

# Ball Valves



**KTM**  
**Mecafrance**  
**VIRGO**  
**AEV**

## Two-Piece



### **KTM Series EB1** **Floating ball valves.**

High performance two-piece ball valve where fire-safe and fugitive emission compliance is mandatory.

#### **Features**

- Soft E-seat copolymer, Grati<sup>®</sup>, Metaltite<sup>®</sup>
- Compliance to ASME B16.34, API 608 and ISO 17292.
- Full and reduced bore options.
- Fire-tested and certified to API 607 and ISO 10497 (soft and metal seated).
- Fugitive emission compliant stem seal design to ISO 15848-1 Class BH C03 and API 641.
- Cryogenic design to -196°C / -321°F.
- Anti-static design acc to ISO 17292.
- Tightness to API 598 soft seat, ISO 5208 Rate A for soft seat and Rate B for metal seat, EN 12266-1 Rate A for soft seat and Rate B for metal seat.



### **KTM Novatite Extreme™** **Metal-seated ball valves.**

The first ever metal-seated ball valves to undergo Design Validation Testing for the entire -50°C to 500°C range.

#### **Features**

- API 608 and API 598 compliant.
- Extended bonnet design for API 607 (8th edition) / ISO 10497-2022 compliant fire-safe valve.
- Fugitive emissions performance compliant with API 641 / ISO 15858-1.
- Design Validation Testing, which involves mechanical and thermal cycling over entire temperature range, conducted from -50°C to 500°C using a single configuration.
- Surface hardening of ball and seat with Chrome Carbide via HVOF.



### **KTM Novatite Extreme™** **Cryogenic Metal-seated ball valves.**

Performance exceeding the requirements of international cryogenic service standards with low wear and maintenance.

#### **Features**

- Meets requirements of BS 6364 and ISO 28921-2.
- Short/long extended bonnets meet ISO 28921-1 mandated temperature limits.
- Fugitive emissions certified as per ISO 15848-1 Class BH C03.
- Unidirectional sealing capability offered as standard; bi-directional sealing capability available on request.
- Ball and seat hardened with Chrome Carbide / Tungsten Carbide.

Source:



Emerson Isolation  
Valves Product  
Overview

#### One-Piece



#### **KTM Series EB7** **Floating ball valves.**

KTM Fire-safe and Anti-Static ASME 150/300 one-piece, end entry, flanged ball valve for oil, gas, petrochemical and chemical industries.

#### **Features**

- Designed to ASME B16.34, API 608 and ISO 17292.
- Optional testing to API 6D / ISO 14313.
- Single piece end entry body design complies with ASME B16.34.
- ISO 5211 top mounting flange.
- Face-to-Face to API 6D / ASME B16.10 / BS 2080 / BS EN 558.2.
- One-piece body offers total pipe integrity minimizing the number of potential leak paths.
- Carbon steel or stainless steel body.
- Precision 316 stainless steel ball as standard.
- Blowout proof shouldered stem.
- Anti-static device.

#### **Applications**

Chemical, petrochemical, oil and gas

#### Three-Piece



#### **KTM Series RA** **Floating ball valves.**

Allows in-line welding without disassembly and one-bolt-removal for ease of maintenance.

#### **Features**

- Soft, metal and cryogenic seating options.
- Bubble-tight sealing to API 598 and EN 12266-1 Rate A.
- Integrated ISO top flange for easy automation.
- Cast body materials.
- Carbon steel and stainless steel body, stainless steel trim.
- Reduced and full bore options.
- Swing-out center for easy seat and gasket replacements.
- Butt weld, socket weld, threaded ends and flanged versions (EU only).

#### **Applications**

Chemical and pharmaceutical, food and beverage, marine, metals and mining, oil and gas, power and water

#### One and Two-Piece



#### **K-Ball Series 110 / 120** **Floating ball valves.**

Economical, investment cast, stainless steel floating ball valves with threaded ends.

#### **Features**

- Investment cast.
- Stainless steel construction.
- Threaded ends to BSPP, BSPT, NPT.
- Blow-out proof shaft.
- Locking device.
- Series 110
- One-piece
- Reduced bore
- Series 120
- Two-piece
- Full bore
- DIN 3202 M3 face-to-face
- Adjustable shaft packing

#### **Applications**

General industrial applications including water, oil, gas and chemical processes

#### Three-Piece



#### **K-Ball Series 155 / 172 / 182** **Floating ball valves.**

Three-piece, full and reduced bore floating ball valves.

##### **Features**

- Carbon steel or stainless steel bodies.
- Blow-out proof stem.
- Locking device.
- Tightness to EN 12266-1 Rate A and API 598.
- End connections:
  - Threaded ends to BSPP, BSPT, NPT.
  - Butt weld.
  - Socket weld.
  - Tri-clamp (F172 only).
- Seat material options available.
- Fire-tested valves available.
- Body construction - investment casting.

##### **Applications**

General industrial applications including water, oil, gas and chemical processes

#### Two-Piece



#### **K-Ball Series 194** **Floating ball valves.**

Full bore, two-piece, split-body floating ball valves with flanged ends.

##### **Features**

- Carbon steel or stainless-steel bodies.
- Fire safe configuration tested to API 607 8th Edition.
- Blow-out proof shaft.
- ISO 5211 top mounting plate.
- Anti-static design according to EN 1983 / ISO 17292.
- Tightness to API 598 / ISO 5208 Rate A / EN 12266-1 Rate A.
- Locking device (without lock).
- Available in ASME and AS 2129 Table E flange drillings.

##### **Applications**

General industrial applications including water, oil, gas and chemical processes

#### Cast Two and Three-piece



#### **KTM Series E01** **Trunnion mounted ball valves.**

Two-piece, bi-directional, cast body trunnion ball valves.

##### **Features**

- Energized soft and metal seated.
- Metaltite® metal seated option to 500°C / 932°F.
- Fully adjustable gland packing per API 608.
- Locking device.
- Cavity relief.
- Positive shut-off.
- Blow-out proof stem.
- Fugitive emission certified to ISO 15848-1, Class BH CO3 and API 641.
- Fire-safe construction.
- ISO integral mounting flange.
- Sulfide stress cracking resistant (compliant to NACE MR-01-75-2002).
- Suitable for cryogenic, vacuum and lethal/ toxic services.

##### **Applications**

Oil and gas, chemical, petrochemical, refineries, pulp and paper and power

#### Powder Handling



#### **KTM Series PDS** **Powder discharge system ball valves.**

Suitable for high speed and high frequency powder handling applications.

##### **Features**

- Superior seating to ANSI/FCI 70-2 Class V.
- Spring loaded seat assures tight sealing even at low pressure.
- Scraper design minimizes residual powder between ball and seat to maintain seal and smooth open-close action.
- Powder proof devices around seat areas shield against contaminants.
- Non-lubricated dry PEEK bearing with low friction provides high abrasion resistance.

##### **Applications**

High cycle powder applications such as polyethylene and polypropylene production