

CERA SYSTEM
✓ more than ceramics

Engineered Ceramic Solutions





CERA SYSTEM Engineered Ceramic Solutions

When wear and corrosion resistance as well as high temperature stability is required then our advanced technical ceramic materials can provide the perfect solution.

We strive for cost effective solutions using our exceptional material property combinations.



As a market leader in ceramic lined valves and pipe systems we are constantly developing new applications for and with our customers. For standard applications our customers can benefit from our large range of standard products.

Our services include sizing, testing, production and delivery. Our after sales service optimizes customer care.

We would be pleased to supply you with any additional information concerning our product range and services.



Ball Valves / Control Ball Valves

Application:

- On / off
- Control / modulating

Nominal Data:

- Diameter DN10 - DN 300 (ANSI ½" - 12")
- Ratings up to PN 40 (ANSI 300lbs) - higher ratings available upon request

Configuration:

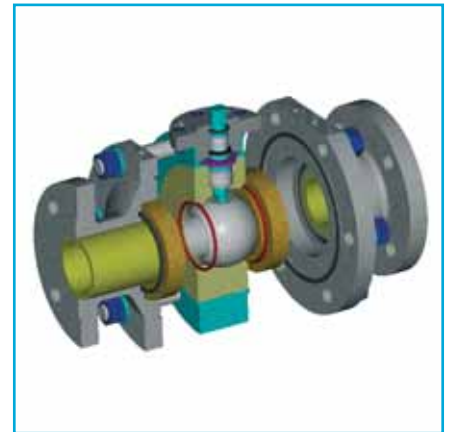
- Chemical
- Full ceramic liner & trim
- Light (partial ceramic trim)
- Floating ball
- Trunnion mounted ball

Material:

- Valve body / housing resistant to fluid
- Alumina
- Zirconia
- Silicon Carbide
- Silicon Nitride

Options:

- Up to 850°C
- TA-Luft Configuration (certified double packing)
- Heat- or cool- tracing
- Light (partial ceramic trim)





Sliding Disc Valves

Application:

- On / off
- Control / modulating

Advantages:

- Gas-tight
- No "dead space"
- Control of small flow
- Modulating
- Sequential batch dosing

Nominal Data:

- Diameter DN 1 to DN 50
- Ratings up to PN 250

Configuration:

- Chemical (SSC)
- Light (SSL, SDL, SGL)

Material:

- Valve body / housing resistant to fluid
- Alumina
- Zirconia
- Silicon Carbide
- Silicon Nitride

Options:

- Standard temperature up to 180°C
- higher upon request
- TA-Luft Configuration (certified double packing)
- Heat- or cool- tracing





Ceramic lined pipe systems



Advantages:

- Nominal diameter conformity
- Weight reduction
- Optimal flow condition
- Buffered against vibration
- Easy retrofit
- Compatible to other systems
- Monolithic ceramic pieces

Nominal Data:

- Diameter DN 15 -DN 200 (1/2" - 8")
- Ratings PN 6 - PN 16 (ANSI 150)

Configuration:

- Steel body
- FRP Fiberglass

Materials:

- Various pipe materials
(Steel, Stainless, Fiberglass)
- Alumina, Silicon Carbide (SiSiC)

Options:

- Temperatures up to 300°C
- Pipe extension
- Nominal diameter jumps
- Wear sensors

Mills / Milling Technology

Advantages:

- Monolithic design, hard porcelain
- Easy cleaning

Applications:

- Non-contaminating milling and mixing processes of minerals, pigments, drugs etc. for the chemical, pharmaceutical, electronic, food & beverage industry as well as for laboratory equipment.

Mill drums in hard porcelain:

- Liquid-, gas- and vacuum- tight
- Non-corrosive
- No catalytic side reactions
- Neutral to taste and odor
- Wear resistant
- No metal contamination

Configuration:

- Wet-milling
- Dry-milling
- Explosion-proof





Special applications

Together with and for our customers we develop new solutions in response to the challenges posed by new and changing applications.

Special valve applications:

- Double housed valve-body
- Valves with lock-fluid
- Valves with heat- or cooling- jacket
- Custom made housing materials
- Multi-way valves
- Sampling valves

Ceramic lined pipe systems:

- Junction boxes
- Cyclone or cyclone elements
- Nozzles
- Custom made pipe units
- Static mixers

Our experience with standard and custom solutions with application driven products can be used to satisfy similar requirements.

CERA SYSTEM's success is based on our ability to meet customer requirements for state of the art engineered ceramic solutions.

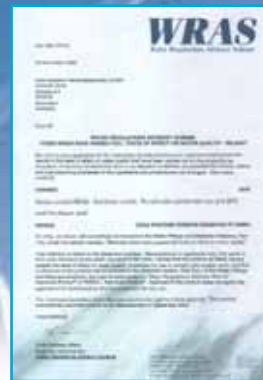
Please test and challenge our know-how!





More than Ceramics ... And you can believe it.

CERA SYSTEM's objective is to meet customer requirements for state of the art technical ceramics. CERA SYSTEM will support you before, during and after placing your order. We provide service, maintenance and technical consulting with our in house experience and know-how.



We provide the highest quality products with our technical expertise and modern production facilities and manufacture according to DI EN ISO 9001:2000.

Our materials are certified in accordance with KTW and WRc, we conform to the Pressure Equipment Directive 97/23/EC Module H and have TÜV certification as a supplier of safety valves for combustible liquids.

We constantly strive for cost effective technical ceramic solutions in order to give our customers the highest levels of performance.

We look forward to your inquiry.

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