valveIT®
Scope of Works

Delivering Proven Results

As a manufacturer of innovative, high-quality manual and actuated valves, valveIT caters to a worldwide customer base. We take great pride in supplying highly engineered solutions that allow our customers to compete within the complex Water Treatment & Desalination, HVAC, Building and Infrastructure fields.

valveIT strives to ensure that all of our projects are aligned with our customers’ goals to increase safety, improve plant productivity and availability as well as to extend plant equipment life.

Each project requires unique solutions and thus our approach is a multi-disciplinary team with custom engineering capabilities and industry leading quality control.
Why valveIT?

Through our extensive experience in the valve industry, we've focused our skills to provide a variety of valve products & services that are not easily matched by our competitors.

Our customers in the competitive power generation industry, water treatment & desalination plants, building and infrastructure constructions depend on installed valves to be reliable and safe.

The valveIT team is focused on providing a full suite of products & services to fit your needs and improve plant and building performance.
Integrated Approach

valveIT’s Valve Solution

At valveIT, our qualified team offers a choice of comprehensive, dynamic and flexible solutions aligned to customer needs for all aspects of valve manufacturing - meeting and exceeding safety and quality requirements for water and industrial applications.

valveIT is committed to customer choice and input in customizing solutions best suited to their individual valve needs.

**Comprehensive** - A fully integrated approach, from scope definition through field execution and project closeout.

**Dynamic** - The ability to quickly respond to changing customer requirements and priorities.

**Flexible** - Committed to customer choice by tailoring solutions to meet specific needs, through selection of our last valve range.
ValveIT has a strong domain expertise in valve design, so it is very easy and fast to mould your new generation ideas into reality. We have full-fledged equipments/machineries and experienced man power to cater into your quick needs. We have integrated customer requirements into tangible product design solutions, by our keen understanding of design concepts and standards. We apply proven processes and methods and incorporate aesthetics, ergonomics and visual appeal to the product design and development process. A creative mind and out-of-the-box engineering applications are the key inputs that go into our product engineering processes. This enables us to offer customers who outsource product design services to us complete CAD concepts and solutions, ready for production.

**Key Result** - With our clients we prepare a definitive statement of the project and offer a variety of options as part of our total support package.
Valve Engineering
& Services

Our team has the knowledge and expertise to develop optimal solutions required for the implementation of any kind of valve (Butterfly, Gate, Check, Globe, Ball, Control) affecting the plant system performance. Our commitment to long-term success is achieved through high quality service and product excellence, delivered to our customers in a timely manner.

Valve Engineering Capabilities:

- Valve research and development
- Valve failure analysis
- New valve designs for demanding applications
- Valve and actuator mechanical testing
- Flow loop testing
- Qualification of valve designs to meet structural and performance specifications
- Analytical models to predict valve performance under conditions difficult/expensive to test
- CFD analysis to quantify forces and moments on valve internals
- Valve/actuator design modifications
- Valve analysis per ASME and API code requirements
valveIT is an high quality valves developer and manufacturer with more than 10 years of experience within several valve applications: from Water treatment and Wastewater treatment to Desalination & HVAC. We are committed to offer the client a more cost-effective and quality way to plan and complete valve project requirements on time and on budget. Accurate resource leveled schedules are a cornerstone of any successful project. A well-developed product baseline, combined with timely and accurate manufacturing, allows for effective project management from inception through completion:

Valve Range
From DN15 to up to DN2000

According to its comprehensive and flexible character, valveIT has successfully implemented a valve range for different kind of applications, from Water Treatment to Desalination, from Building & Infrastructure to HVAC systems, which currently includes:

- Butterfly valves
- Gate valves
- Ball valves
- Check valves
- Globe valves
- Control valves
- Dismantling Joints

Material Range
From Tradition to Innovation

As a project-oriented company focused on providing approved package solutions concerning valves and actuators, our product perfectly adapt to a wide range of installations with different valve material requirements. For this reason, valveIT valve materials consist of:

- Ductile Iron
- Cast Iron
- Stainless Steel
- Duplex
- Super Duplex
- Bronze
- Brass
- PVC
Valve Cleaning & Coating

valveIT comprehensive valve Cleaning & Coating procedures allows full valve installations in several environments. Our painting standards, combined with our experienced staff and “best in class” materials, offer:

- **Blast Cleaning**: All cast components are blast cleaned according to ISO 12944-4, SA 2½. The components are cleaned in a shot-blasting plant.

- **Epoxy Coating**: According to DIN 30677-2, after the valve components have been blast cleaned, the clean and preheated components are submerged in epoxy powder. The powder melts when in contact with the preheated components.

- **Internal Enamel**: this is an alternative to internal epoxy, when extra protection against aggressive fluids is needed. Enamel is a ceramic coating with a completely smooth surface, and a durability and resistance like glass against aggressive fluids making it resistant to abrasive, corrosive and chemical media.
Valve Testing & Inspection

Leveraging our extensive manufacturing experience along with our mature quality program, valveIT can provide any existing valve/actuator functional and non-destructive test, meeting all the quality requirements while rapidly responding to customer needs.

Using the latest technologies and the most qualified partners in terms of laboratory tests and third-party inspection, valveIT provides test procedures accurate enough to meet the exacting criteria demanded for the specific project. This accuracy combined with the precision of our manufacturing process, results in high standard quality Italian valves.

In details, our valve test range includes:

**Functional Test (UN EN10204 - 3.1):**

- Mechanical Properties, Pressure & Hydrotest
- Chemical Composition
- Dimensional Check

**NDT Test:**

- PMI (Positive Material Identification)
- Coating Thickness Analysis
- LPI (Liquid Penetrant Inspection)
- RX (Radiographic Test)
Valve Packaging & Delivery

According to our quality standards & performances, packaging & delivery is a fundamental part of our job.

Our main warehouse located in Casalecchio di Reno (Bologna) is a strategic position for international fast delivery purposes. Bologna airport & Ravenna Port are two main transport assets which connect a huge amount of different locations all around the world (from Europe to Middle East & Beyond) in a real efficient and valuable way.

On the valve packaging side, we provide solutions which reflect our brand tradition of high quality Italian company thanks to our warehouse staff professional skills & the latest warehousing technologies. Specific Solutions & Procedures could be applied according to the client’s needs. For example, items with sensitive or bare metal surfaces that are being transported by ocean container require moisture vapor-proof packaging. Salt water and salt water vapor put sensitive electronic components and metal surfaces at risk of corrosion, potentially harming the product’s functionality. We place items such as these in a vapor barrier bag with activated desiccant inside before heat-sealing the seams. A vacuum is then used to reduce the air volume inside the bag before the final seal, thus lowering the humidity levels inside the barrier bag.

In details, Our packaging equipment includes:

- No. 1 Electric Forklift (max 8 ton)
- No. 1 Electric Forklift (max 3,5 ton)
- Lifting Crane (max 500 kg)
- Certified Lifting Belts
Valve Guarantee & Spare parts

Our full range of valve is manufactured according to the best quality standards which guarantee a long-term functioning for all of our products. In addition to this, we apply a 18 months (from the date of delivery) or 12 months (from putting into service) guarantee against manufacturing defects and/or defective design on every manufactured valve and a product liability insurance with AXA Insurance Group that makes valveiT entirely trustable.

As a project-oriented company, we daily support our customers from day one to the end of a project and beyond, assuring our commitment in supplying spare parts for the installed valves and equipment and eventually assisting with repairing operations directly in our Italian headquarters.
Safety

Safety is at the core of our business and is a key element of our culture. Our safety plan is a comprehensive and successful program that allows our customers and our members to rest assured that safety is top of mind on all our products and facilities. We strive to finish each and every day of our staff incident and injury free.

Operational Excellence

ValveIT also maintains a robust Operational Excellence and Performance Improvement program that ensures our customers receive products and services of the highest quality in the industry.

With a focus on cost and schedule efficiencies, we save our customers time and money while providing the industry’s highest level of service and quality. Our proven track record demonstrates that continuous improvement and quality assurance is evident in every project we execute for our valued customers.

Quality

ValveIT’s QA program and products conforms to the requirements of:

- ISO 9001:2015
- ISO 14001:2015
- BS OHSAS 18001:2007
- WRAS
- SASO
- DNV - GL
- ABS
- BUREAU VERITAS
- LLOYD’S REGISTER
- UL/FM