



HUTCHINSON®
GASKET INTERNATIONAL

We make it *possible*

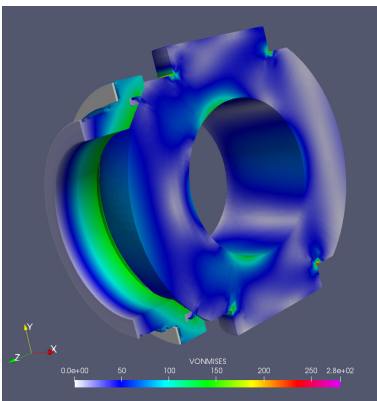
PRECISION SEALING SYSTEMS
VALVE COMPONENTS



EXPERTISE

DESIGN - F.E.A. 2D-3D

- > Finite Element Analysis to simulate and predict valve components behavior under pressure and temperature
- > Patented seats designs



DESIGN SERVICES



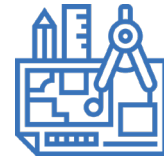
FULL
DESIGN
DEVELOPMENT



TECHNICAL
RECOMMENDATIONS



DESIGN
IMPROVEMENT



REVERSE
ENGINEERING

MACHINING CAPABILITIES

- > 50 years of experience
- > Excellent expertise in steel and thermoplastic machining
- > In-house production process through CNC machines
- > From the smallest size of 1/4" up to 72"

CONTROL SYSTEMS

- > Coordinate Measuring Machine (CMM) - 3D measuring machine : ZEISS and DEA
- > Rapid Gas Decompression (RGD) Test Bench
- > Pressure Test Bench for valves - Up to 1000 bars
- > Internal polymeric material characterization (traction, hardness and compression test) also at cryogenic temperatures
- > Roughness tester with mobile probe

SURFACE TREATMENTS

- > Surface treatments: Electroless Nickel Plating and Nano Nickel Silicon Carbide
- > Surface hardening coatings: TCC, CCC, and Stellite
- > Cladding materials: nickel alloy (Inconel 625), and stainless steel (F316)
- > Internal lapping process to ensure perfect sealing between ball and seats



CERTIFICATIONS

- > ISO 9001
- > ISO 14001
- > ISO 45001
- > ISO 50001
- > UNI/PdR 125

SEALING SOLUTIONS FOR BALL & GATE VALVES

BALLS FOR VALVES

In-house design and manufacturing incl. NDEs and CMM reports
Size from 1/4" up to 48"
All grades of material, incl. carbon steel, stainless, duplex, superduplex, and nickel alloys

BALL TYPES

- > Ball for Trunnion valve
- > Ball for Floating valve
- > Cladded ball (welding overlay INC625 or 316L as per ISO 3834)
- > Cartridge ball



SEATS

Hutchinson Gasket International provides customized solutions to achieve the best performances in terms of sealing, durability and functionality. Dimensional accuracy is obtained through the use of advanced machining.

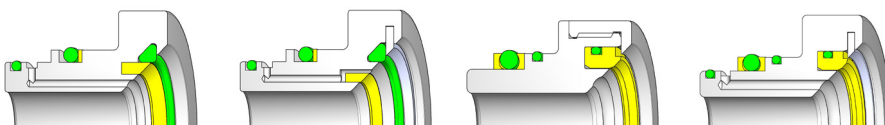
In-house design and manufacturing
Size from 1/4" up to 72"
All grades of materials incl. carbon steel, stainless steel, duplex, superduplex, and nickel alloys

SEAT TYPES

- > Elastomeric insert seats
- > Thermoplastic insert seats
- > Combined insert seats (PMSS)
- > Metal to metal
- > Seats for gate valves

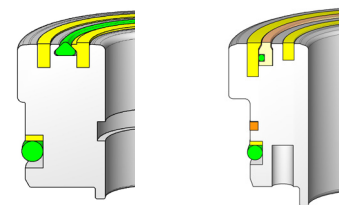


SIX PATENDED SEAT DESIGNS



DELTA DESIGN SEATS

UNIVERSAL DESIGN



SEATS FOR GATE VALVES



SEALING SOLUTIONS FOR BALL & GATE VALVES

SLABS

- > Slabs for gate valves
- > For gate size from 4 to 48 ''
- > In-house design according to customer requirements



SEALING SOLUTIONS & COMPONENTS

We offer a wide range of sealing solutions from steel machining to technopolymers molding, in order to ensure complete control of the design and manufacturing process according to customers needs.

ELASTOMERS

- > O-Rings & Delta Rings
- > Norsok and TotalEnergies RGD approved materials available
- > Up to 2000 mm

RAPID GAS DECOMPRESSION RESISTANCE

Hutchinson developed its own test bench as expected by international standards.

METAL TO METAL

- > TCC, CCC and Stellite
- > Abrasive and/or corrosive fluids (such as mud, sand, acid)
- > Suitable for severe service conditions (high pressure and temperature)

THERMOPLASTICS

- > Seat Inserts, Floating Seats, Back-up Rings
- > In-house manufacturing of PEEK grades, including Cryo PEEK, PCTFE, POM C, R-PTFE
- > Up to 2.500 mm
- > Test certificates: aging test as per Norsok M710



SECURING PRODUCTION OF ENERGY RESOURCES

To increase the safety of the production of energy resources, Hutchinson offers a wide range of valve components, from standard to custom parts such as complete « seats, balls & slabs » kits. We machine bodies and closures ensuring a perfect fit of the components for an optimal sealing of the valve.

WORLDWIDE LEADER IN VALVE COMPONENTS

Hutchinson - Gasket International is committed to provide customers with turnkey sealing solutions and valve components. We design and manufacture the key components of the valves, from standard to highly engineered solutions for ball and gate valves, in all environments and conditions.

Our difference relies on our technical and designing skills providing for each project, technical drawings, recommendations for materials and coating technology. Our know-how allows us to meet the most specific customer needs in terms of size, resistance to extreme

temperatures, pressure, abrasive and corrosive fluids.

From steel machining to technopolymers molding, the in-house production allows us to directly control and validate the conformity of the products without intermediaries, thus ensuring superior quality and complete traceability. Our solutions are designed, manufactured and assembled in our international facilities.

FOR SEVERE MARKETS &
CRITICAL APPLICATIONS



Oil & Gas



Potable
water



Cryogenics



Ionised
Steam



Chemical



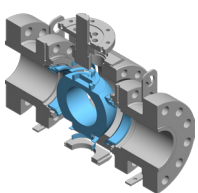
Nuclear

PROVIDING TAILOR-MADE VALVE COMPONENTS

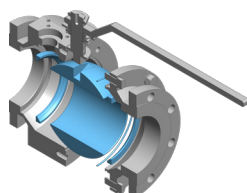
Balls, Seat, Slabs, Sealing Parts and Machined Components

- > Design and manufacture with FEA & test bench for validation
- > Technical support and international manufacturing facilities
- > Ensuring optimal sealing with full ball & seats kits
- > Stock availability of the most common raw material and sizes

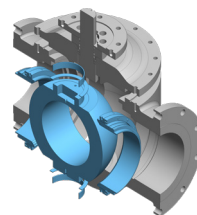
- > Providing components for the most demanding valves on the market



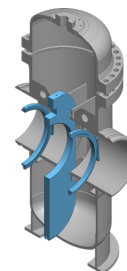
TRUNNION BALL
VALVES



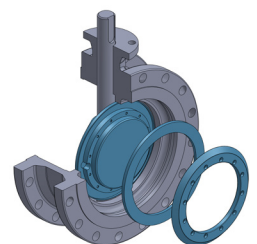
FLOATING BALL
VALVES



TOP ENTRY BALL
VALVES



GATE
VALVES



BUTTERFLY
VALVES

ABOUT HUTCHINSON PRECISION SEALING SYSTEMS

Manufacturers seek highly reliable precision sealing systems that are able to withstand the most demanding environments.

Our systems play an often invisible but vital role, they protect and connect the components that transmit or transform energy in machines, vehicles or aircraft and provide industrial markets with maximum safety and outstanding performance over time.

As a global leader in static and dynamic sealing, Hutchinson designs and manufactures sealing solutions meeting customer requirements while complying with the latest regulations.

ABOUT HUTCHINSON



€5bn
turnover



26
countries



100 sites
around
the world



5% invested
each year
in R&D



> 40,000
employees

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