

# BORSIG

BORSIG  
VALVETECH  
GMBH

## VALVES AND VALVE SERVICES



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# ABOUT BORSIG VALVETECH GMBH

**BORSIG ValveTech GmbH** offers high-pressure control and shut-off valves for extreme operating conditions and a comprehensive valve service.

The design, manufacture and maintenance of high pressure control and shut-off valves show the full range of BORSIG ValveTech GmbH.

All our valve solutions are tailor-made for the respective applications and manufactured by the application of duplex, super-duplex and other special materials for extreme operating conditions. With this innovative product range, BORSIG underlines its claim to be one of the leading suppliers of high-pressure control and shut-off valves for extreme operating conditions, in particular on gas compressor and storage stations.

BORSIG ValveTech GmbH stands for innovation, precision, longevity and reliability.

Our product range:

- Control ball valves
- Isolation and emergency shut-off ball valves
- Desuperheaters
- Valve services and spare parts



# CONTROL SPHERE®



## CONTROL BALL VALVES

BORSIG ValveTech GmbH offers comprehensive products and service solutions for power generation, the oil and gas industries as well as the chemical and petrochemical industries.

**BORSIG ValveTech GmbH** designs and manufactures high quality trunnion mounted ball valves tailored to your specific control processes by using customized control discs.

Our control valve product line is engineered to suit very high differential pressure applications giving you an exceptionally high rangeability for your plant operation.

### **SIZES**

NPS 1" - 36"  
DN 25 - 900

### **CLASS**

ANSI 600 - 2500  
PN 100 - 420

### **SEALING SYSTEM**

Metal to Metal (MM)  
Primary Metal Secondary Soft (PMSS)  
Soft Seated

### **DESIGN**

- Split body
- Fully welded
- Top entry
- Trunnion mounted
- Forged or casted Steel



## FEATURES

- Customized control disc for linear, equal percentage or individual control
- Multi-pressure reduction design
- Anti-static design
- Single or double piston
- Double block and bleed
- Anti-blowout stem
- Vent and drain connection
- Emergency sealant injection
- Bi-directional
- Fire safe design



# SUPER- BLOC<sup>®</sup>

## ISOLATION & EMERGENCY SHUT-OFF BALL VALVES

Today's demand for increased efficiency and flexibility that comes along with higher temperatures, increased pressures and high cycling requires specific engineered valves.

In order to minimize downtime and to ensure maximum safety that calls for 100% system isolation, **BORSIG ValveTech GmbH** offers bubble tight isolation and emergency shut-off valves that are tested to the limit to ensure performance and integrity even under the most challenging conditions.

All of our isolation and emergency shut-off ball valves are coated application-specific for enhanced erosion and corrosion resistance to even withstand acids or caustics.







#### FEATURES

- Safety shut-off function
- Fire safe test acc. to API 607 & ISO 10497
- Anti-static design
- Single or double piston
- Double block and bleed
- Anti-blowout stem
- Vent and drain connection
- Emergency sealant injection
- Bi-directional



# DESUPER- HEATERS



## TEMPERATURE CONTROL OF SUPERHEATED STEAM

Steam conditioning plays an indispensable role in today's modern power plants.

**BORSIG ValveTech GmbH** desuperheater solutions have found great acceptance on the market offering state of the art technology for precise steam cooling by water injection.

In order to minimize vaporization distance - crucial for industrial and utility boilers - the nozzle design is optimized for perfect atomization of the cooling media. An integrated ball valve guarantees tight system isolation to reduce the risk of thermal shocks and minimize steam turbine blade wear associated to water accumulation and valve leakages. The massflow of the cooling media is controlled by a unique rotary movement that guarantees optimal cooling injection covering the entire load range.

### FEATURES

- Shut-off function by integrated ball valve system
- Multistage pressure reduction
- Linear, equal percentage or individual control characteristic
- Decreased wear of sealant system due to rotating movement
- Easy maintenance and exchange of spare parts
- Single piece design for maximum mechanical integrity
- No weld joints on pressure retaining components
- No need of additional feed water regulation valve





# VALVE SERVICES

## AND SPARE PARTS

Maintenance, repair and modification



**BORSIG ValveTech GmbH** is an independent spare part supplier for industrial valve parts of all brands. We cooperate with all major OEM`s in order to offer full spare part support for total valve care.

In order to guarantee a quick support of third-party valves we remanufacture components based on sample pieces (reverse engineering). Our many years of experience in the field of ball valves with diameters from 25 to 2,600 mm (DN 1" - 104") enable us to apply our expertise in the maintenance and repair of ball valves, even during plant operation.

In addition, we offer the production and refurbishment of spare parts, such as balls and seat rings using special ball and vertical lathes.





Valves severely damaged by corrosion are refurbished by cladding and hardfacing sealing surfaces including respective PWHT measures in such a way that they are equivalent to new fittings.

For modifications and improvements we feature supports made of PEEK (polyetheretherketone), replacing conventional seal rings by lip seals with preloaded springs. In some cases, existing ball valves can also be upgraded to „Fire Safe“.

In addition, safety valves, control valves, check valves, gate/slide valves and actuators can be repaired and refurbished in our workshops at Gladbeck and Berlin.





# OUR PROJECTS

## REFERENCES

for control ball valves  
and isolation and  
emergency shut-off  
ball valves









# BORSIG

## BORSIG ValveTech GmbH

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