



# Going Global

## Manufacturing Units & Global Presence:

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### KINGDOM OF SAUDI ARABIA

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# Field Instrumentation in Oil & Gas allied Engineering Solutions

Bliss Anand is a leading manufacturer of high integrity Field Instruments having four decades of proven track record. Carrying forward from existing vision & commitment, the Group has successfully stepped into global markets having approvals from world's leading Engineering Project Consultants.

Poised to create a reliable tomorrow for customers.

Foreseeing the unique demands of the industries and the customers, they are on the process of continual development & strategic expansion to maintain the balance between supply & demand.

Their products are manufactured in state-of-the-art facilities, which are strategically located across the globe.



Team India



Team Kingdom of Saudi Arabia



Team The Netherlands



Team Denmark



Team United States of America

### MISSION

With a strong infrastructure and a sound financial base, Bliss Anand is poised for quantum growth, seeking to achieve a larger market share.

### VISION









To be one among the world-leading manufacturer of field instruments and engineered valves for process and power industries.

### VALUES

Customers, employees, and stakeholders are our priority of service, to achieve our milestone in ethical and congenial bounding



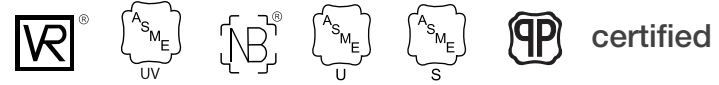
# Milestones

1975	Establishment	2015	Bliss Anand Energy Division launched, 2/3 Phase Separator System/Skids, Indirect Water Bath Heater, Gas Conditioning Regulating & Metering System, Chemical Injection Skid, Filter Separators / Dry Gas Filters, Heater Treater and Hydrocarbon Storage Tank.
1985	Engineers India Limited (EIL) approval	2015	Bliss Anand's longest Magnetic Level Gauge - Dual Chamber, C-C: 552" (46 ft.), 24 process flange for Interface application
2000	Joint Venture - Badotherm, Holland	2015	Bliss Anand Middle East facility awarded for ISO 14001:2008 and OHSAS 18001: 2007 certifications
2005	Middle East approval from major oil companies	2015	Approved Asia and Middle East facility with -
2007	Licence agreement with Farris, USA		       
2008	ERP implementation		
2008	Setup 4.5 acres manufacturing facility at Bawal (Haryana)		
2009	ASME UV, VR approval for Indian facility		
2012	Abu Dhabi Company formed		
2012	Bliss Anand America opened operations at Houston, Texas		
2013	Inaugurated 2.2 acres manufacturing and engineering facility in La Porte, Texas	2016	Received prestigious award from Petrofac/ Yokogawa for 7500 nos. Diaphragm Seals
2013	Anand executed project from Petronas, Malaysia for their FLNG	2017	Started operation in KSA
2014	Bliss Anand awarded the following approvals: - ADMA, ZADCO & KOC	2020	Bliss Anand secures a prestigious single project worth over 100 million USD
2014	Bliss Anand signs agreement with Reliance Group for 1500 Magnetic Level Gauges for Jamnagar J3 Expansion	2020	Bliss Anand KSA facility approved from Saudi Aramco.
2014	Bliss Anand America awarded Canadian Registration Number (CRN)	2021	Delivered first supply of 38 nos of Level Gauges to Saudi Aramco offshore project.
2014	Bliss Anand Bawal executed exotic material Magnetic Level Gauges from Saipem for Kuwait	2022	Acquisition of BRDR. Christensens Denmark a pioneer in metal seated lubricated taper plug valves.
2014	Anand receives contract from Samsung, Korea for Iraq	2022	Factory area expansion to accommodate Energy Equipment Division to 160,000 Sq. ft.
2015	Bliss Anand America awarded the following certifications: - ASME U & S Stamp - ISO 14001:2008 and OHSAS 18001:2007		
2015	Bliss Anand executed project from Foster Wheeler for refinery expansion in Corpus Christi, Texas		



# Production Facility: India

• ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 &



BAWAL, HARYANA (INDIA)



## PRODUCTION FACILITY: BAWAL, HARYANA

Spread across 18,000 sq. meters, Bliss Anand's Bawal facility is strategically located on National Highway-8, connecting north India to ports in Gujarat and Mumbai. This ultra-modern production facility is equipped with state of art machinery and allied facilities, having a floor space of approx 140,000 sq. ft.



## Manufacturing Facility: USA



BLISS ANAND is poised to invest substantially in its US operations with a view to expand manufacturing capability in the area of Flow, Pressure and Energy Equipment.

BLISS AMERICAS commissioned in 2012. Bliss Americas cutting edge technology allows us to serve the Oil & Gas, Power and Petrochemical Industry in Americas and Canada and further envisages to venture into Energy sector.



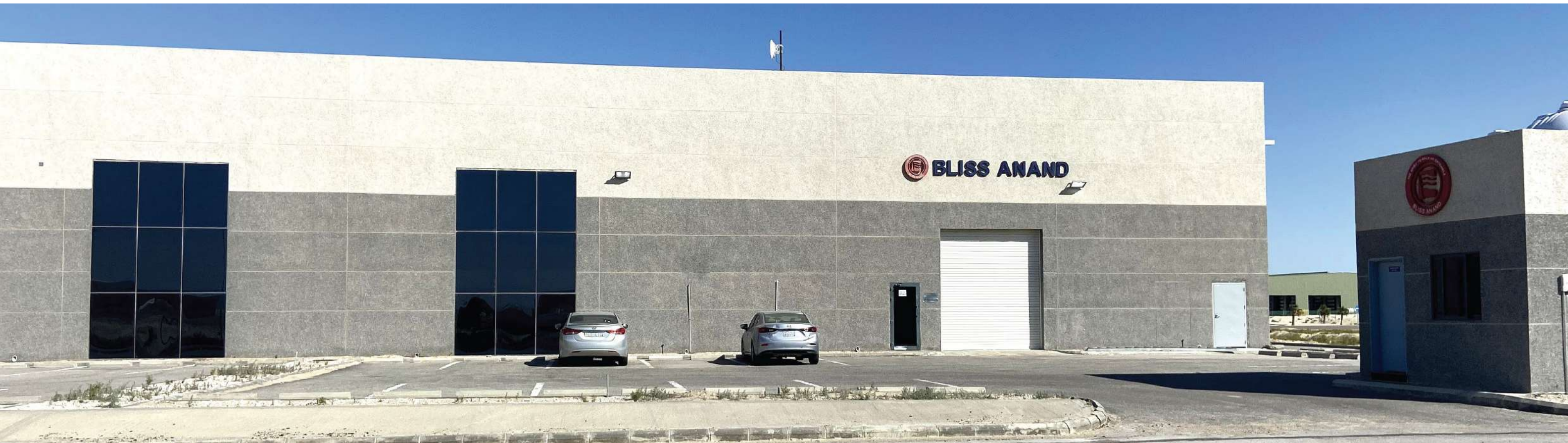


# Production Facility: Kingdom of Saudi Arabia

- ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified



SAUDI ARABIA



BLISS ANAND's Saudi Arabia operation is fully operational and equipped with most modern machineries. This facility is strategically planned to cater to our prestigious customer in KSA for Level Gauges, Remote Seals and Flow Indicators.

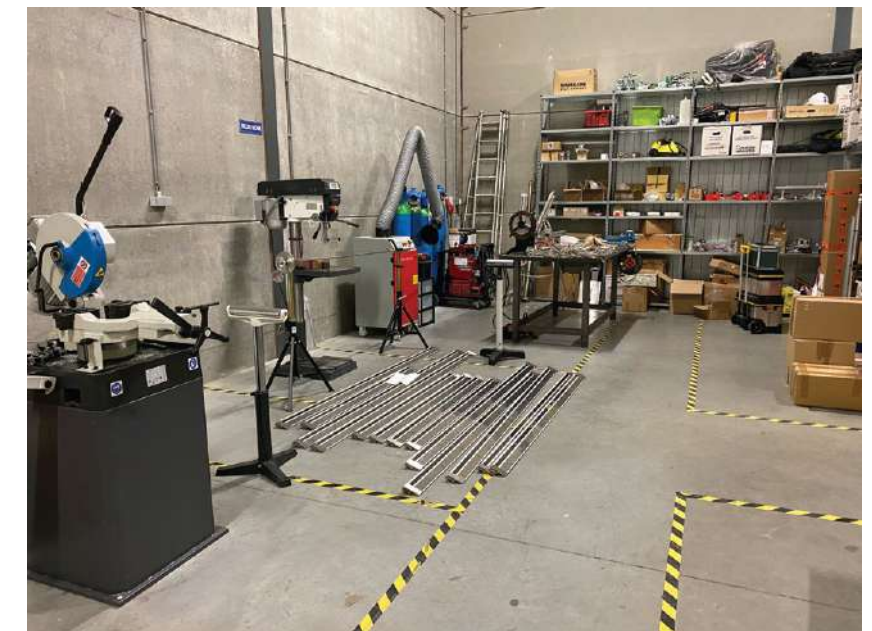




# Production Facility: The Netherlands



THE NETHERLANDS



BLISS ANAND's The Netherlands operation is fully operational and equipped with most modern machineries. This facility is strategically planned to cater to our prestigious customer in Europe for Level Gauges and Flow Indicators.





# Production Facility: Denmark (BRDR. CHRISTENSENS)

• ATEX 94/9/EC, ISO 9001:2015, API SPEC Q1 & API 6D Certified



BLISS ANAND takes over the BRDR. Christensens a leading manufacturers of lubricated taper plug valves, steam jacketed plug valves and double plug double isolation valves mainly used in the global oil and gas industry .

BRDR. Christensens allows Bliss Anand to offer a broader spectrum of products to their international customer base and provides another significant step forward in the development of the Bliss Anand Group.

The bringing together of combined experience of more than 100 years, the Bliss Anand & BRDR. Christensens organizations' quality products, trusted brands and global capabilities will now provide our customers with an enhanced product offering and improved service experience.



# Level Division - Product Range



## Salient Features

- Titanium floats
- Float failure indication (Safety first)
- No vented / pressurized floats
- Full bore penetration welding
- CRN approved

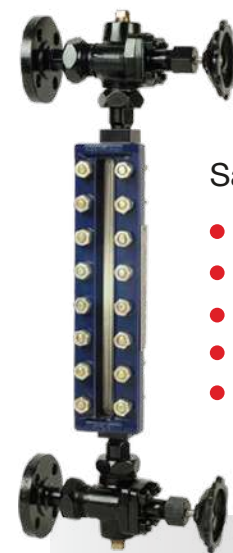
Magnetic Level Gauge



## Salient Features

- Allows external mounting of process level instrumentation
- Ideal for critical area and general purpose applications
- Enables live maintenance
- Designed to ASMEB31.3
- Pressure Equipment Directive (PED) compliant

Bridle Radar Transmitter



## Salient Features

- Sturdy Construction for clear liquids
- High Pressure 4000 PSIG @ 100°F
- Clear line of separation visible from a distance
- Variety of materials and Configuration
- Visible length from 200 mm to 3000 mm

Glass Level Gauge



## Salient Features

- No DIP tube required: open valve to calibrate radar in field
- Spot calibration of radar transmitter
- Real time true level of process liquid
- True redundancy
- Full function in power failure modes
- Glass field replacement by isolating gauge from process fluid

Acurage® (U.S. Patent)



## Salient Features

- Includes a variety of indicating elements.
- Mounting can be screwed or flanged
- Uses specific materials based on need.
- Available with full view or double window.

Sight Flow Glass



## Salient Features

- High accuracy and repeatability
- 4 to 20 mA HART
- Two channel output (Level & Interface)
- Explosion-proof and Intrinsically safe
- FM & CSA approval
- Enclosure rating to NEMA 4X

Magnetostrictive Transmitter

## Safety Valve Division - Product Range



Safety Relief Valve (Conventional)

### Salient Features

- Conforms to API 526
- Full Nozzle Design
- Integral Cast Flanges
- Metal Seat with optional o-ring
- Balanced Bellows option
- Open Bonnet and Lever Assemblies option
- Adjustable Blowdown

### Salient Features

- Metal Seat with optional o-ring
- Balanced design option
- Flanged option
- Optional welding nipple and sanitary connections

Safety Relief Valve (Conventional)



### Salient Features

- Conforms to API 526
- Snap Acting and Modulating Control Actuation
- Semi and Full Port Nozzle Design
- Typical Blowdown of 3-6%

Safety Relief Valve (Pilot Operated)



## Seal Division - Product Range

### Salient Features

- Highest level of reliability
- 40 micron gold plated seal for Hydrogen service
- Shell approved
- Max. Temperature up to 1100° F
- Web based calculation tool (BaseCal)
- Exotic materials
- 48 types of fill fluids for process requirement
- CRN approved

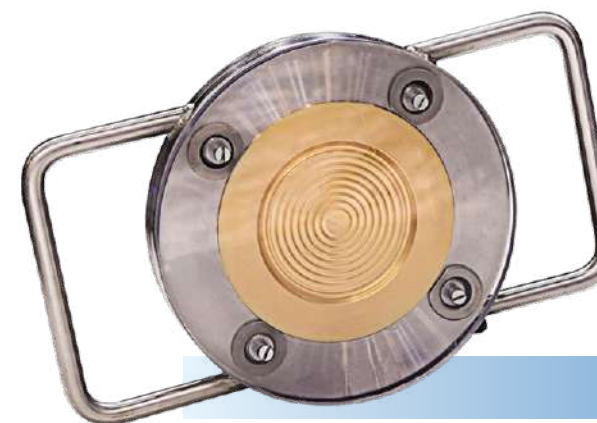
Remote Seals for Pressure Transmitters



### Salient Features

- Gold Plating (40μ)
- PTFE Foil
- PVC
- PP
- PVDF
- HTDS - High Temperature
- Diaphragm Seal (up to 600°C/1112°F)
- LGP - for controlling Low
- Gauge Pressures (as low as 10m bar)

Gold Coated Seals





# BRDR. Christensens - Product Range



Type 5 - Pressure Balance Lubricated Taper Plug Valve

### Salient Features

- Blowout proof stem with three unique seals
- Pressure balanced and fire safe design
- Regular, venturi or short pattern
- Port type: Rectangular, reduced or full port

API/PED/ISO/NACE • 1/2" – 36" / DN 15 – DN 900 • Class 150/300/600/900/1500/2500 • PN 20/50/100/150/250/420



Type 55 - DBB Twin Pressure Balanced Lubricated Taper Plug Valve

### Salient Features

- Metal-to-metal sealing
- Perform both Double-Block and Bleed (DBB) and Double-Isolation and Bleed (DIB) capabilities
- Straightway pattern
- Rectangular port

API/PED/ISO/NACE • 1" – 24" / DN 25 – DN 600 • Class 150/300/600/900/1500/2500 • PN 20/50/100/150/250/420

### Salient Features

- Trouble-free metal-to-metal sealing
- Offer limitless installation positions
- Regular, venturi or short pattern
- Port type: Rectangular, reduced or full port

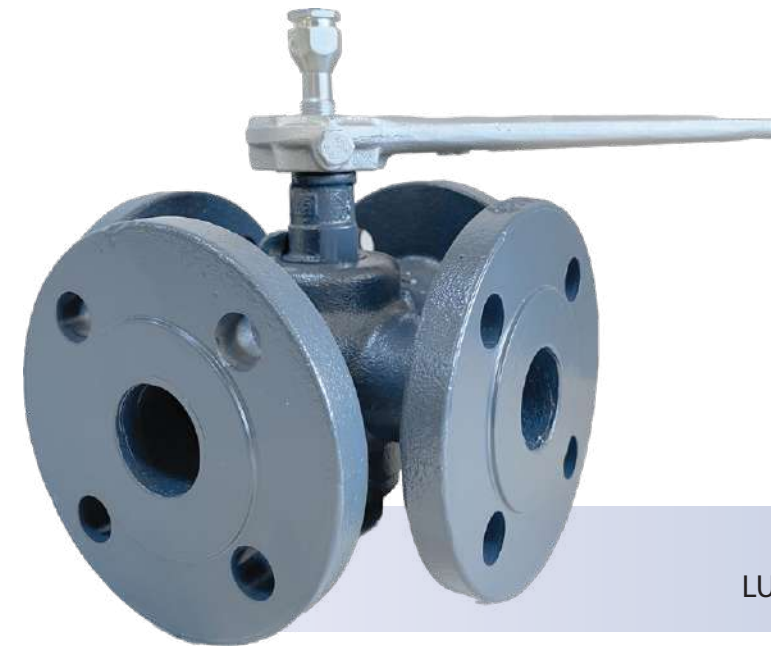


Type 9 - Top Entry Lubricated Taper Plug Valve

API/PED/ISO/NACE • 1/2" – 16" / DN 15 – DN 400 • Class 125/150/250/300 • PN 10/20/40/50

### Salient Features

- Trouble-free metal-to-metal sealing
- Trouble-free metal-to-metal sealing
- Port Type: Four way, rectangular double L-ported
- Limitless installation positions
- Adjustment free and blow out proof trim
- Low torque



TYPE 1: FOUR WAY – BOTTOM ENTRY LUBRICATED CYLINDRICAL PLUG VALVE

API/ASME/PED/EN • 1/2" – 30" / DN 15 – DN 750 • Class: 125/150/250/300 • PN 10/20/40/50

# Energy Division - Product Range

## Wellhead Panel



### Key Highlight

- Modular Design with SS 316 / 316 L Construction or as needed.
- Adequate Power & head to meet the well requirement.
- Easy Operation, Maintenance & Serviceability
- First Time 'Made In India'
- Future proofing & Expandable design.
- Safe & Environment protected design.

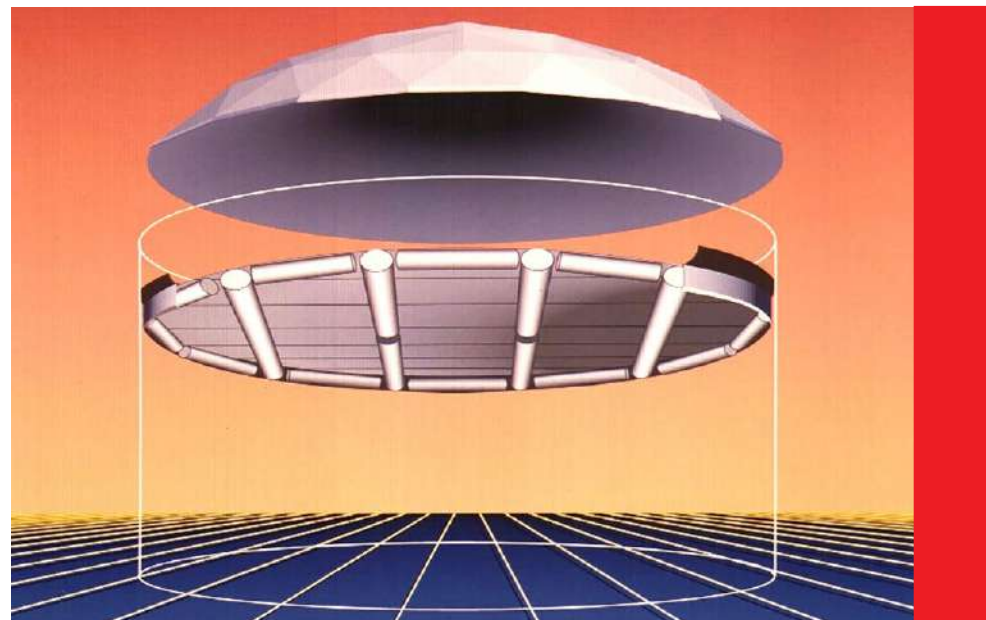
### Key Highlight

- Extremely light weight but extremely strong compared to conventional CS dome, hence very low loads on the tank and foundations.
- Non welding type construction.
- Maintains extremely low temperature inside the tank unlike a CS Dome.
- No or very little maintenance required in the dome's lifetime.
- Strong enough to withstand all environmental factors while ensuring the tank contents remain uncontaminated and odors and vapors are contained.
- No need to dispose of water contaminated due to leaky seals or drains
- No standing water reduces the corrosion & loads of steel parts while also reducing risk of collapse due to accumulation.
- Zero risk of rim fires.

## Aluminium Geodesic Dome



## Internal Floating Roof



### Key Highlight

- Minimizes Vapour Losses of stored liquids, while saving a lot of money.
- Extremely light weight compared to conventional CS IFR.
- No period maintenance required resulting in cost effectiveness.
- No Painting required resulting in cost effectiveness.
- Well designed to manage vacuum & pressure flow.
- Reduces pollution while ensuring no harmful vapours are let off to the atmosphere.
- Increases safety while ensuring no explosive vapours are trapped.

## Heater Treater



### Key Highlight

- Adequately designed for both vertical and horizontal installation.
- Direct type and Indirect Type
- Custom built to suit the process requirement and the client need.
- Fully automated with SDV, PRV, CV, Analyzer, Transmitters, PSV, Duobloc Burner, PLC control etc..
- Designed and Manufactured as per international quality norms.
- Lightweight insulation reduces loading weight.
- Resistance to mechanical and thermal shocks.
- Faster start-up and cool down period.



# Testing and R&D Facilities



## Positive Material Identification (PMI) Testing

- MTR/ heat traceability of materials
- Quality assured

## Coordinate Measuring Machine (CMM) Testing



- To measure physical, geometrical characteristics of an object
- To ensure quality of all the dimensions
- In-house experts to conduct the tests

Our in-house R&D division is well equipped to carry out designing and testing of all of our products. All our products are designed and manufactured at our facilities equipped with cutting edge technologies. Manufacturing is done under strict supervision of our highly qualified engineers and conform to international quality standards such as ASME, ISO, DIN, ANSI, JIS, IBR and CMRI. All our products meet quality requirements of our customers with accuracy, reliability and dependability.

## High end Engineering Software in use

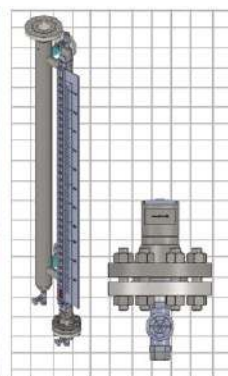


## CFD - For Flow Simulations

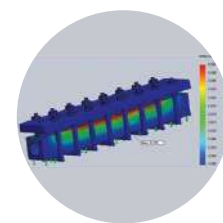
## SOLIDWORKS Engineering 3D Modeling and Product Development Cell



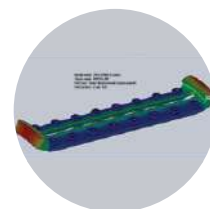
Finite Element Analysis (FEA)



Computational Fluid Dynamics (CFD)



SOLIDWORKS simulation uses FEA methods to calculate the displacements and stresses in our products due to operational loads such as - Forces, Pressure, Accelerations, Temperatures, Contact between Components.



SOLIDWORKS simulation uses CFD analysis to enable quick, efficient simulation of fluid flow and heat transfer.

# Technology

## Cloud Order Tracking System

Realizing the need to serve customers globally, BLISS ANAND has strengthened its network to reach out to its customers far and wide by implementing [Blisswalk.com](http://Blisswalk.com), the Cloud Order Tracker to support customers' online order status.

Only Manufacturer to offer "Cloud Order Tracking" system through [www.blisswalk.com](http://www.blisswalk.com)

The screenshots show the Blisswalk.com interface. The top left shows a vertical flowchart of the order process: New Order (Date Opened: 07 Dec 2019) -> Sales Department (Date Assigned: 07 Dec 2019, No of Days: 5) -> Engineering Department (Date Assigned: 10 Dec 2019, No of Days: 15) -> PPC Department (Date Assigned: 23 Dec 2019, No of Days: 4) -> Procurement Department (Date Assigned: 27 Dec 2019, No of Days: 55) -> Production Department (Date Assigned: 31 Jan 2020, No of Days: 5) -> Commercial Department (Date Assigned: 03 Feb 2020, No of Days: 12). The top right shows a detailed view of an order with a progress bar and an activity log. The bottom right shows a checklist for order processing steps.

Date	Activity
11/11/2019	Order entered.
11/11/2019	Order was assigned to Sales Department.
11/15/2019	Order was assigned to Engineering Department.
12/29/2019	Order was assigned to PPC Department.
1/7/2020	Order was assigned to Procurement Department.



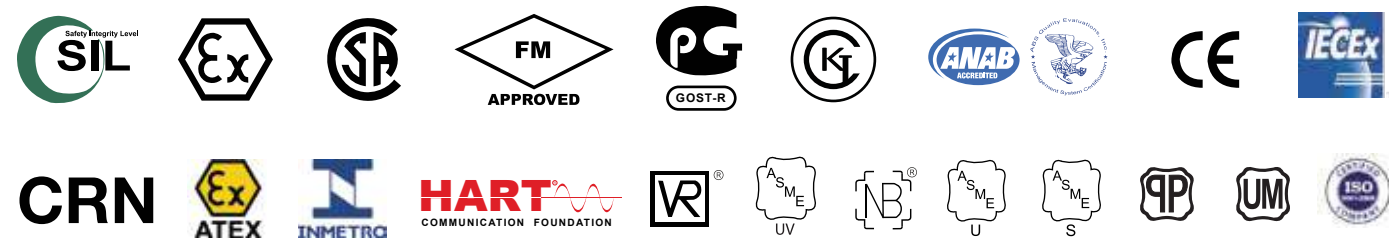
# Major Approvals



# Major Customers



# Major Certifications



ISO Certification: ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018



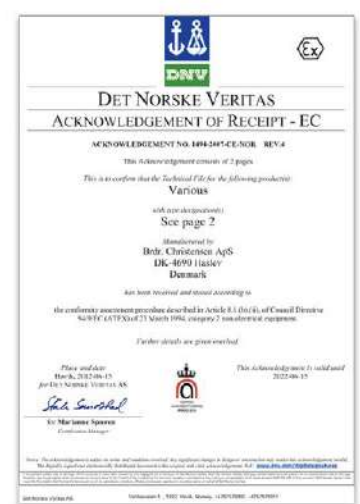
# Certifications



ISO 9001:2015  
BRDR. Christensens (Denmark)



API SPEC Q1  
BRDR. Christensens (Denmark)



ATEX 94/9/EC  
BRDR. Christensens (Denmark)



ISO 9001:2015 (India)



ISO 45001:2018 (India)



ISO 14001:2015 (India)



ISO 45001:2018 (UAE)



Saudi Aramco Approval (KSA)