High performance valves for high level expectations
ERREESSE, established in 2004, is a manufacturing company based in the Northern Italy, Grignasco, a nice town in the green Valsesia (Sesia Valley), along the enchanting Sesia River, 45 minutes far from Milano Malpensa.

Passion, knowledge, smart attitude and hard work allow us to propose and supply our Customers with the best solution for their needs. The development of new technologies, the know-how and the expertise of our team resulted in an ongoing success which makes us a reliable supplier. Our target is to supply a high performance Italian product and a customized service, to make the difference:

proudly made in Italy, proudly made in Erreesse!
ERREESSE is a valuable manufacturer of metal and soft seated On/off, Control & Mixing ball valves supplied to the Oil & Gas, Petrochemical, Chemical, Marine, LNG & Power Generation, Onshore & Offshore Industries, on topside and subsea installations all over the world.

Our interest to our Customer’s needs, our efforts to convert them in the best product, supported by the compliance to API, ISO & PED regulations/accreditations, ensure the supply of a customized high quality service, performed by experienced personnel.
The ever changing needs of our Customers make the ERREESSE Engineering & Production Team work to offer a continuous innovation and an improved valve range year after year. Each step of valve engineering and manufacturing can be validated using advanced software (AutoCAD, Solid Works 3D) through **Finite Element Analysis** of loads, tensions and deformations and final **Stress** tests, according to the applicable International Standards.

**Top entry** and **side entry** ball valves with **bolted** or **fully welded body, multiple way transfer valves** and **modular** or **mono-flange double block & bleed valves** from low to high pressures, engineered and manufactured to withstand and exceed the high risk industry applications in **cryogenic** and **high temperature** processes; specific high-performance models are available to suit **corrosive** and **severe abrasive** services in sandy, slurry, fouling, scaling and solidifying conditions.
ERREESSE production program: On/off, Control & Mixing ball valves

**Trunnion metal seated or soft seated**
- Side entry or Top Entry
- Bolted Body, Fully Welded Body
- Double Block & Bleed Modular dual ball
- Multiple way transfer valves
- 1/2” – 36” ANSI 150 – 2500
- 1/2” - 48” ANSI 150 – 1500
- 1/2” – 56” ANSI 150 – 900

**Floating metal seated or soft seated**
- Side entry or Top Entry
- Threaded Body, Bolted Body, Fully Welded Body
- Double Block & Bleed Modular Body dual ball

- 1/2” – 1.1/2” ANSI 150 - 2500
- 1/2” - 2” ANSI 150 - 1500
- 1/2” – 4” ANSI 150 – 600
- 1/2” – 6” ANSI 150 – 300
Valves can be designed, manufactured and tested according to the following **International Standards** based on Customers needs:

> **American Petroleum Institute (API):** API 6A, API 6D, 6DSS, 607, 608, 598


> **Manufacturers Standardization Society of the Valve and Fittings Industry, Inc. (MSS):** MSS SP25, MSS SP44, MSS SP45, MSS SP53, MSS SP54, MSS SP55, MSS SP6, MSS SP61, MSS SP72, MSS SP82, MSS SP9

> **British Standards Institute (BS):** BS 1503, BS 1504, BS 1560, BS 2080, BS 4504, BS 5146, BS 5351, BS 6364, BS 6755, EN 558, EN1503, EN1626, EN1983, EN5211, EN12266, EN12516, EN12567, EN12570, EN12627, EN12982


> **National Association of Corrosion Engineers-Corrosion Resistant (NACE):** NACE MR0175, NACE MR0103, NACE TM0187, NACE TM0284
Valves can be manufactured in the following materials:

<table>
<thead>
<tr>
<th>Material Type</th>
<th>ASTM Standards</th>
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<tbody>
<tr>
<td>Carbon steel</td>
<td>ASTM A105, A105N</td>
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<td>ASTM A216 WCB, WCC</td>
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<td></td>
<td>ASTM A217 WC6, WC9, CW6, C12</td>
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<td></td>
<td>ASTM A350 LF2, LF3, LF6</td>
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<tr>
<td></td>
<td>ASTM A352 LCB, LCC, LC3</td>
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<td>ASTM A694 F52, F60, F65</td>
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<tr>
<td>Stainless steel &amp;</td>
<td>ASTM A182 F11, F20, F22, F304/F304L, F316/F316L,</td>
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<td>Duplex</td>
<td>F316H, F316Ti, F321, F347, F347H, F44</td>
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<td>ASTM A182 F5, F51, F52, F53, F55</td>
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<td>ASTM A182 F60, F65, F6A, F6B, F6NM F9, F91, FXM19</td>
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<td>ASTM A267/A479 304/304L, 316/316L, 316H, 316Ti, 321,</td>
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<td>347, 347H, 904L</td>
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<td>ASTM A351 CK3MCuN, CA15, CF8, CF3, CF8M, CF3M, CF8M,</td>
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<td>CG8M, CF8C</td>
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<td>ASTM A479 S31254, S31803, S20910, S32750, S32760,</td>
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<td>S41000, S41400, S41300, S17400</td>
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<tr>
<td></td>
<td>ASTM A479 S31803, S32750, S32760, S20910, S41000,</td>
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<td>S41400, S41300, S17400</td>
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<td>ASTM A739 B11, B22</td>
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<tr>
<td>Nickel Alloys</td>
<td>ASTM N08825, N06625, N04400, N08020, N07750, N07718,</td>
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<td>N08926, N07725, N05500</td>
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<tr>
<td>Titanium</td>
<td>ASTM B348 (Gr. 2 &amp; 5), ASTM B381 F2</td>
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<tr>
<td>Bronze</td>
<td>ASTM B148 UNS C95500, C95800, C63200, ASTM B62</td>
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</table>

Not listed materials are available upon request.
The application and the process fluid characteristics given by the Customer are the main factors in selecting a valve type and construction materials: clean fluids generally allow a wide range of valves and materials, while for dirty fluids and high risk applications the choice is limited to few valve types and selected materials.

- **Hydrocarbons** (Oil, Gas, derivatives)
- **Utility** (Water, Air, Nitrogen, Hydraulic Oils)
- **Corrosive & Dirty** (severe abrasive services in Sour, Sandy, Slurry, Fouling, Solidifying conditions)
- **High Temperature** (≤ 1000°C)
- **Low Temperature** (-45°C < t > 0°C)
- **Cryogenic** (≥ -196°C)
- **High Pressure** (≤ 1500 bar)
ERREESSE ball valves engineering, manufacturing and testing processes are covered by a Quality Assurance program certified and continuously audited by accredited inspection authorities in accordance with:

- ISO 9001:2008 for design, production and after sales of ball valves
- API Specification Q1 and Specification 6D
- Atex 94/9/EC Directive for equipment and protective systems intended for use in potentially Explosive atmospheres
- PED 97/23/EC module H Pressure equipment directive

Each valve is identified by a Serial Number with relevant **EN 10204 3.1** material certificate for pressure containing and retaining parts and pressure test report. A Third Part inspector can witness every production activity, starting from raw material production to final test and issue a certificate in accordance with **EN 10201 3.2**.

ERREESSE ball valves are designed to meet the **Fire Safe** requirements according to **BS6755 P.2**, **API 607**, **API6FA** and **ISO 10497** and **Fugitive Emission** according to **ISO 15848/1**. Qualification tests covering the whole production range have been witnessed by independent inspectors.
ERREESSE has its own in-house testing department, the following **Valve Leak Testing** can be internally performed by qualified and experienced personnel:

- **Hydrostatic** shell & seat test;
- **Low Pressure** gas test (with air or Nitrogen) according to Annex B of API 6D, API 598, EN 12266-1 or to customer specific requirements;
- **High Pressure** gas test (with Nitrogen) according to Annex B of API 6D, API 598, EN 12266-1, BS 6364 or to customer specific requirements, from ambient to cryogenic temperature down to -196°C
- **Fugitive emission** gas test (with Helium) according test to ISO 15848 /2
- **Cavity relief** test

Specific Customer’s requirements in terms of special testing, pressures, durations, acceptance criteria can be evaluated and incorporated into our products.
The following **Non Destructive Examinations** are performed by qualified personnel, certified in accordance with EN 473-ISO 9712 or SNT-TC-1A LEVEL 2:

- **MT** (Magnetic particle examination)
- **UT** (Ultrasonic examination)
- **PT** (Dye penetrant examination)
- **RT** (Radiographic test)
- **PMI** (Positive material identification)
- **Hardness test**
- **Ferrite test** (by FISHER Feritscope FMP30)
Thanks to a cooperation with Research Centres and Laboratories the following **Destructive Examinations** can be also performed according to customer’s and project requirements:

- **Mechanical and Impact test** down to –196°C
- **Chemical analysis** check
- **Corrosion tests**
- **Micro examinations** by electronic microscope up to 500x magnifications
- **Ferrite** check to E562
- **Hydrogen-Induced Cracking** test (HIC) & **Sulphide Stress Corrosion Cracking** (SSCC)
It is our responsibility to ensure the **health** and **safety** of our employees and to safeguard the communities and **environments** in which we operate and live.

We desire to preserve the integrity and reputation of our company and to help our Employees, Workers and Directors to avoid misconduct; we have to ensure compliance with legal and regulatory requirements as well as with our internal policies and directives.

We aim to act in an ethical and socially responsible manner within the laws, customs and traditions of the countries in which we operate. Our ambition is to avoid negative environmental impacts, enhance positive effects and contribute to sustainable development. This applies to all our activities.

**We desire to create a safe and healthy working environment and continuously work to achieve this.**
ERREESSE has a valuable reputation on fast & on time deliveries: **it is extremely important to reach the contractual delivery date to satisfy our Customers’ and their Commitments expectations.**

Thanks to a wide range of raw materials stock, sourced by only selected and approved **UE suppliers**, and to a large number of local machining and paint shops, we are in a position to provide a high quality **Made in Italy** product and a customized service in line to project requirements and specifications, at a reasonable **short time**.

**Our aim is to support our Customers and their Commitments with the best solution in the shortest possible time.**
Erreesse s.r.l.
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We look forward to your enquiries!

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