





TECHNOLOGIES P



CERTIFICATE OF AUTHORIZATION

This certificate accredits the named company as authorized to use the indicated symbol This certificate accredits the named company as authorized to use the indicated symbol of the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the Code symbol and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this symbol shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

Keyser Technologies Pte., Ltd. 74 Tuas Avenue 11, 639093 Singapore

SCOPE

Manufacture of pressure vessels at the above location only

AUTHORIZED:

May 22, 2008

EXPIRES:

May 22, 2011

CERTIFICATE NUMBER: 37,575

J.D. Falde Chairman of The Boiler



The American Society of Mechanical Engineers

alen 8 am Director, Accreditation and Certification The American Society of Mechanical Engineers (ASME) is a professional society focused on mechanical engineering known for setting codes and standards for mechanical devices. The ASME was founded in 1880 by Alexander Lyman Holley, Henry Rossiter Worthington, John Edison Sweet and Matthias N. Forney in response to numerous steam boiler pressure vessel failures. The ASME conducts one of the world's largest technical publishing operations through its ASME Press, holds numerous technical conferences and hundreds of professional development courses each year, and sponsors numerous outreach and educational programs.

As of 2006, the ASME has 120,000 members.

Stiftelsen Det Norske Veritas or DNV, established in 1864 in Norway, is a classification society organized as a foundation, with the objective of "Safeguarding life, property, and the environment". It was established in Norway to inspect and evaluate the technical condition of Norwegian merchant vessels. Together with Lloyd's Register and American Bureau of Shipping, DNV is one of the three major companies in the classification society business. DNV has its headquarters in Norway and has 300 offices in 100 countries, with 8,400 employees.

Important industries where the company operates include ship transport, energy, aviation, automotive, finance, food, heath care and information technology. It also conducts research in several fields where it operates.



DET NORSKE VERITAS

MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 43360-2008-AQ-SNG-UKAS

This is to certify that the Management System of

KEYSER TECHNOLOGIES PTE LTD

At

No. 74 Tuas Avenue 11 Singapore 639093

has been found to conform to

ISO 9001:2000

This Certificate is valid for the following product or service ranges

DESIGN, MANUFACTURE AND SALES OF EXPANSION JOINTS AND ASSOCIATED STEEL FABRICATION WORKS.

16 December 2002

15 November 2010

Chui Heng Tak



Singapore, 19 January 2009 for the Accredited Unit: DNV CERTIFICATION B.V., THE NETHERLANDS

> PA Peter D. Dombey

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid. HEAD OFFICE: Det Norske Veritas AS, Veri icu 1, 1322 Hovik, Norway. Tel: +47 67 57 99 00 Fax. +47 67 57 99 11 - www.dox



VISION STATEMENT

Together, we will be the recognised leader in our industry for quality, service and responsiveness to customer needs.

MISSION STATEMENT

Our mission is to provide the highest quality products and services to our customers. We will do this through investments in technology, product innovations, production processes, and the people, who are our asset to growth and profitability. Keyser Technologies shall continually improve the effectiveness of the company's quality management system.

OUR VALUES

- Respect for individuals
- Superior Customer Service
 - Pride in craftmanship
 - Honesty and Integrity
 - Teamwork
 - Strong Work Ethic
 - Simplicity
- An atmosphere of open communications





INTRODUCTION

KEYSER TECHNOLOGIES PTE LTD specializes in the Manufacturing of Thermal Expansion Joints in Singapore. Keyser was established in Year 1995, solely as a Trading Service Company in various products. In Year 1999, Keyser entered into the Metal Expansion Joints Industry and ventured with full steam into the Manufacturing of Metal Expansion Joints. This is where the first KEYFLEX bellow was produced. Since then, Keyser has progressively grown and expanded into many sectors of industry in Singapore, Asia and Pacific regions.

KEYSER TECHNOLOGIES PTE LTD is a diversified company where our main activity is to supply Expansion Joints in Metal, Rubber and Fabric types. We also provide a wide range of services, such as fabrication work and trading services. Quality ASSURANCE - We have obtained the Quality System Standard, as an ISO 9001:2000 Company in Singapore, certified by Det Norske Veritas (DNV). We are also accredited to ASME Stamp by Association of Mechancial Engineers (ASME). With respect to ISO 9001:2000 certification and America Society of Mechanical Engineering (ASME) U Symbol Stamp, Keyser is recognized in the Designing, Manufacturing and Sales of Thermal Expansion Joints and Associated Steel Fabrication Works. From the achieving of ISO 9001:2000 certification, Keyser holds a very strong stand in:

- Supplying high quality products;
- · Prompt & efficient delivery;
- Providing premium services to our customers.



A pressure vessel is a closed container that is designed to hold gases or liquids at a pressure different from the ambient pressure.

Over the years, many occurrence of fatal accidents in their history of their development and operation are due to this difference in pressure. The definition of a pressure vessel varies from country to country, but involves parameters such as maximum safe operating pressure and temperature. From the designing all the way to manufacturing and operations are governed by engineering authorities backed up by laws.

Keyser pressure vessels which are distributed throughout the region, are designed and manufactured strictly according to these guidelines. High quality standards are maintained through continuous training and investment of staff and equipment.

KEYSER PRESSURE VESSELS APPLICATIONS:

Keyser pressure vessels are used actively in many areas in both the industrial and private sector. For example, in the industrial field, they are used in compressed air receivers and domestic hot water storage tanks. Some other examples of pressure vessels includes recompression chamber, diving cylinder, distillation towers, and vessels used in oil refineries and petrochemical plants, nuclear reactor vessel, pneumatic reservoir, rail vehicle airbrake reservoir, road vehicle airbrake reservoir and storage vessels for liquified gases such as propane, chlorine, and LPG.









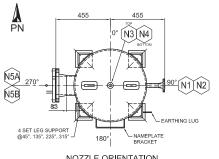
Construction Materials

Most materials with good tensile properties that is chemically stable in the chosen application can be used for the construction of pressure vessels, with steel being the most commonly material. To manufacture a spherical pressure vessel, forged parts would have to be welded together. Forging can be used to increase some of the mechanical properties of steel. However, welding can sometimes reduce these desirable properties. Carefully selected steel with a high impact resistance & corrosion resistant material should be used to meet international safety standards. Some pressure vessels which are made of wound carbon fibre held in place with a polymer. As carbon fibre possesses very high tensile strength, these vessels can be very light, but are more difficult to manufacture. Other very common materials include polymers such as PET in carbonated beverage containers and copper in plumbing.



FABRICATION OF AIR RECEIVER

This pressure vessel is an AIR RECEIVER with a capacity of 500 litres at a pressure of 8 Barg. Vessel was constructed with SA 53 Gr B shell material and SA 234 Gr WPB Standard cap. The fabrication of these pressure vessels (4 Units) was carried out in 6 days including Hydrotesting. The vessel is designed as per ASME Sec. VIII Div. 1 2007 Edition (2008 Addenda) and under DNV Inspection.





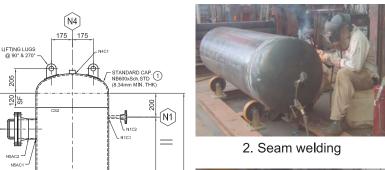
NOZZLE ORIENTATION

②^{9.53T}

N5B

1. Dish head fit-up

5. Leg support fit-up



(N2)



6. Hydrotesting





3. Nozzle preparation

7. Completed Product

GENERAL ARRANGEMENT DETAIL

(N3) ELEVATION

4. Nozzle neck welding



Design and operation standards

All Keyser pressure vessels are designed to operate safely at a specific pressure and temperature, which are also technically defined as the "Design Pressure" and "Design Temperature". All the designing and the certification of Keyser pressure vessels are governed by design codes such as the ASME Boiler and Pressure Vessel Code in North America and and other international standards like Det Norske Veritas.

CONSTRUCTION OF KEYSER PRESSURE VESSELS (CARBON STEEL)



Stage 1: Welding Shell and Heal of Pressure Vessel.



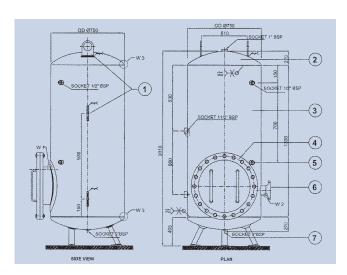
Stage 2: Fitting up on pipe inlets and outlets.



Stage 3: Non-destructive testing (NDT) on all Welded Joints as per requirements.



Stage 4: After Pressure Testing, Coating to be applied internally and externally.





STAINLESS STEEL FABRICATION & ASSEMBLY WORK



1. Preparation for welding



2. Welding process



3. Fit-up nozzle process



4. Alignment process



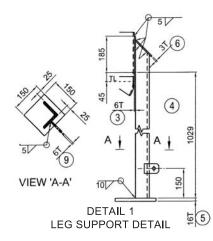
5. NDT-Radiographic Testing

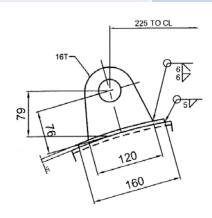


6. Completed Product



| P.NO. | Description | Size | Material | Qty. | Remarks |
|-------|------------------------|----------------------------|-------------|------|---------|
| 1 | Torispherical Dishends | ø750 IDx5.6T (AF): 25mm SF | SA 240 316L | 2 | |
| 2 | Shell Course | ø750 IDx950mm LG | SA 240 316L | 1 | |
| 3 | Pad Plate | 6Tx165x185mm | SA 240 316L | 3 | |
| 4 | Leg Support | L100x100x12Tx1189mm LG | SS316L | 3 | |
| 5 | Base Plate | 16Tx150x150mm LG | SA 240 316L | 3 | |
| 6 | Leg Cover | 3Tx TO SUIT LG | SA 240 316L | 3 | |
| 7 | Lifting Pad Plate | 6Tx70xLG TO SUIT | SA 240 316L | 2 | |
| 8 | Lifting Lug | 16TxSEE DETAIL | SA 240 316L | 2 | |
| 9 | Earthing Lug | 6Tx50x75mm LG | SA 240 316L | 1 | |





LIFTING LUG DETAIL

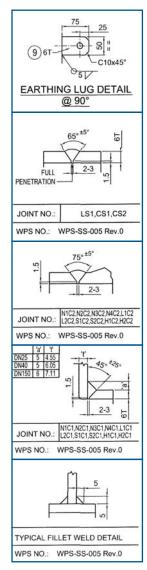
Nozzle Schedule

| Mark | Qty | Size | Service | Flar | ige | | Neck | Proj. From | Remarks |
|-------|-----|------|------------------|-----------|------|------|------|---------------|-----------|
| Walk | Qty | 0126 | Jei vice | Rating | Face | Туре | THK | CL/TL | Remarks |
| N1 | 1 | 40 | Inlet | ASME 150# | RF | WN | 80S | 530 | |
| N2 | 1 | 40 | Outlet / Drain | ASME 150# | RF | WN | 80S | 300 | |
| N3 | 1 | 25 | PSV | ASME 150# | RF | WN | 80S | 260 | |
| N4 | 1 | 40 | Nitrogen Purging | ASME 150# | RF | WN | 80S | 300 | |
| L1 | 1 | 25 | LG | ASME 150# | RF | WN | 80S | 530 | |
| L2 | 1 | 25 | LG | ASME 150# | RF | WN | 80S | 530 | |
| S1/S2 | 2 | 25 | Spares | ASME 150# | RF | WN | 80S | 260 | W/ Blinds |
| H1/H2 | 2 | 150 | Handholes | ASME 150# | RF | WN | 40S | 580 | W/ Blinds |

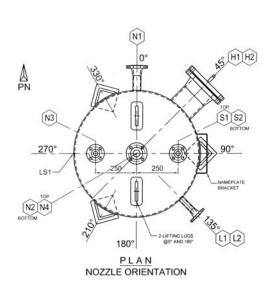
General Notes:

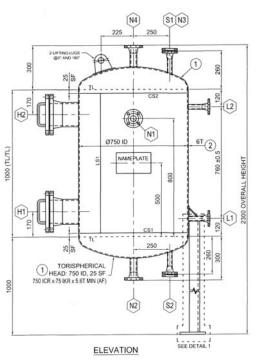
- 1. All dimension are in millimeters (mm) unless noted otherwise.
- 2. All bolt holes shall straddle the main vessel axis line.
- 3. Flanges shall conform to ANSI B16.5
- 4. Quantity in bill of materials is for one (1) unit only. Quantity required is three (3) units.
- 5. All sharp edges shall be rounded off to R3 min.
- 6. Hydrostatic testing shall be as per Hydrostatic testing procedure.
- 7. The lifting LUG and LEG support welds shall be dye penetrant tested.

| Reference Doc | uments |
|--------------------------|--------|
| Nozzle Detail Drawing | |
| Nameplate Detail Drawing | |









| Design Data | | | | | | | | |
|----------------------|--------------------------------|--|------|--|--|--|--|--|
| Design & Construc | tion Code | ASME SECT. VIII, DIV.1 2007 ED. +0212-M120-00S1-0120 REV.1 | | | | | | |
| Classification Socie | ety | Not Required | | | | | | |
| Code Stamp (U Sta | amp) | No | | | | | | |
| National Board Reg | gistration | N/A | | | | | | |
| Fluid | | Fresh Water | | | | | | |
| Specific Gravity | | 1.0 | | | | | | |
| Service | (Sour/Lethal) | No/No | | | | | | |
| Design | Pressure (Int./Ext.) | 250/- | kPag | | | | | |
| | Temperature | 45 | °C | | | | | |
| MAWP | | 1,082 | kPag | | | | | |
| MDMT | | -29 | °C | | | | | |
| Test Pressure | Hydrotest | 1435 | kPag | | | | | |
| | Pneumatic | None | kPag | | | | | |
| Radiography | | Spot | | | | | | |
| Corrosion Allowand | ce | 0 | mm | | | | | |
| Post Weld Heat Tre | eatment (PWHT) | N/A | | | | | | |
| Impact Test | | None | | | | | | |
| Wind Load (Wind \ | /elocity) km/hr | 153 | | | | | | |
| Seismic Load | | N/A | | | | | | |
| Acceleration Due | Vertical, m/s ² | 14.19 | | | | | | |
| To Vessel Motion | Transverse, m/s ² | 5.08 | | | | | | |
| (Worst Case) | Longitudinal, m/s ² | 1.34 | | | | | | |
| Insulation | | None | | | | | | |
| Painting | | None | | | | | | |
| Fire Proofing | | None | | | | | | |
| | Empty | 300 | | | | | | |
| Weights, kgs | Operating | 760 | | | | | | |
| | Hydrotest | 820 | | | | | | |

| Rev | Description | DRN | CHKD | APPD | DATE |
|-----|---------------------|-----|------|------|------|
| 0 | Issued as Built | | | | |
| А | Issued for Approval | | | | |

End User

Client

Manufacturer:

KEYSER TECHNOLOGIES PTE LTD 74 Tuas Avenue 11, Singapore 639093 Tel:+65 6262 0718 Fax:+65 6262 0836 Email: keyser@singnet.com.sg

Project Title : GENERAL ARRANGEMENT DETAIL **WATER MIST TANKS**

Scale : 1:15 Total No. of SHTS: 1

Drawing Number

Rev. 0



| Mec | hanical Design S | Summary Sheet | | | |
|------------------------------|-------------------------|--|---------------------|--|--|
| Design Code | | | on VIII, DIV.1 2007 | | |
| | | Edition +0212-M12 | 20-00S1-0120 REV.1 | | |
| Code Stamp | | No | | | |
| ABS Classification | | Not Required | | | |
| Inspection Authority | | No | | | |
| Item Name | | WATER MIST TAI | NKS | | |
| Item Tag No. | | MBJ-6305 A/B/C | | | |
| Type | | Vertical | | | |
| Design Pressure | (Internal / External) | 250/- | KPag | | |
| Design Temperature | (Internal / External) | 45/- | °C | | |
| Operating Pressure | | 150 | KPag | | |
| Operating Temperature | | Atmospheric | °C | | |
| Minimum Design Metal Tem | p. (MDMT) | -29 | °C | | |
| MAWP | Internal | 1,082 | KPag | | |
| Hydro Test Pressure | @top | 1,435 | KPag | | |
| Diameter of Shell | ID | 750 | mm | | |
| Length of Tank | TL / TL | 1,000 | mm | | |
| Thickness of Shell | Nominal | 6.0 | mm | | |
| Thickness of Head | Min (AF) / Nominal | 5.6 / 6.0 | mm | | |
| Corrosion Allowance | (Internal / External) | 0 | mm | | |
| Specific Gravity | , | 1.0 | | | |
| • | Empty | 300 | kg | | |
| Weights | Operating | 760 | kg | | |
| ŭ | Hydrotest | 820 | kg | | |
| Volume | , | 470 | Liters | | |
| Insulation | | No | | | |
| Type of Head | | Torispherical | | | |
| Radiography | | Spot | | | |
| Joint Efficiency | | 0.85 | | | |
| Post Weld Heat Treatment (I | PWHT) | N/A | | | |
| Impact Test | •••• | None | | | |
| Wind Speed | | 153 | kph | | |
| Acceleration Due to Vessel N | Motion m/s ² | ax=1.34, az=5.08, | | | |
| | Materials Of Cor | | | | |
| Shell / Head | - Materials of Col | SA 240 Gr. 316L | | | |
| Leg Support / Wear Pad | | SS 316L / SA 240 | Gr. 316L | | |
| Nozzles | | SS 312 TP 316L | | | |
| Flanges & Blind Flanges | | SA 182 F316L | | | |
| Stud Bolts / Nuts | | SA 182 F316L SA 193 Gr. 8M / SA 194 Gr.8M | | | |
| Gasket | | SS316L Spiral Wound, Graphite Filled | | | |
| Lifting Kug / Pad Plate | | SA 240 Gr.316L | | | |
| Remarks: | 1 Hydrotaet Praceur | e sha ll be as per UG-99 | 9(h) | | |
| i tolliains. | 1. Hydrotest Fressul | c shall be as per 00-98 | (0) | | |

PRESSUREVESSELS & STEELFABRICATION

Pv Elite 2008 Licensee : Keyser Technologies Pte Ltd

File Name : MBJ-6305ABC CAL

External Pressure Calculations Step: 4 11:59am Apr 25, 2009

External Pressure Calculation Results: ASME Code, Section VIII, Division 1, 2007

Bottom Head

Elastic Modulus from Chart: HA-4 at 38 C : 0.19305E+09 KPa. Results for Maximum Allowable External Pressure (MAEP):

| Tca | Sph. Rad | Ro / t | Factor A | В |
|-------|----------|--------|-----------|-------|
| 5.600 | 755.60 | 134.93 | 0.0009264 | 63.65 |

EMAP = B/(Ro/t) = 63.6514 / 134.9286 = 471.7141 KPa.

Shell

Elastic Modulus from Chart: HA-4 at 38 C: 0.19305E+09 KPa. Results for Maximum Allowable External Pressure (MAEP):

| Tca | OD | Slen | D/t | L/D | Factor A | В |
|-------|--------|---------|--------|--------|-----------|-------|
| 6.000 | 762.00 | 1096.89 | 127.00 | 1.4395 | 0.0006490 | 58.23 |

EMAP = (4*B) / (3*(D/t)) = (4*58.2298) / (3*127.0000) = 611.3009 KPa.

| Tca | OD | Slen | D/t | L/D | Factor A | В |
|-------|--------|----------|--------|-----------|-----------|------|
| 6.000 | 762.00 | 0.28E+34 | 127.00 | .5000E+02 | 0.0000682 | 6.58 |

EMAP = (4*B) / (3*(D/t)) = (4*6.5834) / (3*127.0000) = 69.1126 KPa.



Top Head

Elastic Modulus from Chart: HA-4 at 38 C : 0.19305E+09 KPa. Results for Maximum Allowable External Pressure (MAEP):

| Tca | Sph. Rad | Ro / t | Factor A | В |
|-------|----------|--------|-----------|-------|
| 5.600 | 755.60 | 134.93 | 0.0009264 | 63.65 |

EMAP = B/(Ro/t) = 63.6514 / 134.9286 = 471.7141 KPa.

External Pressure Calculations

| From | То | Section Length mm. | Outside Diameter mm. | Corroded Thickness mm. | Factor A | Factor B N./mm² |
|------|----|--------------------------|----------------------------|------------------------------|------------|--------------------|
| 10 | 20 | No Calc | 755.600 | 5.60000 | 0.00092642 | 63.6514 |
| 20 | 30 | 1096.89 | 762.000 | 6.00000 | 0.00064901 | 58.2298 |
| 30 | 40 | No Calc | 755.600 | 5.60000 | 0.00092642 | 63.6514 |

Pv Elite 2008 Licensee : Keyser Technologies Pte Ltd

File Name : MBJ-6305ABC CAL

External Pressure Calculations Step: 4 11:59am Apr 25, 2009

| From | То | External Actual T. mm. | External Required T. mm. | External Des. Press. KPa. | External M.A.W.P KPa. | | | |
|--------|---------|------------------------------|--------------------------------|---------------------------------|-----------------------------|--|--|--|
| 10 | 20 | 5.60000 | No Calc | 0.00000 | 471.714 | | | |
| 20 | 30 | 6.00000 | No Calc | 0.00000 | 611.301 | | | |
| 30 | 40 | 5.60000 | No Calc | 0.00000 | 471.714 | | | |
| Minimu | Minimum | | | | | | | |

External Pressure Calculations

| From | То | Actual Len. Bet. Stiff. mm. | Allow. Len. Bet. Stiff. mm. | Ring Inertia Required cm**4 | Ring Inertia Available cm**4 |
|------|----|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|
| 10 | 20 | No Calc | No Calc | No Calc | No Calc |
| 20 | 30 | 1096.89 | 2.781E+33 | No Calc | No Calc |
| 30 | 40 | No Calc | No Calc | No Calc | No Calc |

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File Name : MBJ-6305ABC CAL

Nozzle Step: 28 11:59am Apr 25, 2009

Nozzle Calculation Summary

| Descripton | Internal KPa. | Ext | MAPNC KPa. | UG45 | (tr) | Weld Path | Areas |
|----------------|------------------|-----|---------------|------|--------|--------------|------------|
| N2 - 40 | | | | OK | 1.59 | OK | NoCalc [*] |
| S2-25 | | | ••• | | | OK | NoCalc [*] |
| S2-25 | | | ••• | OK | 1.59 | OK | NoCalc [*] |
| N1-40 | | | | OK | 1.59 | OK | NoCalc [*] |
| L1/L2-25 | | | ••• | OK | 1.59 | OK | NoCalc [*] |
| H1/H2-150 | 1115.38 | | | | | OK | Passed |
| N4 - 40 | | | | OK | 1.59 | OK | NoCalc [*] |
| N3 - 25 | | | | | | OK | NoCalc [*] |
| N3-25 | | | | OK | 1.59 | OK | NoCalc [*] |
| S1-25 | | | | | | OK | NoCalc [*] |
| S1 - 25 | | | | OK | 1.59 | OK | NoCalc [*] |

1115.38 H1/H2-150 Min. - Nozzles Min. Shell & Flgs 1082.35 10 20 1115.01 Computed Vessel M.A.W.P 1082.35 KPa.

Note: MAWPs (Internal Case) shown above are at the high point.

Check the Spatial Relationship between the Nozzles

| From Node | Nozzle Description | Y Coordinate | Layout Angle | Dia. Limit |
|--------------|-----------------------|-----------------|-----------------|---------------|
| 10 | N2-40 | 0.000 | 0.000 | 76.200 |
| 10 | S2 - 25 | 0.000 | 90.000 | 48.616 |
| 20 | N1 - 40 | 800.00 | 0.000 | 76.200 |
| 20 | L1/L2-25 | 120.000 | 135.000 | 48.616 |
| 20 | H1/H2-150 | 170.000 | 45.000 | 308.102 |
| 30 | N4 - 40 | 0.000 | 0.000 | 76.200 |
| 30 | N3-25 | 0.000 | 90.000 | 48.616 |
| 30 | S1 - 25 | 0.000 | 270.000 | 48.616 |

The Nozzle spacing is computed by the following: = $Sqrt(11^2 + 1c^2)$ where

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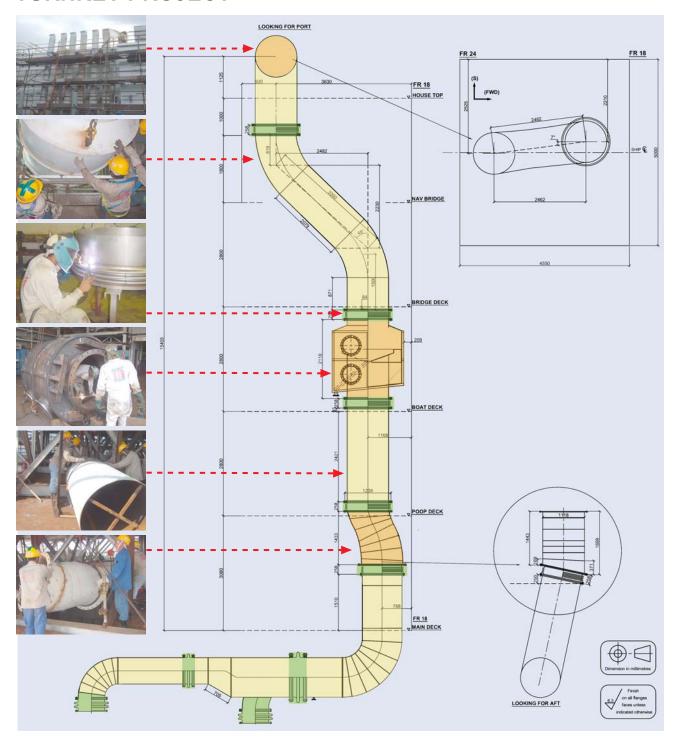
 $^{[\}star]$ - $\dot{}$ This was a small opening and the areas were not computed or the MAWP of this connection could not be computed because the logitudinal bending stress was greater than the hoop

^{11 -} Arc length along the inside vessel surface in the long. direction.

¹c - Arc length along the inside vessel surface in the circ. direction.



TURNKEY PROJECT





OTHER FABRICATION & ASSEMBLY WORK





Pipe Works

• Underground Piping Projects (Natural Gas Line-100% RT/NDT)





Product Fabrication

• Fabrication Work for Expansion joint





Assembly Work

• Assembling & Disassembling Work onboard vessels.



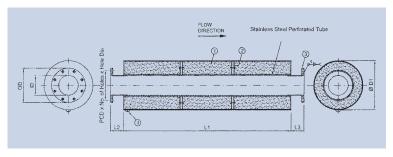
Welding

· Workmanship Expertise, Welding Specialist with Certified Welding Procedure Specifications (WPS) in accordance to the ASME Standards and DNV Rules.



SILENCER



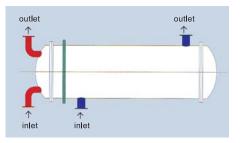


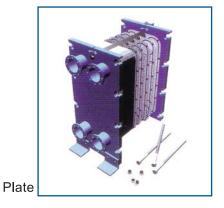
| Item | Qty | Description | Material |
|------|------|--------------------|------------------------------|
| 1 | 1Set | Acoustic Infill | Hight Temp Long |
| | | | Strand Fiberglass |
| 2 | 1 | Internal Baffle | Depend on requirement |
| 3 | 2 | JIS 5K Flanges | Mild Steel / Stainless Steel |
| 4 | 1 | 0.5" BSB Scoket | |
| | | & Plug, Horizontal | |
| | | Orientation | |

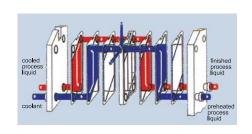
HEAT EXCHANGER



Shell & Tube



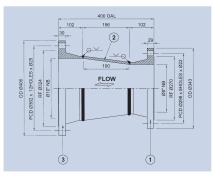






TYPE OF PRODUCTS

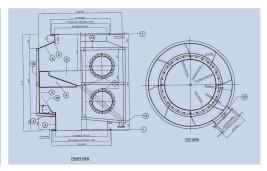




REDUCER

Reducers are designed to adapt different sized connections. They also help in reducing the flow of process medium. Reducers can be concentric or eccentric and can be designed according to application needs.

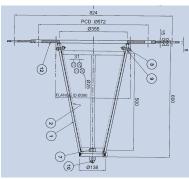


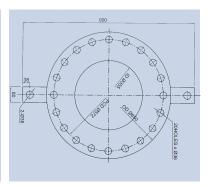


SILENCER

Silencers are designed for suppressing the noise associated with venting pressurized gas. Typical applications includes, but are not limited to, gas blowdown, compressor and steam blowoffs, start gas and process vents and steam ejector.







STRAINER

Strainers are designed to remove impurities from gas or liquids. It filters out unnecessary particles that may cause damage or contamination to the process. Strainers are made with corrosion resistant materials for long service.



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