

EWEN MUCH MORE



RMT Valvomeccanica

— |  GIVA GROUP

The Company

RMT VM is a globally recognized Italian leader in the engineering and manufacturing of high quality and special design on-off Ball Valves and Control Valves.

RMT VM production unit covers the full range of Ball and Control Valves to the highest standards, serving the greatest Oil&Gas companies and EPC for the most demanding and severe applications around the World.

The Values

RMT VM Vision: to be globally recognized as the best valve manufacturer leading the evolution of processes and products through our people, the most advanced technologies and expertise.

RMT VM Mission strongly aims to set a better future for our stakeholders, while nurturing a safe, clean and ethically sustainable environment.



Company Highlights

RMT VM has a long tradition and a consolidated experience in the design, engineering, assembling and testing of ball and control valves and can count on skilled staff qualified to perform in compliance with strict quality standards.

Thanks to the structure and support of the **GIVA Group**, **RMT VM** is able to perform a 360-degree supervision on our products production: starting from engineering (internal laboratories for research and development activities), proceeding with procurement of raw material, forging and machining activities carried out by the group's subsidiaries, **RMT VM** commits to reducing cost impacts and delivery times, while guaranteeing a high and well-known level of quality that would be difficult to achieve in a different context.



RMT VM headquarter and production plant is based in the town of Solbiate Olona, in the North of Milan in the very heart of the Italian and European valve industry, on a single unit of approx m² 57.000,00 (ft² 611.573,09), at a short driving distance from most of the main sub suppliers of raw materials and components. Solbiate Olona is easy to get to from the principal means of transportation:



Quality, our best policy

In order to guarantee the highest safety and quality standard, **RMT VM** has implemented a **Quality Management System** in compliance with standards ISO 9001, API 6D, API 6DSS, API 6A, PED, ATEX, SIL, EAC mandatory requirements.

HSE aspects are governed by an **Integrated Management System** in compliance with standards ISO 14001:2015 and ISO 45001:2018 and to the applicable national laws.

Cornerstone of **RMT VM** is the respect and the satisfaction of our stakeholders, made possible by:

- Enduring knowledge
- Utmost flexibility
- Detailed assessment and prevention of risks and possible claims
- Long-term oriented relationship with customer and suppliers.

The whole **RMT VM** staff is committed to always work in continuity towards the improvement of our company and to set out goals concerning all the company functions. In order to turn words into actions, our Executive Management focused on essential activities:

- The good interaction within the organization dpt;
- The strong and close co-operation with suppliers of machining and services;
- The scrupulous and periodical training for all the personnel with update and follow-up classes;
- The scrupulous application and compliance to the National and International regulation which we are licensed with;
- The constant and determined research and elimination of Non-Conformities;
- The constant research of new products and screenings of the market.

After-Sales Service

Paramount care of **RMT VM** is to always assist customers since the bidding stage, through all their purchasing process and up to the following aftersales assistance.

RMT VM is committed to provide customers with technical and spare-parts assistance for 10 years minimum from the purchasing of our products.

RMT VM After-sales activities are carried out all over the world, with no territorial limit.

All operations are always supervised by a team

of well skilled technicians to make every intervention faster and more efficient and are duly recorded and made available for further tracking and or review.

RMT VM skilled project managers assist customers and are always available to give precise feedback on request of clarification, assistance and project progress status.



HIPPS

Ball Valve for High Integrity Pressure Protection System Service

Standard Features

- Size range: 1.1/2" to 36"
- Rating API6D & 6A Class 5.000 & 10.000
- FORGED body & closure - bolted
- Metal seated, LIP SEALS
- Internal protection on sealing areas
- Self-relieving & Double piston effect seat
- **REDUCED OPERATING TIME**
- Anti-blow-out stem - antistatic device
- Construction and testing according to BS 6364/ASME B16.34/API 6D
- Fire safe API 6FA - API 607 - ISO 10497
- Materials according to NACE MR 01.75

Optional upon request

- Design and house testing of complete HIPPS System comprehensive of sensor elements and logic solver
- Safety Analysis report of final element (valve + actuator system) or final HIPPS system.

* **SIL 3 certified valves, engineered and designed for Systems classified up to SIL 4 certification.**



TTE & TTES

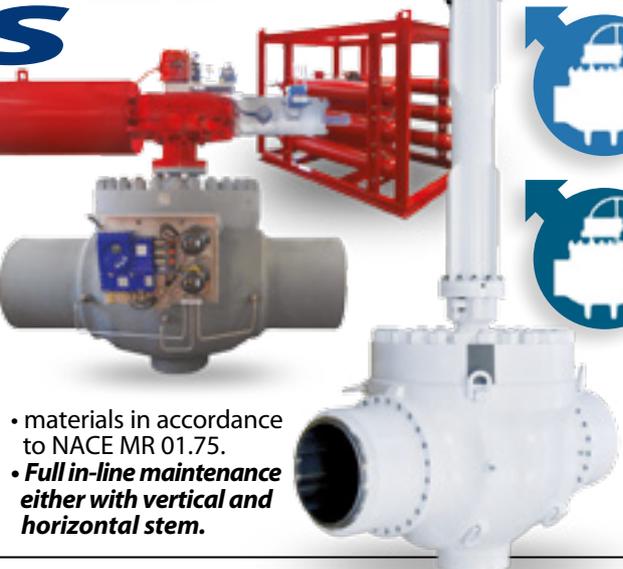
Trunnion Top Entry & Top Entry Special Ball Valve

Standard Features

- Size range: 1.1/2" to 60"
- Rating class: ASME 150-300-600-900-1500-2500 API 2000-3000-5000-10000
- Cast / Forged Body & Forged Bonnet
- Soft or Metal Seated with Tungsten Carbide Coating or Chrome Carbide Coating
- Internal protection on sealing areas CRA weld overlay or FBE lining
- Self-relieving seats

TTES: double piston effect seat (DIB-1 or DIB-2)

- Anti-blow-out stem - antistatic device
- Fire safe API 6FA - API 607 - ISO 10497
- Designed, manufactured and tested according to API 6D, ASME B 16.34, E.D. 2014/68/EU (PED), EN 12516
- End connections: flanged (ASME B16.5 - B16.47), BW (ASME B16.25), Hub



- materials in accordance to NACE MR 01.75.
- **Full in-line maintenance either with vertical and horizontal stem.**



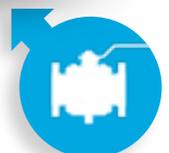
FSE

Floating Ball Valve

Standard Features

- Size range: 1/2" to 6"
- ASME Class 150 to 2500
- Full and reduced bore port
- 2 or 3 pieces bolted body / threaded body / top entry / DBB - double ball
- End connections: flanged (ASME B16.5), BW (ASME B16.25), NPT

- Designed, manufactured and tested according to API 6D, ASME B 16.34, E.D. 2014/68/EU (PED), EN 12516, BS 5351
- Fire safe as per API 6FA; API 607; ISO 10497
- Anti-static device - self relieving
- NACE MR 01-75 / MR 01-03.

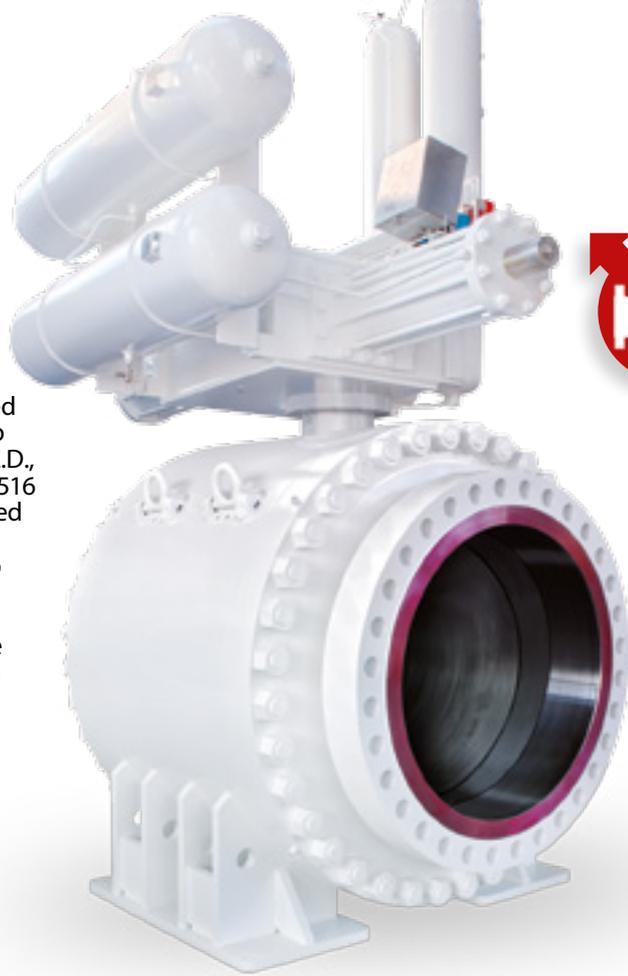


TSE

Trunnion Side Entry Ball Valve

Standard Features

- Size range: 1.1/2" to 60"
- Rating class:
ASME 150-300-600-900-1500-2500 / API 2000-3000-5000-10000-15000
- FORGED Body & Closure - BOLTED
- Soft seated or Metal Seated with Tungsten Carbide Coating or Chrome Carbide Coating
- Internal protection on sealing areas CRA weld overlay or FBE lining
- Self-relieving seats or double piston effect seat (DIB-1 or DIB-2)
- Anti-blow-out stem - antistatic device
- Designed, manufactured and tested according to API 6D, ASME B 16.34, E.D., 2014/68/EU (PED), EN 12516
- End connections: flanged (ASME B16.5 - B16.47), BW (ASME B16.25), Hub
- Fire safe API 6FA - API 607 - ISO 10497 materials in accordance to NACE MR 01-75 / MR 01-03.

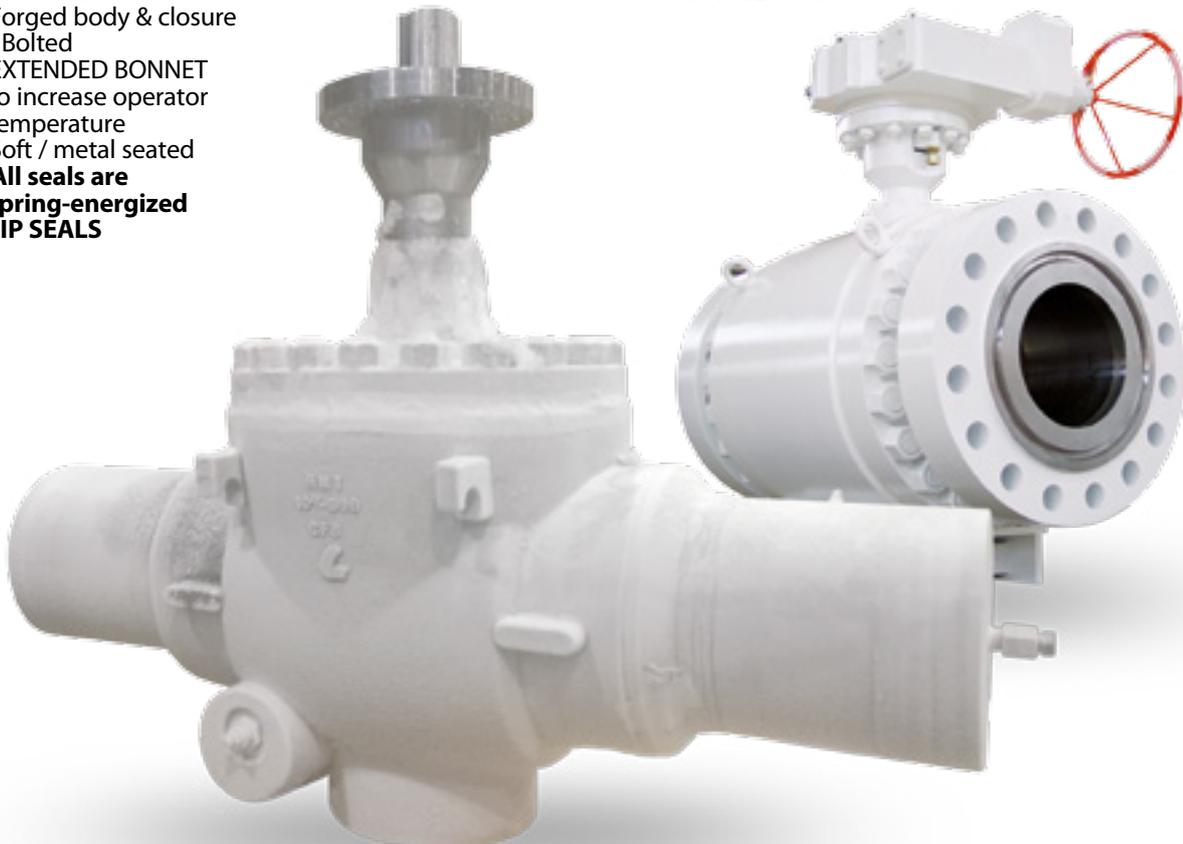


CRYO

Ball Valve for Cryogenic Service

Standard Features

- Size range: 1.1/2" to 60"
- Rating up to ASME 2500
- Low Temperature up to -196°C
- Forged body & closure - Bolted
- EXTENDED BONNET to increase operator temperature
- Soft / metal seated
- **All seals are spring-energized LIP SEALS**
- Self-relieving or Double piston effect seat
- Anti-blow-out stem - antistatic device
- Construction and testing according to BS 6364/ASME B16.34/API 6D
- Materials according to NACE MR 01.75
- **In-house testing according to Shell 77/200 or BS6364.**



T6A

API 6A Ball Valve

Standard Features

- Size range: 1 13/16" to 20"
- Rating up to 15000psi both soft or metal
- Forged body & closure up to PSL4
- Internal protection on sealing areas CRA weld overlay or FBE lining
- Self-relieving seats or double piston effect seat (DIB-1 or DIB-2)
- Anti-blow-out stem - antistatic device
- Construction and testing according to API 6A up to PSL4
- Performance requirements PR1 or PR2
- Materials according to NACE MR 01.75/ISO 15156

- Emergency sealant injection to stem & seats upon request by means of quick connecting fittings
- FEA as per design method.



TSS

Shallow Water Subsea Ball Valve

Standard Features

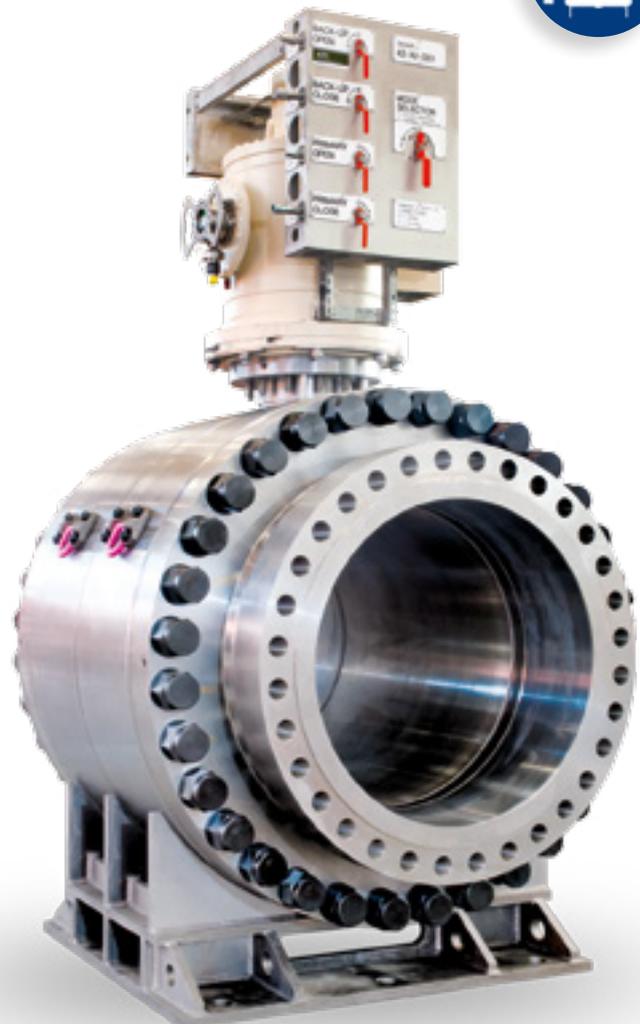
- Size range: 1.1/2" to 60"
- Rating class: ASME 150-300-600-900-1500-2500 / API 2000-3000-5000-10000-15000
- Trunnion Mounted ball with Spring loaded floating seat
- Body & Closures from Forging
- Self-relieving seats or Double Piston Effect (DIB-1 or DIB-2)
- Soft seated or Metal Seated with Tungsten Carbide Coating
- Blow out proof stem design
- Electrical continuity for CP System
- Direct ROV connection (If required)
- End connections: flanged (ASME B16.5 - B16.47), BW (ASME B16.25), Hub
- Construction and testing according to BS 6364/ASME B16.34/API 6DSS
- Materials according to NACE MR 01.75.

Special design features*

- Primary Metal sealing Body-to-closure / Body-to-bonnet by Metal gasket ring (BX type)

- Multiple barrier on Stem sealing system and primary metal stem sealing upon request for severe service.
- Metal-to-metal sealing between Ball and Seat (TCC coated) with 0-leakage per formance (RATE A) for fluid service.
- Non-elastomeric seals (PTFE-PEEK) compatible with most severe media, suitable for blow-down service beyond -29°C and no risk of gradual degradation.
- Internal protection on all sealing areas and critical surfaces by N06625 weld overlay; fully clad upon request for severe service.
- Vent and drain ports arrangement with primary metal barrier and seal welding.

*** For specific and more demanding application to guarantee the reliability of the subsea package for the whole duration of the life with zero maintenance (up to 30 years).**





Trunnion Split-Body Compact Ball Valve

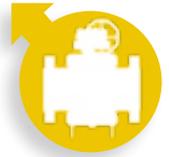
Standard Features

- Size range: 1.1/2" to 60"
- Pressure Class up to ASME 2500# & API 10K updated
- Forged 2 Piece body & closure design
- Design according to API 6D or API 6DSS /ASME VIII Div.2 Part. 5 (Design by analysis)
- REDUCED FACE-TO-FACE DIMENSION to meet customer requirement
- Soft seated or Metal Seated with Tungsten Carbide Coating or Chrome Carbide Coating
- Internal protection on sealing areas CRA weld overlay or FBE lining
- Self-relieving seats or double piston effect seat (DIB-1 or DIB-2)

- Anti-blow-out stem - antistatic device
- Designed, manufactured and tested according to API 6D, ASME B 16.34, E.D., 2014/68/EU (PED), EN 12516
- End connections: flanged (ASME B16.5 - B16.47), BW (ASME B16.25), Hub
- Fire safe API 6FA - API 607 - ISO 10497
- Materials in accordance to NACE MR 01-75 / MR 01-03.

*** Also available for SubSea applications.**

**** Saving Up to 30% in valve length & weight compared to standard valves.**



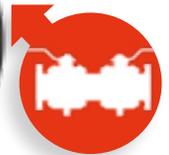
Trunnion Double Block&Bleed Ball Valve

Standard Features

- Size range: 1.1/2" to 36"
- Rating class: ASME 150-300-600-900-1500-2500 / API 2000-3000-5000-10000-15000
- Forged body & closure - bolted
- DOUBLE BALL & INTERMEDIATE VENT/DRAIN
- Soft / metal seated
- Internal protection on sealing areas CRA weld overlay or FBE lining

- Self-relieving or Double piston effect seat
- Anti-blow-out stem - antistatic device
- Construction and testing according to ASME B16.34/ API 6D
- Fire safe API 6FA - API 607 - ISO 10497
- Materials according to NACE MR 01.75.

*** DBB type available also for Floating Ball Valves.**



Trunnion Fully Welded Ball Valve

Standard Features

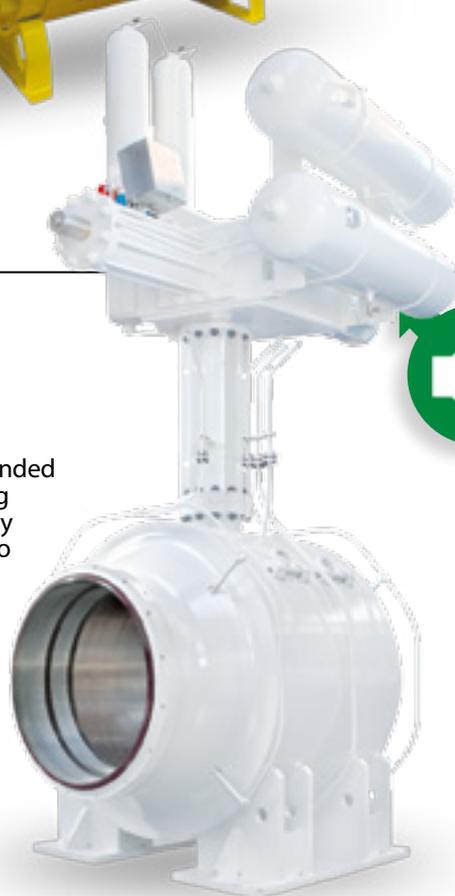
- Size range: 1.1/2" to 60"
- Rating class: ASME 150 -300-600-900-1500-2500
- Forged body & closure - WELDED
- Soft or Metal Seated with Tungsten Carbide Coating or Chrome Carbide Coating
- Internal protection on sealing areas CRA weld overlay or FBE lining
- Self-relieving seats or double piston effect seat (DIB-1 or DIB-2)

- Anti-blow-out stem - antistatic device
- Fire safe API 6FA - API 607 - ISO 10497
- Materials in accordance to NACE MR 01.75.

Underground application

- Valves installed underground or in remote locations can be operated with an optional extended stem
- All the drain, vent and emergency sealant connections can be operated

using extended connecting pipes firmly attached to the stem protective cover.



CONTROL

Linear Control Valves



S20s

Globe StraightWay - Series 20s

- **22 Serie** - Top Guided Globe Control Valve
- **23 Serie** - Cage Guided Globe Control Valve

Main characteristics:

- S22s: DN up to 6", S23s up to 24".
- Quick-change Design.
- Heavy Top or Cage Guided.
- Leakage Class IV by Standard, Tight Shutoff Class V and Class VI.

Many options:

- Metal/soft seated.
- Packing fugitive emission compliant, bellow sealing.
- Exotic materials.

S90s

Globe Angle - Series 90s

- **92 Serie** - Top Guided Globe Angle Control Valve
- **93 Serie** - Cage Guided Globe Angle Control Valve

Main characteristics:

- S92s: DN up to 6", S93s up to 24".
- Quick-change Design.
- Heavy Top or Cage Guided.
- Leakage Class IV by Standard, Tight Shutoff Class V and Class VI.

Many options:

- Metal/soft seated.
- Packing fugitive emission compliant, bellow sealing.
- Exotic materials.

S70s

Globe ThreeWays - Series 70s

- **71 Serie** - Globe Three-Ways Diverting Type
- **72 Serie** - Globe Three-Ways Mixing type

Placed upstream/downstream the heat exchanger and suitable for applications requiring diverting flow in a process control system.

Usually preferred with high difference of temperatures across the heat exchanger ($T > 100^{\circ}\text{C}$).

Rotary Control Valves

S10s

Butterfly - Series 10s

- **11 Serie** - Butterfly High-Performance Plain Disc
- **12 Serie** - Butterfly High-Performance Wing Disc

Main characteristics:

- S11s: DN from 6" up to 80", S12s: DN from 6" up to 56".
- Wafer, lug, double-flanged construction.
- Solid construction, low friction bearings.
- Equal percentage inherent characteristic
- S12s: Wings extended up to 90°, for very critical services.
- Leakage Class IV by Standard, Tight Shutoff Class V and Class VI.

Many options:

- Metal/soft seated.
- Packing fugitive emission compliant.
- Live loading packing.
- Exotic materials.

S40s

Ball Control Valve - Series 40s

- **42 Serie** - Downstream Drilled Spherical Cage
- **43 Serie** - MS (Multi Stage) Control Ball Valve
- **45 Serie** - V-CUT® Control Ball Valve

Main characteristics:

- DN up to 40".
- Forged construction.
- Compact design with casted body, ASME B16.10 short pattern and one single seat.
- Perfect equal percentage characteristic.
- Leakage Class V by Standard, Tight Shutoff Class VI on request.

Many options:

- Metal/soft seated.
- Double seated API 6D criteria also available on request.
- Packing: live loading, fugitive emission compliant.
- Exotic materials.

Visit our website www.rmtvalvomeccanica.com for further details.



GIUA GROUP

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