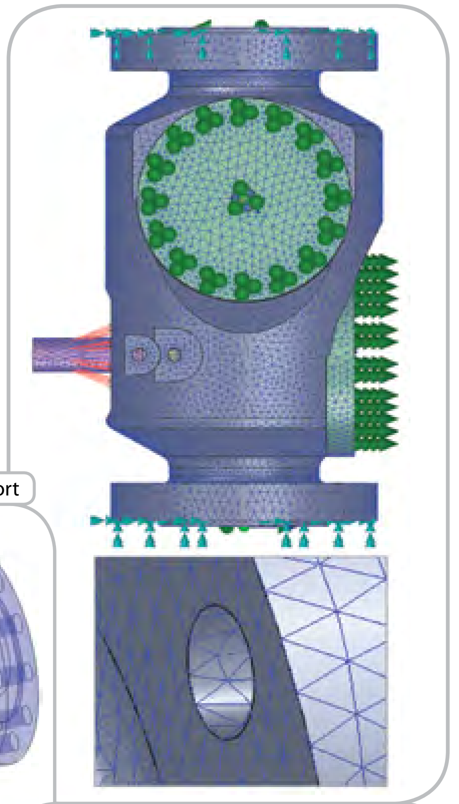
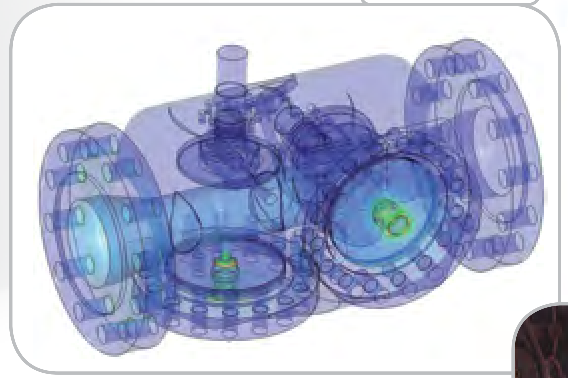
ENGINEERING - QUALITY AND TESTING

Imperial Valve is specialized in designing and manufacturing a wide range of DBB valves.
Technical solutions and engineering are in accordance to American standards API / ASME / ASTM and every project is fully supported by test with Nastran (Finite Element Analysis Solver).
The simulation is carried out in accordance with "Finite Element Methodology", the software used to solve the linear elastic equations is Nei Nastran v 10.0x64".



Machining



Technical Report

Forging

Valves manufactured by Imperial Valve are designed and produced in western Europe, utilizing exclusively European know-how, materials and machining. Materials are certified in according to EN 10204 3.1 or 3.2.

Low Temperature

Fugitive emission

Liquid Penetrant

Pressure Test

Pressure Test

Pressure Test

Pressure Test

Imperial Valve believes in the importance of the final tests of the products. Dimensional and Functional Controls are carried out on every valve; Pressure Test is performed following internal procedures and API 6D – API 598 - BS.6755.

Prior to shipment the valves are tested on modern test benches, which will upon request issue detailed test diagrams.

Imperial VALVE

CERTIFICATIONS

Imperial Valve operates a fully certified quality assurance programme according to NEN-EN-ISO 9001:2008.

All major suppliers are also fully certified to meet the most stringent international standard of quality and performance.

Testing executed by our specialized external laboratory.

- Fire test
- Helium testing
- Cryogenic gas testing
- X-Rays inspection
- Ultrasonic inspection
- Mechanical testing
- Positive material identification
- Fugitive emission testing

DET NORSKE VERITAS
MANAGEMENT SYSTEM CERTIFICATE

De Gidts & Feldman Groep

NEN-EN-ISO 9001:2008

OTHER PRODUCTS AVAILABLE

- Needle valves & Manifolds
- Injection & Sampling valves
- Monoflange valves
- Double block & bleed valves
- Medium & High pressure valves
- Dual expanding double block & bleed plug valves
- Process ball valves
- Pipelines ball valves
- Taper plug valves
- Parallel plug valves
- Flush bottom tank valves
- Valves for desalting plant

Production, design and know-how are entirely MADE IN THE EUROPEAN UNION.

Imperial VALVE

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Website: www.imperialvalve.nl

FPAL Reg. No.100500601

ISO 9001 REGISTERED DNV

Represented by:

DOUBLE BLOCK AND BLEED VALVES

INTRODUCTION DBB VALVES

Long lasting safety and high performance are the characteristics on which the production of DBB valves are based.
These valves provide a double isolation facility in environments where size, weight and accessibility come at a high price (such as offshore platforms, FPSO and other high pressure installations).
The valves illustrated here are in fact installed by major oil and gas companies in Europe and Asia.

DBB BALL VALVES - DESIGN FEATURES

- Floating or trunnion mounted
- Full or reduced bore
- Side entry or top entry design
- Wafer body construction compact side entry
- Firesafe - antistatic design and anti blowout stem
- Soft or metal to metal seating - zero leakage
- Bleed valve needle or ball type
- Fugitive emission class B certificate
- Very reduced dimensions and weight

DBB PLUG VALVES - DESIGN FEATURES

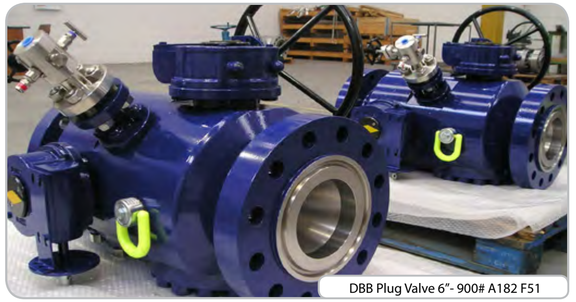
- Lubricated and non lubricated valves
- Metal to metal seating - zero leakage
- Top entry - field repairable
- Pressure balanced - lower torques
- Full port or reduced port
- Round port - low turbulence, pressure drop
- Bleed valve needle or plug type
- Firesafe - antistatic design and anti blowout stem
- Wrench, bar handle, worm gear or actuator operated
- Hard coated and treated with low friction PTFE/graphite coating to reduce friction coefficient and solves wedging problems

KEY FEATURES FOR BALL AND PLUG VALVES

- Size range: Ball 1/2 through 16", plug 1" through 12"
- Pressure rating: asme 150 through asme 2500 / API 2000-3000-5000
- End connections: flanged, hubs, threaded, butt welding
- Materials of construction: carbon steel, stainless steel, duplex, super duplex, inconel, bronze, monel
- Compliance to NACE MR 01-75, standard last edition
- Standard customer requirements

DOUBLE BLOCK AND BLEED PLUG AND BALL VALVES


DBB Plug Valve 6"- 900# A182 F51

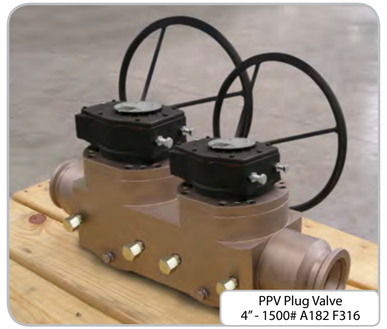

DBB Plug Valve 6"- 900# A182 F51


Ball Valve - Floating
2" - 1500# A182 F51

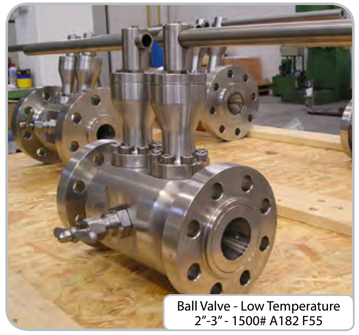

Ball Valve - Low Temperature
2"-3" - 1500# A182 F55


Ball Valve - Floating
2" - 1500# A182 F51


Ball Valve - Floating
A182 F51


PPV Plug Valve
4" - 1500# A182 F316


Ball Valve - Trunnion
2"-3" - 1500# A350 LF2


Ball Valve - Low Temperature
2"-3" - 1500# A182 F55


Ball Valve - Trunnion
3" - 1500# A350 LF2


Ball Valve - Floating
2" - 2500# A182 F316