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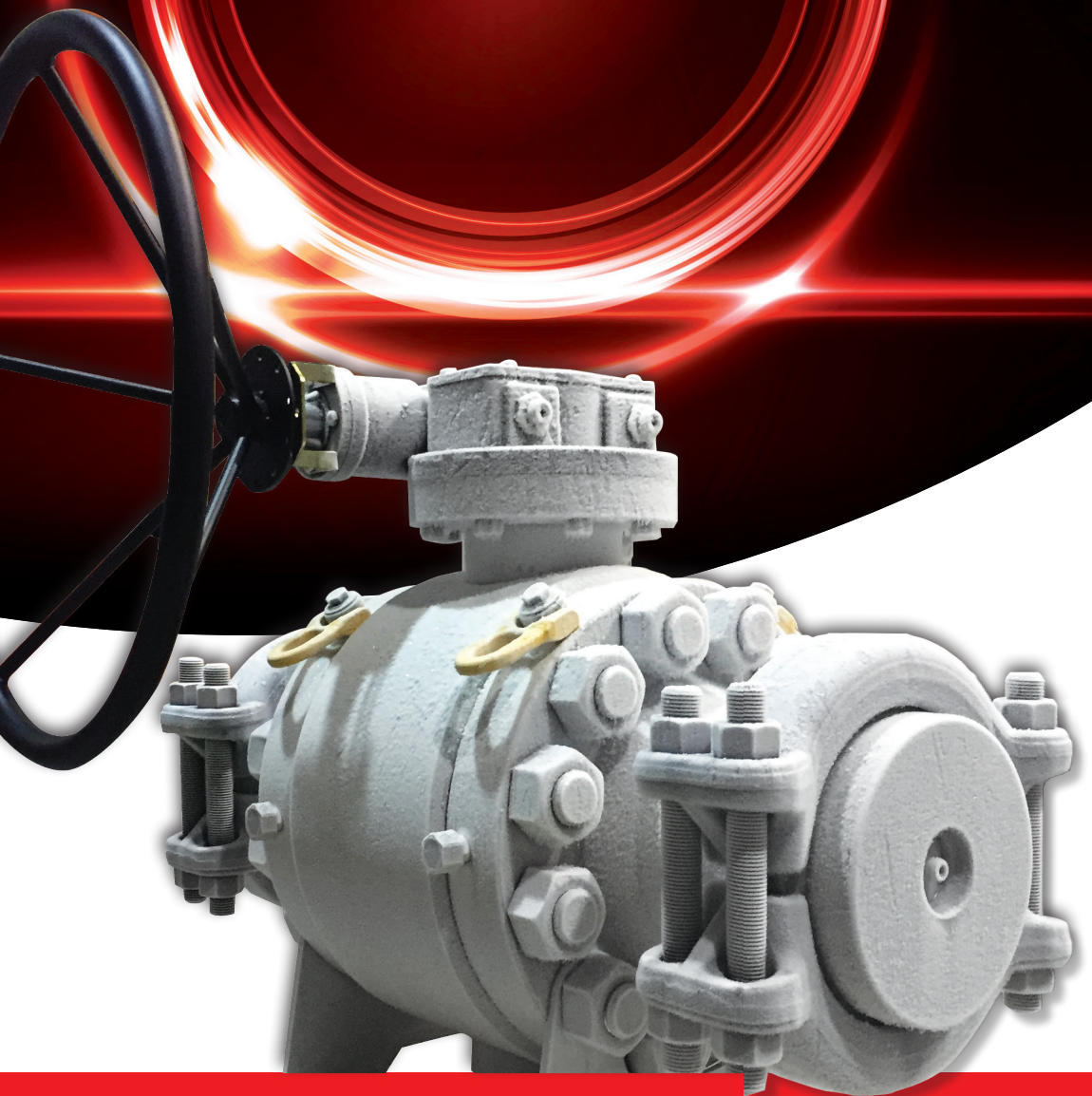
NBdesign.it Jan '16

ENERGY VALVES

OUR SOLUTIONS:

BALL & PLUG VALVES
DOUBLE BLOCK AND BLEED
THREE AND FOUR WAY
CRYOGENIC VALVES
METAL SEATED VALVES
ACTUATED VALVES



COMPANY PROFILE

THE POWER OF INNOVATION

ENERGY VALVES

Energy Valves was founded in 2007 by engineers with over 30 years experience in the design and the construction of innovative valve technology.

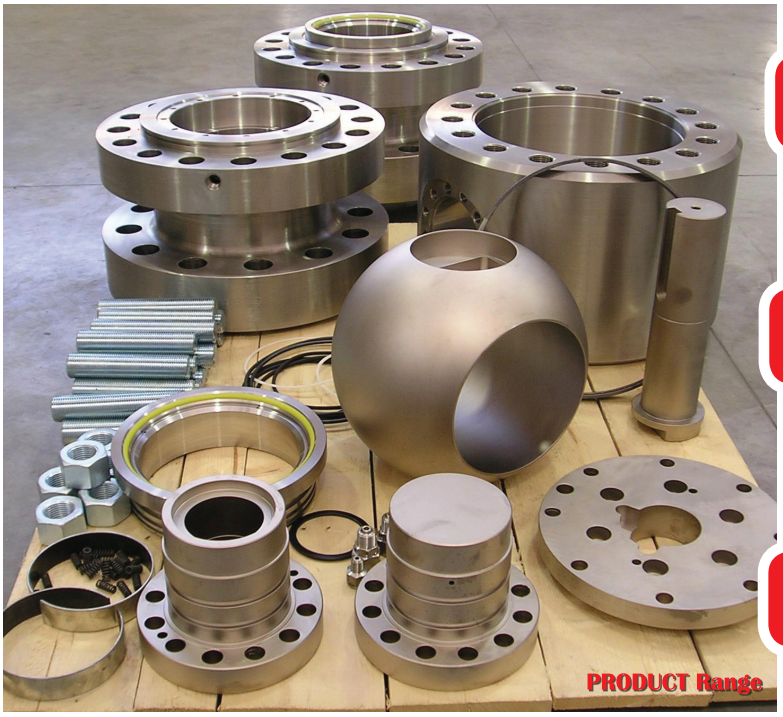
Energy Valves is committed to providing its customers with world class quality products together with unrivalled service.

Our mission is to provide design, manufacture, testing and certification based on our client's needs and in accordance with any technical specification.
Supplying the finished product in accordance to your schedule is our goal.

The Energy Valves design and production facility is located close to Milan and it's fully ISO 9001 certified.

Our local supply chain enables the company to proudly claim that all of its products are made in Italy.

MANUFACTURING Plant



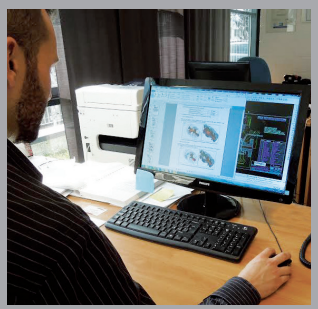
PRODUCT Range

1 In addition to valves designed in accordance with International standards such as API/ASME/ASTM, Energy Valves can design and create products that meet customer's specific requirements and provide solutions for difficult applications.

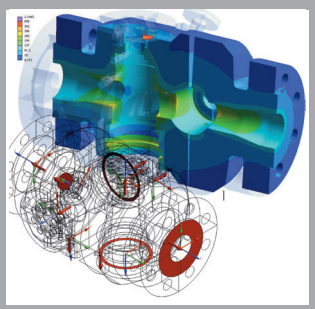
2 The technical department has access to a range of design systems including autocad and solidworks. In the event that designs are required to meet the most extreme conditions we can provide structural verifications by finite elements with the use of the Nastran application.

3 If the valve you require is not available as an existing design ENERGY VALVES can provide a custom-made design and production solution.

DESIGN

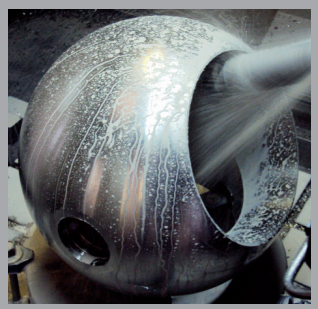


VALIDATION

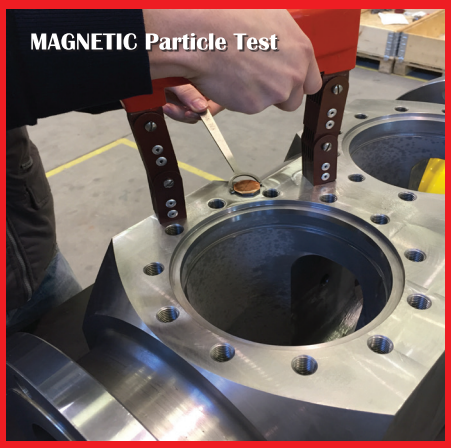


CERTIFICATION

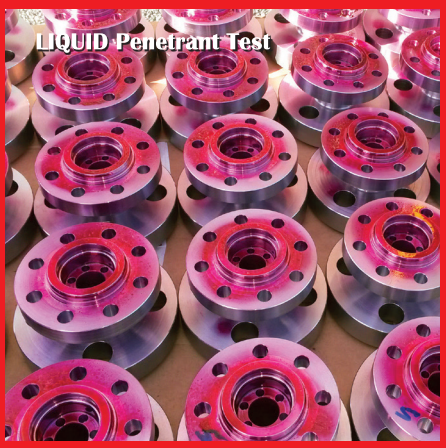
MACHINING

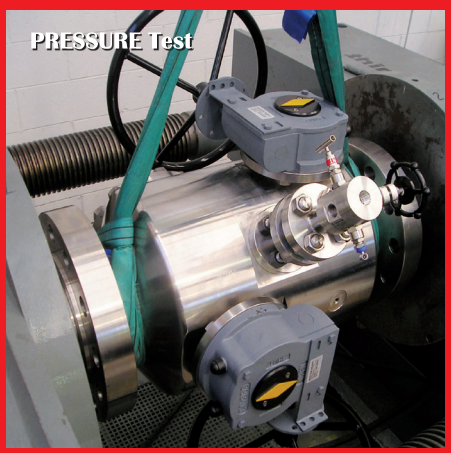


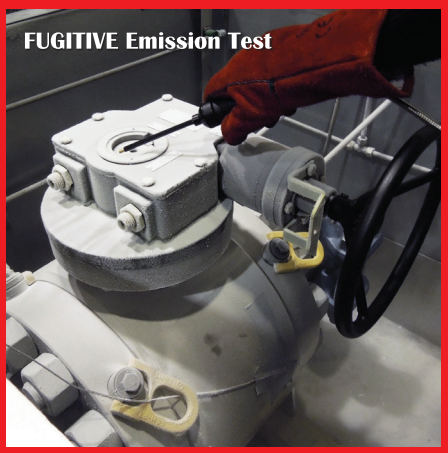
STOCK



TESTING

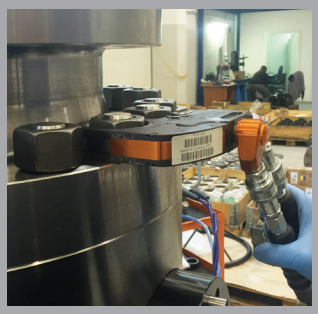




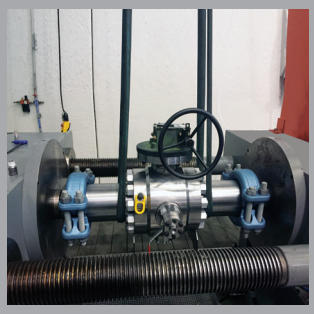


ASSEMBLING

TIGHTENING



TESTING



PAINTING

PACKING

FLOATING

CONSTRUCTION:
- Bolted Body • Screwed Body • Welded Body

SIZES:
- From ½" up to 10"

PRESSURE CLASSES:
- ANSI class from 150 to 2500 Lbs
- DIN class from PN10 to PN420

CONNECTIONS:
- Flanged ends • Screwed ends
- Welded ends • HUB ends

DESIGN:
- B16.34 – API6D – ISO 17292 – ASME VIII div.2

TEST:
- Fire Safe acc.to ISO 10497 Ed. 2010 & API 6FA Ed.1999

TRUNNION

CONSTRUCTION:
- Bolted Body • Top entry
- Screwed Body • Welded Body

SIZES:
- From ½" up to 24"

PRESSURE CLASSES:
- ANSI class from 150 to 4500 Lbs
- DIN class from PN10 to PN420

CONNECTIONS:
- Flanged ends • Screwed ends
- Welded ends • HUB ends

DESIGN:
- B16.34 – API6D – ISO 17292 – ASME VIII div.2

TEST:
- Fire Safe acc.to ISO 10497 Ed. 2010 & API 6FA Ed.1999

PLUG VALVES

CONSTRUCTION:
- Lubricated standard type
- Lubricated inverted type
- Top entry diverted type

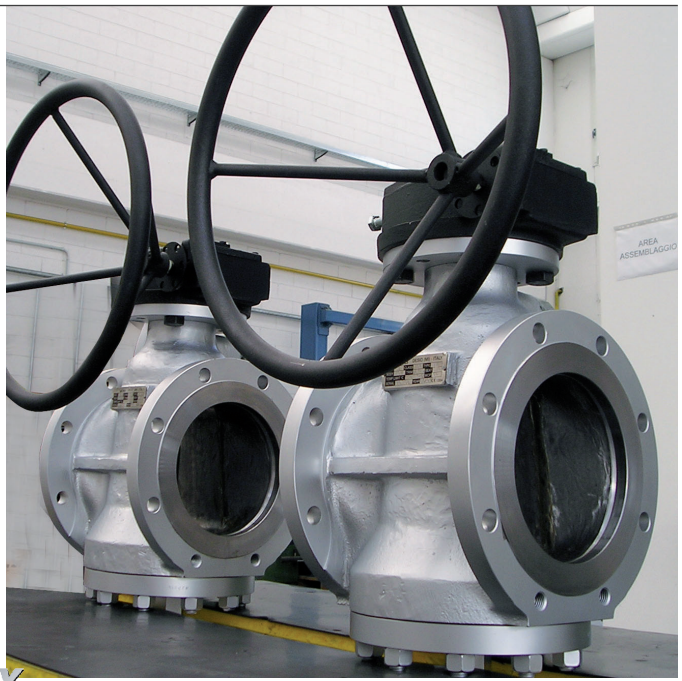
SIZES:
- From ½" up to 24"

PRESSURE CLASSES:
- ANSI class from 150 to 2500 Lbs
- DIN class from PN10 to PN420

CONNECTIONS:
- Flanged ends • Screwed ends
- Welded ends • HUB ends

DESIGN:
- B16.34 – API6D – ISO 17292 – ASME VIII – API599

TEST:
- Fire Safe acc.to ISO 10497 Ed. 2010 & API 6FA Ed.1999



DOUBLE BLOCK AND BLEED

The Energy Ball and Plug valves can be manufactured to the 'Double Block and Bleed' configuration with two balls/plugs either side of the valve body and the needle valve in the centre, both for instrumentation and process. This solution allows us to save weight, space and money, which are now increasingly important parameters within modern industries.

SIZES:
- From ½" up to 24"

PRESSURE CLASSES:
- ANSI class from 150 to 4500 Lbs • DIN class from PN10 to PN420

CONNECTIONS:
- Flanged ends • Screwed ends • Welded ends • HUB ends

DESIGN:
- B16.34 – API6D – ISO 17292 – ASME VIII – API599 – EEMUA 182

TEST:
- Fire Safe acc. to ISO 10497 Ed. 2010 & API 6FA Ed.1999

THREE AND FOUR WAY

CONSTRUCTION:
- BALL & PLUG
- Floating & Trunnion
- "L" or "T" or "X" bore
- Horizontal & vertical position

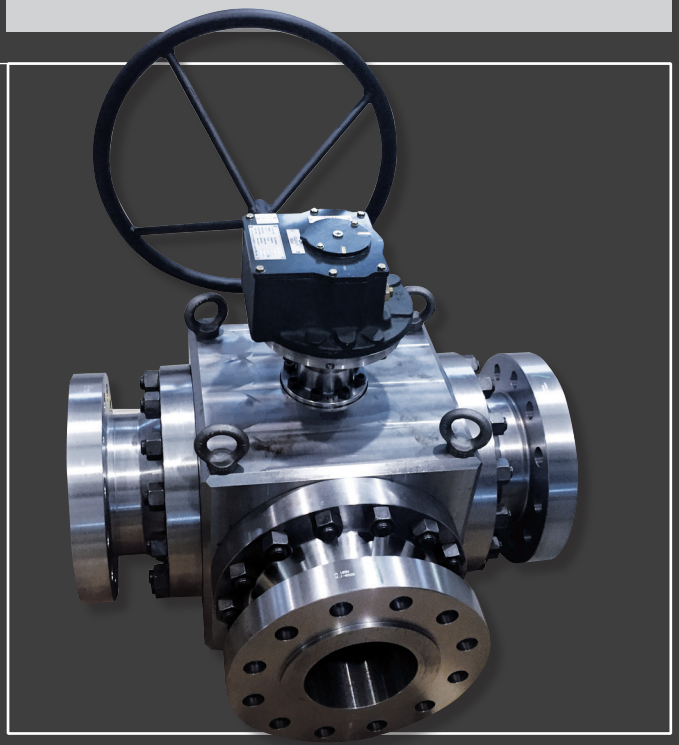
SIZES:
- From ½" up to 12"

PRESSURE CLASSES:
- ANSI class from 150 to 1500 Lbs
- DIN class from PN10 to PN250

CONNECTIONS:
- Flanged ends • Screwed ends • Welded ends • HUB ends

DESIGN:
- B16.34 – API6D – ISO 17292 – ASME VIII – API599

TEST:
- Fire Safe acc. to ISO 10497 Ed. 2010 & API 6FA Ed.1999



CRYOGENIC VALVES

The ENERGY ball valves can be designed and manufactured for use in Cryogenic application with working temperatures down to -196°C. The extended bonnets prevents the stem seals from freezing ensuring the valve maintains to be low torque. To ensure 0 leakage.

SIZES:
- From ½" up to 24"

PRESSURE CLASSES:
- ANSI class from 150 to 2500 Lbs
- DIN class from PN10 to PN420

CONNECTIONS:
- Flanged ends • Screwed ends • Welded ends • HUB ends

DESIGN:
- B16.34 – API6D – ISO 17292 – ASME VIII

TEST:
- Fire Safe acc. to ISO 10497 Ed. 2010 & API 6FA Ed.1999

METAL SEATED VALVES

METAL SEATED abrasive applications: In the case of applications were erosion is an issue, the valve seal can be made with metal to metal contact between the ball and seats. This can be hardened with carbides of chromium, tungsten or with carry-stellite material to make it more resilient.

METAL SEATED high temperature applications: In the case of applications were the valve is exposed to high temperature, the valve seal can be made with metal to metal contact between the ball and seats. This can be hardened with carbides of chromium, tungsten or with a carry-stellite material to make it more resilient; all seals will also be replaced with graphite rings.

SIZES:

- From ½" up to 24"

PRESSURE CLASSES:

- ANSI class from 150 to 4500 Lbs • DIN class from PN10 to PN420

CONNECTIONS:

- Flanged ends • Screwed ends • Welded ends • HUB ends

DESIGN:

- B16.34 – API6D – ISO 17292 – ASME VIII div.2

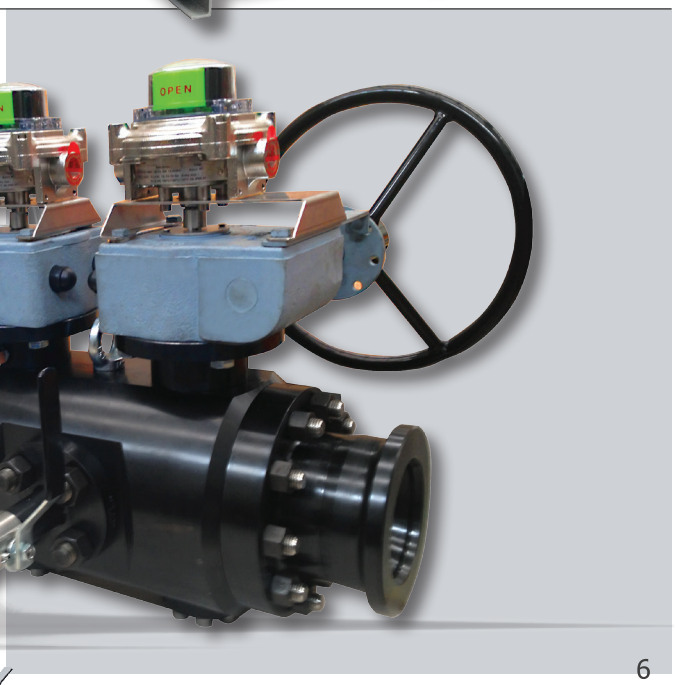
TEST:

- Fire Safe acc.to ISO 10497 Ed. 2010 & API 6FA Ed.1999
- ISO 5208 Rate A

ACTUATED VALVES

The ENERGY ball and plug valves can be supplied with any type of pneumatic, hydraulic, or electric actuator including control panels and accessories such as position indicators, solenoid valves or tanks.

CUSTOMIZED VALVES



If the Valve you require is not available as an existing design ENERGY VALVES can provide a bespoke solution of design and production.

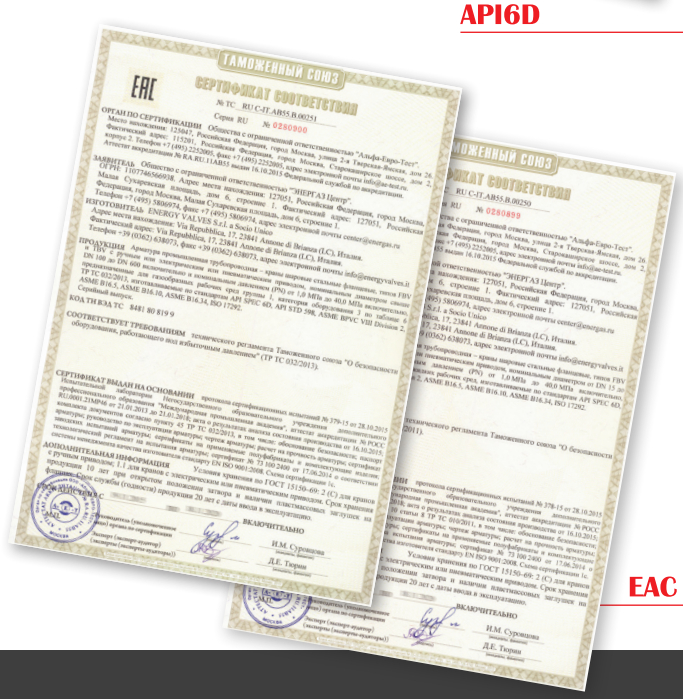
ENI ISO 9001: 2008

PED directive 97/23/EC module H

ATEX directive 94/9/EC

API6D

SIL



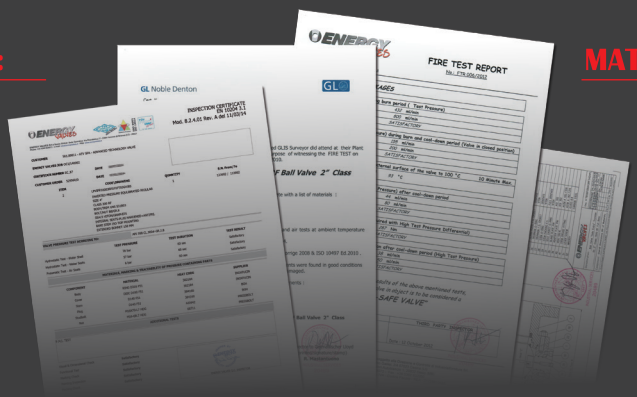
EAC

CUSTOMER REFERENCES:

AGIP
BRITISH PETROLEUM
ECONOSTO
ENI
ENICHEM
FMC TECHNOLOGIES
KAHANROBA
BP
MAERSK
MALAYSIA MARINE
NAM
NUOVO PIGNONE
PAUL WURTH
PERTAMINA
PETROBRASS NETHERLANDS B.V.
PETRONAS
POLIMERI EUROPA
PT PUEUSAHAAN GAS NEGARA
SARAS
SBM
SOLVAY CHIMICA
TALISMAN
WINTERSHALL

PRODUCT CERTIFICATION:

- ISO EN 10204 3.2
- Fire safe API 6FA & ISO 10497
- Fugitive Emission Test
  acc. to TA-LUFT
  EN ISO 15848-1-2



MATERIALS OF CONSTRUICTION:

- Carbon steel
- Stainless steel
- SMO, Duplex & Superduplex
- Exotic Alloy
- Titanium
- Bronze


Italcontrol
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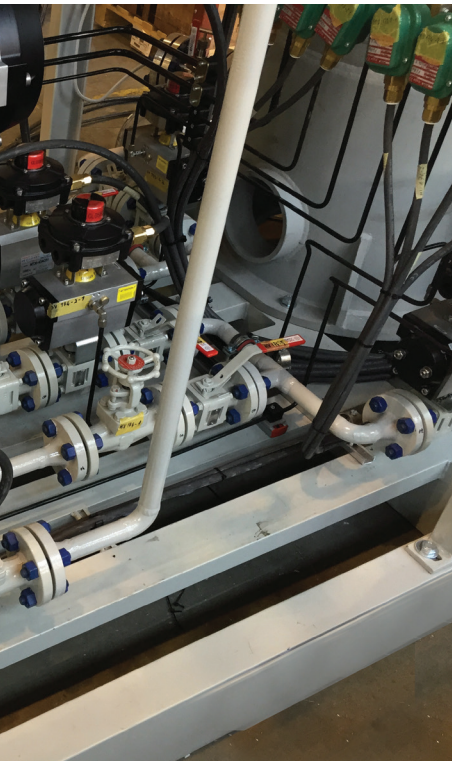
3


Italcontrol
Italcontrol
1


2



TESTING DEPARTMENT

1. **Three heads Vertical Test bench**
   60 ton. 700 bar.
2. **Vertical Test Bench**
   50 ton. 700 bar.
3. **Horizontal Test Bench**
   400 ton. and 1050 bar.
4. **Cryogenic Testing Unit**
   up to - 196°C.
5. **High pressure gas station with booster**
   Separate high pressure gas station with booster up to 700 bar suitable for all test units.