

**TrunTech®**

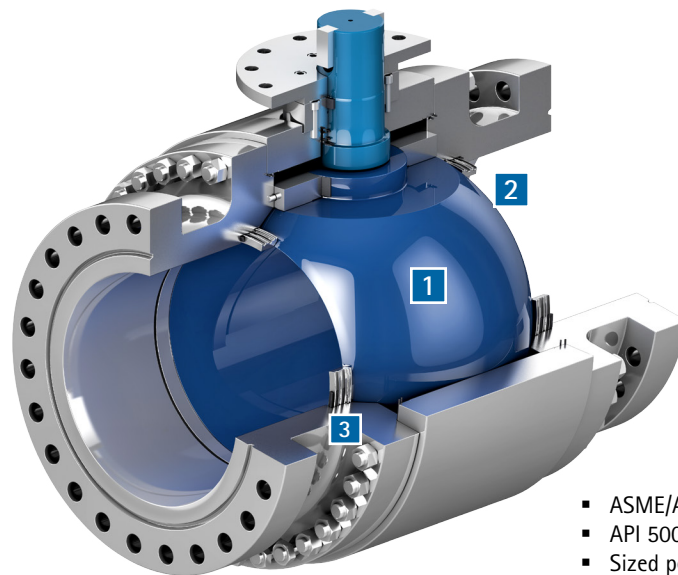
Trunnion Mounted Metal Seated Ball Valve

# TRUNTECH®

## The Next Generation in Trunnion Technology

The advantages of the trunnion-mounted ball valve include: low operating torque, protected sealing surfaces when in the open and closed position, and the ability to operate in the presence of solids and other contamination. The TrunTech® design from ValvTechnologies meets stringent emission requirements and provide long life in abrasive and erosive conditions.

The TrunTech® trunnion design provides a severe service solution for tough, high cycling applications.



### Applications:

- HIPPS
- ESD
- Manual isolation
- Injection
- Gas storage (withdrawal)
- Gas transmission
- Other gas treatment processes

- ASME/ANSI Class 150 – 2500
- API 5000 – 15000
- Sized per API 6A and 6D

### 1 Carbide Sealing Surfaces

The sealing surfaces are overlaid with tungsten or chromium carbide using the ValvTechnologies-exclusive HVOF RiTech® coating process. These surfaces have a hardness of 68 – 72 Rc to allow long periods of operation in the most severe conditions.

### 2 High Integrity Seals

To prevent leaks around the seats, ValvTechnologies has developed an innovative double seal design for erosive services operation in high cycling applications. A secondary graphite seal is installed toward the body cavity.

### 3 Solids Resistance

In addition to the carbide coatings which will allow the valve to function in highly abrasive applications, the individual valve parts have additional seals to prevent interference from solids in the system. This provides for outstanding service in severe-service isolation applications with high particle content from sand, elemental sulfur, hydrate, perforation shrapnel and pipe corrosion products.

## TrunTech® Key Performance Features and Benefits

Features	Benefits
Guaranteed tight shut-off	Enhanced process safety and repeatable sealing allows operation under process excursions
True metal-to-metal sealing without using secondary elastomeric seals	Inherent fire safety
Solid-proofed by design	Process reliability
Exclusive HVOF RiTech® coating technology	Extended life
Grafoil® fire-safe seals	Reduced maintenance costs
Double block and bleed capability	Enhanced process safety
High cycling capability	Process reliability
Bi-directional sealing by design	Enhanced process safety, lower maintenance, less downtime
Single-piece anti blow-out stem design	Enhanced process safety
Impervious to high thermal cycling	Enhanced process safety
Certified to use in SIL-3 loop in single-valve and SIL-4 loop in two-valve with minimum MTBF 1,280 years	Enhanced process safety
Fire safe certification: API-607 / API 6FA	Enhanced process safety
Stem fugitive emissions per ISO 15848-1 Class B & TA-Luft	Lower emissions and enhanced process safety

## TrunTech® Features

Bore	End size (inches)	Class	Body Materials	End connections	Operating temperature
per API 6D ISO 14313 and API 6A ISO 10423	Per API 6A and 6D	ASME 150-2500 API 6A 5000-15000	A105 A350 LF2 A350LF6 F51 F53 Alloy 625 Cladded 4130	BW RF FTJ Hub	-46°C to 200°C

### Actuation and control

- Pneumatic - single and double acting
- Hydraulic - single and double acting
- Electric
- Electro-hydraulic
- Self contained with pressure pilots
- SIL-III instrumentation and logic solver
- Gears and levers

### Fluids

- Gas-oil-water mixture with CO<sub>2</sub>, chlorides H<sub>2</sub>S and particles
- Injection water and gas
- Brine and brine-containing oil
- LNG



ValvTechnologies, Inc. is a global leader in the design and manufacturing of flow control devices. Founded in 1987 and headquartered in Houston, Texas, ValvTechnologies remains focused on helping customers meet their daily production and process challenges safely and efficiently.

Having built a global reputation for superior quality and dependability across every industry served with products designed to fulfill the requirements of standard applications to the most sophisticated, severe-service processes, ValvTechnologies meets the demands for total flow control solutions, whether one valve at a time, or system-wide.

Bringing together the best people and the latest in technological design and manufacturing processes, ValvTechnologies has created an atmosphere where quality and dependability are built into every product, start to finish.

## Worldwide Office Locations

### Headquarters & Manufacturing

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