH GREASE AFTER THE HYDRO TEST.
15. ALL REINFORCED PAD WILL BE AIR LEAK TESTED AT 1 BARG BY USING SOAP SOLUTION.
16. PAINTING WILL BE PERFORMED BASED ON "SURFACE PREPARATION AND INTERNAL/EXTERNAL PAINTING PROCEDURE DOC. NO. BK-GCS-MF-120-QC-PR-0004"
17. PWHT WILL BE PERFORMED BASED ON "PWHT PROCEDURE DOC NO. BK-CGS-MF-120-QC--PR-0006".
18. ALL PRESSURE PARTS BUTT WELDED JOINTS ARE FULLY RADIOGRAPHED.
19. ALL WELDS ARE CONTINUOUS UNLESS OTHERWISE NOTED.
20. WHERE IN ISOLATED CASES REINFORCING PADS COVER VESSEL WELD SEAMS THESE WILL BE GROUND FLUSH AND FULLY RADIOGRAPHED FOR A DISTANCE OF 100MM MEASURED EACH SIDE OF THE COVERED WELD AREA PRIOR TO THE ATTACHMENT OF THE PAD.
21. ALL INTERNAL WELDS WILL BE SMOOTH GRINDED.
22. VESSEL HAS BEEN DESIGNED FOR FIELD HYDROTEST IN CORRODED CONDITION.
23. ALL WET PART MATERIALS MEET "SPECIFICATION FOR MATERIAL REQUIREMENTS IN SOUR SERVICE DOC NO. "BK-GNRAL-PEDCO-000-PI-SP-0008"
24. ALL PRESSURE PARTS ARE NORMALIZED AND COMPLY WITH NACE MR0175/ISO 15156.
25. THE EQUIPMENT IS LOCATED ON SKID AND ELEVATION OF T.O.G. WILL BE FINALIZED LATER.
26. WILL BE FINALIZED BY INTERNAL MANUFACTURER LATER.

ABBREVIATIONS & LEGEND

T.L.	TANGENT LINE	N	NORMALIZED
B.L.	BASE LINE	P.W.H.T.	POST WELD HEAT TREATMENT
[illegible]	[illegible]	[illegible]F.	RAISED FACE
[illegible]	[illegible]	[illegible]R.	STRESS RELIEVE
[illegible]	[illegible]	[illegible]F.	STRAIGHT FLANGE
[illegible]	[illegible]	[illegible]	TANGENT LINE
[illegible]	[illegible]	[illegible]O.G.	TOP OF GROUTING
[illegible]	[illegible]	[illegible]N.	WELDING NECK
[illegible]	[illegible]	[illegible]V.L.	LONGITUDINAL WELDING LINE
[illegible]	[illegible]	[illegible]W.L.	CIRCUMFERENTIAL WELDING LINE
[illegible]	[illegible]	[illegible]V.N.	LONG WELDING NECK
[illegible]	[illegible]	[illegible]T.	RADIOGRAPHY TEST
[illegible]	[illegible]	[illegible]T.	INTERNAL
J.E.	JOINT EFFICIENCY	EXT.	EXTERNAL
L.	LIQUID	H.P.P.	HIGHEST POINT OF PAVING
V.	VAPOR	THK.	THICKNESS
DWG	DRAWING	N.A.	NOT APPLICABLE

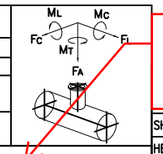
سایز نازل و اسم آن می بایست با مدرک PID تطابق داشته باشد.
با توجه به عدم نمایش اسم و سایز نازل در PID این مورد قابل بررسی نمی باشد میبایست اصلاح گردد.
MFS: CONFIRMED

N O Z Z L E T A B L E

MARK	SERVICE	QTY.	SIZE	RATING	TYPE	FACING	SCH./THK.	DIA. REINFORCE PAD	THK. REINFORCE PAD	PROJECTION (NOTE 8)	REMARK
N7	HANDHOLE	1	16"	150#	W.N.	R.F.	STD/–	–	–	SEE DWG	WITH BLIND, BOLT & NUT
N6	PSV	1	1"	150#	L.W.N.	R.F.	–/12.7	–	–	350	–
N5	VENT	1	1	150#	L.W.N.	R.F.	–/12.7	150	8	SEE DWG	–
N4	DRAIN	1	1"	150#	L.W.N.	R.F.	–/12.7	–	–	SEE DWG	–
N3	DRAIN	1	1"	150#	L.W.N.	R.F.	–/12.7	–	–	350	–
N2	OUTLET	1	1"	150#	L.W.N.	R.F.	–/12.7	–	–	350	–
N1	INLET	1	1"	150#	L.W.N.	R.F.	–/12.7	–	–	350	–

تجهیز روی استراکچر است یا زمین؟
z/h=0
MFS: REVISED AND PRESENTED IN NOTE 25

ابعاد و ضخامت تجهیز در جدول مشخص گردد.
MFS: CONFIRMED



		NT (KN-m)	
		MT	ML
		–	–
		–	–

setting bolt or anchor bolt?
MFS: SETTING BOLT IS WRITTEN IN TABLE AND NOTE 13

E R I A L T A B L E

	GNATION	DESCRIPTION	DESIGNATION
SHELL	SA 106 Gr.BN	REINFORCING PAD	SA-516 70N
HEAD	SA-234 WPB N	LIFTING LUG	[illegible]
NOZZLE NECK (PIPE/PLATE)	SA-106 Gr.B/SA-516 70N	INSUL./FIREPRO	[illegible]
NOZZLE FLANGE/FORGING	A-106 Gr.BN	STIFFENIN	[illegible]
WELDING FITTING	SA-234 WPB	EXTERNAL WELDED ATTACHMENTS	SA-516 70N
SKIRT(TOP/BOTTOM)	–	INTERNAL WELDED/REMOVABLE	SA-516 70N/SS 316L
LEG	C.S.	NAME PLA	
BOLTS/NUTS MATERIAL			
SETTING BOLTS	SA-325M (NOTE 13)	GASKET	
EXTERNAL(BOLTS/NUTS)	SA-193 B7/SA-194 2H		
INTERNAL(BOLTS/NUTS)	–		
WEIGHTS (kg)			
FABRICATED	392	SHOP HYDROTEST	374
OPERATING	677	FIELD HYDROTEST	501
SHUTDOWN (EMPTY)	509	INTERNALS	[illegible]
ERRECTED	392	LADDERS & PLATFORMS	[illegible]

SA-193 B7M / SA-194 2HM
MFS: CONFIRMED

با مدرک Calculation تناقض دارد.
MFS: NOTED AND REVISED

Un-Factored Load
MFS: CONFIRMED

LOADING DATA (NOTE 11 & 12)

WIND		SEISMIC	
SHEAR (N)	MOMENT (N.m)	SHEAR (N)	MOMENT (N.m)
151	151	1179	1179

با مدرک Calculation تناقض دارد.
MFS: NOTED AND REVISED

A T A

DESIGN CODE : ASME VIII– DIV I 2019			
GLYCOL CARBON FILTER (F-200 A/B)		WIND/SEISMIC CODE	ASCE7-10
PROCESS FLUID	RICH TEG	EARTHQUAKE CONDITIONS	Fa=1.111, Fv=1.575, Ss=1.377g,S1=0.367g,Site:C,I=1.25, R=2.5,z/h=0,Sds=1.02g,Sd1=0.385g
STAMP	N/A		
LIQUID DENSITY		FACTOR	1
DESIGN PRESSURE(INT./EXT.)		E	C
OPERATING PRESSURE	3.8 barg	WIND SPEED @ 10m A.G.	120 Km/hr
DESIGN TEMPERATURE	+5 /100 °C	VOLUME	0.19 m³
OPERATING TEMPERATURE	WINTER: 74.53 °C	INSULATION/TYPE/DENSITY	50mm/HOT/125 Kg/m³
	SUMMER: 73.62 °C	LADDER & PLATFORM	NO
TEST PRESSURE	10 barg	VALVE DAVIT/TOP DAVIT	–/–
HYDROTEST TYPE	UC-99(b) (36) VERTICAL	INTERNAL LINING/DENSITY	NO
TEST POSITION(SITE)	VERTICAL	FIREPROOFING(BOTH SIDE)/DENSITY	NO
RADIOGRAPHY (SHELL/HEAD)	FULL/FULL	FIREPROOFING SUPPORT	NO
JOINT EFFICIENCY (SHELL/HEAD)	1/1	EXTERNAL PAINTING	YES/(NOTE 16)
LETHAL	YES	EARTHING/PIPE SUPPORT CLIP	YES/–
P.W.H.T.	YES	S.R. OF HEADS AFTER FORMING(BOTTOM/TOP)	NO/NO
M.D.M.T. @ D.P.	+5 °C	INSULATION SUPPORT	YES
M.A.W.P.	13.5 barg	IMPACT TEST	NO
CORROSION ALLOWANCE	6 mm	LIFTING DEVICE	YES

232 km/h
MFS: CONFIRMED

REFERENCE DRAWINGS	DRAWING NO.
ATASHEET FOR GLYCOL CARBON FILTER (F-200 A/B)	BK-GCS-MF-120-PR-DS-0004
CALCULATION BOOK FOR GLYCOL CARBON FILTER (F-200 A/B)	BK-GCS-MF-120-ME-CN-0005
DETAILS DRAWING FOR GLYCOL CARBON FILTER (F-200 A/B)	BK-GCS-MF-120-ME-DW-0015
NAME PLATE DRAWING FOR GLYCOL CARBON FILTER (F-200 A/B)	BK-GCS-MF-120-ME-DW-0016

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
V00	DEC.2024	ISSUED FOR APPROVAL	MFS	M.FAKHARIAN	S.FARNAM@2POUR	** **

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION
PROJECT NO.: 971020
EPC CONTRACTOR: HIRGAN ENERGY
EPD/EPC CONTRACTOR (GC): PEDCO — PETROIRAN DEVELOPMENT COMPANY

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BINAK OILFIELD DEVELOPMENT
SURFACE FACILITIES
GAS COMPRESSOR STATION

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

GENERAL ARRANGEMENT FOR GLYCOL CARBON FILTER (F-200 A/B)

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED
APPROVED FOR CONSTRUCTION BY: DATE:

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
NTS	A3	BK-GCS-MF-120-ME-DW-0014	1 OF 1	V00

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION