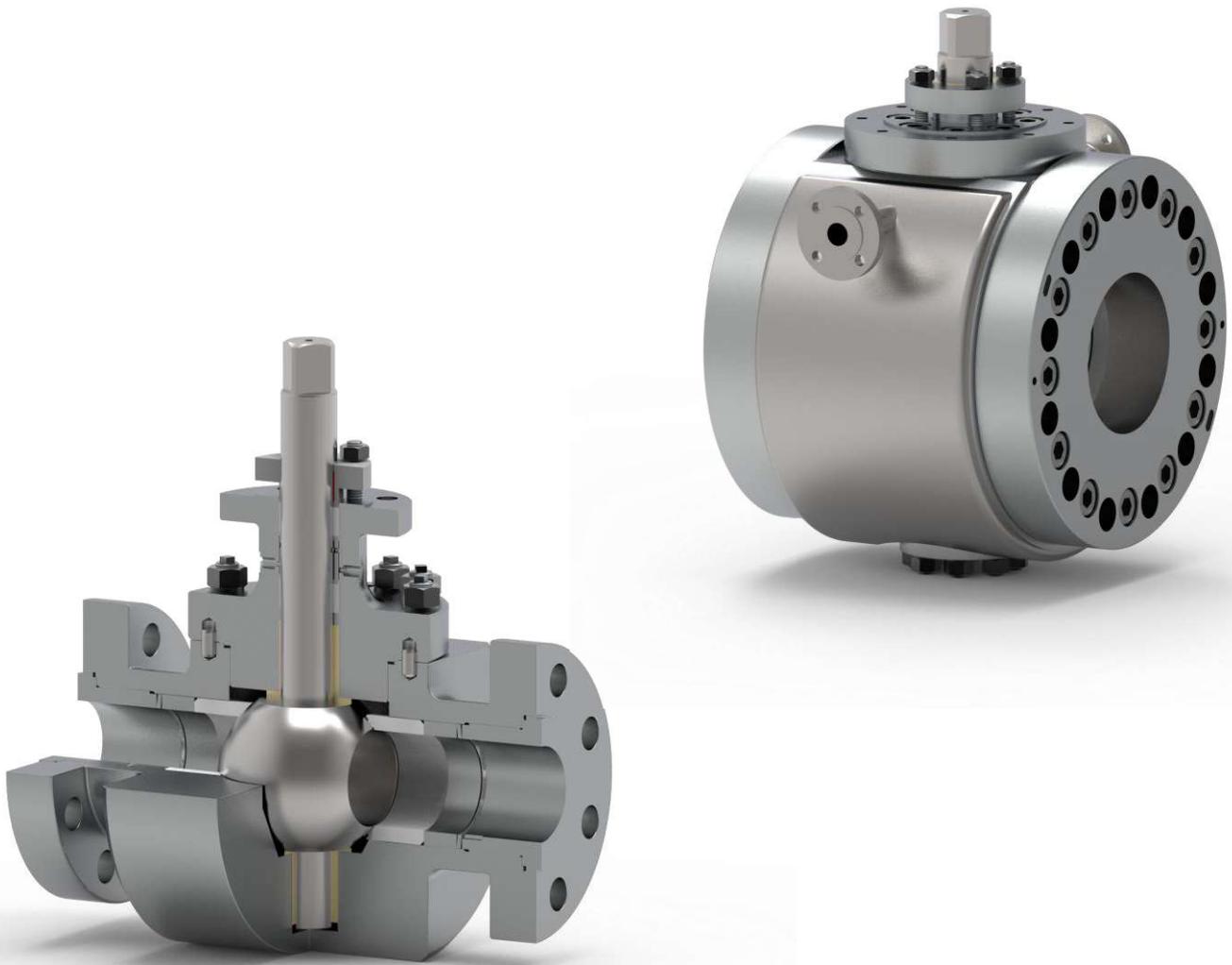


DKM&KKB[®]

THE EXPERTS IN FLUID HANDLING



Ball Valve Catalogue - 2026

High-end ball valves made in Germany by DKM&KKB.

2-Way Ball Valve



The two-way flanged ball valve serves as a shut-off valve, for example in water management, the chemical industry, and energy engineering, for safely stopping media flows. It is preferred for use in piping systems for oil, gas and aggressive liquids, where a high level of tightness is required. Thanks to its flange connections, it can be quickly installed in a pipeline and is easy to maintain.

Parameter	DIN	ASME
Nominal Size	DN10 – DN800	NPS1/8 – NPS32
Nominal Pressure	PN10 – PN420	Class 150 – Class 2500
Temperature Range	-196°C - +550°C	
Face to Face	DIN EN 558-1	ASME B16.10
Flange Connection	DIN EN 1092-1	ASME B16.5

Other requirements, nominal sizes, materials and pressure ratings on request

Design Details:

Body:	1/2/3 – piece
Ball bearing:	Mounted ball Floating
Stem:	Blow-out proof
Actuator flange:	ISO 5211
Antistatic design:	Optional
Dead space red.:	Minimized dead space (optional)
Stuffing Box:	Double Test gas connection Maintenance reduced

Materials:

Casting:	Carbon/Aust. stainless steel
Forging and bar:	Carbon/Aust. stainless steel
Sealing:	Graphite / PTFE
Inner parts:	DKM-Bearings / PEEK / PTFE
Any other material on request:	E.g.: 1.4539, 1.4462, 1.4470, 1.4501, Hastelloy, Titanium, Nickel, Inconel, Tantal

Certifications:

Directive:	DGRL 2014/68/EU
Design code:	DIN EN 16668 AD2000-A4 ASME (optional) API (optional)
Emissions:	ISO 15848-1 (optional) DIN EN 12266-1 Rate A
Inspection:	TA-Luft + VDI 2440 (optional) DIN EN ISO 10497 (optional)
Fire Safe	API 607 (optional)

Seat Ring Design:

Suspension:	Plate spring
Seat type:	Soft (PTFE/PEEK/Coal) Metallic (with coating)
Seat system:	Single/double piston DBB DIB

Compact Ball Valve



Compact ball valves are preferred for use in spatially limited systems in the chemical, pharmaceutical, and food industries due to their very short face-to-face length. They serve as space-saving shut-off valves in piping systems for liquids and gases where conventional flanged valves would be too large.

Parameter	DIN	ASME
Nominal Size	DN10 – DN400	NPS1/2 – NPS12
Nominal Pressure	PN10 – PN420	Class 150 – Class 2500
Temperature Range	-196°C - +550°C	
Face to Face	DIN EN 558-1	ASME B16.10
Flange Connection	DIN EN 1092-1	ASME B16.5

Other requirements, nominal sizes, materials and pressure ratings on request

Design Details:

Body:	1 – piece
Ball bearing:	Mounted ball Floating
Stem:	Blow-out-proof
Actuator flange:	ISO 5211
Antistatic design:	Optional
Dead space red.:	Minimized dead space (optional)
Stuffing Box:	Double Test gas connection Maintenance reduced

Materials:

Casting:	Carbon/Aust. stainless steel
Forging and bar:	Carbon/Aust. stainless steel
Sealing:	Graphite / PTFE
Inner parts:	DKM-Bearings / PEEK / PTFE
Any other material on request:	E.g.: 1.4539, 1.4462, 1.4501, Hastelloy, Titanium, Nickel, Inconel, Tantal

Certifications:

Directive:	DGRL 2014/68/EU
Design code:	DIN EN 16668 AD2000-A4 ASME (optional) API (optional)
Emissions:	ISO 15848-1 (optional) DIN EN 12266-1 Rate A
Inspection:	TA-Luft + VDI 2440 (optional) DIN EN ISO 10497 (optional)
Fire Safe	API 607 (optional)

Seat Ring Design:

Suspension:	Plate spring
Seat type:	Soft (PTFE/PEEK/Coal) Metallic (with coating)
Seat system:	Single/double piston DBB

Granulate Ball Valves



The granulate ball valve is used specifically for shutting off bulk materials, powders, and granulates. It is also used in plant engineering for the plastics, chemical, and food industries. Its design is optimized for handling abrasive and powdery media in order to reduce clumping and sticking.

Parameter	DIN	ASME
Nominal Size	DN25 – DN600	NPS1 – NPS24
Nominal Pressure	PN10 – PN100	Class 150 – Class 600
Temperature Range	-60°C - +550°C	
Face to Face	DIN EN 558-1	ASME B16.10
Flange Connection	DIN EN 1092-1	ASME B16.5

Other requirements, nominal sizes, materials and pressure ratings on request

Design Details:

Body:	2/3 – piece
Ball bearing:	Mounted ball Floating
Stem:	Blow-out-proof
Actuator flange:	ISO 5211
Antistatic design:	Optional
Dead space red.:	Minimized dead space (optional)
Stuffing Box:	Double Test gas connection Maintenance reduced

Materials:

Casting:	Carbon/Aust. Stainless steel
Forging and bar:	Carbon/Aust. Stainless steel
Sealing:	Graphite / PTFE
Inner parts:	DKM-Bearings / PEEK / PTFE
Any other material on request:	E.g.: 1.4539, 1.4462, 1.4470, 1.4501, Hastelloy, Titanium, Nickel, Inconel, Tantal

Certifications:

Directive:	DGRL 2014/68/EU
Design code:	DIN EN 16668 AD2000-A4 ASME (optional) API (optional)
Emissions:	ISO 15848-1 (optional) DIN EN 12266-1 Rate A
Inspection:	TA-Luft + VDI 2440 (optional) DIN EN ISO 10497 (optional)
Fire Safe	API 607 (optional)

Seat Ring Design:

Suspension:	Plate spring
Seat type:	Soft (PTFE/PEEK/Coal) Metallic (with coating)
Seat system:	Single/double piston

Bottom Outlet Ball Valves



Bottom outlet ball valves are used as dead space reduced shut-off valves at the lowest point of vessels, tanks, and reactors in the pharmaceutical, chemical, and food industries. They enable vessels to be emptied almost completely. Such ball valves can also be designed for handling granulates and as filling valves.

Parameter	DIN	ASME
Nominal Size	DN25 – DN600	NPS1 – NPS24
Nominal Pressure	PN10 – PN250	Class 150 – Class 1500
Temperature Range	-60°C - +550°C	
Face to Face	DIN EN 558-1	ASME B16.10
Flange Connection	DIN EN 1092-1 / customized	ASME B16.5 / customized

Other requirements, nominal sizes, materials and pressure ratings on request

Design Details:

Body:	2/3 – piece
Ball bearing:	Mounted ball Floating
Stem:	Blow-out-proof
Actuator flange:	ISO 5211
Antistatic design:	Optional
Dead space red.:	Minimized dead space (optional)
Stuffing Box:	Double Test gas connection Maintenance reduced

Materials:

Casting:	Carbon/Aust. Stainless steel
Forging and bar:	Carbon/Aust. Stainless steel
Sealing:	Graphite / PTFE
Inner parts:	DKM-Bearings / PEEK / PTFE
Any other material on request:	E.g.: 1.4539, 1.4462, 1.4470, 1.4501, Hastelloy, Titanium, Nickel, Inconel, Tantal

Certifications:

Directive:	DGRL 2014/68/EU
Design code:	DIN EN 16668 AD2000-A4 ASME (optional) API (optional)
Emissions:	ISO 15848-1 (optional) DIN EN 12266-1 Rate A
Inspection:	TA-Luft + VDI 2440 (optional) DIN EN ISO 10497 (optional)
Fire Safe	API 607 (optional)

Seat Ring Design:

Suspension:	Plate spring
Seat type:	Soft (PTFE/PEEK/Coal) Metallic (with coating)
Seat system:	Single/double piston

Multi-Way Ball Valves



Multi-way ball valves are used to distribute, mix, or divert material flows in complex piping systems in process engineering and plant construction. They enable multiple pipe routes to be controlled simultaneously with just one valve, which saves space and reduces the potential for errors. Depending on the application, different flange positions and ball bore shapes are possible.

Parameter	DIN	ASME
Nominal Size	DN15 – DN400	NPS1/2 – NPS16
Nominal Pressure	PN10 – PN420	Class 150 – Class 2500
Temperature Range	-60°C - +550°C	
Face to Face	DIN EN 558-1	ASME B16.10
Flange Connection	DIN EN 1092-1	ASME B16.5

Other requirements, nominal sizes, materials and pressure ratings on request

Design Details:

Body:	Multi-piece
Ball bearing:	Mounted ball Floating
Stem:	Blow-out-proof
Actuator flange:	ISO 5211
Antistatic design:	Optional
Dead space red.:	Minimized dead space (optional)
Stuffing Box:	Double Test gas connection Maintenance reduced

Materials:

Casting:	Carbon/Aust. Stainless steel
Forging and bar:	Carbon/Aust. Stainless steel
Sealing:	Graphite / PTFE
Inner parts:	DKM-Bearings / PEEK / PTFE
Any other material on request:	E.g.: 1.4539, 1.4462, 1.4470, 1.4501, Hastelloy, Titanium, Nickel, Inconel, Tantal

Certifications:

Directive:	DGRL 2014/68/EU
Design code:	DIN EN 16668 AD2000-A4 ASME (optional) API (optional)
Emissions:	ISO 15848-1 (optional) DIN EN 12266-1 Rate A
Inspection:	TA-Luft + VDI 2440 (optional) DIN EN ISO 10497 (optional)
Fire Safe	API 607 (optional)

Seat Ring Design:

Suspension:	Plate spring
Seat type:	Soft (PTFE/PEEK/Coal) Metallic (with coating)
Seat system:	Single/double piston

Engineered Ball Valves



Do you have special requirements for your ball valve? Then feel free to contact us! We manufacture ball valves with special dimensions, from customer-specific materials, or even with special attachments or heating jackets – tailored to your requirements.

Parameter	DIN	ASME
Nominal Size	DN25 – DN800	NPS1 – NPS32
Nominal Pressure	PN10 – PN1000	Class 150 – Class 15000
Temperature Range	-196°C - +1000°C	
Face to Face	DIN EN 558-1	ASME B16.10
Flange Connection	DIN EN 1092-1 / customized	ASME B16.5 / customized

Other requirements, nominal sizes, materials and pressure ratings on request

Design Details:

Body:	1/2/3 – piece
Ball bearing:	Mounted ball Floating
Stem:	Blow-out-proof
Actuator flange:	ISO 5211
Antistatic design:	Optional
Dead space red.:	Minimized dead space (optional)
Stuffing Box:	Double Test gas connection Maintenance reduced

Materials:

Casting:	-
Forging and bar:	Carbon/Aust. Stainless steel Customer specific material
Sealing:	Graphite / PTFE
Inner parts:	DKM-Bearings / PEEK / PTFE
Any other material on request:	E.g.: 1.4539, 1.4462, 1.4501, Hastelloy, Titanium, Nickel, Inconel, Tantal

Certifications:

Directive:	DGRL 2014/68/EU
Design code:	DIN EN 16668 AD2000-A4 ASME (optional) API (optional)
Emissions:	ISO 15848-1 (optional) DIN EN 12266-1 Rate A
Inspection:	TA-Luft + VDI 2440 (optional) DIN EN ISO 10497 (optional)
Fire Safe	API 607 (optional)

Seat Ring Design:

Suspension:	Plate spring
Seat type:	Soft (PTFE/PEEK/Coal) Metallic (with coating)
Seat system:	Single/ double piston DBB DIB

Almost all **DKM & KKB ball valve types with chambered seat rings** can be converted into **control valves**, offering a cost-effective and robust solution for flow control applications.

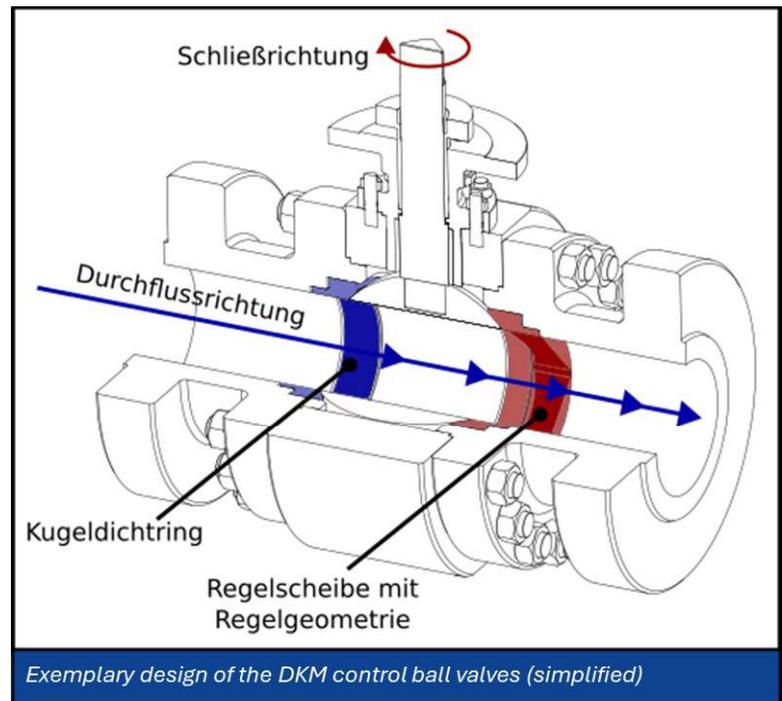
Design Concept

Separated Switching and Control Functions

- Control function integrated in a separate control disk
- Flow control on the outlet side

Advantages:

- Significantly reduced wear on the ball
- Clear functional separation:
 - Switching function via the ball
 - Control function via the control disk
- No need for expensive, specially machined balls
- Cost-effective replacement of the wear-intensive control geometry



Seat Ring Options

- Inlet-side seat ring
- Double-sided seat rings available

Control Geometry

- Geometry according to customer specifications
- Proven DKM & KKB standard geometries
- Optional: custom control geometry designed by DKM & KKB

Design Basis

- Design based on the target KV characteristic curve
- Suitable for:
 - Incompressible fluids
 - Ideal gases (approximate design)
- Material properties of the fluid must be known and considered during design

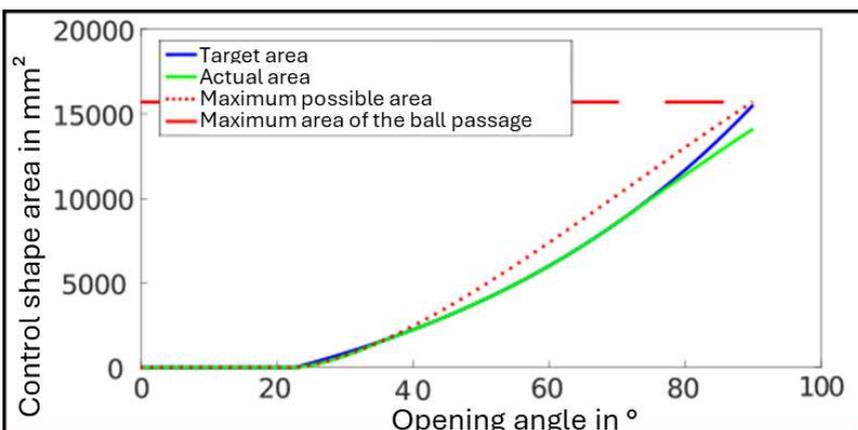
Testing & Validation

- Optional determination of the real characteristic curve
- Validation through measurement and testing

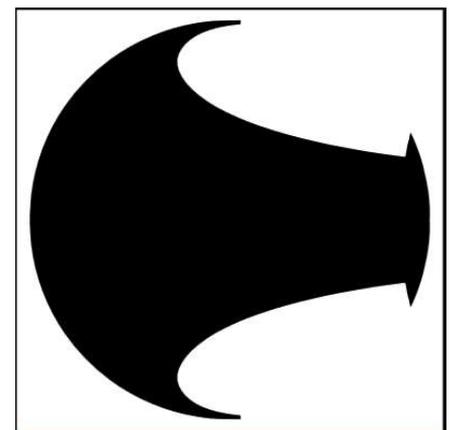
Manufacturing of the Control Disk

Manufacturing method selected according to geometry and application requirements:

- Precision milling
- Water jet cutting



Exemplary evaluation of a control geometry design



Example of a control geometry

We offer various (after-market) services for our customers:

- Support of the entire product life cycle from enquiry to commissioning and inspection service
 - Complete installation and training for all products (supervision)
 - Guaranteed spare part and maintenance kit availability
 - Repairs and overhauls
- Durability and efficiency over the entire product life cycle**



Retrofit and reverse engineering (also for third-party manufacturers):

- Material changes or material upgrade
- Product Life Cycle Extension
- Increase in system availability / reduction of maintenance costs
- Increasing system efficiency through energy savings
- Ensuring the supply of spare parts (e.g. if the OEM is no longer available or parts can no longer be delivered)
- Compliance with changed legal requirements

DKM&KKB[®]

THE EXPERTS IN FLUID HANDLING



Made in Germany

In-house development and production in Germany



Engineered

Special designs and individual customer solutions can be realised



Fast & Flexible

Short response times and flexible adjustments



Cost Efficient

Advanced products leading to low Total Lifecycle Cost



Personal

Direct contact person and cooperative partnership



Service

Long-term availability of spare parts and worldwide technical support



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