

NAMDARAN
PETROGAS INDUSTRIES

صنایع پتروگاز نامداران

سازنده تجهیزات صنایع نفت،گاز و پتروشیمی







عنوان	صفحه
معرفی شرکت	۳
اطلاعات عمومی شرکت	۴
چشم اندازهای شرکت	۵
چارت سازمانی	۶
فهرست تولیدات	۷
تاییدیه های اخذ شده	۸
تدارکات و تامین کالا	۹
فنی و مهندسی	۱۰
تست و بازرسی	۱۱
تحقیق و توسعه	۱۲
محصولات	۱۳
گواهینامه ها	۱۴

معرفی شرکت

شرکت صنایع پتروگاز نامداران با سابقه درخشان در انجام پروژه های نفت، گاز، پتروشیمی و نیروگاهی توانسته است با به کارگیری مهندسین، پرسنل ورزیده و کارآزموده، مدیریت موثر نیروهای انسانی و منابع، به هدف خود که تأمین رضایت کامل مشتری است نایل آمده و توانمندی خود را در طراحی، تامین و ساخت تجهیزات خطوط نفت و گاز، صنایع فولادی ، پالایشگاهی و نیروگاهی به اثبات رسانده است . که در این راستا موفق به کسب گواهینامه ها و تقدیر نامه های متعدد از کارفرمایان شده است.



(دفتر مرکزی)



(دفتر فروش)

اطلاعات عمومی شرکت

نام شرکت	صنایع پترو گاز نامداران
نوع	سهامی خاص
شماره ثبت شرکتها	۲۷۹۸۴۲
سرمایه ثبت شده	۷/۰۰۰/۰۰۰/۰۰۰ ریال
دفتر مرکزی	تهران، خیابان مفتح شمالی ، خیابان نقدی، پلاک ۱۲، طبقه ۲ ،کد پستی:۱۵۷۶۶۳۵۷۱۱
	تلفن : ۶۰-۸۸۵۲۲۲۵۸-۰۲۱ فاکس : ۰۲۱-۸۸۷۵۳۷۶۳
دفتر بازرگانی	تهران، خیابان خالد اسلامبولی، خیابان هشتم، پلاک ۳، واحد ۱۱،کد پستی:۱۵۱۱۷۹۵۹۳۴
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کارخانه	کیلومتر ۳۵ اتوبان قم، ابتدای شهرک صنعتی شمس آباد، کوچه کیهان،پلاک ۶۱
	تلفن : ۴-۵۶۲۲۵۱۱۲ -۰۲۱ فاکس : ۰۲۱-۵۶۲۲۵۱۱۵
پست الکترونیکی	info@namdaran.ir
وب سایت	www.namdaran.ir

چشم انداز های شرکت

۱) توسعه فعالیت و تجهیزات کارگاهی

۲) استفاده از سیستمهای جامع مدیریت و تکنولوژی اطلاعات (IT)

۳) افزایش حجم فروش خدمات مهندسی در بازارهای داخل و خارج

۴) آموزش و ارتقاء دانش فنی و توان اجرایی پرسنل

۵) اخذ استانداردهای نوین کیفیت

۶) ارائه خدمات قابل اعتماد، با کیفیت و به موقع

۷) ایجاد انگیزش در پرسنل به منظور انجام به موقع تعهدات







فهرست تولیدات

این شرکت در طی سالهای گذشته، توانسته است با به کارگیری مهندسین، پرسنل ورزیده و کارآزموده، مدیریت موثرنیروهای انسانی و منابع، به هدف خود به منظور تأمین رضایت کامل مشتری نایل آمده و قادر به طراحی، تامین و ساخت تجهیزات زیر می باشد:

Units / Packages — پکیج های صنعتی

- Absorption Package with MEG, TEG, DEG — پکیج های جذب کننده
- Adsorption Package with silica gel, molecular sieve and activated alumina — پکیج های جذب کننده سطحی
- Fired Heater Package — فایر هیتر
- Hot Oil Units — واحدهای هات اویل
- Desalting Units — واحد های نمک زدایی
- Gas Sweetening Units — واحدهای شیرین سازی گاز
- Propane Package — پکیج پروپان
- Chemical Injection Package — پکیجهای تزریق مواد شیمیایی
- Flare Package/System — پکیج فلر

Process Equipment — تجهیزات فرآیندی

- Heat Exchangers — مبدلهای حرارتی
- Indirect Water Bath Heater — هیتر های غیر مستقیم
- Electrical Heater with Thyristor and on/off control panel in hazardous or safe area — هیتر های برقی
- Pressure Vessel (Column, Three/Two phase separator, MOS , Knock-Out- Drum, …) — مخازن تحت فشار
- Pressure Vessel with Cladding (Inconel 625, SS 316L/304L, Rubber & Other Alloy) — مخازن تحت فشار با پوشش
- Gas Scrubber & Multi Cyclone — اسکرابر های گاز
- Filter Separator — فیلتر های جداکننده
- Dry Gas Filter — فیلتر های خشک
- Strainer — استرینر
- Burn Pit System — چاله سوزاندن مایعات



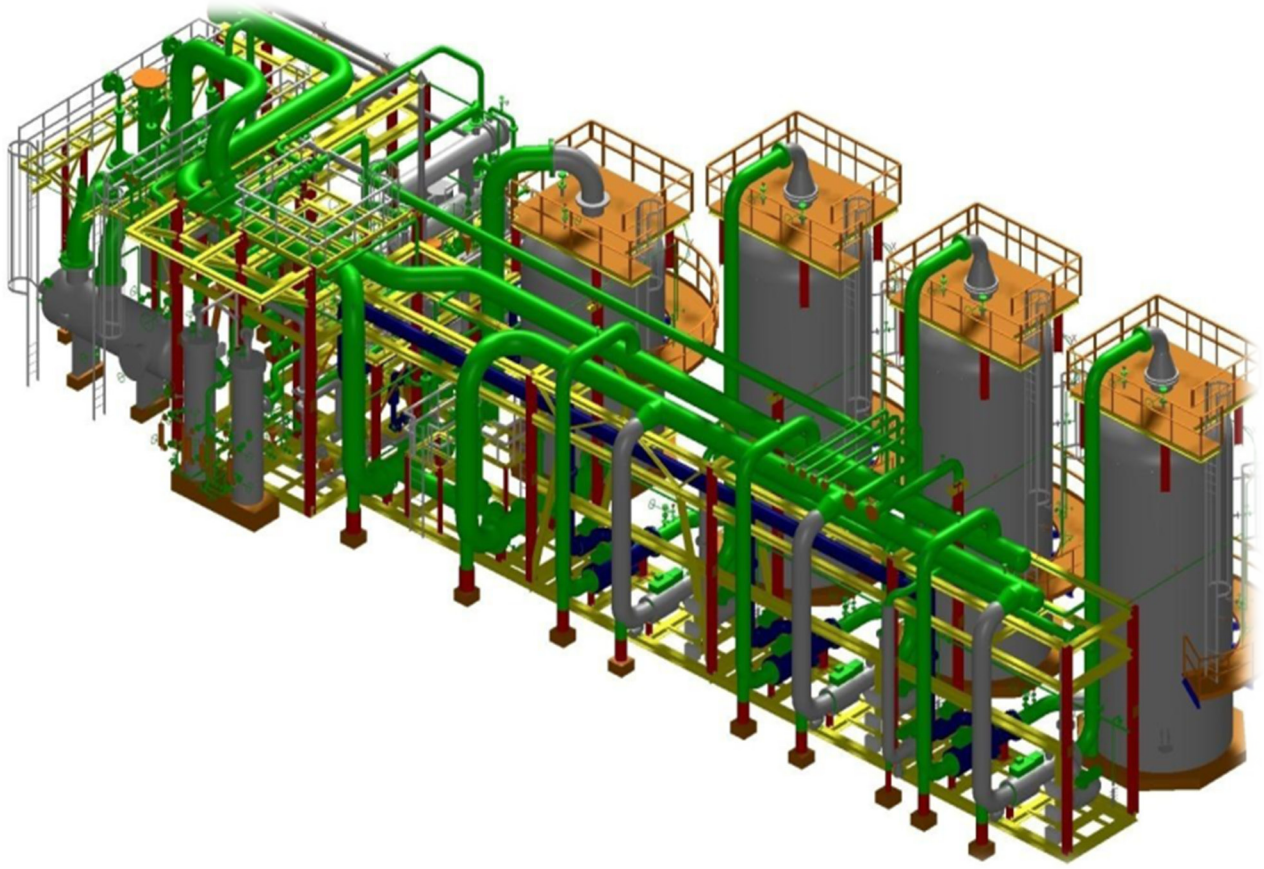


Pipeline Equipment — تجهیزات خطوط لوله

- Pig Launcher and Receiver Trap up to 64”x56” — تجهیزات فرستنده و گیرنده توپک
- Split Tee equipped with guide bar from 6”up to 56”x56” — سه راهی دو تکه مجهزبه گاید بار جهت عملیات هات تپ
- Anchor Flange from 6” up to 56” — فلنج مهاری
- Insulating Joint from 6” up to 56” — اتصال عایقی
- Pig Signaler (V-M-W, V-EM-W, DBB-M-F, DBB-EM-F) — نشانگر عبور توپک یا پیگ سیگنالر
- Quick Opening closure — درب های سریع باز شونده

Well Head Equipment — تجهیزات سرچاهی

- Mobile Test Separator package (MOS) — تست سپراتور
- Mobile Oil Treater (MOT) — فرآورش سیار نفت
- Slug Catcher Package — اسلاگ کچر
- Two-Three phase Separator — سپراتور های ۲ فازی و۳ فازی
- Grit Trap — شنریزه گیر
- Stone Trap — تله سنگ



وندور لیست تائید شده

به استحضار می رساند ساخت با بالاترین کیفیت در کوتاهترین زمان ممکن با قیمت مناسب، همواره از اهداف این شرکت بوده و در این راستا موفق به قرار گیری در Approved Vendor List کارفرمایان متعدد شده است. که نام برخی از آنها به شرح زیر اعلام میگردد.

- ✓ وزارت نفت جهوری اسلامی ایران
- ✓ شرکت ملی گاز ایران
- ✓ شرکت مدیریت مهندسی و توسعه گاز ایران
- ✓ شرکت خطوط لوله و مخابرات نفت ایران
- ✓ شرکت کالای نفت تهران
- ✓ شرکت ملی مناطق نفت خیز جنوب
- ✓ شرکت نفت مناطق مرکزی ایران
- ✓ شرکت نفت فلات قاره ایران
- ✓ شرکت نفت و گاز پارس
- ✓ شرکت پایانه های نفتی ایران
- ✓ شرکت نفت خزر
- ✓ شرکت مهندسی و توسعه نفت
- ✓ شرکت منطقه ویژه اقتصادی انرژی پارس
- ✓ شرکت منطقه ویژه اقتصادی ماهشهر
- ✓ شرکت ملی حفاری ایران
- ✓ شرکت حفاری شمال
- ✓ شرکت ملی مهندسی و ساختمان نفت ایران

تدارکات و تامین کالا

شناخت بازارهای داخلی و بین المللی، برخورداری از امکانات و اعتبارات ریالی و ارزی، همکاری تنگاتنگ با شرکتهای خارجی و تامین کنندگان با تجربه و قابل اعتماد، امتیاز حمل به موقع از مبدا و کیفیت مناسب اجناس باعث تسریع در پاسخ به استعلامها و تحویل با کیفیت در کمترین زمان ممکن سفارشات میگردد. در این راستا شرکت صنایع پتروگاز نامداران تدارک مواد و تجهیزات را به همراه ارزیابی پیشنهاد فنی، انتخاب سازندگان، بازرسی و تحویل را نیز جزو خدمات خود برای کارفرمایان قرار داده و توانایی تامین اجناس شامل: لوله، اتصالات، فلنج و قطعات آهنگری شده، شیر آلات، مواد جوشکاری، دستگاهها و قطعات برقی و ابزار دقیق را با بهترین قیمت و در حداقل زمان، منطبق با استانداردهای بین المللی، را دارا می باشد.











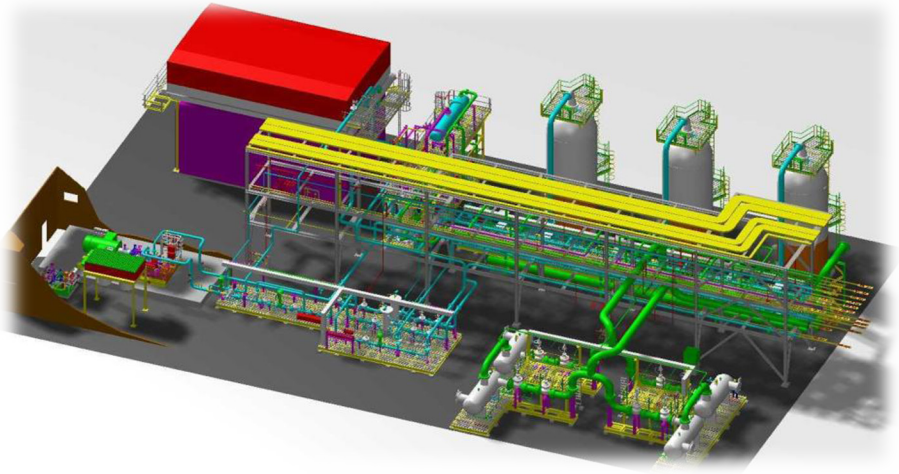
فنی و مهندسی

شرکت نامداران با بکارگیری کادر فنی، مهندسی قوی توانایی انجام فعالیتهای مشاوره، طراحی پایه و طراحی تفضیلی، تهیه مشخصات فنی برای تجهیزات را دارا میباشد.به صورت کلی حوزه فعالیت این شرکت در ارتباط با ساخت تجهیزات صنایع زیر میباشد.

الف) تجهیزات صنایع نفت، گاز و پتروشیمی

ب) تجهیزات نیروگاهی

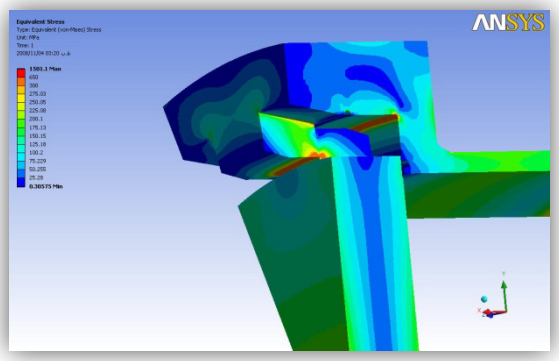
ساختار مهندسی شرکت نامداران به ۱۰ بخش کلی تقسیم می گردد:

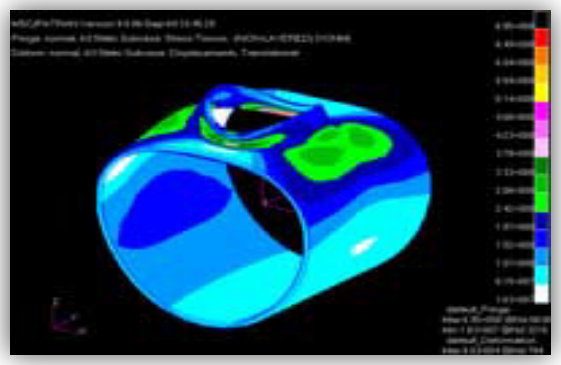


- فرآیند
- تجهیزات ثابت
- ماشینهای دوار
- پایپینگ
- برق
- ابزار دقیق
- سیویل
- متالورژی- متریال
- ایمنی ،بهداشت و محیط زیست
- واحد تحقیق و توسعه

همچنین بخشی از نرم افزارهای طراحی و مهندسی این شرکت عبارتند از :

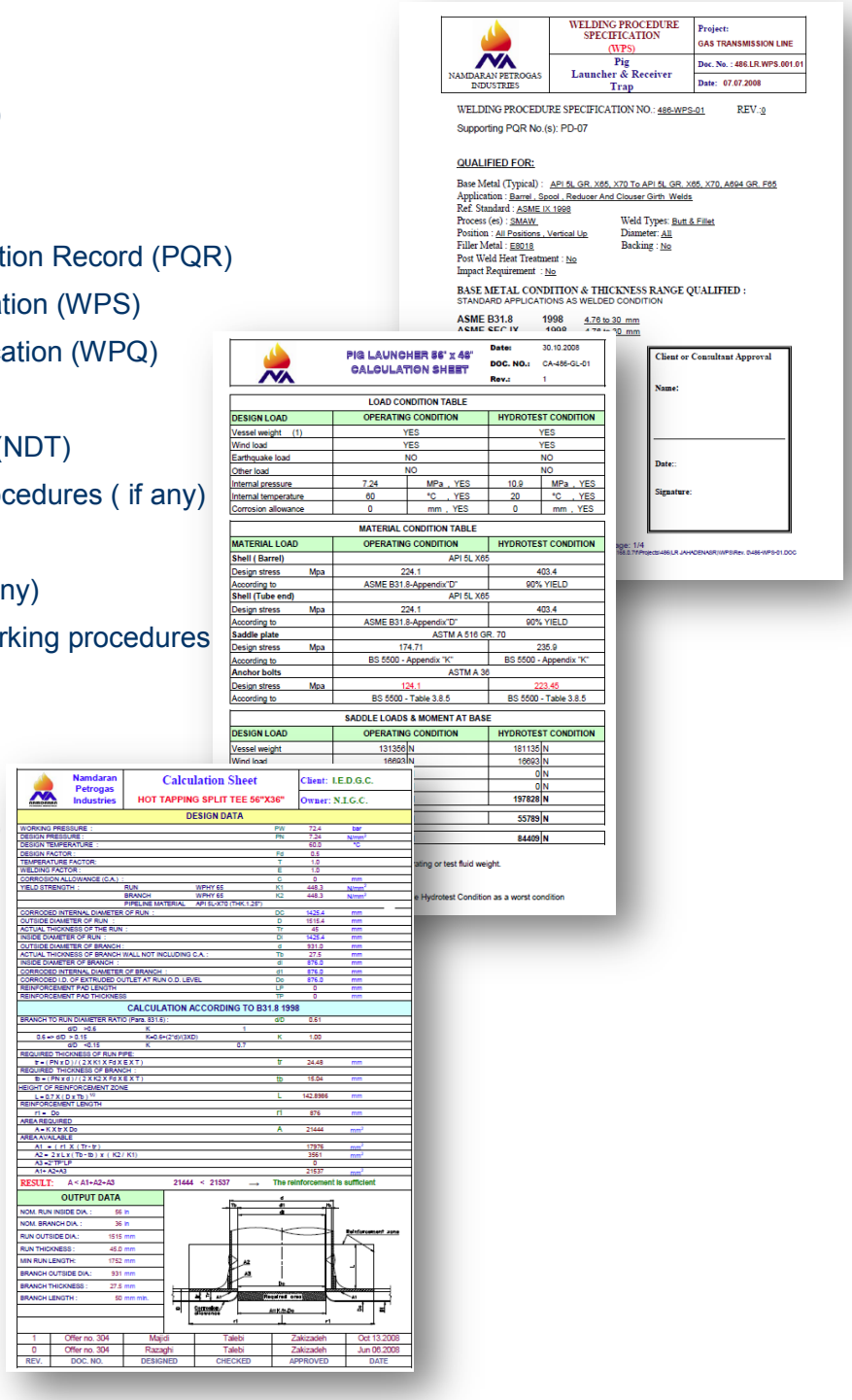
Soft ware	Used for
Primavera& MS project	کنترل پروژه
Aspen suite,& Hysis	شبیه سازی فرآیندی واحدهای شیمیایی
Thermoflow	طراحی پلنت های نیروگاهی
EES	حل معادلات مهندسی
Pv-Elite & Nozzle pro	مخازن تحت فشار
Tank	مخازن ذخیره
ANSYS	اجزای محدود مکانیکی، حرارتی و تنش
Caesar II& PDMS	طراحی خطوط لوله
Mechanical Desktop , Solid works, Auto cad & Cad Works	نقشه کشی
Microsoft Office	مستندات
Super Forge	شبیه سازی فرایند فورج
Cadworx	طراحی هندسی خطوط لوله
Ceasar II	تحلیل تنش در خطوط لوله
Auto plant	طراحی مهندسی خطوط لوله
Auto Pipe	تحلیل تنش در خطوط لوله
CAEPipe	تحلیل تنش در خطوط لوله
Fluent	تحلیل جریان سیالات
ETABS 2000	تحلیل مبسوط و سه بعدی سیستم های سازه ای
PIPEPHASE	لوله نرم افزار شبیه سازی خطوط
INTOOLS	نرم افزار طراحی ابزار دقیق
ETAP 505	برق نرم افزار طراحی و شبیه سازی
CAESAR II	کشی نرم افزار تحلیل تنش سیستم های لوله
CADMAP	نقشه سازی





تیم مهندس این شرکت بعد از انعقاد قرارداد و ابلاغ کار طراحی را شروع نموده و مدارک زیر را قبل از شروع به ساخت جهت بررسی و تایید کارفرما ارائه مینماید:

- Production time schedule
- Inspection and test plan(ITP)
- Process calculation (if any)
- Mechanical calculation
- Welding Procedure Qualification Record (PQR)
- Welding Procedure Specification (WPS)
- Welder Performance Qualification (WPQ)
- Fabrication drawings
- Non destructive procedures (NDT)
- Post weld heat treatment procedures (if any)
- Hydrostatic test procedures
- Air leak test procedures (if any)
- Sand blast , painting and marking procedures
- Pickling for steel alloys
- Cladding procedure
- Packing procedures (if any)
- Shipping procedures (if any)



WELDING PROCEDURE SPECIFICATION (WPS)

Project: GAS TRANSMISSION LINE

Pig Launcher & Receiver Trap

NAMDARAN PETROGAS INDUSTRIES

Doc. No. : 486.LR.WPS.001.01

Date: 07.07.2008

WELDING PROCEDURE SPECIFICATION NO.: 486-WPS-01 REV.:0

Supporting PQR No.(s): PD-07

QUALIFIED FOR:

Base Metal (Typical) : API 5L GR. X65, X70 To API 5L GR. X65, X70, A694 GR. F65

Application : Barrel , Spool , Reducer And Clouser Girth Welds

Ref. Standard : ASME IX 1998

Process (es) : SMAW

Weld Types: Butt & Fillet

Position : All Positions , Vertical Up

Diameter: All

Filler Metal : E8018

Backing : No

Post Weld Heat Treatment : No

Impact Requirement : No

BASE METAL CONDITION & THICKNESS RANGE QUALIFIED :

STANDARD APPLICATIONS AS WELDED CONDITION

ASME B31.8 1998 4.76 to 30 mm

PIG LAUNCHER 56" x 48" CALCULATION SHEET

Date: 30.10.2008

DOC. NO.: CA-486-GL-01

Rev.: 1

Client or Consultant Approval

Name:

Date:

Signature:

LOAD CONDITION TABLE

DESIGN LOAD	OPERATING CONDITION		HYDROTEST CONDITION	
Vessel weight (1)	YES		YES	
Wind load	YES		YES	
Earthquake load	NO		NO	
Other load	NO		NO	
Internal pressure	7.24	MPa , YES	10.9	MPa , YES
Internal temperature	60	°C , YES	20	°C , YES
Corrosion allowance	0	mm , YES	0	mm , YES

MATERIAL CONDITION TABLE

MATERIAL LOAD	OPERATING CONDITION	HYDROTEST CONDITION
Shell (Barrel)	API 5L X65	
Design stress Mpa	224.1	403.4
According to	ASME B31.8-Appendix"D"	90% YIELD
Shell (Tube end)	API 5L X65	
Design stress Mpa	224.1	403.4
According to	ASME B31.8-Appendix"D"	90% YIELD
Saddle plate	ASTM A 516 GR. 70	
Design stress Mpa	174.71	235.9
According to	BS 5500 - Appendix "K"	BS 5500 - Appendix "K"
Anchor bolts	ASTM A 36	
Design stress Mpa	124.1	223.45
According to	BS 5500 - Table 3.8.5	BS 5500 - Table 3.8.5

SADDLE LOADS & MOMENT AT BASE

DESIGN LOAD	OPERATING CONDITION	HYDROTEST CONDITION
Vessel weight	131356 N	181135 N
Wind load	16693 N	16693 N
		0 N
		0 N
		197828 N
		55789 N
		84409 N

ating or test fluid weight.

e Hydrotest Condition as a worst condition

Namdaran Petrogas Industries

Calculation Sheet

HOT TAPPING SPLIT TEE 56"X36"

Client: I.E.D.G.C.

Owner: N.I.G.C.

DESIGN DATA

CALCULATION ACCORDING TO B31.8 1998

RESULT: A < A1+A2+A3 21444 < 21537 → The reinforcement is sufficient

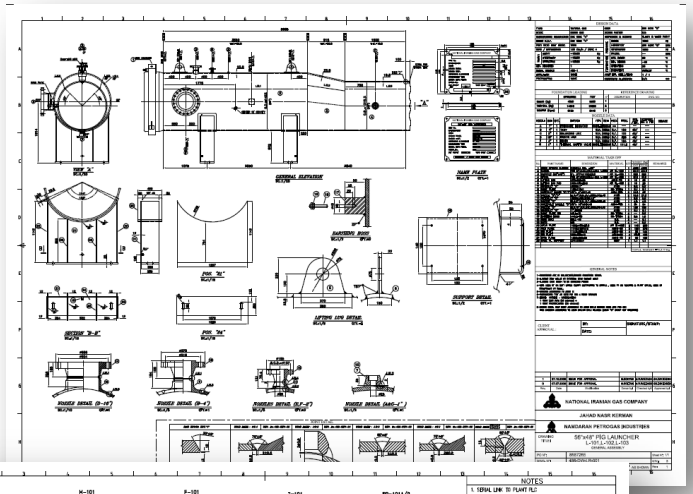
OUTPUT DATA

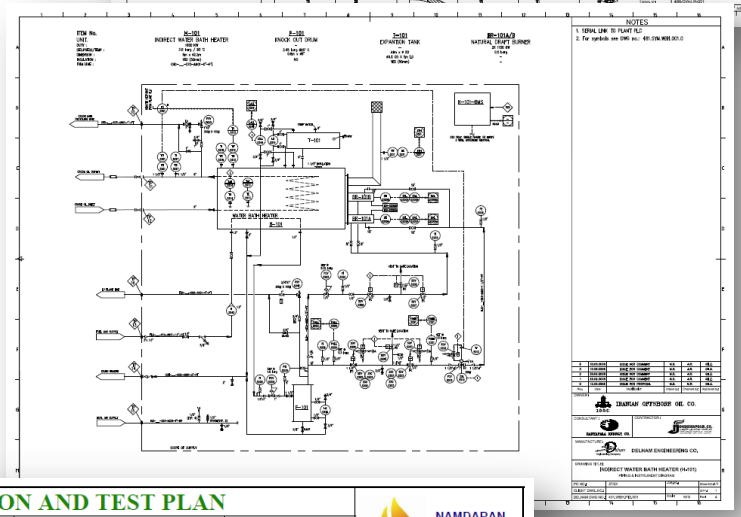
NOM. RUN INSIDE DIA. :	56 in
NOM. BRANCH DIA. :	36 in
RUN OUTSIDE DIA.:	1515 mm
RUN THICKNESS :	45.0 mm
MIN RUN LENGTH:	1752 mm
BRANCH OUTSIDE DIA.:	931 mm
BRANCH THICKNESS :	27.5 mm
BRANCH LENGTH :	50 mm min.

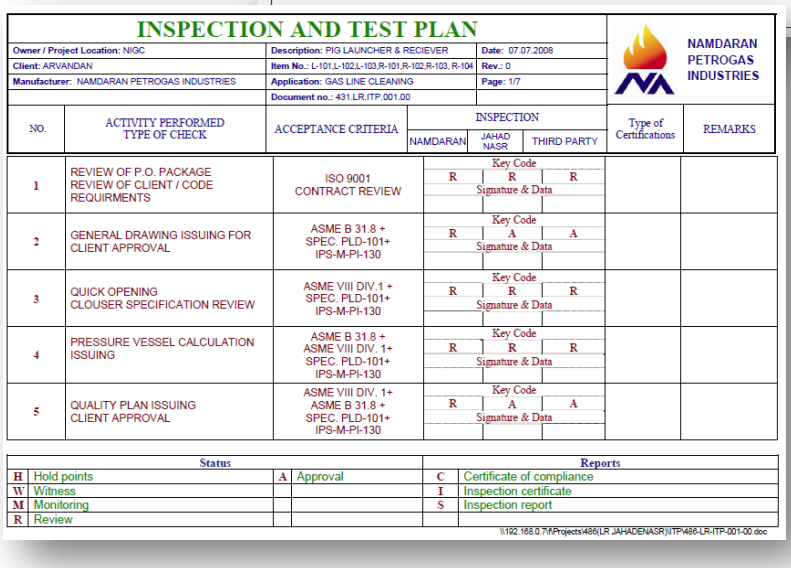
REV.	DOC. NO.	DESIGNED	CHECKED	APPROVED	DATE
1	Offer no. 304	Majidi	Talebi	Zakizadeh	Oct 13,2008
0	Offer no. 304	Razaghi	Talebi	Zakizadeh	Jun 06,2008

کلیه مراحل ساخت شامل طراحی، خرید متریال مصرفی و خام، پروسه ساخت، کنترل ابعادی، آزمایشات کنترل کیفی غیر مخرب و تست هیدرو استاتیک، عملیات سند بلاست و رنگ آمیزی وبسته بندی منطبق باITP تایید شده انجام میپذیرد و مدارک زیر تحت عنوانFinal Book تحویل کارفرما می گردد.

- Inspection and test plan(ITP)
- Process calculation (if any)
- Mechanical calculation
- Welding Procedure Qualification Record (PQR)
- Welding Procedure Specification (WPS)
- Welder Performance Qualification (WPQ)
- As built drawings
- Raw material certificates
- NDT report including PT,RT,UT & MT
- Dimensional check report
- Post weld heat treatment graph (if any)
- Hydrostatic test report
- Air leak test (if any)
- Calibration certificates
- Sand blast and painting report
- Pickling report
- Insulation check report (if any)
- FAT test (if any)
- Packing list
- Name plate (copy)
- Inspection book
- Final book







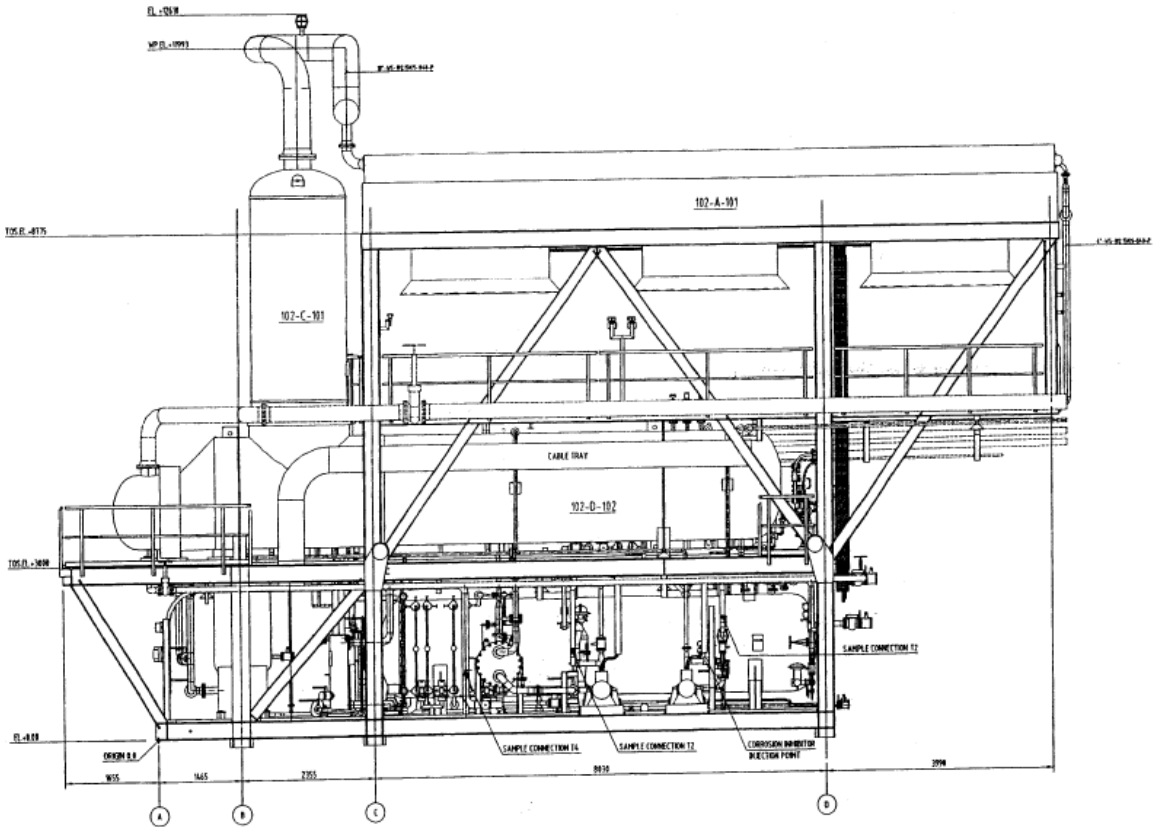
INSPECTION AND TEST PLAN

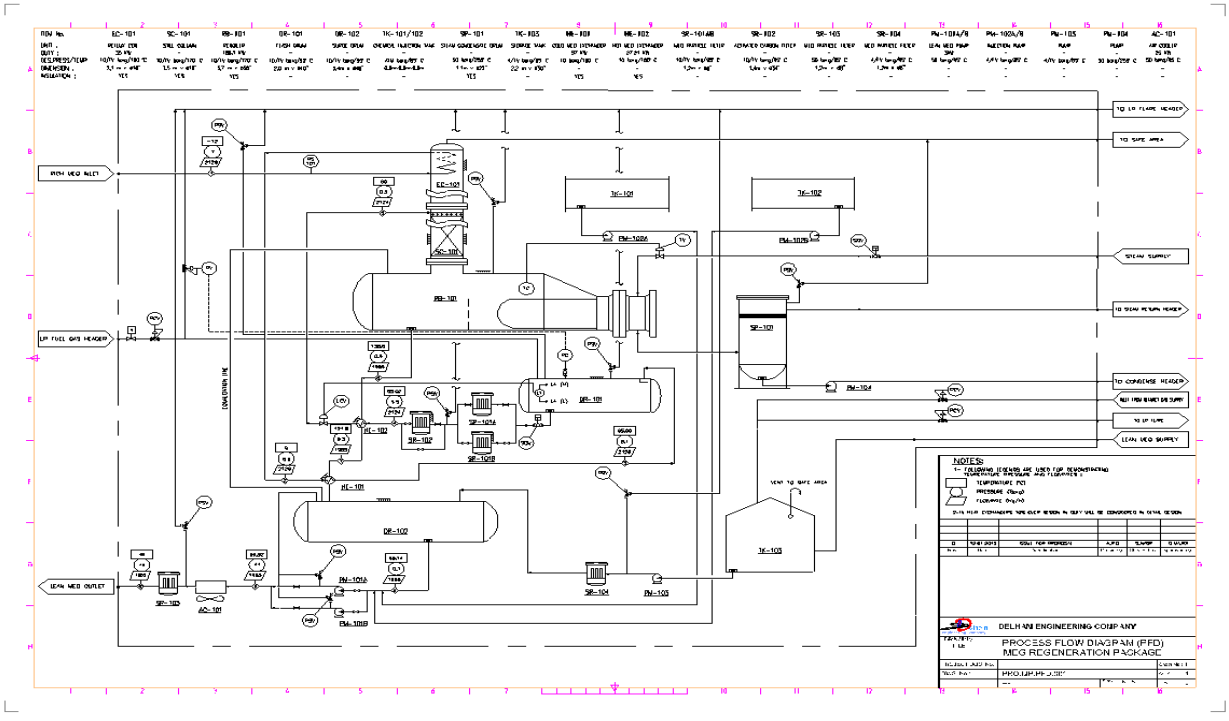
Owner / Project Location: NIGC	Description: PIG LAUNCHER & RECIEVER	Date: 07.07.2008	NAMDARAN PETROGAS INDUSTRIES
Client: ARVANDAN	Item No.: L-101,L-102,L-103,R-101,R-102,R-103, R-104	Rev.: 0	
Manufacturer: NAMDARAN PETROGAS INDUSTRIES	Application: GAS LINE CLEANING	Page: 1/7	
	Document no.: 431.LR.ITP.001.00		

NO.	ACTIVITY PERFORMED TYPE OF CHECK	ACCEPTANCE CRITERIA	INSPECTION			Type of Certifications	REMARKS
			NAMDARAN	JAHAD NASR	THIRD PARTY		
1	REVIEW OF P.O. PACKAGE REVIEW OF CLIENT / CODE REQUIRMENTS	ISO 9001 CONTRACT REVIEW	Key Code R / Signature & Data	Key Code R / Signature & Data	Key Code R / Signature & Data		
2	GENERAL DRAWING ISSUING FOR CLIENT APPROVAL	ASME B 31.8 + SPEC. PLD-101+ IPS-M-PI-130	Key Code R / Signature & Data	Key Code A / Signature & Data			
3	QUICK OPENING CLOUSER SPECIFICATION REVIEW	ASME VIII DIV.1 + SPEC. PLD-101+ IPS-M-PI-130	Key Code R / Signature & Data	Key Code R / Signature & Data	Key Code R / Signature & Data		
4	PRESSURE VESSEL CALCULATION ISSUING	ASME B 31.8 + ASME VIII DIV. 1+ SPEC. PLD-101+ IPS-M-PI-130	Key Code R / Signature & Data	Key Code R / Signature & Data	Key Code R / Signature & Data		
5	QUALITY PLAN ISSUING CLIENT APPROVAL	ASME VIII DIV. 1+ ASME B 31.8 + SPEC. PLD-101+ IPS-M-PI-130	Key Code R / Signature & Data	Key Code A / Signature & Data	Key Code A / Signature & Data		

Status				Reports	
H	Hold points	A	Approval	C	Certificate of compliance
W	Witness			I	Inspection certificate
M	Monitoring			S	Inspection report
R	Review				

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102-A-101
102-C-101
102-D-102
CABLE TRAY
SAMPLE CONNECTION T4
SAMPLE CONNECTION T2
CORROSION INHIBITOR INJECTION POINT
SAMPLE CONNECTION T2


RICH MEG INLET
LP FUEL GAS HEADER
LEAN MEG OUTLET
TO LP FLARE HEADER
TO SAFE AREA
STEAM SUPPLY
TO STEAM RETURN HEADER
TO CONDENSE HEADER
TO LP FLARE
LEAN MEG SUPPLY
EC-101
SC-101
RB-101
DR-101
DR-102
SR-101
SR-102
SR-103
SR-104
SR-105
TK-101
TK-102
TK-103
NOTES:
DELHANI ENGINEERING COMPANY
PROCESS FLOW DIAGRAM (PFD)
MEG REGENERATION PACKAGE

تست و بازرسی

امروزه بازرسی و انجام آزمایشات نقشی اساسی برای کسب اطمینان لازم در کیفیت را ایفا میکند و وجود اطمینان خاطر به هنگام بهره گیری از محصولات و خدمات یکی از خواسته ها و انتظارات مشتریان میباشد. برای تحقق این اطمینان شرکت نامداران بازرسی در زمینه های مختلف را اعم از خرید مواد اولیه تا ساخت کامل تجهیزات با دقت و کیفیت بسیار بالا به انجام میرساند.

از آنجا که در استانداردهای مدیریت کیفیت از عملیات جوشکاری به عنوان فرآیند خاص نام برده می شود، بازرسی و کنترل کیفیت این عملیات نیز اهمیت فوق العاده ای پیدا می کند. که در این امر نیز شرکت نامداران آموزش و استفاده از جوشکاران متعهد را در سرلوحه کار خود قرار داده است که میتوان به کیفیت بالای جوشها مطابق استانداردهای بین المللی اشاره نمود.

در راستا اطمینان در کیفیت و آسایش خاطر کارفرمایان محترم، شرکت نامداران ازشرکت های بازرسی داخلی و بین المللی (مورد درخواست کارفرما) برای دستیابی به اهداف کیفی خود استفاده کرده و در نهایت شرکتهای مذکور گواهی تطابق برای محصولات این شرکت تحت عنوان Release note صادر مینماید.





تحقیق و توسعه

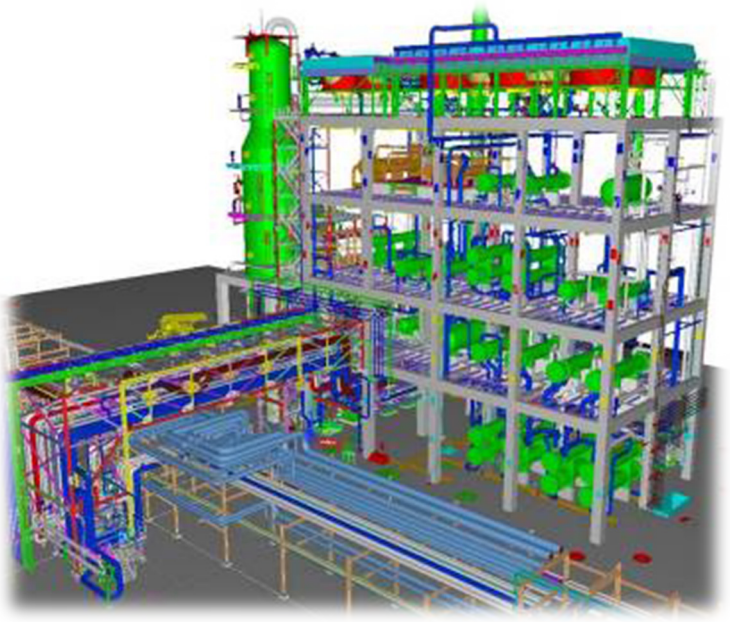
امروزه گسترش بازارهای رقابتی در جهان تأثیر عمیقی بر اقتصاد کشورهای درحال رشد گذاشته است. لزوم ارائه محصولات و خدمات برتر از سوی شرکتها در این کشورها نیز ضرورت ایجاد واحدهای R&D را اهمیت بخشیده است.عبارت «تحقیق (Research) «عموماً به تحقیقات پایه و تجربی اطلاق می‌شود که منجر به تولید دانش می‌شوند و عبارت «توسعه (Development) «به کاربردی کردن و بهره‌وری از دانش اطلاق می‌گردد. عبارت «تحقیق و توسعه (Research and Development)«صرف نظر از معنای لغوی، به فعالیت‌هایی اطلاق می‌شود که تحت حمایت واحدهای خاصی از کارخانجات، دانشگاه‌ها و آژانس‌های رسمی انجام می‌گیرند. سرمایه‌ای که در یک کشور به بخش R&D اختصاص داده می‌شود، نمایانگر وضعیت صنعت، میزان رقابت صنعتی و میزان پیشرفت می‌باشد. بنابراین شرکتها با تأسیس واحدهای R&D به دنبال اهدافی همچون پرداخت هزینه کمتر، تولید بیشتر، محصولات کارآمدتر و در نتیجه افزایش قیمت سهام خود هستند.

مأموریت این واحد در شرکت، ایجاد بستری مناسب برای تبیین، برنامه‌ریزی، هماهنگی اجراء و کنترل فعالیتهای تحقیقاتی در جهت ارائه راهکار علمی برای حل مسائل در زمینه‌های مختلف است.

با این تعریف شرکتهایی در رقابت موفق هستند که با بکارگیری تکنولوژی و دانش، محصولاتی با سطح بالایی از کیفیت و نوآوری تولید کنند و پاسخگوی نیاز روز مشتریان خود باشند. از آنجا که نگاه این شرکت به R&D به عنوان منبعی مهم برای نوآوری و محرکی مهم برای رشد اقتصادی می‌باشد، از این رو واحد تحقیق و توسعه شرکت صنایع پترو گاز نامداران با هدف رسیدن به خود کفایی در ساخت تجهیزات صنعت نفت، گاز و پتروشیمی در کشور احداث گردید و توانست جهت این امر مهم گامهایی نه چندان کوچک برداشته و تا به حال موفق به تدوین تکنولوژی جهت ساخت تجهیزات نامبرده شده ایم.

همچنین به شرح زیر طرحهای به اتمام رسیده این شرکت به استحضار میرساند.

- Gas sweetening package
- Desalting units
- Hot oil units
- Fired heater package
- Slug catcher (finger type)



Absorption Packages with MEG, TEG and DEG

DESCRIPTION



Namdaran Petrogas Industries (NPI) absorption packages are the most used in separation processes in oil, gas and petrochemical industries since they have multiple usage of fluids to make the separation procedure more applicable by using MEG (mono ethylene glycol), TEG(tri ethylene glycol) and DEG(de ethylene glycol).

Absorption process usually carries out under pressure using liquid solvent of higher molecular weight than that of the vapors being recovered. vapors are then separated from the rich solvent, which is recycled in the process as the lean solvent.

For a better figuration , the wet natural gas enters the absorption vessel(glycol contractor) near its bottom and flows upward through the bottom tray to the top tray and out at the top of the vessel. Usually six to eight trays are used .lean (dry) glycol is fed at the top of the vessel and it flows down from tray to tray, absorbing water vapor from natural gas. The rich (wet) glycol leaves the bottom of vessel to the glycol regeneration. Then dry natural gas passes through mist mesh to the sales line.

REGENERATION



Glycol regeneration unit is composed of a re-boiler where steam is generated from the water in the glycol. The stream is circulated through the packed section to strip the water from the glycol. Stripped water and any lost hydrocarbons are vented at the top of the stripping column

Adsorption with molecular sieve, Silica gel and Activated alumina

DESCRIPTION

Adsorption by solid bed dehydration

When very low dew points are required, solid bed dehydration becomes the logical choice. It is based on fixed-bed adsorption of water vapor by a selected desiccant.



The system may consist of two bed or three bed or multi bed operation. In three bed operation, if two beds are loading at different stages, the third one would be regenerated. The feed gas in entering the bed form the top and the upper zone becomes saturated first. The second zone is mass transfer zone and is being loaded. The third zone is still not used and active. While the bed is in operation the out let concentration has very low water concentration and the mass transfer zone moves downward. At a certain point the outlet water content rises to the point that is equivalent to the initial wet gas content as if bed is not present. Thus, the beginning of this period is called the breakthrough period. Closing valve after the bed has been used and loaded with water, and then it is regenerated by hot gas and then cooled by switching to cold gas. The approximate temperature profile for inlet gas temperature during heating and cooling of the bed to desorb water, and then to cool the bed to prepare it for next cycle and the outlet gas temperature in the same period.

APPLICATION

- Dehydration of natural gas
- Hexane purification unit
- NGL and LPG sweetening unit

Desalting Unit

DESCRIPTION

The salts that are most frequently present in crude oil are calcium, sodium and magnesium chlorides. If these compounds are not removed from the fluid several problems arise in the refining process. The high temperatures that occur downstream in the process could cause water hydrolysis, which in turn allows the formation of corrosive hydrochloric acid. Sand, silts and salt cause deposits and foul heat exchangers. The need to supply heat to vaporize water reduces crude



pre-heat capacity. Sodium, arsenic and other metals can poison catalysts. By removing the suspended solids, they are not carried into the burner and eventually flue gas, where they would cause problems with environmental compliance such as flue gas opacity norms Crude oil often contains water, inorganic salts, suspended solids, and water-soluble trace metal elements. Step 1 in the refining process is to remove these contaminants so as to reduce corrosion, plugging, and fouling of equipment and to prevent poisoning catalysts in processing units.

The two most typical methods of crude-oil desalting are chemical and electrostatic separation, and both use hot water as the extraction agent. In chemical desalting, water and chemical surfactant (demulsifiers) are added to the crude, which is heated so that salts and other impurities dissolve or attach to the water, and then held in a tank to settle out. Electrical desalting is the application of high-voltage electrostatic charges to concentrate suspended water globules in the bottom of the settling tank. Surfactants are added only when the crude has a large amount of suspended solids. A third (and rare) process filters hot crude using diatomaceous earth.

Chemical Injection Package

DESCRIPTION

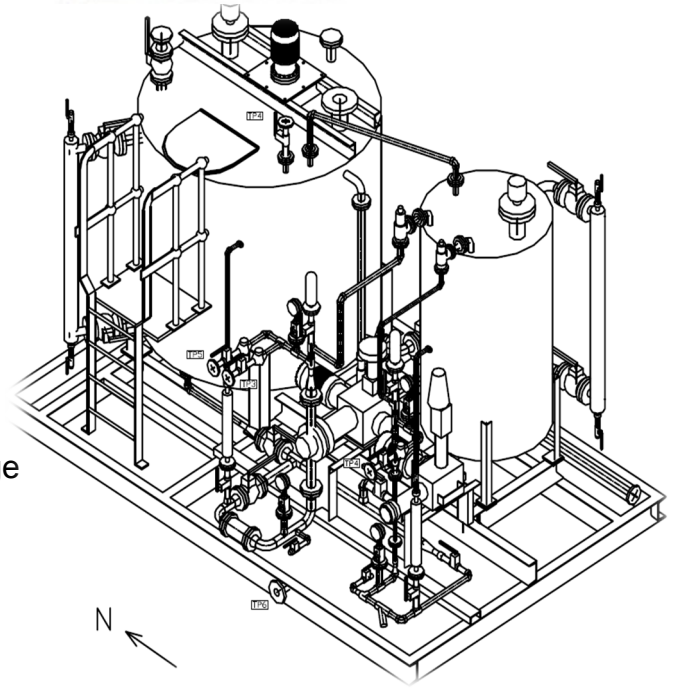
We create tailor made packages and skids engineered to your specifications, compliant with international standards (e.g. ASME, API, ATEX), and synchronized with our global project handling and fabrication facilities. Let us take care of the details: with the latest know-how, we design your package and take full functional responsibility. As leading pump manufacturer, we do not compromise on the quality of the main equipment.

Standard Chemical Injection Systems are predesigned, packaged and fully tested for a wide range of liquid chemical treatment application .The complete system includes a chemical storage tank, two 100% metering/dosing pumps, instruments, tubing, valves, calibration column and filtration.



SERVICES

- MEG pump package
- HP separator injection pump package
- Methanol injection package
- Caustic solution dosing package
- Anti foam agent unit
- Catalyst dosing unit
- Biocide & corrosion inhibitor dosing package
- Hypochlorite dosing package



Direct /Indirect Fired Heater

DESCRIPTION

The purpose of a fired heater is very simple; To add heat to a process fluid. Its representation on a process flow diagram is also very simple. But, of course, fired heaters are among the most complex pieces of process control equipment. Each furnace is, after all, at least two pieces of equipment in one. Firstly, it is a special variant of the shell and tube heat exchanger since its purpose is to exchange heat. Secondly, it is a chemical reactor in which fuel and air undergo extremely exothermic reactions to produce the required heat.



DESIGN CODE

- API standard 560 third edition, MAY 2001
- API RP530
- API 560
- ASML code
- API 535

DESIGN BASIS

- Tailored design to meet design requirements
- Main design parameters: efficiency and heat flux
- Optimization between efficiency and cost

CONTROL SYSTEM

Namdaran petrogas industries co. designs control systems to meet your specific process requirements. This includes system upgrades for existing equipment, as well as new heater control systems.



Indirect Water Bath Heater

DESCRIPTION



Water Bath Heaters are Indirect Fired Type usually designed to API 12K, these devices are traditionally used to heat natural gas and oil.

Namdaran Petrogas Industries Co. designed heaters operate on an indirect heating basis which consists of a water bath with two high pressure inspiriting natural draft burners firing into immersion tubes. A separate serpentine tube bundle immersed into the water bath is used to transfer and absorb heat into the process natural gas.

The principle of indirect or bath type heating has been around for decades meaning modern units are very reliable. Designed and constructed in accordance with API 12K as standard, the bath heaters comprise a horizontal, cylindrical heating tank containing the heat transfer medium, into which the fire tube and process heating coil are immersed. Custom designs to other codes such as ASME are available.

STYLES



- Water or Water/Glycol Bath Heating to 80-90 °C
- Steam Bath heating to 110 °C
- Oil Bath heating to 250 °C
- Salt Bath heating to >350 °C
- Water Bath Heaters can also be used for heating.
- Regeneration Gas Heating
- Heat Transfer Fluids
- Heat sensitive gas and fluids
- Molten Salt Heaters & Crude Oil
- Vaporizing and superheating LPG & LNG.

Heat Exchenger

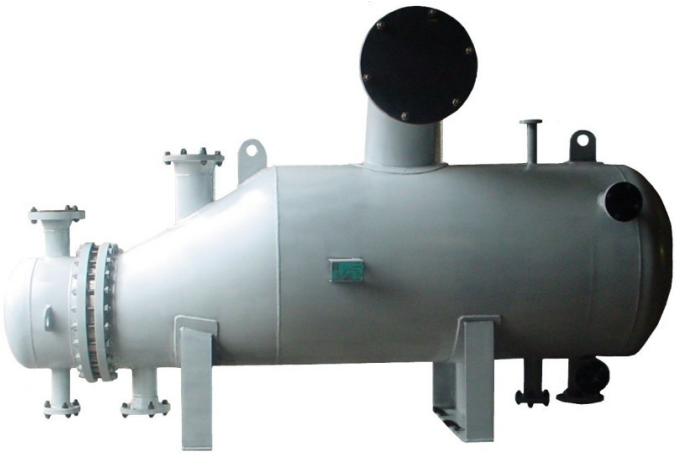
DESCRIPTION



A Heat Exchanger is a piece of equipment built for efficient heat transfer from one medium to another. The media may be separated by a solid wall, so that they never mix, or they may be in direct contact. They are widely used in space heating, refrigeration, air conditioning, power plants, chemical plants, petrochemical plants, petroleum refineries, natural gas processing, and sewage treatment. The classic example of a heat exchanger is found in an internal combustion engine in which a circulating fluid known as engine coolant flows through radiator coils and air flows past the coils, which cools the coolant and heats the incoming air.

FEATURES

- Connections: Standardized sizes for easy assembly additional thread and surface protection for clean installation.
- Tube sheet: Stainless steel straight or u-tubes in carbon steel shell. Available in a variety of diameters and lengths, shell and tube heat exchanger transfer large amounts of heat at a relatively lower cost.
- Gaskets : High quality compressed fibers(reusable)
- Head : Standard cast-iron or steel head for heavy duty service(also available as a spare part)
- Mounting : Saddles attached with standard units for quick and easy mounting
- Baffles: Punched baffles with minimum clearances between tubes assure correct fluid flow and minimized bypass.
- Shell: Welded shell protected with high quality paint for corrosion resistance.





Electrical Heater

DESCRIPTION

Our unique design approach and extensive range of cortication offers simple solutions to complex requirements. NPI design teams support customers from the conceptual design throughout the life cycle of the equipment.NPI meets the stringent requirements of design codes international standards and client specifications. Our design features allow us to provide heating solutions for extreme processes from cryogenic service to gas regeneration and for pressures in excess of 500bar. Element to tube sheet sealing using bite coupling design, automated orbital welding or cartridge elements inserted in pockets to facilitate withdrawal of the elements without the need to drain the system

- Single heaters up to 5MW.
- High temperature assembly.
- Thruster or on/off channels.
- Thermal & Electrical design.
- Process & Mechanical design .
- Instrumentation requirements.
- Custom built designs for higher capacities

STYLES

- Complete design and supply of skid mounted or package.
- Responsibility for all stages of project execution, including;
- Initial study
- Mechanical, electrical and process design
- Skid assembly for mechanical, electrical and instrumentation
- In house manufacturing and testing
- Site supervision, commissioning and training

Electrical heater skid package







Flare Package

DESCRIPTION

Namdaran Petrogas Industries (NPI) flare's Services offer a unique approach to supporting the oil and gas industry with the design, supply of flare systems both onshore and offshore. Our focus is based upon providing a service dedicated to meeting targets of low operational and maintenance costs together with reduced environmental impact, wherever possible.



TYPES

Tips:

- Pipe Flares
- Single Point Sonic Flare
- Multi Point Sonic Pipe Flare
- Enclosed /Ground /Concealed Flares
- Vent Tips / Cold Flares
- Assist Gas Flares
- Steam Assist Flares

Supports:

- Derrick supported flares
- Guy supported flares
- Self supported flares



ACCESSORIES

- Knock-out Drum
- Liquid Seal
- Molecular Seal
- Burn pit
- Ignition system
- Control panel system

BURN PIT

A burn pit is installed only onshore and generally for manual intermittent operations. The burn pit consists of:

- A pit.
- A pipe feeding the pit by gravity.
- Pilots.

Distillation Towers and Columns

DESCRIPTION

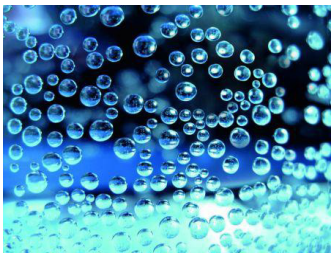
There are two different methods of separation process in distillation columns and towers:

Fractional Distillation:

separation of a mixture into its component parts, or fractions, such as in separating chemical compounds by their boiling point by heating them to a temperature at which one or more fractions of the compound will vaporize. It is a special type of distillation. Generally the component parts boil at less than 25 °C from each other under a pressure of one atmosphere (atm). If the difference in boiling points is greater than 25 °C, a simple distillation is used.

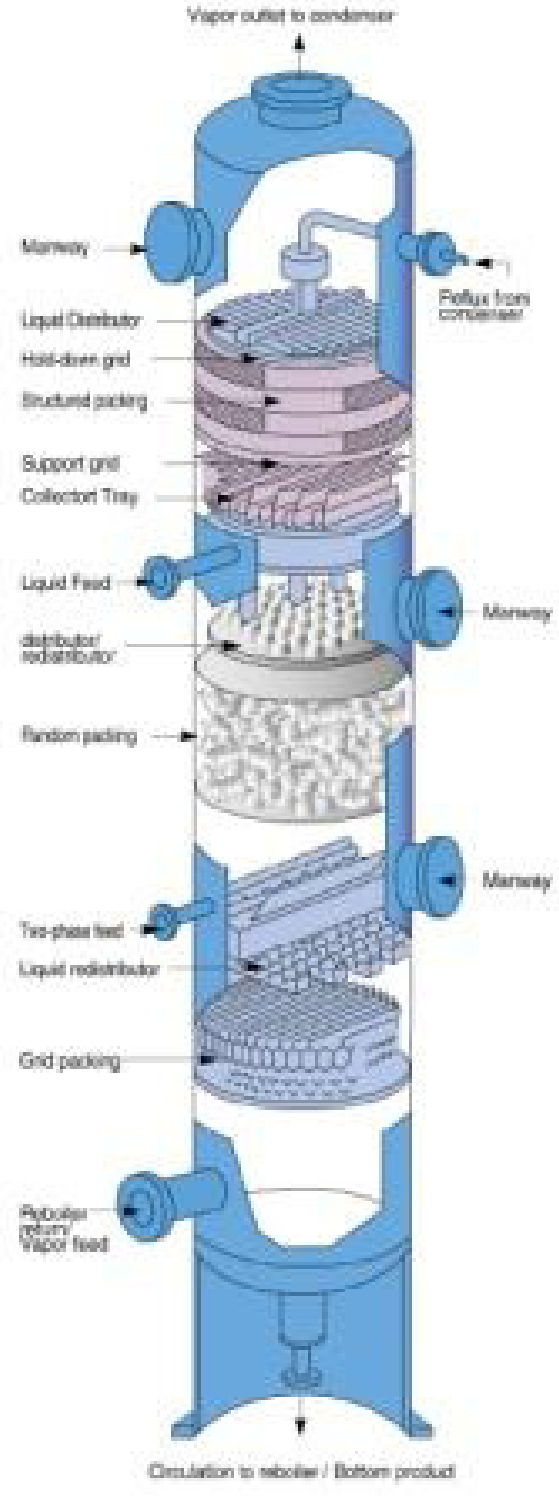
Simple Distillation:

In simple distillation, all the hot vapors produced are immediately channeled into a condenser that cools and condenses the vapors. Therefore, the distillate will not be pure – its composition will be identical to the composition of the vapors at the given temperature and pressure. As a result, simple distillation is usually used only to separate liquids whose boiling points differ greatly (rule of thumb is 25 °C),[14] or to separate liquids from non-volatile solids or oils.









Test Separator

DESCRIPTION

- Configuration and flexibility of internal components allow use of a standard man way.
- Pressure safety valve on vessel with relief line to edge of skid, diagonally opposed grounding



points on base-skid, and explosion-proof lighting at the front and rear of the unit enhance operational safety .Liquid meters enable analog and digital recording options.

- Flanged adapter spools provided to allow retrofit of alternative liquid meter types.
- Flanged nozzle provision on vessel to allow optional Hi-Lo pressure and level alarms and shutdown sensors.
- Four-point lifting sling and integral forklift pockets provide flexibility to handling and movement.
- Skid-mounted tool box containing ancillary equipment improves operational efficiency.

APPLICATIONS & OPTIONS

Applications

- Offshore and land operations
- Drill stem testing
- Well cleanups
- Production/well testing
- Early-production facilities

Options

- Hi-Lo pressure and level alarms
- Electronic data acquisition system
- Other sizes and specifications available upon request.

ADVANTAGES & BENEFITS

- Pressure, temperature, and sampling ports on inlet and outlet lines enable maximum measurement and sampling in all phases.
- Full-bore bypass manifold with isolation valves enables routing of inlet effluent to gas, oil, and water outlets.
- Check valve fitted to vessel inlet nozzle.

Slug Catcher

DESCRIPTION

Systems harp type separator /slug catcher is a versatile device for catching slugs and separating liquid and solid particles from pipeline gas. It is built from high strength material and in its larger sizes can offer cost and delivery savings over vessel type slug catchers.



The units can be furnished completely engineered including the pig trap, separator/slug catcher, foundation and instrumentation The separator/slug catcher can be buried below ground or placed on piers above ground as conditions require. Controls can be integrated into the existing systems. The system can be split in two halves for redundant operation and/or sequential construction. Effective level controls are normally installed, including a vent line from a level column near the liquid manifold to the gas out manifold. Effective level controls are normally installed, including a vent line from a level column near the liquid manifold to the gas out manifold. With proper interconnections and the addition of interface controls, the sludge manifold can be used to effectively separate water from hydrocarbon liquids. If liquid particles smaller than 50 microns are to be removed from the gas stream, separator elements can be added to the dry gas manifold or downstream of the slug catcher.

APPLICATION

- Hi-Lo pressure and level alarms
- Electronic data acquisition system
- Other sizes and specifications available upon request.

TYPES

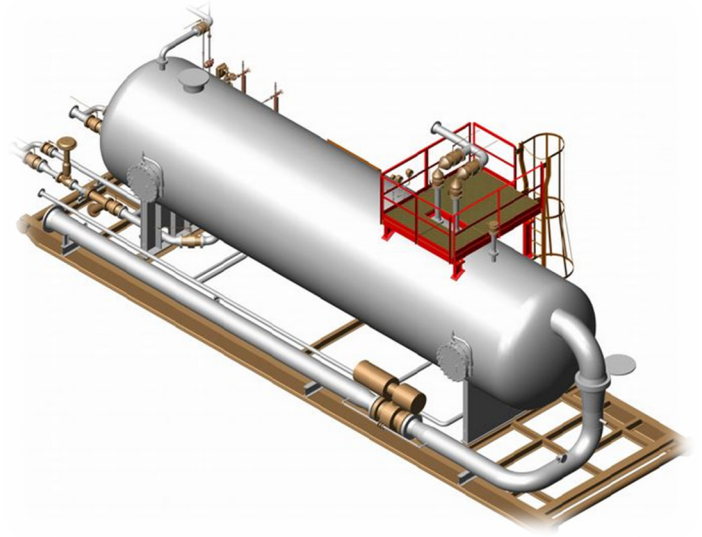
- Vessel type (vertical and horizontal)
- Finger type
  The purpose of a finger-type slug catcher is to separate the liquid condensate from the natural gas.

Two/Three Phase Separation

DESCRIPTION

Separators are available for two-phase operation and three-phase operation. In the two-phase units, gas is separated from the liquid with the gas and liquid being discharged separately. Oil and gas separators are mechanically designed such that the liquid and gas components are separated from the hydrocarbon steam at specific temperature and pressure.In three-phase separators, well fluid is separated into gas, oil, and water with the three fluids being discharged separately. The gas-liquid separation section of the separator is determined by the maximum removal droplet size.The oil-water separation section is held for a retention time that is provided by laboratory test data, pilot plant operating procedure, or operating experience. In the case where the retention time is not available, the recommended retention time for three phase separator is used.





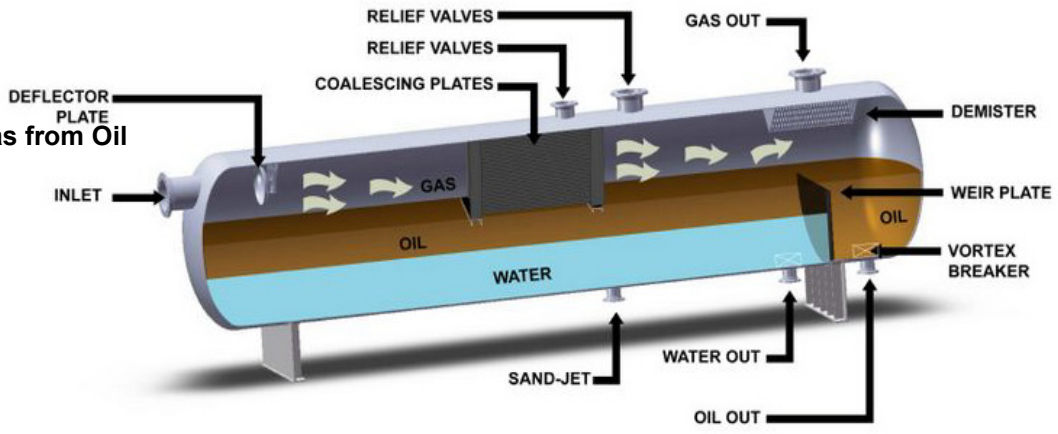
INSTRUCTIONS

Methods Used To Remove Oil from Gas

- Density Difference (Gravity separation)
- Impingement
- Change of Flow Direction
- Change of Flow Velocity
- Centrifugal Force

Methods Used To Remove Gas from Oil

- Settling
- Agitation
- Heating
- Centrifugal Force



Gas Scrubber/ Filter Scrubber

DESCRIPTION

The NPI Two-stage absolute separator utilizes all the forces of mechanical separation. The primary separation section in use to decrease the liquid and/or solids loading in the gas stream. This is accomplished through the use of NPI proprietary separating device such as its high efficiency inertial vanes or its multi cyclone packs. Proper liquid separation is imperative to ensure maximum life and efficiency of the final separation elements.

The NPI Absolute Separator is a multistage device. At the inlet of the Primary Separation section, small diameter cyclones or vanes remove liquid and solid particles by utilizing the dynamics of centrifugal force and gravity, by removing the bulk of the entrained liquid in this stage, the NPI design increases the life of the Fetal Separation Elements and holds the pressure drop buildup to a minimum. This allows for lime between changing the elements .reducing operating cost and down time.The final separation select utilizes high efficiency coalescing element which are cylindrical, fibrous vacuum formed elements with a controlled pore structure. The result is a seamless tube with a matrix of micro- fibers having up to 95% void fraction. This design offers lower maintenance costs by extending the element life.





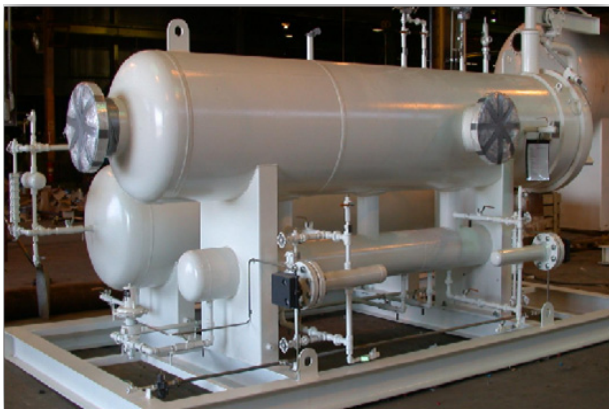


Gas Filter Separator

DESCRIPTION



Namdaran Petrogas Industries separation units are engineered in a wide variety of configurations to meet your specific production needs and requirements for volume, gravity, pressure, foaming, paraffin, hydrates, impurities, corrosion, and other production parameters. We design and manufacture either standard or custom separation units with equal quality and reliability. All Namdaran separation units are provided with sufficient instrumentation and control devices necessary to ensure safe and continuous operation.



TYPES OF SEPARATION UNIT

- Horizontal Separator
- Vertical Separator
- Separators can be either
- Two Phase Separator
- Gas - Liquid
- Liquid - Liquid
- Three Phase Separator
- Gas - Liquid - Liquid
- Cyclone Separator

CODES AND STANDARDS

Design:	ASME Sec. VIII Div.1 & 2,BS 5500
Fabrication:	ASME Sec. VIII
Welding:	ASME Sec. IX
NDT:	ASME Sec. V
Range:	5,000 to 25,000,000SCFH
Pressure rating:	ANSI 150# to 2500#

Pressure Vessel

DESCRIPTION

Pressure vessels are used in a variety of applications in both industry and the private sector. They appear in these sectors as industrial compressed air receivers and domestic hot water storage tanks. Other examples of pressure vessels are diving cylinders, recompression chambers, distillation towers, autoclaves, and many other vessels in mining operations, oil refineries and petrochemical plants, nuclear reactor vessels, submarine and space ship habitats, pneumatic reservoirs, hydraulic reservoirs under pressure, rail vehicle airbrake reservoirs, road vehicle airbrake reservoirs, and storage vessels for liquefied gases such as ammonia, chlorine, propane, butane, and LPG.
The pressure differential is dangerous and many fatal accidents have occurred in the history of their development and operation. Consequently, their design, manufacture, and operation are regulated by engineering authorities backed by legislation. For these reasons, the definition of a pressure vessel varies from country to country, but involves parameters such as maximum safe operating pressure and temperature.









Dry Gas Filter

DESCRIPTION





All gas lines have dry contaminants (such as pipe scale, dirt, and rust) that will damage or even destroy your downstream equipment. Using a Namdaran Petrogas Industries “NPI“ Dry Filter will remove all forms of dry contamination, lengthening the life of your equipment and saving thousands of dollars in maintenance costs. Namdaran Petrogas Industries range of Dry Gas Filter is multiple elements filter designed for filtering dust and other solids from gas flows with a minimum pressure drop.Namdaran Petrogas Industries Dry Gas Filters offer efficient and effective removal of dust and other solids from gas flows at relatively low pressure drop. The larger, heavier particles settle to the bottom of the inlet chamber upon entering. The gas then passes through the filter elements which trap and retain the finer particles. A ‘Quick Opening End Closure’ is provided for access to and cleaning or replacement of the filter elements. The life cycle of the filter is dependent upon dust and dirt loading and the corresponding increase in pressure drop.

FEATURES

- **Standard Configurations**
  NPI Dry Gas Filters are available in a variety of sizes and configurations to meet virtually any piping configuration.
- **Mechanical Features**
  ASME Pressure Vessel Code, Section VIII, Div. 1, and Div. 2
  Standard Filters are constructed of carbon steel, however, Filters can be custom designed and built from stainless steel and other steel alloys.
  High efficiency Elements can be either in carbon steel or stainless steel construction.

Basket Strainer

DESCRIPTION

Namdaran Petrogas Industries fabricated strainers are designed and fabricated to ASME Section VIII, and/or applicable ANSI codes. Standard size ranges are, but not limited to, 8" to 56" with 150#, 300# , 600# ANSI ratings with the capability to supply units with 900#, 1500# and 2500# ratings. Basket and body sizes can be tailored to suit any pressure drop or space requirements the customer might have. Standard materials of construction are carbon and stainless steel; however NPI can and does fabricate basket strainers to meet your requirements from almost any alloy. The basket strainer can be installed in horizontal pipelines only. Our standard sized body basket strainers are designed around minimum room requirements talking up proportionally the same amount of space as a cast unit.







FEATURES

- Flanged, butt-weld, grooved, socket weld and
- Screwed inlet/outlet connections available.
- Automatic/manual flush
- Flange, Clamp and Quick opening closure.
- Full range of NDE/NDT testing
- Steam jacketing
- Special coatings
- Mounting legs
- Multi basket design
- Easy maintenance

CODES AND STANDARDS

Size:	From 6" to 56"
Operating Pressure:	Up to 2500 psig
Design:	ASME Sec. VIII Div.1 & 2
Fabrication:	ASME Sec. VIII
Welding:	ASME Sec. IX
NDT:	ASME Sec. V

- Configuration and flexibility of internal components
- Allow use of a standard man way.
- Pressure safety valve on vessel with relief line to edge of skid, diagonally opposed grounding points on base-skid, & explosion-proof lighting at the front and rear of the unit enhance

Pig Launcher & Receiver Trap

DESCRIPTION

Pig launchers are used to launch the pig into the pipeline, and pig receivers are used to receive the pigs after they have made a successful run. The choice of these pig traps will depend on the type of pig to be run and pipeline design conditions. The purpose of a pig launcher or receiver is to introduce or retrieve pigs, spheres or inspection tools from a pipeline. Launchers and receivers are built to suit the specific requirements of a pipeline.

Pig launcher and receiver, 64” x 56” class 600



Offshore automatic Pig receiver,24”x20” class 1500



CODES AND STANDARDS

Design:	ASME Sec. VIII Div.1 & 2 , ANSI B31.3, B31.4, B31.8,NACE, BS 5500
Fabrication:	ASME Sec. VIII
Welding:	ASME Sec. IX
NDT:	ASME Sec. V
Size:	From 6” to 64”
Pressure rating:	ANSI 150# to 2500#

Offshore automatic Pig receiver ,36”x32” #900



Insulating Joint

32", Class 900#







DESCRIPTION

Namdaran Petrogas Industries Insulating Joint (NIJ) is a high-resistance fitting used to electrically isolate sections of a pipeline to improve the effectiveness of cathodic protection systems and to reduce ground-loop currents. Unlike insulating flanges or flange kits that are field assembled and tested, the NIJ is factory assembled, electrically tested at different stages of manufacturing, and hydrostatically tested. The NIJ is provided with extension nipples that match the pipeline wall and grade and are long enough to eliminate any possibility of thermal damage to the NIJ during field welding.

- Are boltless, rigid pipeline components, factory-welded and ready for installation
- Maintenance-free
- A design which has proven successful throughout the world even for highest requirements
- Suitable for underground installation without the need for special precautions or for above ground installation

MATERIALS

- Pipes, e.g. in accordance with DIN, API, ASTM-A and other standards
- Seamless rings made of plate material or of forged quality, depending upon requirements and design calculations
- Seals of aging-resistant material, Viton, NBR, EPDM and other materials.
- Insulating materials made of tried and tested materials with application-specific properties
- Size: From 6" to 56"

Split Tee with/without guide bar

DESCRIPTION

Namdaran Petrogas Industries also provides the 6"-56” Split Tee with guide bar. The guide bar block the tapped hole, keeping the line pig gable.

Natural gas transmission and distribution companies need to make new connections to pipe line many times a year to expand or modify their existing system using split tee without shutting down operation of system.

The Split Tee is an extruded or welded type. The fitting is furnished with a flange that is pressure rated to match ASME standard flanges. It is used with hot tapping and/or plugging machines to tap and temporarily plug the line for maintenance, without shutdown.

CODES AND STANDARDS

Design: ANSI / ASME B 31.8
Fabrication: ASME Sec. VIII
Welding: ASME Sec. IX
NDT: ASME Sec. V
Size: From 6” to 56”
Pressure rating: ANSI 150# to 1500#

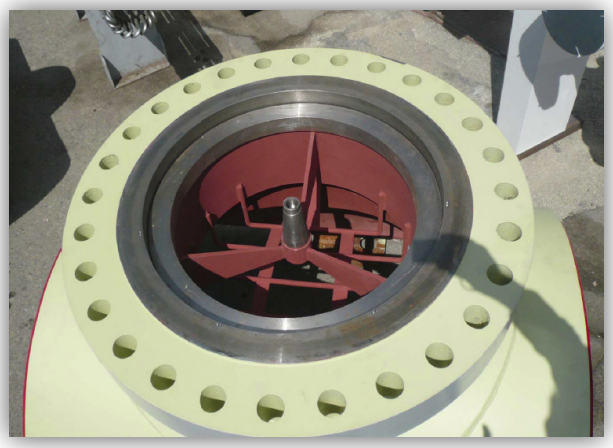
56”x 30”, welded type





56”x 30”, Extruded type





Anchor Flange

DESCRIPTION

Anchor flange is an important element in many thrust-control systems, especially those protecting pipeline pumping stations. Welded into the line and encased in concrete, they immobilize the pipe at predetermined locations and transfer built-up stresses to external structures.

- Restraining the movement of pipeline sections is a design factor that must be considered particularly at points of directional change, connections to equipment at meter run locations, at river crossings, and for pipe runs at locations of discontinuity of restraint from the earth surrounding the line.
- Forged steel Anchor Flanges are pressure retaining members that butt weld directly into the pipeline and provide an integral "flange" or collar which can transmit restraint from an anchor to the pipeline.

CODES AND STANDARDS

Design:	ASME Sec. VIII Div.1 & 2
Fabrication:	ASME Sec. VIII
Welding:	ASME Sec. IX
NDT:	ASME Sec. V
Size:	6” to 56”

56”, class 600#



48”, class 600#



48”, class 600#





صنایع پتروگاز نامداران
Namdaran Petrogas Ind.

Quick Opening Closure

DESCRIPTION

Namdaran Petrogas Industries closures provide horizontal or vertical access to pipeline pig traps, filters, coalesces, strainers, separators, meter skid systems, hydro cyclones, or any other type of pressure vessel in seconds. Compared with other quick-opening closures they can be operated safely at remarkable speed – any size of closure can be opened or closed by one person in less than one minute, with no special tools required.

FEATURES

- The closures are available to suit a wide variety of vessel sizes and pressures, from 6” to 64” diameter and any pressures from Class 150 up to Class 2500.
- The closures are designed to meet requirements of ASME VIII Div.1. Furthermore, alternative pressure vessel design codes, such as ASME VIII Div.2, PD5500 and EN13445 can also be accommodated.
- The locking mechanism incorporates a hand operated pressure warning screw, which prevents the door being unlocked until there is no residual pressure inside the vessel.
- The closure locking mechanism is a stainless steel conical ring fitted between the door and hub, which transmits loads uniformly to the full 360 degree circumference of the hub

CODES AND STANDARDS

Size:	From 6” to 64”
Class rating:	Up to 10000 #
Design:	ASME Sec. VIII Div.1 & 2
Fabrication:	ASME Sec. VIII
Welding:	ASME Sec. IX
NDT:	ASME Sec. V

64” quick opening closure, class 600#



48” quick opening closure, class 900#



56” quick opening closure, class 600#



Pig Signaler

DESCRIPTION

NPI Pig Indicator or Pig Signaler (**PS**) is an economical solution that can be applied all kind of pigging systems.

The pig signaler is classified in two types: models which are not designed for removal while the line is under pressure, and models which are fitted with an integral valve and suitable for controlled removal when the pipeline cannot be de-pressurized. A simple jacking bracket tool is available for this purpose, consisting of a safety screw mechanism and bridging clamps to allow rapid removal and re-installation of the pig signaler from the line under pressure.

V-EM-W **V-M-W**



PS with DBB valve, class 1500#



TYPES

- Intrusive and none-intrusive
- Valve electrical mechanical welded type
- Valve mechanical welded type
- Valve electrical mechanical flanged type
- Valve mechanical flanged type
- Double block and bleed valve (DBB) is available in case of sampling, injection and isolation in all types for more efficiency. This new assembly provides great savings in weight, space and installation times especially in instrument or instrument cage isolation. These savings can be as much as 60% in weight and studies have shown that a 70% installation time saving is also possible.

FEATURES

The internal moving parts of all models together with the associated pressure housings are made from stainless steel or the equivalent cast material in accordance with NACE Standard MR-0175.

- The ball valve fitted to the pig signalers for the controlled removal of the signalers under pressure, comprises a carbon steel body, stainless steel ball and stem, renewable body seat rings and high-pressure body seals.
- For use at low temperatures, full stainless steel valves are also available.
- The standard base is made from C-MN steel (A350LF2) and supplied with rust preventive protection to make cleaning easy prior to welding. All standard seals are made from Viton /NBR. Alternative seal materials are available.

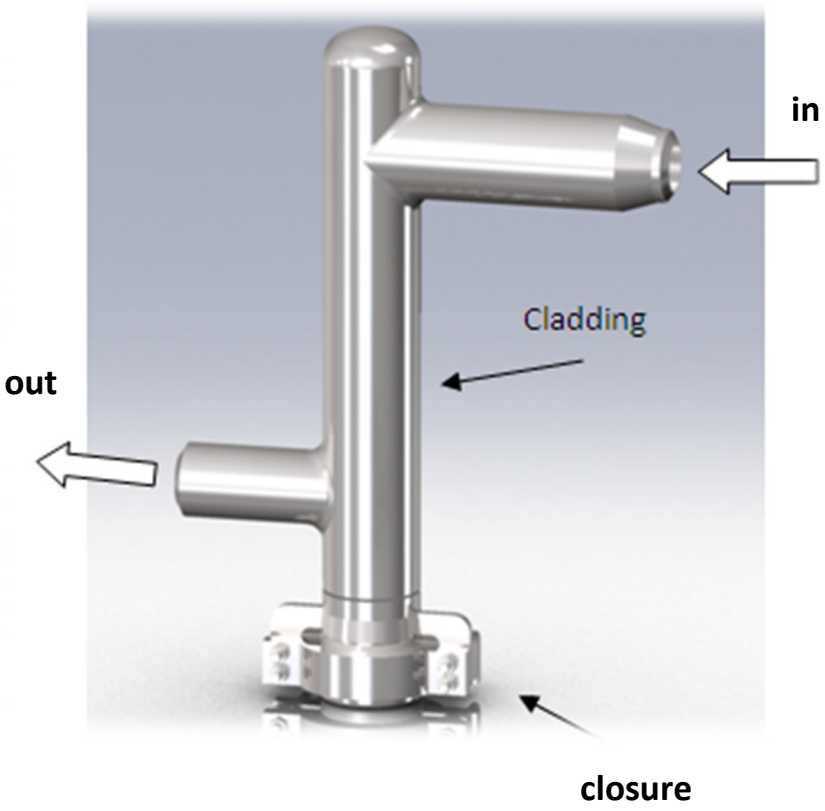
Removal under pressure



Grit Trap

DESCRIPTION

Namdaran Petrogas Industries offers several types of grit traps and stone traps for oil and gas industry, both are designed to international codes. The service is to trap the solid parts, running into the medium coming from the wells. Materials are selected to withstand the severe erosion. Often, to prevent the reduction of wall thickness, the internal body of the trap is hardened through a weld deposit like nickel or cobalt alloy. Traps are equipped by a quick closure or a flanged connection to remove the separated stones.



STANDARDS

- ASME B31.3
- ASME SEC VII Div. 1&2
- API 6A
- MSS SP75
- ANSI B16.9

Size Nominal	Working Pressure	Material pipe	Material of flange
4”	3000 psi	API 5LX52	A694 F52/F60
	5000 psi	API 5LX52	A694 F52/F60
	10000 psi	API 5LX52	A694 F52/F60
6”	3000 psi	API 5LX52	A694 F52/F60
	5000 psi	API 5LX52	A694 F52/F60
	10000 psi	API 5LX52	A694 F52/F60
8”	3000 psi	API 5LX52	A694 F52/F60
	5000 psi	API 5LX52	A694 F52/F60
	10000 psi	API 5LX52	A694 F52/F60

Remark:

- All materials will be supplied NACE MR 0175 / ISO 15156
- Cladding with cobalt satellite 6, Inconel 625, SS 316L and other alloys.

Stone Trap

DESCRIPTION

Namdaran Petrogas Industries offers several types of grit traps and stone traps for oil and gas industry, both are designed to international codes.The service is to trap the solid parts, running into the medium coming from the wells. Materials are selected to withstand the severe erosion. Often, to prevent the reduction of wall thickness, the internal body of the trap is hardened through a weld deposit like nickel or cobalt alloy. Traps are equipped by a quick closure or a flanged connection to remove the separated stones.

4” stone trap class10000#



6” stone trap class3000#



4” stone trap class10000#



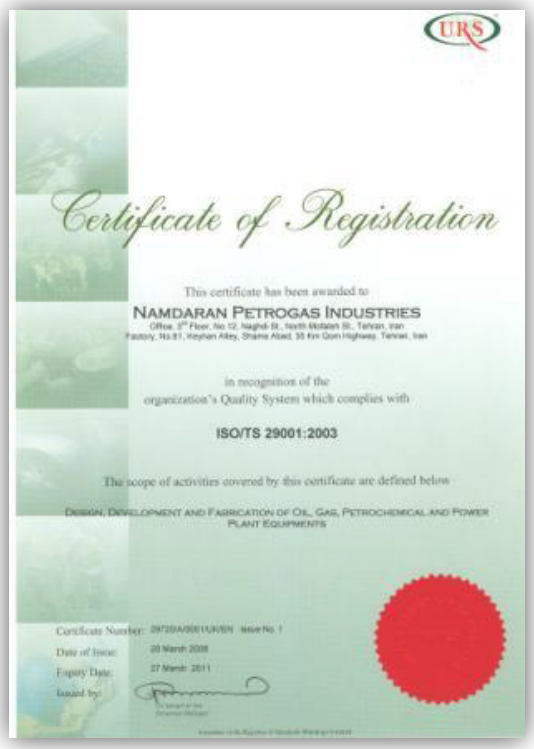
Size Nominal	Working Pressure	Material pipe	Material of flange
4”	3000 psi	API 5LX52	A694 F52/F60
	5000 psi	API 5LX52	A694 F52/F60
	10000 psi	API 5LX52	A694 F52/F60
6”	3000 psi	API 5LX52	A694 F52/F60
	5000 psi	API 5LX52	A694 F52/F60
	10000 psi	API 5LX52	A694 F52/F60
8”	3000 psi	API 5LX52	A694 F52/F60
	5000 psi	API 5LX52	A694 F52/F60
	10000 psi	API 5LX52	A694 F52/F60

Remark:

- All materials will be supplied NACE MR 0175 / ISO 15156
- Cladding with cobalt satellite 6, inconel 625, SS 316L and other alloys.

گواهی نامه ها

انجام کار بر مبنای اصول و استاندارد های مشخص جهت کسب رضایت کارفرما همواره به عنوان اصلی ترین، اصل این شرکت مد نظر بوده و با هدف ارتقاء سطح علمی شرکت با رعایت اصول فنی، کیفی و اقتصادی فعالیت کرده و در راستای اجرای سیستم مدیریت یکپارچه بر مبنای استانداردهای ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007, ISO/TS 29000:2003، رئوس خط مشی خود را در جهت تبدیل شدن به مجموعه ای معتبر در سطح سازندگان تجهیزات صنایع نفت ، گاز ، پتروشیمی و نیروگاهی استوار ساخته و خود را متعهد به اجرای اثر بخش آن می داند


Certificate of Registration

This certificate has been awarded to

NAMDARAN PETROGAS INDUSTRIES

in recognition of the organization's Quality System which complies with

ISO/TS 29001:2003

The scope of activities covered by this certificate are defined below

DESIGN, DEVELOPMENT AND FABRICATION OF OIL, GAS, PETROCHEMICAL AND POWER PLANT EQUIPMENTS


Certificate of Registration

This certificate has been awarded to

Namdaran Petroges Industries

In recognition of the organization's Quality System which complies with

ISO 9001:2000

The scope of activities covered by this certificate is defined below

Design, Development and Fabrication of Oil, Gas, Petrochemical and Power Plant Equipments


Certificate of Registration
This certificate has been awarded to
Namdaran Petrogas Industries
Office: 3rd Floor, No.12, Naghdi St., North Mofateh St., Tehran, Iran; Factory: No.61, Keyhan Alley, Shams Abad, 35 Km Qom Highway, Tehran, Iran
In recognition of the organization's Quality Management System which complies with
ISO 9001:2008
The scope of activities covered by this certificate is defined below
Design, Development and Fabrication of Oil, Gas, Petrochemical and Power Plant Equipments
IAF


Certificate of Registration
This certificate has been awarded to
Namdaran Petrogas Industries
Office: 3rd Floor, No.12, Naghdi St., North Mofateh St., Tehran, Iran; Factory: No.61, Keyhan Alley, Shams Abad, 35 Km Qom Highway, Tehran, Iran
In recognition of the organization's Environmental Management System which complies with
ISO 14001:2004
The scope of activities covered by this certificate is defined below
Design, Development and Fabrication of Oil, Gas, Petrochemical and Power Plant Equipments
IAF


Certificate of Registration
This certificate has been awarded to
Namdaran Petrogas Industries
Office: 3rd Floor, No.12, Naghdi St., North Mofateh St., Tehran, Iran; Factory: No.61, Keyhan Alley, Shams Abad, 35 Km Qom Highway, Tehran, Iran
In recognition of the organization's Health and Safety Management System which complies with
OHSAS 18001:2007
The scope of activities covered by this certificate is defined below
Design, Development and Fabrication of Oil, Gas, Petrochemical and Power Plant Equipments
IAF


Certificate of Registration
This certificate has been awarded to
Namdaran Petrogas Industries.
Office: 3rd Floor, No.12, Naghdi St., North Mofateh St., Tehran, Iran; Factory: No.61, Keyhan Alley, Shams Abad, 35 Km Qom Highway, Tehran, Iran
In recognition of the organization's Integrated Management System which complies with
ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007
The scope of activities covered by this certificate is defined below
Design, Development and Fabrication of Oil, Gas, Petrochemical and Power Plant Equipments



CERTIFICATE
Of Conformity

TÜV NORD

Certificate No.: CAC090503

Holder: Namdaran PetroGas Industries

Product: Quick Opening Closure
(ANSI/ASME Class Rating 600 lb & 900 lb)

Inspected/Tested according to:

ASME Sec VIII DIV. I & DIV. II: 2007

Hereby it is to certify that manufacturing & quality control systems of Namdaran PetroGas Industries for producing Quick Opening Closure were assessed.

Report No. CAC090403 shows that manufacturing method is completely complied with requirements of specified standard.

Date of expire: 2012 Nov. 09

TÜV NORD
TÜV NORD Iran P.J.S.
Product Conformity Assessment

Dr. Kamran Rezaie
Managing Director & Member of Board
TÜV NORD Iran

Tehran, 2009-11-10

CERTIFICATE
Of Conformity

TÜV NORD

Certificate No.: CAC1005003

Holder: Namdaran PetroGas Industries

Product: Pig Detector / Pig Signaler
(ANSI/ASME Class Rating 600 lb)

Inspected/Tested according to:

ASME Sec VIII DIV. I & DIV. II: 2007

Hereby it is to certify that manufacturing & quality control systems of Namdaran PetroGas Industries for producing Pig Detector/ Pig Signaler were assessed.

Report No. CAC1004003 shows that the product as well as manufacturing methods is completely complied with the requirements of mentioned standard.

This certificate has been not issued in accordance with CE or GS disciplines.

Date of expire: 2011 April 17

TÜV NORD
TÜV NORD Iran P.J.S.
Product Conformity Assessment

Dr. Kamran Rezaie
Managing Director & Member of Board
TÜV NORD Iran

Tehran, 2010-04-15