



At The Heart of  
Every Industry



[www.oswalvalves.com](http://www.oswalvalves.com)

 **SWAL**  
**OSWAL INDUSTRIES LTD.**

# PROFILE



Mr. Babulal. H. Bokadia [Chairman]

Started way back in 1985 by **Mr. B. H. Bokadia OSWAL INDUSTRIES LTD.**, today has grown manifold to become one of the Industry leaders in Industrial Valves & Castings.

## VISION

To be globally respected Indian Conglomerate that provides:

- World class engineering solutions using the best technology and people. Planning to diversify into other growth sectors such as Real Estate, Education, Renewable Energy etc.

## MISSION

To be a 500 Cr (100 million US\$) company by 2016.

- Being a leading integrated manufacturer of valves, with a global presence.
- Forward integrate into manufacture of spools, skids, EPC & Engineering services.

**Our Values** - we are willing to adapt to changes to meet the challenges of the market place but will not compromise on our beliefs and ethics. We will:

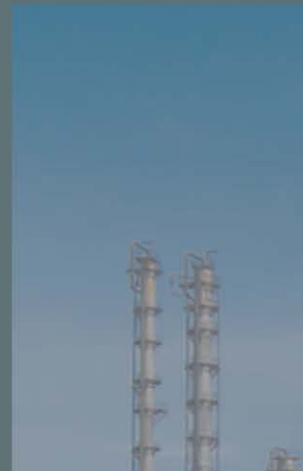
- Be Customer Centric
- Be Caring for our people and our society
- Delight all our stakeholders
- Strive for continuous innovation

Chairman's vision and management's mission has catapulted Oswal in to the big league and owning India's largest single location manufacturing base of over 100000 Sq. mtr. with state-of-the-art. CNC machines & equipments for manufacturing & testing.

Such success can only be achieved by undertaking strong & firm commitment to the 6pillars of our corporate mission. They are:-

**Self reliance**  
**Innovation**  
**Consistency**

**Excellence**  
**Scalability**  
**Global vision**





# ACHIEVEMENTS

- Oswal wins large export orders of approx \$1.5 Million for Exxon Mobil LNG Project which includes Cryogenic Valves. Size range 8" to 24" & Pressure Rating 150# to 600#
- Oswal wins one of its largest export orders for Dangote Fertiliser-Nigeria for Gate Globe & Check Valves
- Oswal is executing order for Angola LNG Project of Bechtel for supply of Floating Ball Valve
- Oswal Won a 5 year contract for supply of Duplex Valves to KOC & Chevron JV in Kuwait
- Supplied High Pressure Gate Valves in Super Duplex Material-Gk. 5A with TSA Coating of 200 Microns with 12 weeks delivery for FPSO's of Petrobras-Brazil.
- Successfully executed Order for FPSO of ONGC Cluster 7 (Offshore) scope of supply is Actuated Ball valves and Contractor is Burti-Armaid
- Oswal is proud to be the 1st Indian Company to manufacture & test Large Size Cryogenic Valves of 36"x150#, 32"x150# & 30"x300#, Also proud to mention that we have executed India's largest Order of Cryogenic Valves worth approx. US\$ 7 Million
- Supplied Valves for prestigious projects like Sadara Petrochemicals (Aramco & Dow JV), QSTec Polysilicon Project- Phase-1, TufanBay Thermal Power Plant Project - Turkey, Laidwar Gas Field Development PDO OMAN
- Oswal's predominance in LNG application has found Malaysia LNG (Petronas) Project to place order of approx € 800000 for Gate, Globe & Check (Cryogenic) valves.
- Supplied Inconel Gate, Globe, Check Valves for handling Oxygen Service with Black Light Test to Dulles Energy USA.
- Supplied Inconel 625 Swing Check valve (18"x500#) with Damper arrangement for Caspian Sea pipeline (Kazakhstan Offshore Field) with 100% radiography in 6 weeks time which is record in itself.



## MILESTONES

- Foundation of Foundry Division - 1985
- Commencement of ANSI valves Gate, Globe, Check valves-1995
- ISO 9000 : 2000 & API Certification - 2002
- Certified ISO 14001 - 2004
- Certified ISO 18001 - 2007
- CE Certification - 2004
- Manufacture of Trunnion Mounted Ball Valves - 2005
- Manufacture of Pressure Seal Valves - 2006
- Manufacture of Cryogenic Valves - 2007
- Fast track Services & Global End User/EPC Approvals - 2009
- Developed Nuclear valves as per ASME QME 1-2011
- Recognized by Government Of India, In-house R&D center - 2012
- Foundry Accredited with Norsok M650 - 2013

# CERTIFICATIONS

Both our Foundry & Valve units are equipped with state-of-the-art testing equipments & facilities in order to maintain exacting standard of quality system based on ISO 9001-2008 guidelines & other International Quality Standards.

Every product at our works undergoes stringent quality checkup at every stage. It involves inspection of incoming material, stage inspection, visual/functional test of valve, final inspection including destructive & non-destructive tests, packing etc.

Special care is taken at the packaging stage so that material does not get damaged during shipment, transport or storage. All the valves are subjected to testing as per API-598 and other relevant testing standards. Special tests are conducted as per customer's requirement.



ISO 9001-2008 (Valve)



ISO 18001-2007



ISO 14001-2004



CE-PED (Foundry)



CE-PED Module H



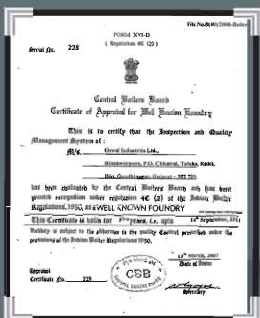
CRN Registration



Seismic Analysis Report



Cryogenic Test



IBR



CE-PED Module B1/F



ISO 9001-2008 (Foundry)



AD-2000-Merkblatt WO



Norsok M650

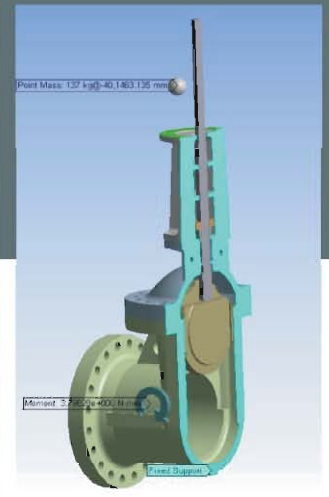
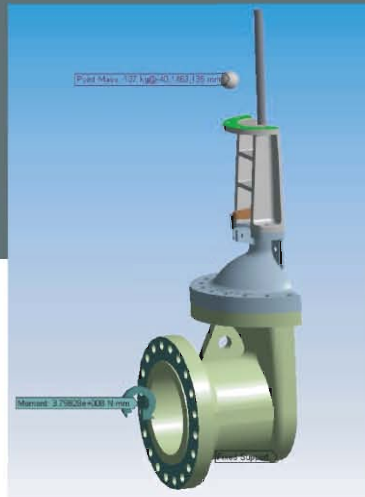


API 6D

“We are committed to make Oswal Group a diversified and respected Indian Conglomerate, with significant global presence.”



# RESEARCH & DEVELOPMENT



New ideas and the drive to enter new ventures is what keeps us going after new benchmarks and outperforming each time. With high set goals and ever improving technology adaptation our ideas materialize into higher value added products.

Highly sophisticated software to design OSWAL valves such as 3D CAD Pro-Engineering, Finite Element Analysis, Ansys, and others like Cold cyclic test, Hot cyclic analysis, Fugitive emission test, Optimizing foundry methodologies, Flow and torque tes, Fire safe test, Cryogenic test, Surge flow test Hydraulic and pneumatic behavior of the final product, Elemental Temperature etc.

“Relentless efforts in Research & Development of valves for newer & newer critical application is the hallmark of Oswal’s product development team..”



**Govt. of India recognized  
In-house R&D center**

# QUALITY ASSURANCE

In today's highly competitive and demanding world, Customers demand for high integrity valves is more profound and has become a constant process to reengineer ourselves to meet the stringent quality compliance.

In order to meet with this demand Oswal has commissioned most ultra modern and enhanced testing facility; the first of its kind in valve industries in India. Valve tests specified in the International standards are found to be inadequate to demonstrate fitness in certain critical applications. Consequently, some valves will require additional testing to be conducted under simulated operating conditions

Drawing on a unique knowledge base of performance data, Oswal's engineering and design team provides customers with independent

support at every stage of a project, from front end engineering through to commissioning and operation. Oswal's specialist engineering team utilizes industry best practice and unique empirical data from continuous operation and test feed back from the Enhanced testing facility.

Enhanced Testing Facility includes a fully integrated computer registration system to accurately record the test results. The facility includes high accuracy pressure sensors and transmitters, high and low temperature measuring devices, torque and valve operator diagnosis. The actual site conditions are stimulated in this testing facility and the valves are tested to arrive at optimum design and results are recorded.

## Enhanced testing facilities

- Hydrostatic Testing
- Fire Type Testing
- Elevated Temperature Testing
- Gas Testing
- Helium Leak Detection
- Torque Testing
- Low temp. & Cryogenic Type Testing
- Vacuum Testing
- Fugitive Emission Testing
- Valve and Operator Diagnostics
- Positive Material Identification (PMI)
- Pull Testing
- Material Mechanical properties Testing
- Flow measurement Testing
- Magnetic Particle Testing
- Ultrasonic Wallthickness Testing





# FOUNDRY UNIT.....

## CASTING A SUCCESS WORLDWIDE

Oswal's captive steel foundry produces Carbon Steel, Stainless Steel and Alloy Steel castings conforming to National & International standards. We also manufacture Duplex Stainless Steel, Precipitating hardening Alloys, Casting for oil field equipment under NACE.

Manufacture of casting is done through electric induction melting, moulding & core making by Co<sub>2</sub> binder systems and organic chemical binder systems. Heat treatment is done in ceramic fiber lined, LPG Gas fired and API 6A calibrated furnace.(For alloy steel, all casting produced are in the noble omega process)

Facilities include a machine shop for manufacture of patterns and patterns rigging, two coreless induction, medium frequency furnaces, continuous high speed mixers with compaction table for moulds cores, 72" & 48" table shot blasting machines, tanks for pickling, passivation of Stainless Steel Castings and adequate material moulding facilities.

Quality assurance is ensured by a written assurance program that includes various testing and inspection. Strict adherence to our quality assurance program resulted in certification of ISO - 9001 -2008, PED, CE & AD 2000 WO & NORSOK M650.



**Furnace Capacity :** 3 crucible, 500kg, 1000kg, 1500kg

**Single Casting Weight :** 25kg - 2500kgs

**Production Capacity :** 3000 mt per annum.



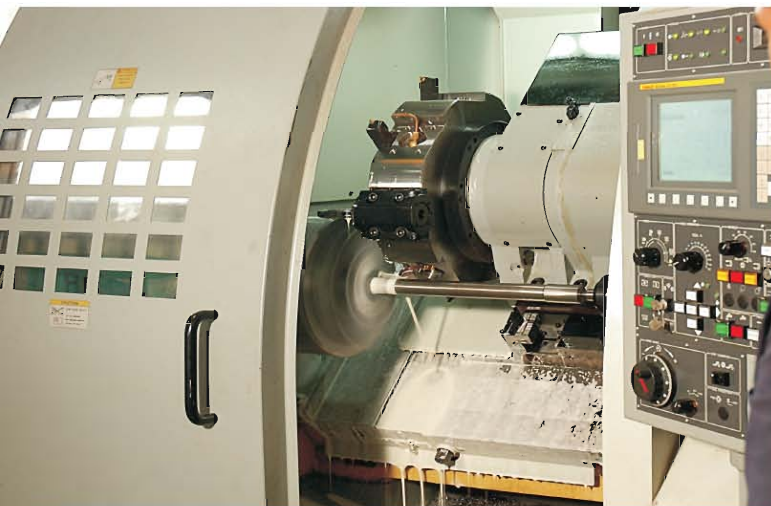
# VALVE UNIT.....

The valve manufacturing unit is equipped with most modern quality equipments and facilities for design on CAD/CAM, pattern development, machining, inspection, assembly and testing as per relevant standard of finished valves.

Gate, Globe, Ball and Check valves are the main products of the valve manufacturing unit. The size ranges from 2" (50mm) to 72" (1800mm) and pressure rating of ANSI 150# to 2500#. The valves conform to International standards as per the requirements of the customer such as API, ASTM, ANSI, DIN, BSI, NACE & MSS and are produced in Stainless Steel, Carbon Steel, Duplex, Super Duplex & other Alloy Steel.

Today along with the customary Gate, Globe, Check valves, we are also making great inroads into Specialised valves like:

- API-6D Trunnion Mounted Ball valves
- Cryogenic valves
- Pressure seal valves
- Oxygen service valves
- Urea & Ammonia application valves
- Fugitive/ Low emission valves
- Special Metallurgical valves etc



India's largest single location integrated plant for valve manufacturing."





# SPECIAL MATERIAL/ APPLICATION VALVE

## APPLICATION VALVES

- Oxygen Service
- Cryogenic Service
- Fugitive Emission / Low Emission
- High Pressure
- Urea Ammonia Grade

## OXYGEN SERVICE VALVES

The Air we breathe contains about 21% of oxygen. Without oxygen we would die within minutes. But even a small increase in the oxygen level in the air to 24% can create a dangerous situation. It becomes easier to start fire. Pure oxygen under pressure is very reactive. We are the only company in India having full fledged facility for oxygen service valves with Clear Room & Backlight testing facility.

## CRYOGENIC VALVES

Cryogenic valves, except check valves are supplied with extended bonnet with a sufficient gas column length. Usually supplied by the user, to eliminate any chance of frosting of the packing area. The cryogenic valves are installed on applications involving the production, transport and storage of liquefied gases such as oxygen, nitrogen, argon, natural gas, hydrogen or helium down to -254°C. The cryogenic valves are designed with compliance of ASME B16.34 and BS 6364. The cryogenic tests are performed in fully equipped in-house facilities, according to BS 6364.

## HIGH PRESSURE VALVES

High pressure valves (pressure seal type) offer high performance, reliability and safety. The valves are especially suitable for high pressure and high temperature applications in steam, oil and gas processing, power industry and in the chemical and petrochemical industry.

## FUGITIVE EMISSION

Most of the focus regarding fugitive emissions in valves relates to valve stem packing. Standards such as API-622 Type Testing of Process Valve Packing for Fugitive Emissions have been established to test valve packing. Less attention is paid to the bolted joints in a valve.

Valves can have as many as five bolted joints—two end flanges, two body-to-end adapter flanges (for three piece construction) and bonnet flange. These are potentially a significant source of fugitive emissions. One end user has reported 28% of its emissions come from flanged joints.



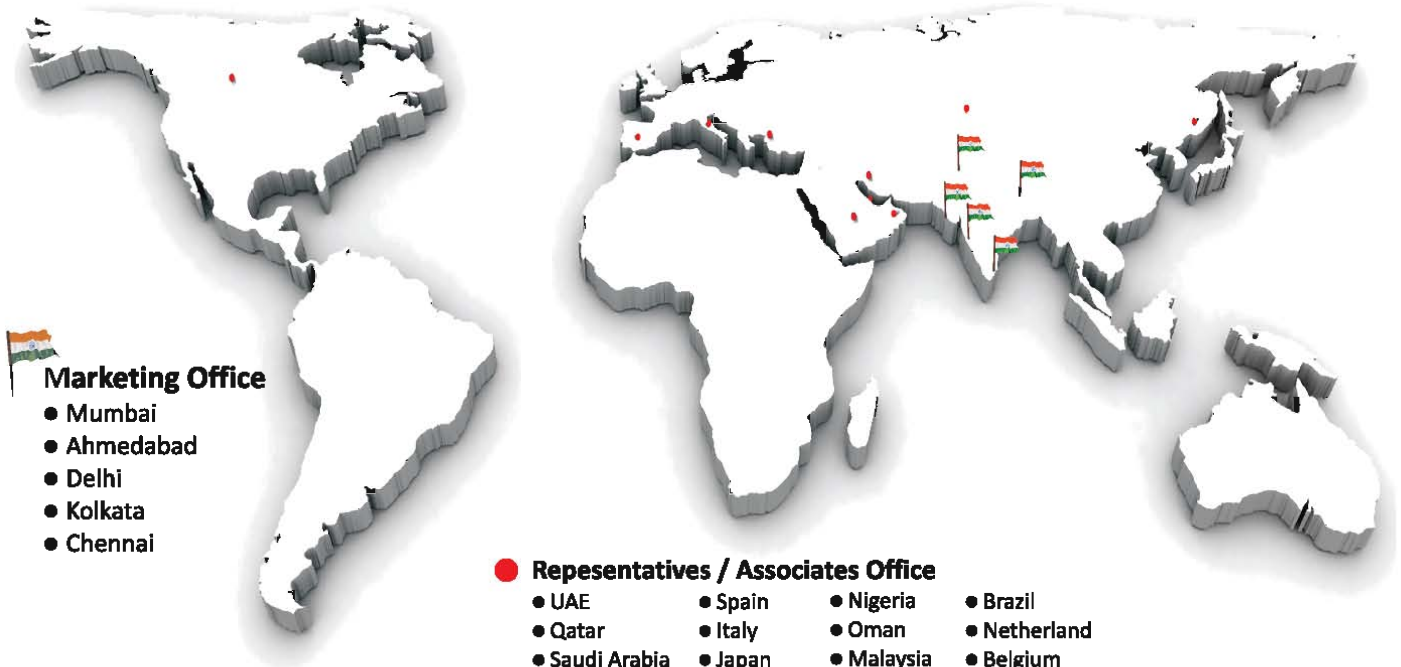
# PRODUCT RANGE

PRODUCT RANGE FOR CAST VALVES							
Valve Type	Class	Size	Operation Type				Shell Material As Per Specification
	Rating	Range	Manual	Gear	MOV	ROV	
GATEVALVE ( BOLTED BONNET)	150# 300# 600#	2" to 72" 2" to 48" 2" to 36"	YES	YES	YES	YES	
GATEVALVE ( PRESSURE SEAL )	900# 1500# 2500#	2" to 24" 2" to 24" 2" to 12"	YES	YES	YES	YES	ASTMA216 Gr.WCB ASTMA217 Gr.WC1 ASTMA217 Gr.WC6
GLOBEVALVE ( BOLTED BONNET)	150# 300# 600#	2" to 24" 2" to 16" 2" to 16"	YES	YES	YES	YES	ASTMA217 Gr.WC9 ASTMA217 Gr. C5 ASTMA217 Gr. C12
GLOBEVALVE ( PRESSURE SEAL )	900# 1500# 2500#	2" to 12" 2" to 12" 2" to 4"	YES	YES	YES	YES	ASTMA351 Gr. CF8 ASTMA351 Gr. CF3 ASTMA351 Gr. CF8M ASTMA351 Gr. CF3M
SWING CHECK VALVE ( BOLTED BONNET)	150# 300# 600#	2" to 36" 2" to 36" 2" to 24"	YES	YES	YES	YES	ASTMA351 Gr. CN7M ASTMA351 Gr. CF8C ASTMA351 Gr. CD4Mcu
SWING CHECK VALVE ( PRESSURE SEAL )	900# 1500#	2" to 12" 2" to 12"	YES	YES	YES	YES	ASTMA351 Gr. CK3MCuN ASTMA352 Gr. LCA ASTMA352 Gr. LCB
FLOATING BALL VALVE	150# 300#	½" to 6" ½" to 6"	YES	YES	YES	YES	ASTMA352 Gr. LCC ASTMA494 Gr. CW6MC ASTMA494 Gr. CW2M
TRUNNION MOUNTED BALL VALVE	150# 300# 600#	2" to 36" 2" to 36" 2" to 36"	YES	YES	YES	YES	ASTMA494 Gr. CY40 ASTMA494 Gr. CU5MCuC
GATEVALVE ( CRYOGENIC)	150# 300# 600#	2" to 36" 2" to 36" 2" to 24"	YES	YES	YES	YES	ASTMA890 Gr. 1A ASTMA890 Gr. 4A ASTMA890 Gr. 5A
GLOBEVALVE ( CRYOGENIC)	150# 300# 600#	2" to 36" 2" to 16" 2" to 16"	YES	YES	YES	YES	ASTMA890 Gr. 6A NACE matl. Grade to NACE MR0175/ NACE MR 0103
CHECK VALVE ( CRYOGENIC)	150# 300# 600#	2" to 24" 2" to 16" 2" to 16"	YES	YES	YES	YES	ASTMA 105 ASTMA 350 Gr. LF2 ASTMA 182 Gr. 304 ASTMA 182 Gr. 304L
BALL VALVE (CRYOGENIC)	150# 300# 600#	2" to 24" 2" to 24" 2" to 24"	YES	YES	YES	YES	ASTMA 182 Gr. 316 ASTMA 182 Gr. 316L ASTMA 182 Gr. F11
GATEVALVE (WELDED TYPE)	900# 1500#	0.5" to 2" 0.5" to 2"	YES	YES	YES	YES	ASTMA 182 Gr. F22 AND OTHER MATERIAL
GLOBEVALVE ( BOLTED TYPE)	800# 900# 1500#	0.5" to 2" 0.5" to 2" 0.5" to 2"	YES	YES	YES	YES	NACE matl. Grade to NACE MR 0175 / NACE MR 0103
GLOBEVALVE (WELDED TYPE)	900# 1500#	0.5" to 2" 0.5" to 2"	YES	YES	YES	YES	
CHECK VALVE ( BOLTED TYPE)	800# 900# 1500#	0.5" to 2" 0.5" to 2" 0.5" to 2"	YES	YES	YES	YES	
CHECK VALVE (WELDED TYPE)	900# 1500#	0.5" to 2" 0.5" to 2"	YES	YES	YES	YES	

NOTE : • VALVES CAN BE SUPPLIED WITH ACTUATOR , PAD LOCK AND OTHER ACCESSORIES LIKE LIMIT SWITCH , POSITION INDICATOR ,& SOLENOID VALVE AS PER REQUIREMENT  
• STEM EXTENSION , UNDERGROUND SERVICE FEATURES ARE AVAILABLE .



# GLOBAL REACH



## Marketing Office

- Mumbai
- Ahmedabad
- Delhi
- Kolkata
- Chennai

## Representatives / Associates Office

- UAE
- Qatar
- Saudi Arabia
- Kuwait
- Spain
- Italy
- Japan
- Canada
- Nigeria
- Oman
- Malaysia
- Singapore
- Brazil
- Netherland
- Belgium

## APPROVALS/REFERENCES




# Just **FastTrack** your Projects... .. by using our specifically designed service

Presenting Fast Track services from Oswal:- a market leader in Industrial Valves having own captive foundry for valve casting.

What is "Fast track"

Fast track is an integrated rapid valve supply chain management especially for upstream & downstream projects in Oil & Gas industries. Fast track service is not just speed manufacturing but :-

- Fast estimate to total costing
- Trouble free documentation
- Fast & reliable delivery
- Special Materials
- Uncompromising Quality
- Less downtime and more spare time

Oswal Fast track Service is backed by 30 years of manufacturing expertise, state-of-the-art manufacturing facilities, World class quality management systems, proven technical expertise in exotic materials and on & offline supply chain management capable of delivering & meeting any critical application requirement on a war footing basis.



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