

Not Just a Name  
A Whole New World in itself

- Valves
- Skids / Process Equipments
- Healthcare



## CORPORATE PROFILE



Mr. Babulal. H. Bokadia [Chairman]

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

Oswal has India's largest single location integrated manufacturing facility of over 100,000 square metres. Our captive Steel Foundry is dedicated to manufacture only Valve Castings. Our metallurgy includes Stainless Steel, Alloy Steel, Duplex Stainless Steel, Super Duplex Stainless Steel & Exotic Alloy Grades like Hastelloy, Inconel, Monel etc. This gives us an edge & makes us the only fully integrated valves manufacturer in India.

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

- SELF-RELIANCE
- INNOVATION
- CONSISTENCY
- EXCELLENCE
- GLOBAL-VISION
- SCALABILITY

Chairman's vision and management's mission has catapulted Oswal into the big league with state-of-the-art machines & equipment for manufacturing & testing.

### VISION

To be a globally respected conglomerate driven by Excellence.

### MISSION

Be a world class flow management solution provider with a global presence imbibing best international practices while promoting highest levels of quality.

### VALUES

We are willing to adapt to changes to meet the challenges of the market place but will not compromise on our beliefs, ethics and integrity. We will...

- Aim for highest customer satisfaction.
- Be Caring for our stakeholders. People and our society.
- Be passionate for continuous innovation and high performance.
- Respect for safety & environment.



**SINGLE LOCATION  
LARGEST PLANT  
FOR VALVE MANUFACTURING**

### Our USP

- Captive Steel foundry dedicated for valves casting having capacity of 3000 MTPA
- Our Foundry certified by Norsok M650, ISO 9002:2008, CE PED and ADWO:2000
- We are India's largest single location Integrated manufacturing facility for valves
- 30+ Years of manufacturing expertise, state of the art manufacturing facilities with proven track record.
- Global Approvals & Reach
- In-House R & D Centre recognized by the Government of India
- Our Fast Track Services is capable of delivering & meeting critical application requirement .

### OSWAL GROUP



## KEY GLOBAL PROJECTS



**30** YEARS OF  
VALVEABLE  
SERVICE  
in Fluid Control



● LOWER FARs HEAVY OIL DEVELOPMENT PROGRAM PHASE-1 (60 MBOPD) & MGT (MANIFOLD, GROUP TRUNKLINE) SYSTEMS FOR GCs 29, 30 & 31 PROJECTS

**Client:** Kuwait Oil Company, Kuwait

**Description :** Supplied zero leakage valves with Inconel trims, along with Duplex & Super Duplex valves

**Item :** Gate, Globe & Check Valves

**Valve Size :** 2" to 30"

**Pressure Class Rating :** 150# to 1500#

**Qty :** 8037 nos.



● BAYTOWN EXPANSION PROJECT FOR NEW ETHANE CRACKER PLANT

**Client :** Exxon Mobil, USA

**Description :** Successfully executed order for Cryogenic application (-196°C)

**Item :** Cryogenic Gate Valves

**Valve Size :** 3" to 24"

**Pressure Class Rating :** 150# to 600#

**Qty :** 325 nos.



● FPSOs PROJECT FOR VARIOUS PACKAGE VIZ. CHEMICAL INJECTION PACKAGE, TOPSIDES & SUBSEA HYDRAULIC POWER UNITS, WELL CONTROL RACKS, ETC.

**Client :** Petrobras, Brazil

**Description :** Package includes High Pressure Gate valves in Super Duplex Material-Gr.5A with TSA Coating of 200 Microns, along with Actuated Duplex Ball Valves

**Item :** Gate, Globe, Check & Ball Valves

**Valve Size :** 3/4" to 20"

**Pressure Class Rating :** 150# to 300#, 800#, 900#

**Qty :** 569 nos.



● NEW ETHYLENE CRACKER UNIT PROJECT AT TOBOLSK/WESTERN SIBERIA

**Client :** Sibur, Russia

**Description :** Under Ground Valves with FM certification, TR/CU compliance along with Cryogenic Valves (1500+ nos.)

**Item :** Gate, Globe, Check Valves

**Valve Size :** 4" to 24"

**Pressure Class Rating :** 150# to 600#

**Qty :** 2331 nos.



● RUMAILA OIL FIELD PROJECT, WHICH IS ONE OF THE LARGEST OIL FIELDS IN THE WORLD

**Client :** BP Iraq NV, Iraq

**Description:** Supplied Duplex Stainless Steel, low temp. Steel & stainless steel valves

**Item :** Gate, Globe Valves

**Valve Size :** 2" to 16"

**Pressure Class Rating :** 150# & 300#

**Qty :** 1328 nos.



● AGP-3 LINE PROJECT [INCREASE CAPACITY OF THE KAZAKHSTAN-CHINA MAIN GAS PIPELINE]

**Client :** Aisa Gas Pipeline, Kazakhstan

**Description :** Special Purpose Valves with 800 Microns Coal Tar Coating (Environment temperature below absolute) in cross country Transit pipelines

**Item :** Manual Ball Valves

**Valve Size :** 1/2" to 16"

**Pressure Class Rating :** 600# & 800#

**Qty :** 593 nos.



● FERTILIZER PLANT PROJECT

**Client :** Dangote Fertilizers, Nigeria

**Description :** Supplied Large qty. of manual Valves

**Item :** Gate & Globe Valves

**Valve Size :** 2" to 28"

**Pressure Class Rating :** 150# & 600#

**Qty :** 2107 nos.



● AGPP-AMURSKY GAS PROCESSING PLANT PROJECT

**Client :** Nipigas, Russia

**Description :** Executing large qty. of valves with TR/CU compliance. maximum nos. valves are with Cryogenic application.

**Item :** Gate, Globe & Check Valves

**Valve Size :** 2" to 14"

**Pressure Class Rating :** 150# & 600#

**Qty :** 4121 nos.

## KEY INDIAN PROJECTS



**30**  
YEARS OF  
VALVEABLE  
SERVICE  
in Fluid Control



● **ENERGY SAVING PROJECTS**  
PLANT : AONLA-I&II, PHULPUR-I&II

Client : Indian Farmers Fertiliser Co-Operative Ltd.

**Description** : Successfully executed supply of Tilting Disc Check Valve along with all GGC Valves, Total Order Value being approx. Rs. 16 Cr  
**Item** : GGC Valve  
**Valve Size** : 2" to 30"  
**Pressure Class Rating** : 150# to 600#  
**Qty** : 1301



● **KOCHI - KOOTTANAD BANGALORE - MANGALORE PIP.(PH-II)-GAIL**

Client : GAIL (India) Limited

**Description** : Most prestigious single largest Order to have been executed with value of Approx. Rs. 20Cr.  
**Item** : GOV - Ball Valve  
**Valve Size** : 2" to 30"  
**Pressure Class Rating** : 600#  
**Qty** : 164



● **PARADIP-HALDIA-DURGAPUR LPG PIPELINE PROJECT**

Client : Indian Oil Corporation Ltd.

**Description** : This order was executed for LPG Pipeline Services  
**Item** : Ball Valve  
**Valve Size** : 4" to 10"  
**Pressure Class Rating** : 600#  
**Qty** : 774



● **AUGMENTATION OF FIRE WATER SYSTEM AT VIRAMGAM, CHAKSU AND HALDIA PIPELINE LOCATIONS**

Client : Indian Oil Corporation Ltd.

**Description** : Supplied Large quantity of motor operated Valves for Fire Water Pipeline application  
**Item** : MOV Gate Valve  
**Valve Size** : 2" to 28"  
**Pressure Class Rating** : 150#  
**Qty** : 429



● **PATA -PETROCHEMICAL COMPLEX II**

Client : GAIL (India) Limited

**Description** : Supplied Large quantity and Up to 32" x 150# Valves for highly critical Services in petrochemical complex  
**Item** : Cryo Valve - Gate & Globe  
**Valve Size** : 2" to 32"  
**Pressure Class Rating** : 150#  
**Qty** : 945



● **MODIFICATION JOB FOR INCREASING OPERATION EFFICIENCY AND FLEXIBILITY IN HAZIRA-VIJAIPUR-JAGDISHPUR AND DAHEJ-VIJAIPUR NATURAL GAS PIPELINES**

Client : GAIL (India) Limited

**Description** : This order included 36" x 600# Trunnion mounted, Actuator Operated, Ball Valves, Qty - 9 Nos, approximate value of Rs. 6.95Cr.  
**Item** : Ball Valve  
**Valve Size** : 36"  
**Pressure Class Rating** : 150# to 600#  
**Qty** : 26



● **PANNA PRODUCTION AND SATELLITE PLATFORMS OF ONGC - OFFSHORE**

Client : BG Exploration and Production India Limited

**Description** : Supplied High Pressure Valves for Offshore Platform Services with NACE specifications  
**Item** : Ball Valve  
**Valve Size** : 2" to 12"  
**Pressure Class Rating** : 150# to 900#  
**Qty** : 96

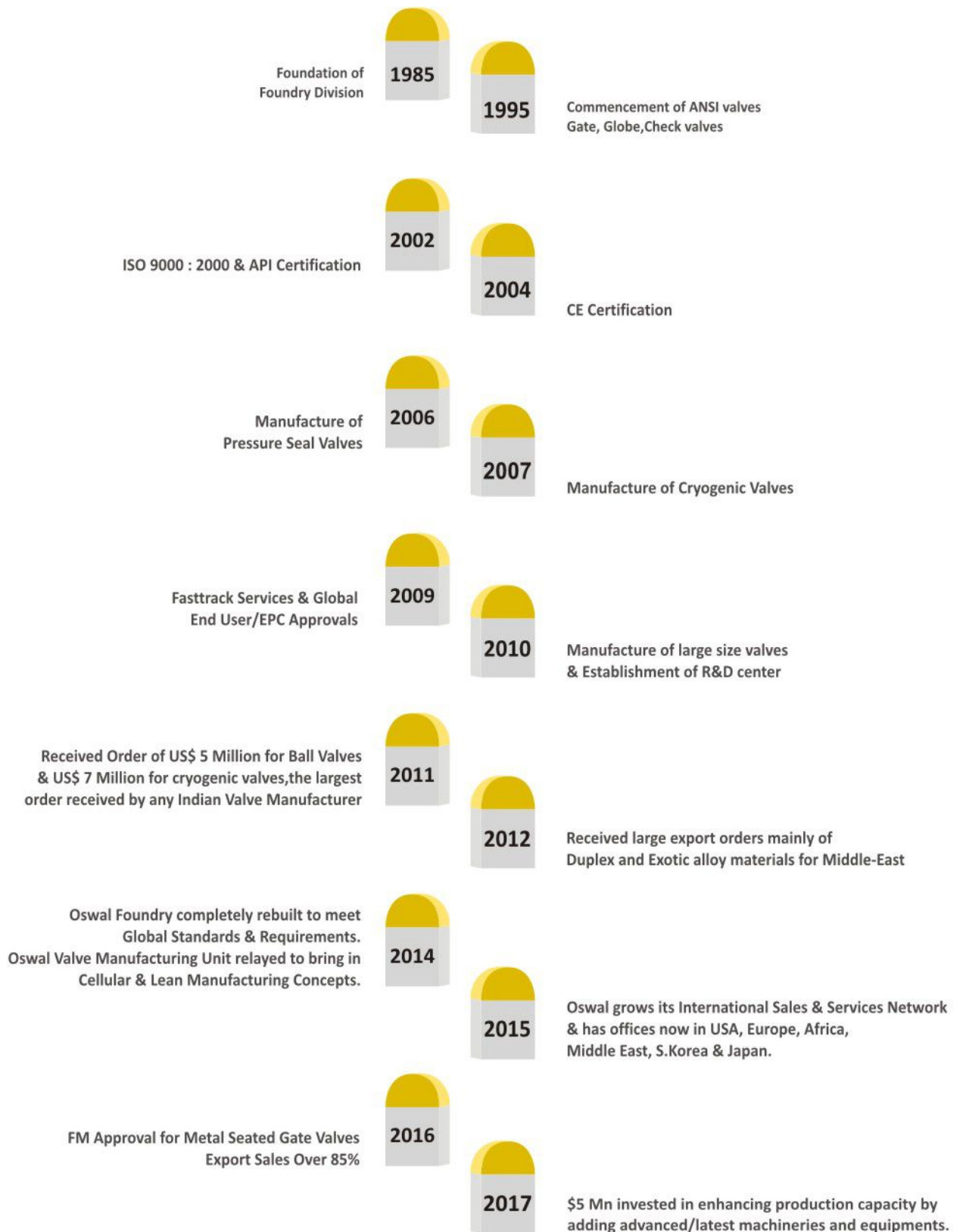


● **INDIAN OIL CORPORATION LTD. HALDIA REFINERY AISHWARYA PROJECT FOR SRU, ARU, SWS AND OFFSITE FACILITIES PACKAGES**

Client : Punj Lloyd Ltd.

**Description** : Large size valves of 62" along with other valves was highlights for this order  
**Item** : GGC Valve  
**Valve Size** : 2" to 62"  
**Pressure Class Rating** : 150#  
**Qty** : 762

# MILESTONES



# CERTIFICATIONS



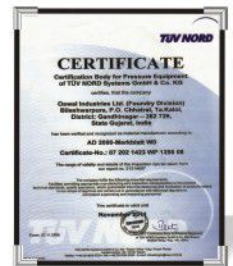
ISO 9001-2015 (Valve)



BS OHSAS 18001-2007



ISO 14001-2015



CE-PED (Foundry)



CE-PED Module H



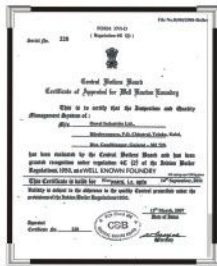
CRN Registration



Seismic Analysis Report



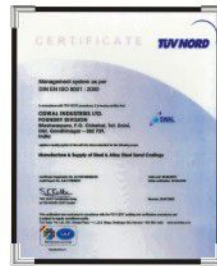
Cryogenic Test



IBR



CE-PED Module B1/F



ISO 9001-2015 (Foundry Division)



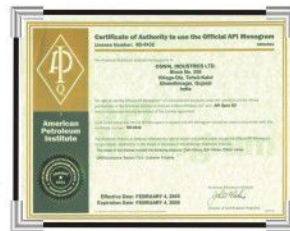
AD-2000-Merkblatt WO



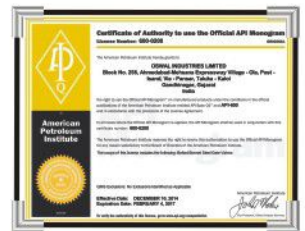
Fire Safe Test



Norsok M650



API 6D



API 600-0209

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.



SIL Level 3



FM Approval



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



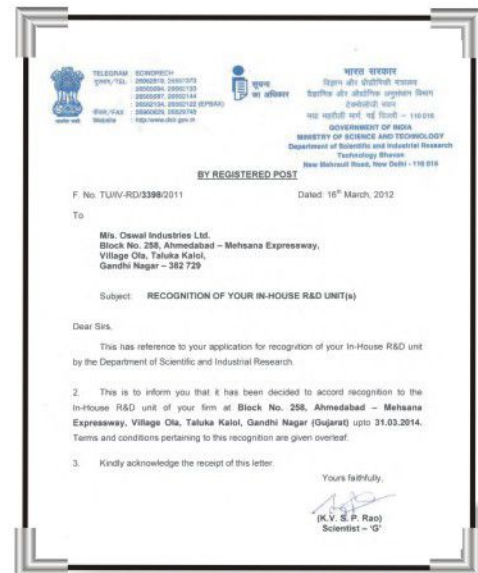
# RESEARCH & DEVELOPMENT



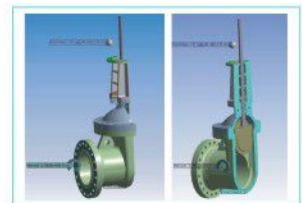
New ideas and the drive to enter new ventures is what keep us going after new benchmarks and out performing each time. With high set goals and ever improving technology adaptation our ideas materialize into higher value added products. Highly sophisticated software to design OSWAL valves such as 3D CAD Pro-Engineering Solidwork, Finite Element Analysis, Ansys. Others like Cold cyclic test, Hot cyclic test, Fugitive emission test, Optimizing foundry methodologies, Flow and torque, Fire safe test, Cryogenic test, Surge Flow test Hydraulic and pneumatic behavior of the final product, Elemental Temperature etc.

Today along with the customary Gate , Globe, Check & Ball valves, we have already made 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



**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.

## In-house testing facilities

- Hydrostatic Testing
- Fire Type testing
- Elevated Temperature Testing
- Air / 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)
- Stem Pull Test
- Material Mechanical Properties Testing
- Flow Measurement Testing
- Magnetic Particle Testing
- Ultrasonic Wall thickness Testing

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 simulated in this testing facility and the valves are tested to arrive at optimum design and results are recorded.





Furnace Capacity: 3 crucible, 500kg, 1000kg, 1500kg  
Single Casting Weight: 25kg - 2500kgs  
Production Capacity: 3000 mt per annum.

# 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  $\text{CO}_2$  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 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.**





A Bird's eye view of one of the bay from  
our valve manufacturing plant.

# 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 Carbon Steel, Alloy Steel, Stainless Steel, Duplex, Super Duplex & Exotic Alloys.

## Our Specialty

- Cryogenic / Low temperature valves
- Pressure seal valves
- Oxygen service valves
- Urea & Ammonia application valves
- Fugitive/ Low emission valves
- Special Metallurgical valves etc
- Nuclear valves



# Product Range

Valve Type	Floating & Trunion Mounted Ball Valve
Size	½" (15 mm) to 48" (1200 mm)
Class Rating	Class 150 to 2500
Construction Details	Reduced Bore, Full Bore, Bolted, Fully welded
Design Standard	ISO 17292, API 6D, API 608, BS 6364
Pressure/Temperature Rating	ASME B16.34
Test (Inspection) Standard	BS EN 12266-1, API 598, API 6D
End Connection	Flanged End, Butt weld End, Socket weld End, Screwed End
Variant	Cryogenic, Extension Spindle, 2 piece, 3 piece, Top Entry, Side Entry, Soft seated, Metal seated, Etc.
Operator/Actuator	Lever Operated, Gear operated, Actuator operated



Valve Type	Gate Valve
Size	½" (15 mm) to 72" (1800 mm)
Class Rating	Class 150 to 2500
Construction Details	Bolted Bonnet, Welded Bonnet, Pressure Seal Bonnet, Extended Bonnet
Design Standard	API 602, ISO 15761, API 600, ISO 10434, MSS SP 144, API 603, BS 6364
Pressure/Temperature Rating	ASME B16.34, API 602
Test (Inspection) Standard	API 598
End Connection	Flanged End, Butt weld End, Socket weld End, Screwed End
Variant	Cryogenic, Extension Spindle, Etc.
Operator/Actuator	Handwheel, Gear operated, Actuator, Chain Wheel



Valve Type	Globe Valve
Size	½" (15 mm) to 24" (600 mm)
Class Rating	Class 150 to 2500
Construction Details	Bolted Bonnet, Welded Bonnet, Pressure seal Bonnet, Extended Bonnet
Design Standard	API 602, ISO 15761, BS 1873, API 623, MSS SP 144, BS 6364
Pressure/Temperature Rating	ASME B16.34, API 602
Test (Inspection) Standard	BS EN 12266-1, API 598
End Connection	Flanged End, Butt weld End, Socket weld End, Screwed End
Variant	Cryogenic, Extension Spindle, Etc.
Operator/Actuator	Handwheel, Gear operated, Actuator, Chain Wheel





# Product Range

Valve Type	Check Valve
Size	½" (15 mm) to 36" (900 mm)
Class Rating	Class 150 to 2500
Construction Details	Bolted Cover, Welded Cover, Pressure Seal
Design Standard	API 602, ISO 15761, BS 1868, MSS SP 144, BS 6364
Pressure/Temperature Rating	ASME B16.34, API 602
Test (Inspection) Standard	API 598, BS EN 12266-1
End Connection	Flanged End, Butt weld End, Socket weld End, Screwed End
Variant	Cryogenic, Damper Arrangement, Counter balance weight



Valve Type	Triple Offset Butterfly valve
Size	3" (80 mm) to 24" (600 mm)
Class Rating	Class 150 to 600
Construction Details	Short pattern, Long pattern, Wafer Type
Design Standard	API 609, BS 6364
Pressure/Temperature Rating	ASME B16.34
Test (Inspection) Standard	API 598
End Connection	Flanged End, Butt weld End, Wafer Type, Lugged type
Variant	Cryogenic, Extension Spindle, Soft Seated, Metal Seated
Operator/Actuator	Gear operated, Actuator operated



Valve Type	Dual Plate Check Valve
Size	2" (15 mm) to 24" (600 mm)
Class Rating	Class 150 to 600
Construction Details	Spring Loaded
Design Standard	API 594, BS 6364
Pressure/Temperature Rating	ASME B16.34
Test (Inspection) Standard	BS EN 122266-1, API 598
End Connection	Flanged, Wafer type, lugged type
Variant	Cryogenic, Soft Seated, Metal Seated



## Materials

**Forged Steel (1/2" - 2")** - ASTM A105 / ASTM A350 Gr LF2 / ASTM A182 Gr F11 / ASTM A182 Gr F22 / ASTM A182 Gr F6a / ASTM A182 Gr F304 / ASTM A182 Gr F304L / ASTM A182 Gr F316 / ASTM A182 Gr F316L / ASTM A182 Gr F321 / ASTM A182 Gr F347 / ASTM A182 Gr F304H / ASTM A182 Gr F20 / ASTM A182 Gr F51 / ASTM A182 Gr F53 / ASTM A182 Gr F55 / ASTM A182 Gr F60 / Inconel 625 / Inconel 825

**Cast Steel Valves (2" & Above)** - ASTM A216 Gr WCB / ASTM A352 Gr LCB / ASTM A352 Gr LC1 / ASTM A352 Gr LC3 / ASTM A217 Gr WC6 / ASTM A217 Gr WC9 / ASTM A217 Gr C5 / ASTM A217 Gr C12 / ASTM A217 Gr C12A / ASTM A351 Gr CF8 / ASTM A351 Gr CF3 / ASTM A351 Gr CF8M / ASTM A351 Gr CF3M / ASTM A351 Gr CF8C / ASTM A351 Gr CF10 / ASTM A351 Gr CN7M / ASTM A351 Gr CK3MCuN / ASTM A995 Gr 4A / ASTM A995 Gr 5A / ASTM A995 Gr 6A / ASTM A494 Gr CW6MC / ASTM A494 Gr CU5MCuC

## Special Offerings

SIL Level 3, NACE, FM Approved, Seismic Qualified, FET Compliance, Underground installation, Oxygen Services, GOV/MOV, FIRE Jacketed, Heat Dissipated stem, Cryogenic, Urea/Ammonia Service, Exotic MOC, Nuclear application

# GLOBAL PRESENCE



 Marketing Offices (India & Overseas)

 Representatives / Associates

- Saudi Arabia
- Qatar
- Singapore
- Malaysia
- Brazil

Mumbai

Ahmedabad

Delhi

Chennai

Kolkata

# INTERNATIONAL APPROVALS/ REFERENCES



## GLOBAL REACH





# 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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