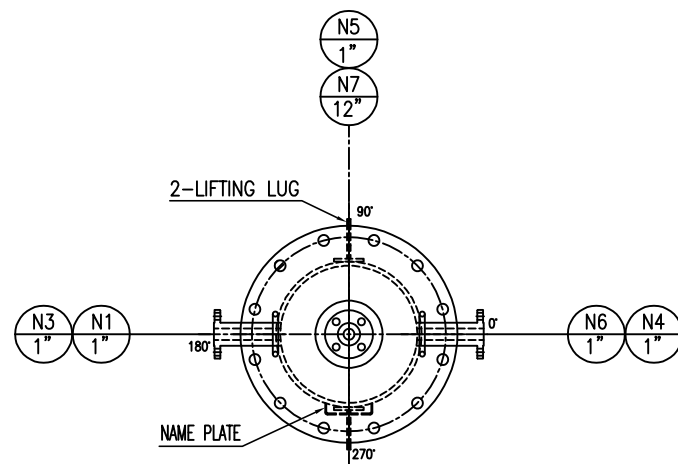
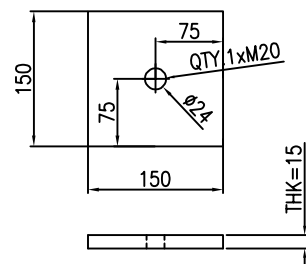




BASE PLATE DETAIL
SCALE 1:8



ابعاد و ضخامت تجهیز در
جدول مشخص گردد.

M A T E R I A L T A B L E		
DESIGNATION	DESCRIPTION	DESIGNATION
SA 106 Gr.BN	REINFORCING PAD	SA-516 70N
SA-234 WPB N	LIFTING LUG	SA-283 C
SA-106 Gr.B/SA-516 70N	INSUL/FIREPROOFING SUPPORT	SA-516 70N

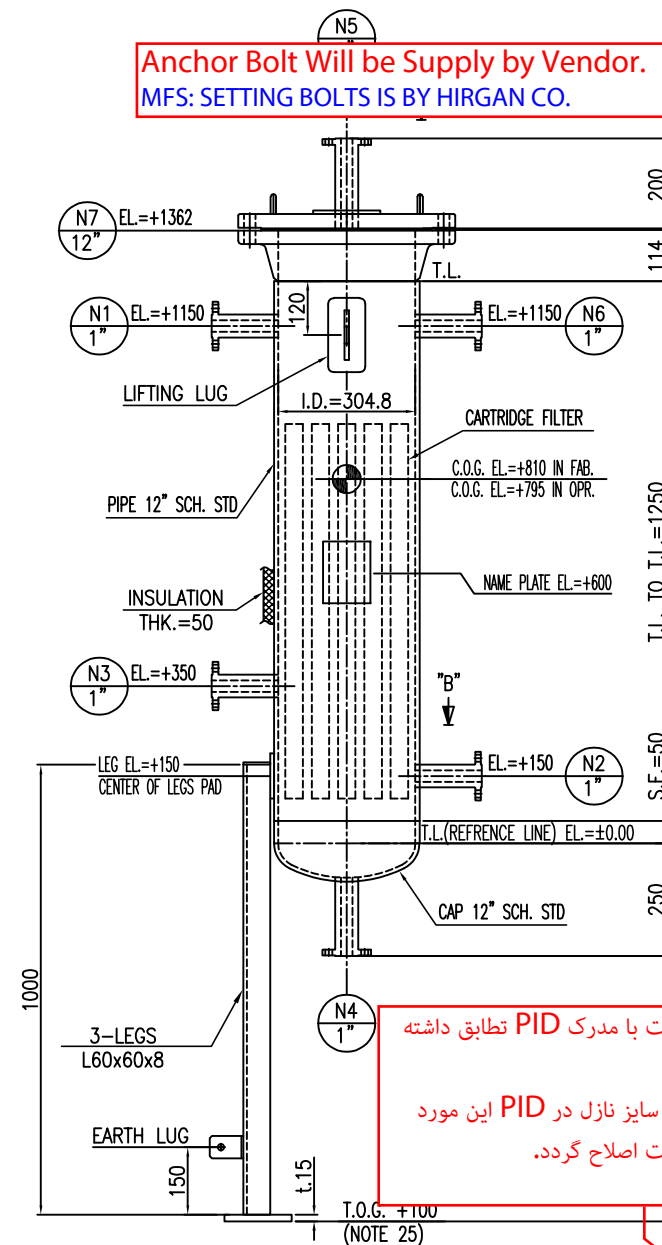
setting bolt or anchor bolt?
MFS: SETTING BOLT IS WRITTEN IN
TABLE AND NOTE 13

BOLTS/NUTS MATERIAL			SA-193 B7M / SA-194 2HM
SETTING BOLTS	SA-325M (NOTE 13)	GASKET	MFS: CONFIRMED
EXTERNAL(BOLTS/NUTS)	SA-193 B7/SA-194 2H		
INTERNAL(BOLTS/NUTS)	-		

با مدرک Calculation تناقض دارد.
MFS: NOTED AND REVISED

In-Factored Load
MFS: CONFIRMED

با مدرک Calculation تناقض دارد.
MFS: NOTED AND REVISED



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

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.

می بایست جهت بررسی مدرک 3D Model ارسال گردد.

S: 3D MODEL IS PREPERING AND WILL BE ISSUED LATER

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 12".
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 TELLTAL 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-GCS-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-GNRL-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
C.O.G.	CENTER OF GRAVITY	R.F.	RAISED FACE
سایز نازل و اسم آن را با توجه به عدم نمای قابل بررسی می باشد. CS: CONFIRMED	N	S.R.	STRESS RELIEVE
	EVEL HIGH	S.F.	STRAIGHT FLANGE
	EVEL HIGH HIGH	T.L	TANGENT LINE
	EVEL LOW	T.O.G.	TOP OF GROUTING
	EVEL LOW LOW	W.N.	WELDING NECK
	LIQUID LEVEL	L.W.L.	LONGITUDINAL WELDING LINE
	DIABLE WORKING PRESSURE	C.W.L.	CIRCUMFERENTIAL WELDING LINE
	SIGN METAL TEMP.	L.W.N.	LONG WELDING NECK
	PRESSURE	R.T.	RADIOGRAPHY TEST
	EFFICIENCY	INT.	INTERNAL
		EXT.	EXTERNAL
L	LIQUID	H.P.P.	HIGHEST POINT OF PAYING
V.	VAPOR	THK.	THICKNESS
DWG.	DRAWING	N.A	NOT APPLICARI F

N7	HANDHOLE	1	12"	150#	W.N.	R.F.	STD/-	-	-	SEE DWG	WITH BLIND, BOLT & NUT
N6	PSV	1	1"	150#	L.W.N.	R.F.	-/12.7	-	-	300	-
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	-	-	300	-
N2	OUTLET	1	1"	150#	L.W.N.	R.F.	-/12.7	-	-	300	-
N1	INLET	1	1"	150#	L.W.N.	R.F.	-/12.7	-	-	300	-

MARK	SERVICE	QTY.	SIZE	RATING	TYPE	FACING	SCH./THK.	DIA.	THK.	PROJECTION (NOTE#)	REMARK
								REINFORCE PAD			
NOZZLE TABLE											

V00	DEC.2024	ISSUED FOR APPROVAL			MFS	M.FAKHARIAN	S.ARAMPOUR	** **	REV.	DESCRIPTION	BY	DATE	BY	DATE					
REV.	DATE	P.O.I.S		PREP.	CHK.	APP.	AUT.				CHECKED		REV. APPR.						

PROJECT NAME:	BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION	 THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS
PROJECT NO.:	971020	

EPC CONTRACTOR:  HIRGAN ENERGY HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES	EPD/EPC CONTRACTOR (GC):  PETROIRAN DEVELOPMENT COMPANY PEDCO	BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION				
		DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

PERMIT FOR GLYCOL PARTICLE FILTER (F-100 A/B)				NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED									
				APPROVED FOR CONSTRUCTION				BY:		DATE:			
DRAWING NO.		SHEET NO.		REV.		BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.		SHEET	REVISION
BK-GC-MF-120-ME-WF-0011		1 OF 1		Y00									

z/h=0

MFS: REVISED AND PRESENTED IN
NOTE 25

NOZZ	N2	N1	1"	150#	-	-	-	-	-	-
------	----	----	----	------	---	---	---	---	---	---

DESIGN DATA

DESIGN CODE : ASME VIII - DIV I 2019	GLYCOL PARTICLE FILTER (F=100 A/B)
PROCESS FLUID	RICH TEG
STAMP	N/A
LIQUID DENSITY	WINTER: 1020 SUMMER: 1017
DESIGN PRESSURE (INT./EXT.)	8/F.V. @ 10
OPERATING PRESSURE	4.5
DESIGN TEMPERATURE	+5 / 10
OPERATING TEMPERATURE	WINTER: 74.53 °C SUMMER: 73.63 °C
TEST PRESSURE	10.5 barg
HYDROTEST TYPE	UG-99(b) (36) VERTICAL
TEST POSITION(SITE)	VERTICAL
RADIOGRAPHY (SHELL/HEAD)	FULL/FULL
JOINT EFFICIENCY (SHELL/HEAD)	1/1
LETHAL	YES
P.W.H.T.	YES
M.D.M.T. @ D.P.	+5 °C
M.A.W.P.	17 barg
CORROSION ALLOWANCE	6 mm

232 km/h

MFS:
CONFIRMED

WIND/SEISMIC CODE ASCE7-10

EARTHQUAKE CONDITIONS

FACTOR 1

0m A.G. 120 Km/h

WIND/SEISMIC CODE ASCE7-10

EARTHQUAKE CONDITIONS

FACTOR 1

0m A.G. 120 Km/h

INSULATION TYPE/DENSITY 50mm/HOT/125 Kg/m³

LADDER & PLATFORM NO

VALVE DAVIT/TOP DAVIT -/-

INTERNAL LINING/DENSITY NO

FIREPROOFING(BOTH SIDE)/DENSITY NO

FIREPROOFING SUPPORT NO

EXTERNAL PAINTING YES/(NOTE 16)

EARTHING/PIPE SUPPORT CLIP YES/-

S.R. OF HEADS AFTER FORMING(BOTTOM/TOP) NO/NO

INSULATION SUPPORT YES

IMPACT TEST NO

LIFTING DEVICE YES

M A T E R I A L T A B L E			
DESIGNATION	DESCRIPTION	DESIGNATION	
SA 106 Gr.BN	REINFORCING PAD	SA-516 70N	
SA-234 WPB N	LIFTING LUG	SA-283 C	
SA-106 Gr.B/SA-516 70N	INSUL./FIREPROOFING SUPPORT	SA-516 70N	
NOZZLE NECK (PIPE/PLATE)			
NOZZLE FLANGE/FORGING			
WELDING FITTING			
SKIRT(TOP/BOTTOM)			
LEG			
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	259	SHOP HYDRO	
OPERATING	417	FIELD HYDRO	
SHUTDOWN (EMPTY)	321	INTERNALS	
ERRECTED	259	LADDERS & PLATFORMS	-
LOADING DATA (NOTE 11 & 12)			
WIND		SEISMIC	
SHEAR (N)	MOMENT (N.m)	SHEAR (N)	MOMENT (N.m)
119	119	734	734

150

T.O.G. +100
(NOTE 25)

می بایست جهت بررسی مدرک 3D Model ارسال گردد.

S: 3D MODEL IS PREPERING AND WILL BE ISSUED LATER

PROCESS DATA	MECHANICAL CALCULATION BOOK FOR GLYCOL PARTICLE FILTER (F-100 A/B)	BK-GCS-MF-120-ME-CN-0004
	DETAILS DRAWING FOR GLYCOL PARTICLE FILTER (F-100 A/B)	BK-GCS-MF-120-ME-DW-0012
	NAME PLATE DRAWING FOR GLYCOL PARTICLE FILTER (F-100 A/B)	BK-GCS-MF-120-ME-DW-0013

94 2HM

CONFIRMED

V00	DEC.2024	ISSUED FOR APPROVAL	MFS
REV.	DATE	P.O.I.S	PREP.

Calculation با مدرک

NOTED AND REVISED

Un-Factored Load

MFS: CONFIRMED

Calculation با مدرک تناقض دارد.

MFS: NOTED AND REVISED

PROJECT NAME: BINAK OILFIELD DEVELOPMENT GAS COMPRESSOR		97:
PROJECT NO.:		
EPC CONTRACTOR:	 HIRGAN ENERGY HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES	 TE COMPANIES
		 EPC COMPANIES

EMENT FOR GLYCOL P.

DRAWING NO.

BK-GCS-MF-120-ME-DW-0013

S: CONFIRMED		PRESSURE EFFICIENCY		INT. EXT.		INTERNAL					
L.	LIQUID			H.P.P.		HIGHEST POINT OF PAVING					
V.	VAPOR			THK.		THICKNESS					
DWG	DRAWING			N.A.		NOT APPLICABLE					
N7	MANHOLE	1	12"	150#	W.N.	R.F.	STD/-	-	-	SEE DWG	WITH BLIND, BOLT & NUT
N6	PSV	1	1"	150#	L.W.N.	R.F.	-/127	-	-	300	-
N5	VENT	1	1"	150#	L.W.N.	R.F.	-/127	150	8	SEE DWG	-
N4	DRAIN	1	1"	150#	L.W.N.	R.F.	-/127	-	-	SEE DWG	-
N3	DRAIN	1	1"	150#	L.W.N.	R.F.	-/127	-	-	300	-
N2	OUTLET	1	1"	150#	L.W.N.	R.F.	-/127	-	-	300	-
N1	INLET	1	1"	150#	L.W.N.	R.F.	-/127	-	-	300	-
MARK	SERVICE	CITY.	SIZE	RATING	TYPE	FACING	SCH. THK.	DIA. REINFORCE	THK. PAID	PROJECTION	REMARK

N O Z Z L E T A B L E

M.F.AKHARIAN		S.FARMAPOUR		***	
CHK.	APP.	AUT.			

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CONTRACTOR (GC):

PETROIRAN
DEVELOPMENT
COMPANY

BIKAK OILFIELD DEVELOPMENT
SURFACE FACILITIES
GAS COMPRESSOR STATION

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION		BY:	DATE:

PARTICLE FILTER (P-100 A/B)

SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
1 OF 1	V00							