



Established in 1958 in Northern Italy, the company was originally born as a gasket and insulating products manufacturer.

Across the years **Euroguarco** has expanded the production range to valves and special piping



items, with ties and interests with best-of-class partners and customers worldwide.

La Spezia, Plant 2

In the last years, the Valve Division has achieved the expertise in the a quasi-complete range of manual and actuated valves, in accordance with main international standards for design, production and testing.













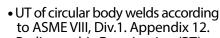
Euroguarco can satisfy all testing requirements, whether by in-house facilities or from external qualified laboratories next to the factory:

- Chemical analysis and mechanical tensile test of the materials:
 - Hardness survey.
 - Impact test.

Special Tests

- HIC & SSCC for Sour Service.
- Low Temperature Test for Cryogenic Service.
- Gas Test.
- Fire Safe Test per API 6FA.
- Fugitive Emission Test.





- Radiographic Examination (RT).
 - Liquid Penetration (LP) on machine-finished welding ends per ANSI B16.34, Annex D.
- Inspection of coated and painted surfaces.
- Magnetic Particle (MP).
- Any other NDE on request.







Manufacturing Range

- Sizes from 1/2" to 36"
- Class Rating PN 20 to PN250
- ASME Class 150# up to 2500#
- Temperature from -196°C to 400°C

ASTM/ANSI, ASME, EN, DIN, GOST,

• Materials:

BS, JIS.

- Cast and Forged Carbon Steel: WCB, WCC, LCB, LCC, A105, LF2, LF3.
- Forged Stainless & Duplex Steel: F304, F316(L), F6, 17-4PH, AISI 4140, F321, F347, F44, F51, F53, F55.
- Special Alloys: Inconel 625, Hastelloy, Monel 6Mo, Incolloy 825, Alloy 20, Sanycro 28, Titanium.

Seat insert and special coatings (for high temperature or aggressive media).

- Standard materials: PTFE, Nylon, HNBR, VITON, Fluoroloy, PEEK, Vespel, KEL-F, Buna N.
- Coating and cladding: electro-less nickel plating (ENP), overlays of seat pockets or the whole surface in contact with fluid by Stellite 6, while TCC (Tungsten Carbide Coating) for metal-to-metal seated valves. Inconel 625 weld overlay on wetted parts and dynamic seals area is available (overlay

thickness upon request), as well as CCC (Chromium Carbide Coating), C.R.A. overlays & cladding.

- Seals & Gaskets (made also in-house by Euroguarco Gasket Division): Viton, HNBR, Graphite, SW316+Graphite, Kel-F, Buna, Lip Seals. Other materials are available on Customer's request.
- Bore: full or reduced
- Ends: socket, NPT, butt weld or flanged.

Seat Design: Soft or Metal-To-Metal Type

Soft Seat

Soft seat is a standard technical design of ball valves suitable for max operating temperature up to 250°C with non-abrasive fluids (e.g. gas and clean liquid service), to avoid seat damage.

Soft seated ball valves are provided with reinforced PTFE, Nylon, Devlon and Peek insert, depending

on the service and pressure class. Soft seated construction is normally provided with a secondary sealing system, obtained by injecting a highly dense fluid (grease) into the seating area to prevent the leakage in case of soft insert damage.

Metal-to- Metal

Metal to metal seat design is used for more severe applications,

in case of abrasive fluids or services at high temperature and/or high pressure.

For this specific design the ball and seat can be hard-faced by Tungsten Carbide (TC), Chromium Carbide (CC), Stellite 6 or Inconel 625 (for corrosive service), in order to enhance the seat performance.



Trunnion Mounted Ball Valves: Side Entry, Top Entry

Trunnion mounted ball valves are designed for withstanding higher pressure matched to high or low temperature, widely used for a variety of applications for crude oil, natural gas pipelines and others.

They can be of different designs: split body/side entry, top entry, three-way, fully welded and double block & bleed construction.

Side Entry/Split Body

The body construction comes in 2 or 3-piece (up to 6") and 3-piece (above 6").

The combination of trunnion mounted balls and unique spring-loaded upstream sealing, provides bubble-tight shut-off and low operating torques, even at extremely high shut-off pressure.

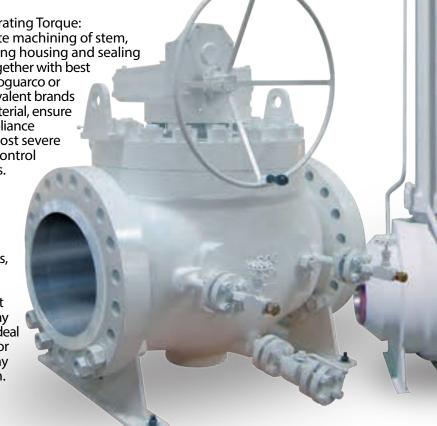
Top Entry

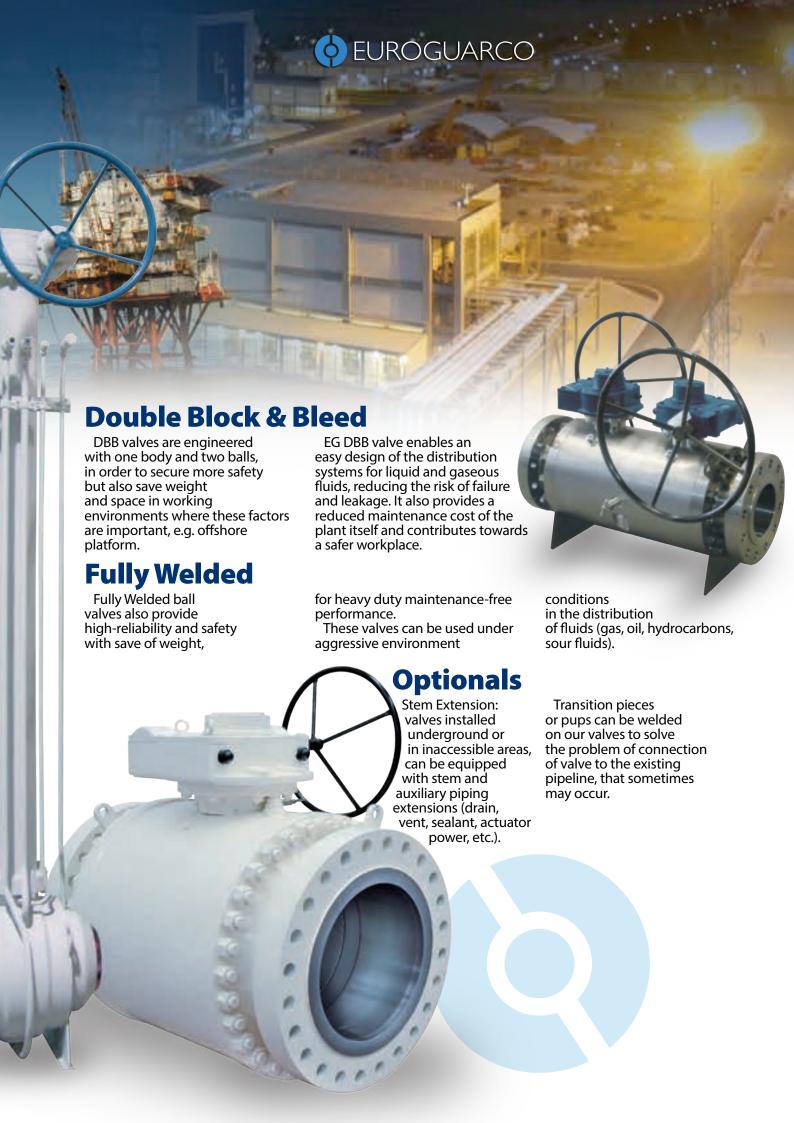
The top entry design enables maintenance keeping the valve in service: the valve's internal parts can be inspected and repaired without removing the valve off the pipeline.

Widely used in pipelines for its safe and reliable operation, our top entry ball valves follow API 6D standard design mainly.

Low Operating Torque: the accurate machining of stem, stem packing housing and sealing surface, together with best quality Euroquarco or other equivalent brands sealing material, ensure strict compliance with the most severe pollution control regulations.

The vast choice of materials, sizes and pressure classes that we offer may permit an ideal selection for virtually any application.







Gate, Globe, Check, Plug, Butterfly & Choke Valves

With the support of our partners, we can manufacture most of the other type of valves further to ball: gate, slab gate (API 6A), globe, check, choke

(API 6A), butterfly and plug valves.

Construction Standards conforming to API 599, API 600, API 602, API 603, API 6D, API 6A, ASME B16.34, BS and ISO. Sizes from 1/4" to 42". Pressure rating from ANSI 150# to 2500# and API 1500 to API 20.000.



Gate



Globe



Check



Plug





Choke



Selected References

- ABB (Italy)
- ADOC Japan (EAU)
- Agip (Italy)
- Agip KCO (Kazakhstan)
- AGOCO (Libya)
- Alenia Aeronavale (Italy)
- Ameira Petroleum (Egypt)
- Ansaldo Energia (Italy)
- ASRY Shipyards (Bahrain)
- Attok Refinery (Pakistan)
- Bangladesh Gas Field Co. (Bangladesh)
- Banias Power Co. (Syria)
- Banias Refinery (Syria)
- Bateman-Litwin (France)
- Belleli (Italy)
- BP (Iraq)
- Brega (Libya)
- Brembana (Italy)
- Cairo Refining (Egypt)CERN (Switzerland)
- Daura Refinery (Iraq)
- Dongang Boiler Group (China)
- Eastern Refinery (Bangladesh)
- Eco Petrol (Colómbia)
- Edipower (Italy)
- ENEL (Italy)
- ENI (Italy)
- Enppi (Egypt)
- Fincantieri (Italy)
- Finmeccanica (Ítaly)

- Fondital (Italy)
- Foster Wheeler (Italy)
- Gas Transmission Co. Ltd (Bangladesh)
- GAZPROM (Russia)
- GE Nuovo Pignone (USA, Italy)
- Homs Refinery (Syria)
- Jordan Petroleum Refinery (Jordan)
- LukOil (Russia)
- MAERSKOIL (Kazakhstan)
- Magotteaux (Belgium)
- Mangiarotti (Italy)
- Mari Gas Co. (Pakistan)
- McDermott (USA)
- Mellitah (Libya)
- Midland Refinery (Iraq)
- Ministry of Defense (Italy)
- National Refinery (Pakistan)
- NIGC (Iran)
- North Oil Company (Irag)
- NPCC (EAU)
- Nuovo Pignone GE (Italy)
 Officine Resta (Italy)
 Olmi Alfa Laval (Italy)
 OPET Petro (Turkey)

- ORYXGAS (Switzerland)
- Oto Melara (Italy)
- PDI-Pemex (Mexico)

- Petrojet (Egypt)
- Qatar Gas (Qatar)
- Ras Gas (Qatar)
- Saipem (Italy)
- Saras (Italy)SCOP (Iraq)
- Sirte Oil Co. (Libya)
- Snam (Italy)
- Solvay (Italy)
- South Oil Company (Iraq)
- SGSM Oil & Gas (Czech Republic)
- SSGC (Pakistan)Kala Naft (Iran)
- Kordestan Petrolchemical (Iran)
- MAPNA (Iran)
- Metec (Ethiopia)
- Nargan (Iran)NIOC (Iran)
- PDO (Oman)
- Pentair (USA)
- POGC (Iran)
- Yara (Italy)
- Sung Kyong (South Korea)
- Tecnimont (Italy)
- Tehran Refinery (Iran)
- Termomeccanica Italiana
- Trenitalia (Italy)
- Waha Oil Company (Libya)
- Warri Refinery (Nigeria)



Euroguarco SpA

info@euroguarco.com

Headauartes

Via Terralba - Loc. Pietralba 19021 Arcola (La Spezia) Italy Tel. +39 0187 562611 Fax +39 0187 562955

Industrial Unit

Loc. Vignola, 10 26010 Moscazzano (Cremona) Italy Tel. +39 0187 562611 Fax +39 0187 562955



BR8-VLVMNF-ENG rev.2 04-23