



DOUBLE BLOCK AND BLEED VALVES

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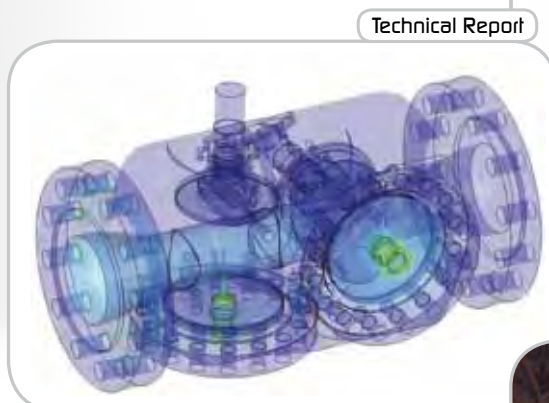
ENGINEERING - QUALITY AND TESTING

Energy Valves is specialized in designing and manufacturing DBB valves (ball - plug - gate). 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)

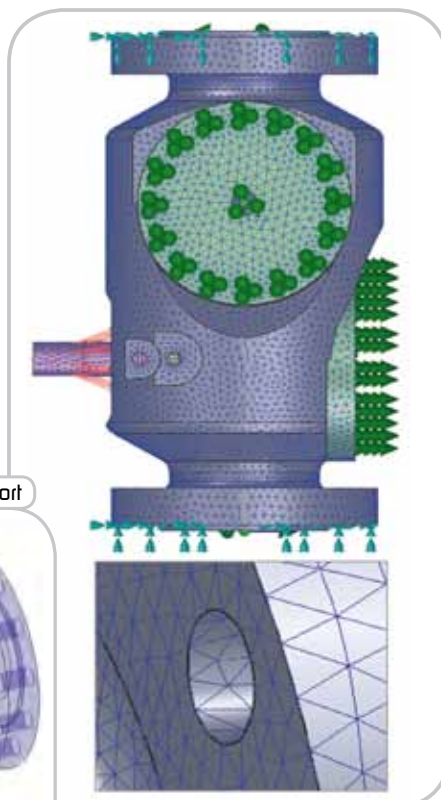
The simulation was carried out in accordance with "Finite Element Methodology", the software used to solve the linear elastic equations is Nei Nastran v 10.0x64".



Machining



Technical Report



Valves manufactured by Energy Valves are designed and produced in Italy, utilizing exclusively european know-how, materials and machining.

Materials are certified in according to EN 10204 3.1 or 3.2



Forging



Low Temperature



Fugitive emission



Liquid Penetrant



Pressure Test

Energy Valves 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.



Pressure Test



Pressure Test



Pressure Test

INTRODUCTION DBB VALVES

Long lasting safety and high performance are the characteristics on which is based the production of valves DBB, born from the need to support the demand for oil and gas industries that use complex system in offshore and onshore.

Valves illustrated here are in fact installed by major oil companies in Asia and Europe.

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 antiblowout stem
- Wrench, bar handle, worm gear or actuator operated
- Hard coated and treated with low friction
plfe/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 300 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





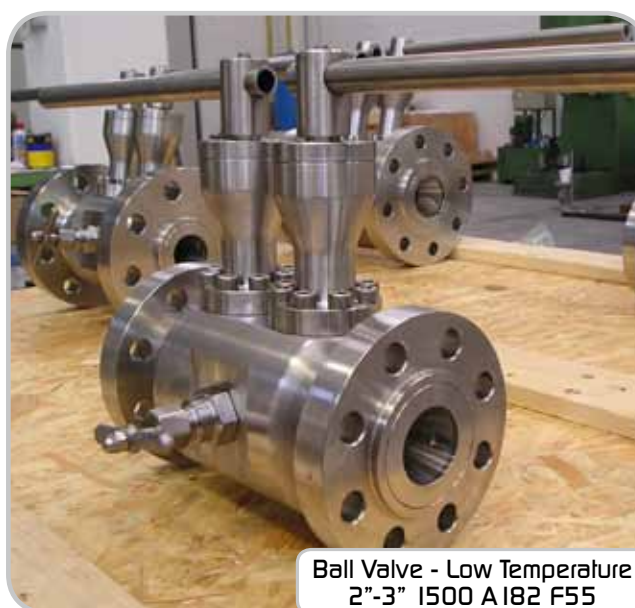
DBB Plug Valve 6"-900 A182 F51



Ball Valve - Floating
2"-1500 A182 F51



Ball Valve - Flange
A182 F51



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



IBLE BLOCK AND BLEED PLUG AND BALL VALVES



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



PPV Plug Valve
4"-1500 A182 F316



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



Ball Valve - Trunnion
3" 1500 A350 LF2



Ball Valve - Floating
2"-2500 A182 F316



CERTIFICATIONS

Energy Valves operates a fully certified quality assurance programme according to EN ISO 9001:2008. All major suppliers are also fully certified to meet the most stringent international standard of quality and performance.

Energy Valves has been audited and approved by TÜV Hessen to the PED (Pressure equipment directive) and ATEX directive 94/9 EC.

Testing executed by our specialized external laboratory

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



OTHER PRODUCT AVAILABLE:

- 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 ITALY**.



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