## OVERVIEW

Kugelhahn Müller flanged ball valves feature maintenance-free and durable adjustable live-loaded PTFE stem sealing or O-Ring sealing system with certified packing.
This design has proven to ensure an extreme long service life and meets the highest quality requirements in the Chemical Industry worldwide.
A wide range of accessories and special materials enable high flexibility and ensure customer requirements.

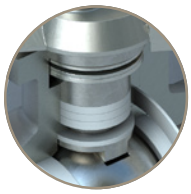
### APPLICATIONS

- Chemical gases
- Chemical fluids
- Petrochemicals
- Food & Beverage (FDA)
- Pharmaceutical
- Water and Wastewater treatment

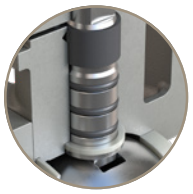
### MEDIA

- Acids
- Alkalis
- Corrosive Chemicals
- Gases
- Hydrogen
- Oxygen
- Water

**PTFE PACKING**



**O-RING SEALING**



## SPECIFICATIONS

| | | |
|---|---|---|
| **Size Range** | DN 15 to 200 | |
| **Temperature Range** | PTFE: | -60°C to 200°C |
| | O-Ring: | -25°C to 200°C |
| **Maximum Operating Pressure** | 40 bar | |
| **Body Style** | Two-piece flanged | |
| **Port** | Full Port | |
| **Tightness Test** | EN 12266-1 Rate A | |

## DESIGN STANDARDS

| | |
|---|---|
| **Valve Design** | EN 12569 \| EN 593 \| NE 167 |
| **Material Standard** | EN 16668 \| AD2000 W0 |
| **Food Contact** | EC 1935 |
| **Marking** | EN 19 \| DIN EN IEC 61406* \| DIN 91406* |
| **Top Flange** | ISO 5211 |
| **Flange Drilling** | EN 1092-1 PN 10, 16, 25, 40 |
| **Face-to-Face** | EN 558 Series 1 \| Series 27 |
| **Testing Standard** | EN 12266-1 |

**NOTES**
Other flange patterns are available on request.
Customer specification and standards on request.
* AutoID available shortly.

## MATERIAL OPTIONS[1]

| | |
|---|---|
| **Body** | Carbon Steel (EN 1.0619) |
| | Stainless Steel (EN 1.4408) |
| **Ball** | Stainless Steel (EN 1.4408) |
| | Stainless Steel (EN 1.4404) |
| **Stem** | Stainless Steel (EN 1.4462) |
| **Seat** | PTFE/25% GFR |
| | PTFE/50% VA |
| | Virgin PTFE (FDA) |
| **Packing** | PTFE |
| | Viton® (FKM) |

**NOTES**
1 Other materials are available on request.

## CERTIFICATIONS AND APPROVALS

| | |
|---|---|
| **Declaration of Conformity** | CE \| UKCA |
| **Pressure Equipment Directive** | 2014/68/EU \| PE(S)R |
| **Machinery Directive** | 2006/42/EC |
| **Atmospheric Explosion** | ATEX 2014/34/EU |
| **Fugitive Emissions** | ISO 15848-1 \| TA Luft VDI 2440 |
| **AutoID / ID Link** | DIN 91406 / IEC 61406 |
| **Safety Integrity Level** | IEC 61508 Parts 1-2 and 4-7:2010 |
| **Fire-Safe (optional)** | ISO 10494 \| API 607 |

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## FEATURES & BENEFITS

1 **HAND LEVER:** Stainless steel lockable hand lever with a position indicator.

2 **BODY:** Robust two-piece body design suitable for heavy-duty applications in multiple industries. A wide range of flange connections are available.

3 **BALL:** Floating full bore design made of polished stainless steel.

4 **SEAT:** Seat design ensures bidirectional zero-leakage sealing under all pressure and temperature conditions.

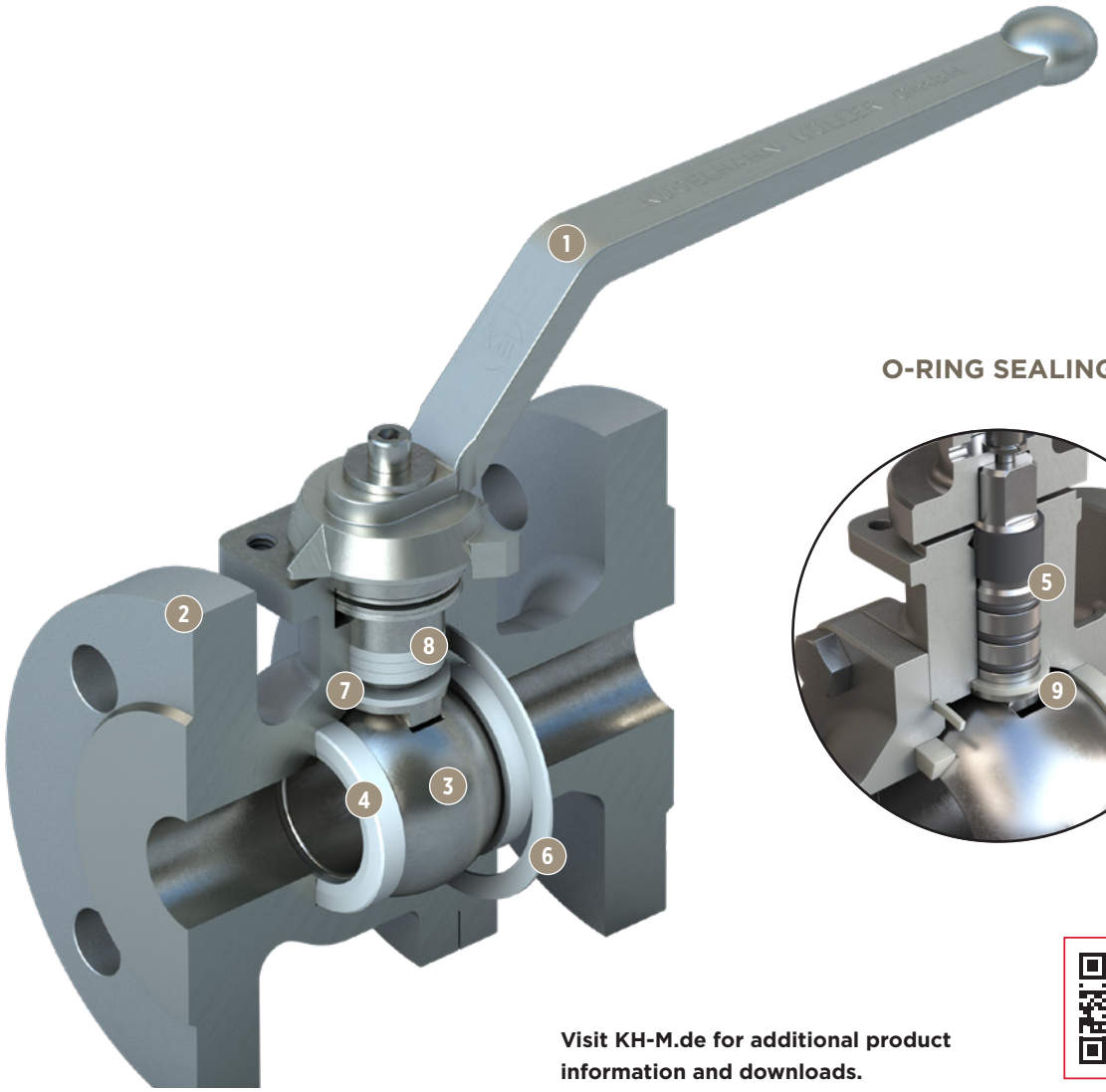
5 **STEM:** Heavy-duty, blowout-proof stem with “Double D” connection according to ISO 5211 for mounting of various hand levers, adapters, actuators and stem extensions.

6 **BODY SEAL:** Chambered body seal design to ensure outstanding sealing integrity.

7 **STEM PACKING:** Custom designed high integrity stem packing arrangement that combines a self-adjusting primary and secondary seal in order to ensure consistent torque and hightest possible tightness according to ISO 15848-1.

8 **PTFE PACKING:** The PTFE sealing system features a preloaded Belleville spring design with the benefit of optional re-adjustement.

9 **O-RING PACKING:** The O-Ring sealing system features an O-Ring arrangement of at least three O-Rings.




### O-RING SEALING

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