## FORGED PRODUCTS \& FITTINGS



G/D DONGLIM PIPING CO.,LTD.


## HISTORY

200102 Change company name to Dong Lim Piping.
200411 Acquired ISO 9001 Certificate from KPC-QA.
200612 Expand \& Move Head Office 1st Flange Factory (Sotori Yangsan)
200701 Open a materials laboratory.
200705 Acquired ISO 9001 Certificate from DAS
201103 Acquired PED 97/23/EC \& ISO 9001 Certificate from HSB
201307 It changes into the Corporation
201501 Expand \& Move Head Office 1st Factory (Sanmakgongdan Yangsan )
201504 Acquired Company-affiliated R\&D centers from KOITA

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Rather not to settle for the present, companies and employees should be united for the company's growth and try to develop the company by one's possibility and also giving lots of efforts to it. The company contributes to its community and it is a transparent and a strong company.

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## SPECIFICATIONS

|  | B16.5 PIPE FLANGES ( ~ NPS 24) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ANSI / ASME | B16.36 ORIFICE FLANGE ( ~NPS 24) |  |  |  |  |  |
|  | B16.47 LARGE FLANGE- |  | ries A / Ser | S B ~ NP | 60) |  |
| AWWA | C207 | Steel Pipe Flanges for Waterworks Service ( ~ NPS 144) |  |  |  |  |
| API | 6A Type 6B/6BX FLANGE |  |  |  |  |  |
| JIS | B 2220 STEELPIPE FLANGE |  |  |  |  |  |
|  | B 229121 MPa slip-on welding pipe flanges for hydraulic use |  |  |  |  |  |
|  | F 7806 Ships' 280 K and 350K Socket Welding Pipe Flanges |  |  |  |  |  |
| DIN | WELDING NECK DIN 2631 |  | DIN 2632 | DIN 2633 | DIN 2634 | DIN 2635 |
|  | SLIP-ON | DIN 2573 | DIN 2576 | DIN 2543 | DIN 2544 | DIN 2545 |
|  | BLIND | DIN 2527 |  |  |  |  |

## SPEGIIL FINEE


(2) LINE BLANKS
(2) NOZZLE FLANGE
(3) BRANCH OUTLET FLANGE
(4) SQ FLANGE
(5) SAE FLANGE

## API Products



## SPECIFICATIONS

API 6A Studded Block

16A Type 16B / 16BX HUB CONNECTIONS

## FORGED FITTINGS



## BRANCH OUTLET FITTINGS


(1) WELDOLET
(2) OUT LET / BW, SW, THREAD
(3) LATROLET
(4) NIPOLET
(5) SWEEPOLET
(6) FLANGEDOLET

## SPECIFICATIONS

| MSS | SP-97 Integrally Reinforced Forged Branch Outlet Fittings |
| :--- | :--- |
|  | B16.9 Factory-Made Wrought Buttwelding Fittings |
|  | B16.25 Buttwelding Ends |
| ASME | B31.1 Power Piping |
|  | B31.3 Process Piping |
|  | Boiler and Pressure Vessel Code- Sec.VIII Division 1 |

## NOZZIE / SPECIAL FITTING



$\square$

(5)

(6)

(7)

(8)

(1) LATERAL TEE
(2) Y -TEE
(3) NOZZLE FLANGE
(4) ORIFICE PLATE
(5) THERMOWELL
(6) (7) (8) OTHER FITTINGS

## SPECIFICATIONS

ASME B16.9 Factory-Made Wrought Buttwelding Fittings
B16.11 Forged Fittings, Socket-Welding and Threaded
B16.25 Buttwelding Ends
B36.10 Welded and Seamless Wrought Steel Pipe
B36.19 Stainless Steel Pipe

## SUPPLYING MATERIAL

| Material |  |
| :---: | :---: |
| CODE |  |
| Classification |  |
| Petrochemical |  |
| Oil Refinery |  |
| Shipbuilding |  |
| Ocean |  |
| Power Plant |  |
| Construction Fields |  |


| Ferrous Materials |  |  |  |
| :---: | :---: | :---: | :---: |
| Carbon Steel |  |  |  |
| A105 | A516-60/70 | A694-F60/65 | A350-LF2 |
| Carbon Steel |  |  | Carbon-Low Alloy |
| $\bigcirc$ | $\bigcirc$ |  | $\bigcirc$ |
| $\bigcirc$ | $\bigcirc$ |  | $\bigcirc$ |
| $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ |
| $\bigcirc$ |  |  | $\bigcirc$ |
| $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |
| $\bigcirc$ |  |  |  |
| $\bigcirc$ |  | $\bigcirc$ |  |


| Material | Ferrous Materials |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Alloy Steel |  |  |  |
| CODE | A182-F11 | A182-F22 | A182-F91 | AISI 4130 |
| Classification | 1.25\%Cr-0.5\%Mo | 2\%Cr-1\%Mo | 9\%Cr-1\%Mo | Medium Carbon,Cr-Mo |
| Petrochemical | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |
| Oil Refinery |  |  |  | 0 |
| Shipbuilding | $\bigcirc$ | $\bigcirc$ | O | $\bigcirc$ |
| Ocean | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |
| Power Plant | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |
| Nuclear Power Plant | $\bigcirc$ | $\bigcirc$ |  |  |
| Construction Fields | $\bigcirc$ | $\bigcirc$ | O |  |


| Material | Ferrous Materials |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Austenitic Stainless Steel |  |  |  |
| CODE | A182-F304(L) | A182-F316(L) | A182-F317(L) | A182-F321(H) |
| Classification | $18 \% \mathrm{Cr}-8 \% \mathrm{Ni}$ | $18 \% \mathrm{Cr}-8 \% \mathrm{Ni}-\mathrm{Mo}$ | $19 \% \mathrm{Cr}-13 \% \mathrm{Ni}-3.5 \% \mathrm{Mo}$ | $18 \% \mathrm{Cr}-8 \% \mathrm{Ni}-\mathrm{Ti}$ |
| Petrochemical | O | O | O | O |
| Oil Refinery |  | O |  |  |
| Shipbuilding | O | O | O |  |
| Ocean | O | O |  |  |
| Power Plant | O | O | O | O |
| Nuclear Power Plant | O | O |  |  |
| Construction Fields | O | O |  |  |


| Material | Ferrous Materials |  | Non-Ferrous Materials |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Ferritic-Austenitic Stainless Steel |  | Nickel Alloy Steel |  |
| CODE | A182-F51 | A182-F53 | UNS N04400 | UNS N06625 |
| Classification | $22 \% \mathrm{Cr}-5.5 \% \mathrm{Ni}$ | 25\%Cr-7\%Ni-4\%Mo | Ni-Cu Alloy | Ni-Cr-Mo-Cb Alloy |
| Petrochemical | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ |
| Oil Refinery |  |  |  | $\bigcirc$ |
| Shipbuilding |  |  |  | $\bigcirc$ |
| Ocean | 0 | $\bigcirc$ |  | $\bigcirc$ |
| Power Plant | $\bigcirc$ | $\bigcirc$ |  |  |
| Nuclear Power Plant |  |  | O |  |
| Construction Fields |  |  |  | $\bigcirc$ |



## CAPACITY

| ITEM | RANGE | CAPACITY / YEAR |
| :--- | :---: | :---: |
| FLANGE | $\sim 120^{\prime \prime}$ | 1000 Ton |
| FORGED FITTING | $\sim 4^{\prime \prime}$ | 800 Ton |
| O- LET | $\sim 36^{\prime \prime}$ | 300 Ton |
| NOZZLE | $\sim 36^{\prime \prime}$ | 100 Ton |



## MANUFACTURING FACILITIES

| Facilities | Scale |
| :--- | :---: |
| MCT | $750^{*} 1900 * 800$ |
| CNC Vertical Lathe | $\varnothing 3000$ |
| CNC Drill Master | $\varnothing 3000$ |
| CNC Lathe 15" | $\varnothing 550$ |
| CNC Lathe 12" | $\varnothing 450$ |
| CNC Lathe 6" | $\phi 180$ |
| CNC Turning | $\varnothing 850$ |
| Facilities | Scale |
| Lathe | $\varnothing 850$ |
| Lathe | $\phi 580$ |
| Lathe | $\varnothing 480$ |
| Milling | - |
| Band Saw | $\phi 500$ |
| Circular Saw | $\phi 90$ |
| Marking Machine | - |
| Portable Marking Machine | - |

## INSPECTION FACILITIES


(1) Universal Testing Machine
(2) Positive Material Identification
(3) Rockwell Hardness Tester
(4) Brinell Hardness Tester
(5) Portable Hardness Tester
(6) Ultrasonic Hardness Tester
(7) Surface Roughness Tester
(8) Magnetic Particle Tester
(9) Groove Gage(BX-1000, BXG-1000)
(10) NPT Gage
(11) G Gage

## QUALITY MANAGEMENT

## QUALITY MANAGEMENT

Quality policy of DONG LIM PIPING is a well-timed supplying of high quality products \& service that satisfy customer's requirements.

Quality target of DONG LIM PIPING is accomplishment management target through the improvement, maintenance, execution, planning of effective system by obtaining necessary resource.

## QUALITY ASSURANCE

Quality Manual \& Procedure Control
Quality System Maintenance \& Control
Quality History Record/Control \& Analysis
Perform to Customers Quality Requirement
Collective/Personal Education \& Training
Inspection Personnel Training
Self-Assessment
Corrective / Preventive Action
Customer AVL Registration Propulsion

## QUALITY CONTROL

Raw Material Inspection
In-Process Inspection
Final Inspection
Outsourcing Receiving Inspection Mechanical Properties Test \& Chemical Analysis Non-destructive Examination
3rd-Party Inspection
Inspection Equipment Calibration


$\begin{aligned} \text { Europe } & \text { - } \begin{aligned} & \text { SIEMENS (2009~2012) : DIEMEN CCPP / Enecogen CCPP / Rijnmond } 2 \text { CCPP / } \\ & \text { Hemweg / Toul CCPP PJT } \\ &- \text { ALSTOM (2009) : Pembroke CCGT }\end{aligned} \text { (200) }\end{aligned}$
America - ALSTOM (2012~2015) : Warren Country / Wildcat Point / CDU II

- SAMSUNG Enginering Co., Ltd (2014~2015) : BOLIVIA YPFB

Asia - SIEMENS (2009~2015) : DGEN CCPP / Chana 2 CCPP / Wang Noi 4 CCPP / Dangjin / Jangmoon / TAEAN / Daegu Innovation City etc.

- ALSTOM (2012~2015) : Connaught Bridge / Kirkkale / Tanjung Bin / Manjung TPP / Banyan PJT / Tallawara Bin etc.
- TOSHIBA (2013~2015) : Kudgi PJT / Samcheok PJT / MEJA / Vinh Tang 4 etc.
- Hyundai Heavy Industial Co., Ltd (2013~2015) : HN2564 / HN2507 / HN2508 HN2559 / HN2563 / HN2620 / HN2622 / HN2704 etc.
- DOOSAN E\&C (2013~2015) : PRAI HRSG

Middle East - SIEMENS (2009~2013) : Samsun / Sohar 2 IPP / Barka 3 IPP etc.

- ALSTOM (2009~2015) : Al Anbar / Yanbu 3 / Az Zour CCGT / SHOAIBA etc.
- Al Toukhi (2014~2015) : Yanbu 3
- Hyundai E\&C (2013~2015) : KOC PIPELINE
- GS E\&C (2013~2014) : KNPC / ERC Refinery Project

Oceania - FOSTER WHEELER (2014~2015) : Ichthys

## Africa

- ALSTOM (2012~2013) : Ghana Takoradi T2 PJT
- Hyundai Heavy Industial Co., Ltd (2007) : Akpo / Moho / USAN
- Kokusai Keiso (2003) : Agip gas WLGP

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