



# SPECIAL SERVICE ball valves



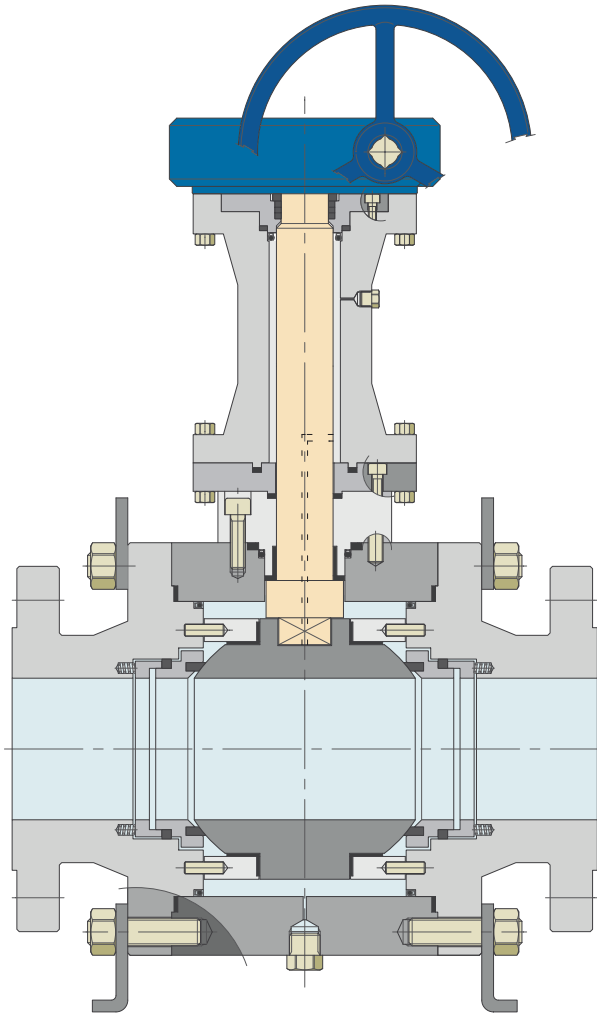


# ART. 185

## *Cryogenic*

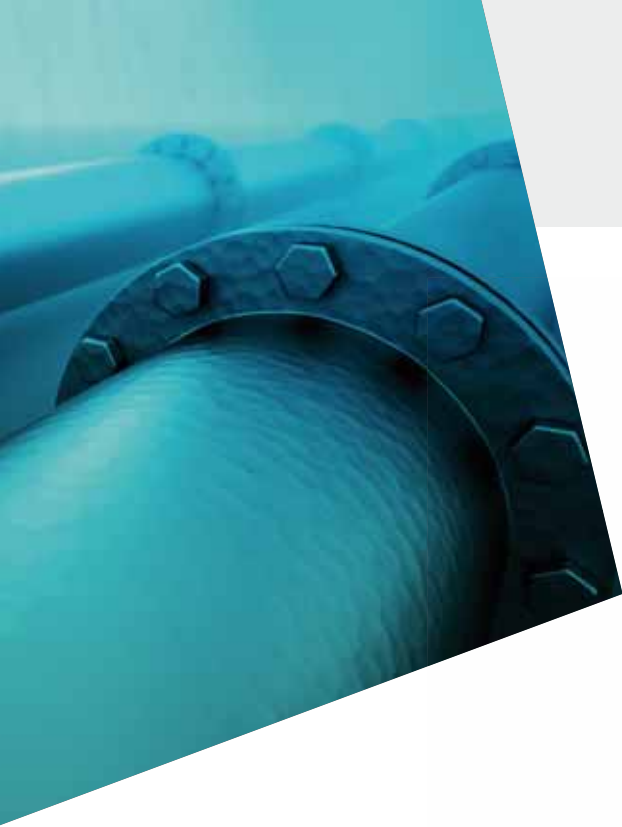
Cryogenic valves are designed to withstand temperatures down to  $-196^{\circ}\text{C}$ . All metallic parts are manufactured in stainless steel, while the soft parts are realized in proper special materials suitable for this so severe application.

Normally, the seats are in Poli-Chloro-Tri-Fluoro-Ethylene (PCTFE - Kel-F®) and PTFE lip seals insure the sealing of all dynamic components. Valve bonnet is extended to keep a vapor room, to avoid the contact of liquid cryogenic media to the gland.



### *Options*

- locking device
- double piston effect
- metal to metal seat
- RF - RJ - HUB - BW ends
- Gear, pneumatic, hydraulic, electric motor operated

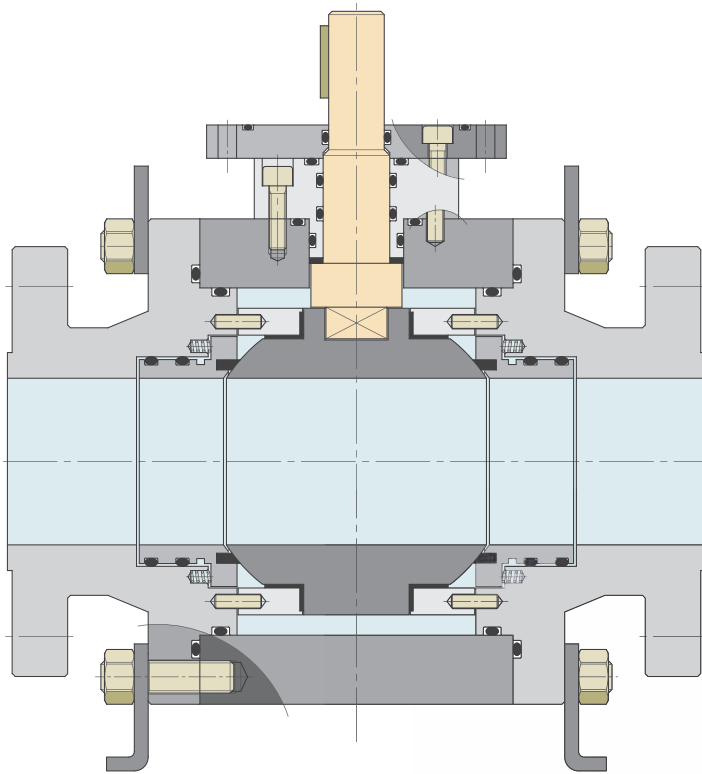


## ART. 285

### *Subsea*

Subsea ball valves can be manufactured in bolted body or welded body execution. Bolted valves are provided with a double body to closure sealing. The first sealing is to avoid the leakage to the external environment, while the second is to not permit to the sea water to get into the valve. A special sealing is applied to insulate completely the process fluid to the environment. Special gearboxes or ROV receptacles are installed to be operated at the highest water depths. *Maximum depth 2000 m.*

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### Options

- lip-seal
- double piston effect
- metal to metal seat
- RF - RJ - HUB - BW ends
- Special gear for subsea application
- Actuator for subsea application

Further details see paragraph [technical information](#)

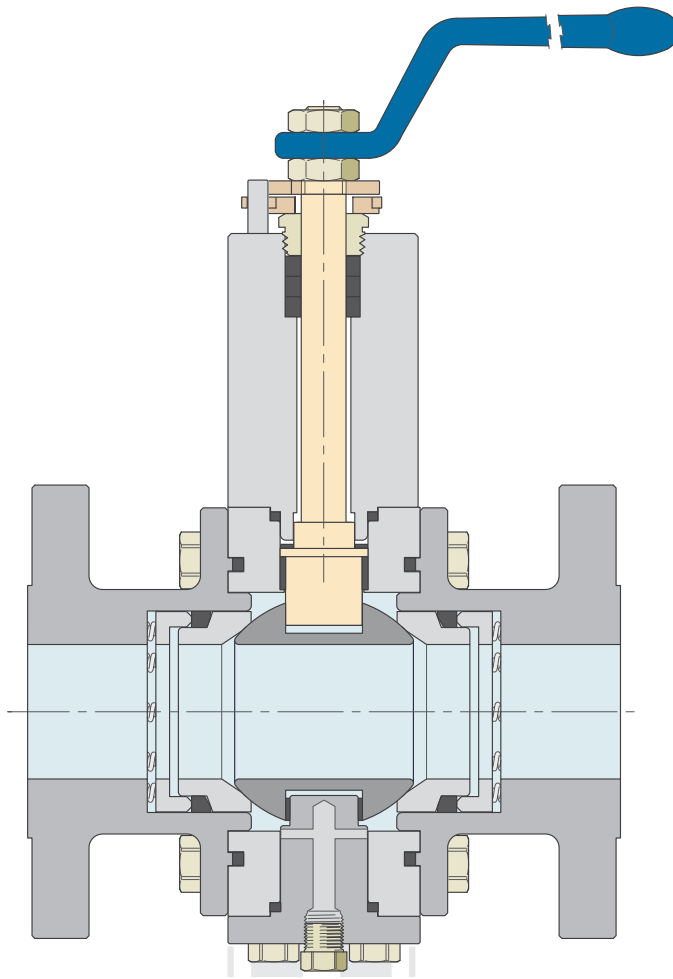




# ART. 385

## *High Temperature*

High Temperature ball valves are normally provided with metal to metal seats and adjustable graphite gland packing. No soft parts are considered, due to the temperature which can reach more than **600°C**. All metallic parts are realized in forged special steels. Ball and seats hardfacing is with chromium carbides or tungsten carbide. A stem extension may also be provided to facilitate the operation of the valve.



### Options

- locking device
- extended stem
- double piston effect
- RF - RJ - HUB - BW ends
- Gear, pneumatic, hydraulic, electric motor operated



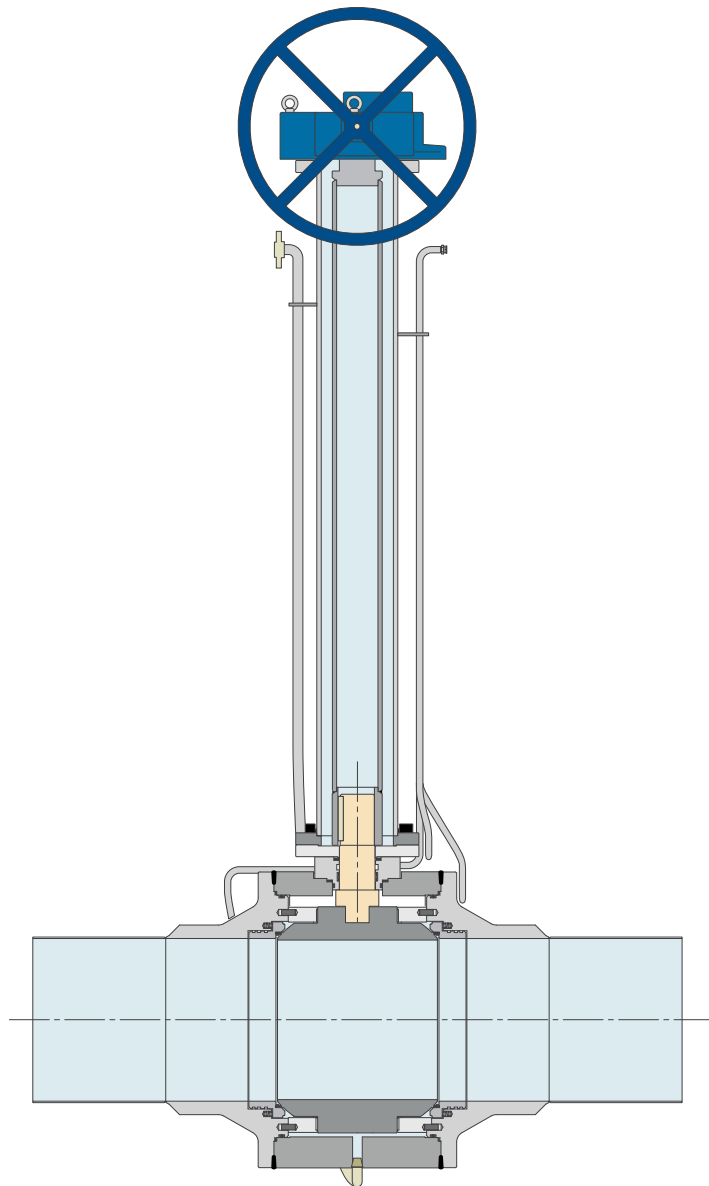
## ART. 485

### *Underground*

Underground ball valves are usually provided in fully welded body execution with butt welding ends. For this application valves are provided with an extended stem; drain, vent and emergency sealant lines are fitted at the top of the extension.

Suitable for all services and customized on project and customer requirement





### Options

- locking device
- extended stem
- lip-seal
- double piston effect
- metal to metal seat
- RF - RJ - HUB - BW ends
- Gear, pneumatic, hydraulic, electric motor operated

Further details see paragraph [technical information](#)



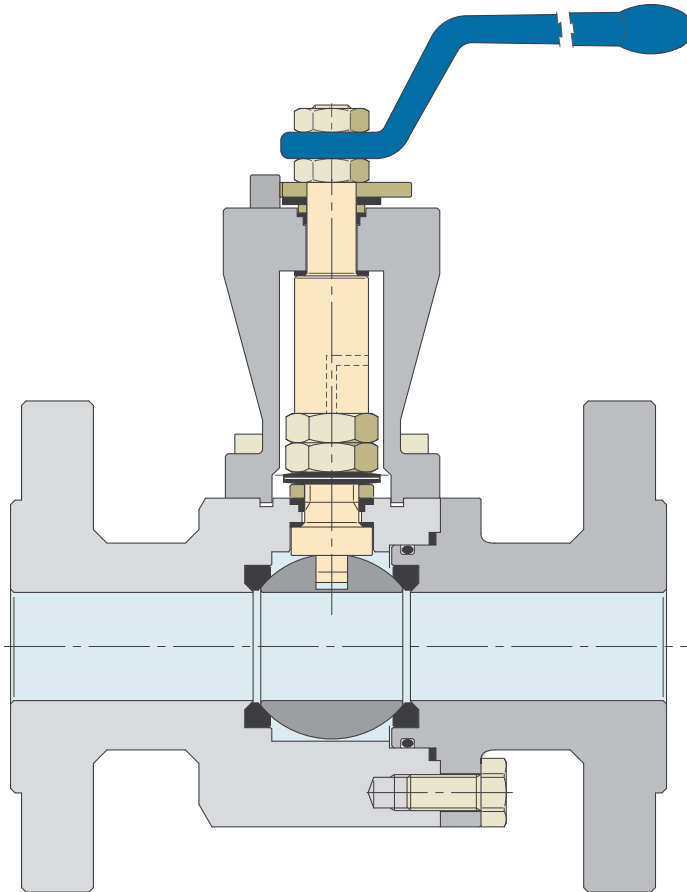


# ART. 175 ART. 122

## *Cryogenic*

Cryogenic valves are designed to withstand temperatures down to  $-196^{\circ}\text{C}$ . All metallic parts are manufactured in stainless steel, while the soft parts are realized in proper special materials suitable for this so severe application.

Normally, the seats are in Poli-Chloro-Tri-Fluoro-Ethylene (PCTFE - Kel-F®) and PTFE lip seals insures the sealing of all dynamic components. Valve bonnet is extended to keep a vapor room, to avoid the contact of liquid cryogenic media to the gland.



### *Options*

- locking device
- double piston effect
- metal to metal seat
- RF - RJ - HUB - BW ends.
- Gear, pneumatic, hydraulic, electric motor operated

Further details see paragraph *technical information*



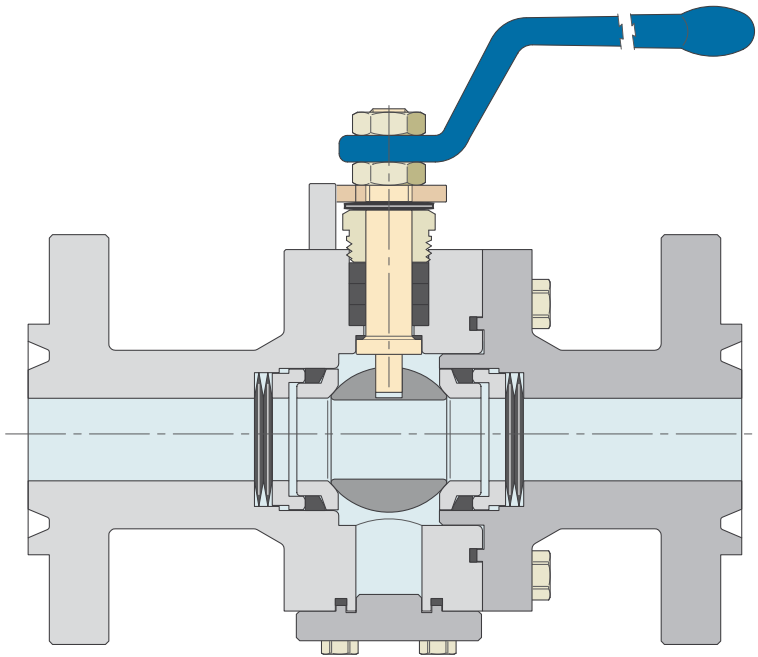


# ART. 375

## *High Temperature*

High Temperature ball valves are normally provided with metal to metal seats and adjustable graphite gland packing. No soft parts are considered, due to the temperature which can reach more than **600°C**. All metallic parts are realized in forged special steels. Ball and seats hardfacing is with chromium carbides or tungsten carbide. A stem extension may also be provided to facilitate the operation of the valve.

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### *Options*

- locking device
- extended stem
- double piston effect
- RF - RJ - HUB - BW ends
- Gear, pneumatic, hydraulic, electric motor operated

Further details see paragraph *technical information*





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