Carrara
Global Sealing
Solutions
committed
to Partnership

4 Operative Branches
• Valgasket Valves Sealing & Components
  • Industrial Sealing
  • Environmental Services
  • Technical Yarns for Industries

Carrara is a partner of the major manufacturers of process fluid control components. At its headquarters, it has a laboratory for non-destructive testing of products.

• 20,000 m² of Building Space
• 160 employees
• Patented products
• Frame Agreements around the world
Sealing Solutions

Valgasket is the Valve Components Division of Carrara Global Sealing Solutions whose scope is to meet the specific application requirements for ball valve components. Ball valve inserts and seats, ring joints and a comprehensive range of industrial gaskets for valves makes Valgasket a supplier of reference for all the main valve manufacturers. The accurate application of procedures dedicated to the design and production of valve components, the use of top quality materials and the latest technologies are part of Valgasket’s mission of achieving total customer satisfaction. Our high-level technical-commercial services provide support under any situation.

Mission

We produce state-of-the-art seats.
- To satisfy our customers, we supply a complete kit of ball+seat.
- We give our customers the right solution based on their need for technology, price and delivery time.
- We are committed to establishing long-term business relationships with our customer.
- Service and on-time delivery.

Co-engineering

- We have our own standard design for a wide range of seats and balls.
- We have developed proprietary procedures for inserting and machining.
- We share our experience with your for the development of your valve.
Our Products

Standard seat design

Design: this seat is designed following standard ball valve body dimensions. This design covers applications under normal conditions as well as more difficult ones, like high temperature and aggressive environments. Sizes range from 1/2" to 60". You can find the material for rings and inserts available in stock for quick delivery. Alternatively, you can order a custom design; we only ask that you adhere to our standard raw material sizes.

Application: these seats are used in side entry trunnion and floating valves produced in 2 or 3 pieces.

Top-entry seat design

Design: this is usually a longer seat in 1 or 2 pieces. It can be supplied with soft inserts like nyons or PEEK, or with special coatings for specific applications. Usually, these seats are produced with a screw fitting for easy assembly and to provide space for ball movement. Materials can be standard or exotic for best resistance in service.

Application: the main feature of the top entry valve is permitting on-line-service and the replacement of the seats and the ball without opening the line. These seats find applications at all pressures.

Cryogenic design

Design: the main feature of the design is to permit the sealing at -196℃. We have developed a special procedure to obtain the best material performance. Our engineering department develops the critical sizes and finishing for the seats and balls as these are very important for good valve seal. The most widely used combination of materials is F316+PCTFE+Lipseal. We guarantee correct assembly of the components. We have successfully tested a new material called V10, suitable for applications at -260℃.

Application: this particular design is used for cryogenic service in gas applications in plants or ships carrying LNG.
V-ring seat design

**Design:** this design features the use of a 98sh elastomer insert to provide an excellent seal on the ball or gate. The main application is low pressure and gas but recently we introduced improvements that permit its use in high-pressure service. We can provide all the information necessary so that you can choose the right compound for the chemical compatibility you require.

Gate valve seat design

**Design:** the seats have a front sealing area with 1 or 2 inserts of different materials. The seats can also be metal-to-metal with Stellite or TCC coating. To facilitate assembly and on-line maintenance, the design usually includes "wings". Sizes range from 1/2" to 72" and materials can vary from carbon steel to nickel alloys.

**Application:** gate valves are used in pipelines for crude oil or gas and in small room situations, like in plants.

Metal-to-metal design

**Design:** metal to metal means when you have a direct contact between the seat and the ball on the primary sealing area. For the secondary sealing you can choose an O-ring, lip seal or graphite depending on the application. The coating is usually made with Tungsten Carbides or Chrome Carbides and is sprayed over the surface of the seats or ball using the HVOF procedure. We can provide various designs to give you the best performance for your specific needs.

**Application:** This type of seat is used for high pressure and dirty services, when the plastic inserts could be easily damaged. The maximum service temperature is about 400°C depending on the base material grade.
Our products

Balls
Since 2009, we supply the balls for valves. You can receive a complete ball-and-seats kit with any finish you need, like ENP, Tungsten Carbide, or Stellite. Balls can be made to your design or to our standard drawings. Focus on your core business. Let us take care of the rest.

Bodies and closures
We machine bodies and closures for 2 & 3 pcs valves to complete the range of products we supply to this industry. Our product range is from 8” to 36” in order to provide you with a truly complete “kit” of machined components.

Expanding gates and through conduit gates
The Expanding Gate design provides a mechanical seal between the seats and the gate in both high and low pressure applications. It is supplied with a metal-to-metal seal where the perfect match of the gate with the seat is the key. Used for severe conditions and applications.

The through conduit gate is a good solution for downstream pipe applications. It “floats” against the second seat and creates the seal. Usually it works with soft insert seats to provide perfect seal under low-pressure conditions.
O-rings
We supply O-rings, as well as all other valve seal components, that can satisfy the most severe conditions in terms of temperature, pressure and chemical compatibility.

Graphite
Graphite is used for fire safe and heavy-duty sealing. Graphite products can be simply fire-safe or spiral-wounds for use in the seats and the body for static or dynamic sealing. These are special sealing components for low-emission stem packing according to the most stringent international regulations. Materials vary from varying-density pressed graphite to braided rings with other compounds. We provide the support to give you the best solution for your valve in compliance with standards for low-emissions.

Ring-joint
We can provide you with all the ring-joints for your valve ends. These gaskets are produced according to international standards or to your specific size. Materials range from Soft Iron to Inconel, with the proper hardness for correct sealing.
Production

Design & Production: search for new goals

For us, technology is one of the best tools for working better and faster. For this reason our production team uses a CAD-CAM system to minimize errors and machining time. This provides satisfactory results already, and have been improved using a Wi-Fi connection for valuable support between the engineering and the production departments. Along with investments in software, we pay particular attention is paid to the renovation of the machinery to always have appropriate working capacity to fulfil all the big valve projects on the market and to satisfy the energy industry’s fast-growing requirements.
Quality control: top priority

Aiming for excellence: Quality Control parameters are applied in all areas of technical importance, from the initial selection of raw materials, to the accuracy of machining, through the seat assembly and the final inspection tests. Quality standards are regularly monitored throughout all the productive cycles. This grants Valgasket products an exclusive benefit: the guarantee of quality on all levels. With our skilled team of experts, we easily fulfil customers' new and more restrictive order specifications, making the difference in this fast-growing, demanding market.
Thermoplastic stock

Your stocks include the thermoplastic materials used for the different applications:
- PEEK for high temperature and high pressure
- V10 and Kel-F for cryogenic applications
- Nylons for standard applications

Warehouse
Stock

Stock material
Fast delivery time is what you need. To provide it:
- we regularly produce our stock of rings, from 1/2” up to 56”;
- we keep the following materials in stock: LF2, F316, F6A cl2, F51;
- with our Mep1 SAP add-on, the quantities in stock are updated weekly and re-ordered automatically when they fall below a fixed limit;
- to satisfy your needs we also produce using special materials like F53 & MC625.
You are welcome to visit the warehouse during one of your next visits to the plant.

Applications
The main fields of activity are:
Braided Packings
Huge and qualified range of braided packings covered by API 622, ISO 15848, BAM and FDA for any industrial applications.

Valve Graphite Sealing
FE approved graphite stem sealing, special graphite seat sealing and huge range of engineered graphite seals for valves.

Metallic Flange Gaskets
Planisteel Spiral Wound Gaskets, Kamprofile and Ring Joints according to all International standard or customized on demand.

Flat Gaskets for Flange
Planigraph, Planifton and Planiflex gasketing sheets and flat gaskets for all applications.

Mechanical seals
Single Stationary Multiple Spring Cartridge and High Temperature Metal Bellows Single Cartridge are the main product of our range.

Insulating Kit
Flange insulation kits for cathodic protection are one of our specialties.

Valve Components
Metallic Seat soft inserted and metal to metal for Ball and Gate Valves, Kit «ball and seat» equipped with all soft parts.

FERP Envir. Division
LDAR and Smart LDAR, Tanks Survey, Steam System Assessment and 3D Environmental Consulting.