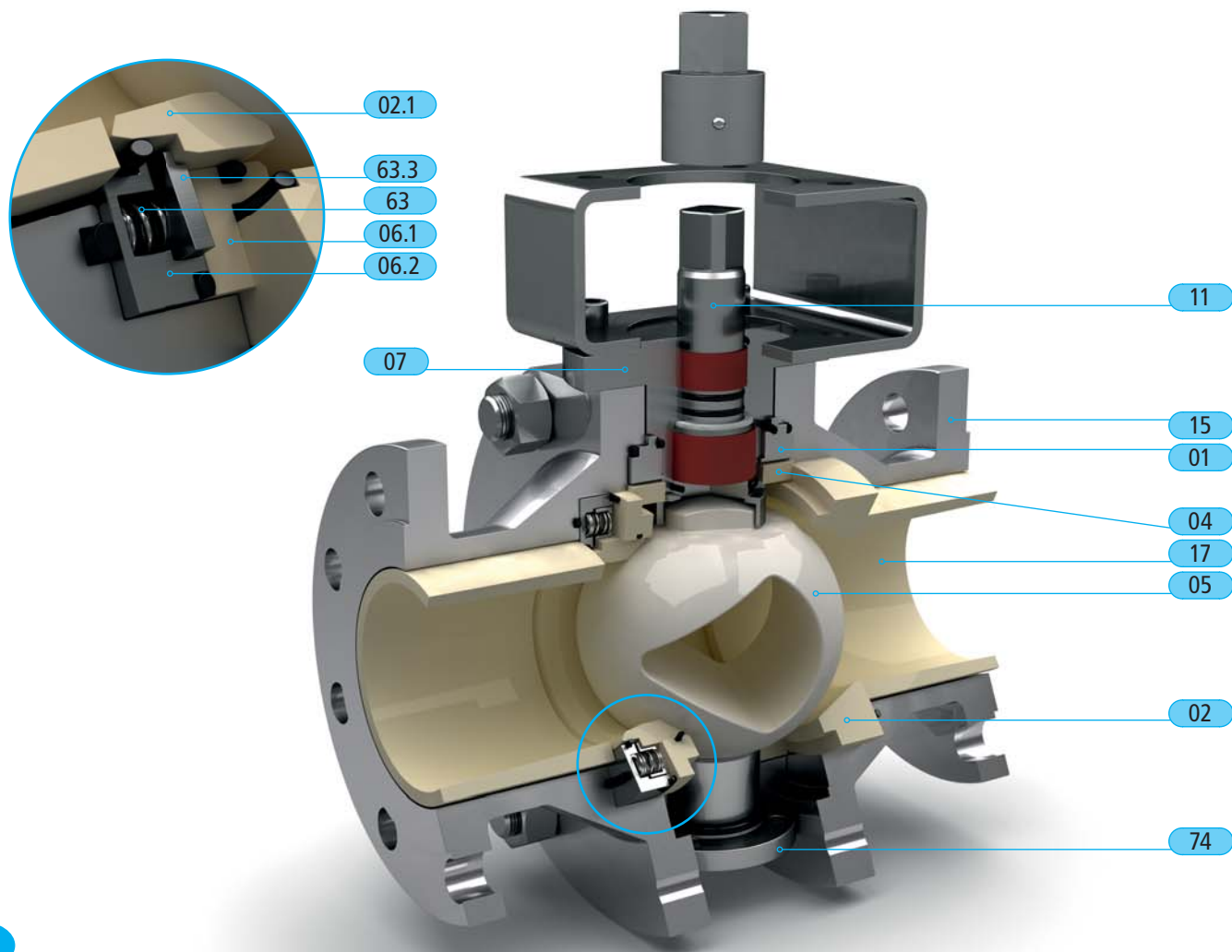


## BALL VALVE • KGT

### MATERIALS / MATERIAL OPTIONS:



Item	Part description	Materials	Material options
01	Housing	1.4301	1.4462 - 1.4571 - 1.4539 - C22.8 - 3.7035
02	Cone sleeve	Al <sub>2</sub> O <sub>3</sub>	Si <sub>3</sub> N <sub>4</sub> - SSiC - ZrO <sub>2</sub>
02.1	Spring loaded seat ring	Al <sub>2</sub> O <sub>3</sub>	Si <sub>3</sub> N <sub>4</sub> - SSiC - ZrO <sub>2</sub>
04	Ball socket	Al <sub>2</sub> O <sub>3</sub>	Si <sub>3</sub> N <sub>4</sub> - SSiC
05	Ball	ZrO <sub>2</sub>	Si <sub>3</sub> N <sub>4</sub> - WoC -2.4605 - 1.4112
06.1	Holding ring	Al <sub>2</sub> O <sub>3</sub>	1.4301
06.2	Pressure ring spring	1.4301	1.4462
06.3	Pressure ring seat	1.4301	1.4462
07	Packing housing	1.4301	1.4462 - 1.4571 - 1.4539 - C22.8 - 3.7035
11	Stem shaft	1.4462	3.7035 - Tantal
15	Flange	1.4301	1.4462 - 1.4571 - 1.4539 - C22.8 - 3.7035
17	Wear protection sleeve	Al <sub>2</sub> O <sub>3</sub>	Si <sub>3</sub> N <sub>4</sub> - SSiC
63	Pressure spring	1.4310	
74	Counter bearing trunnion	1.4301	1.4462 - 1.4571 - 1.4539 - C22.8 - 3.7035
	O-rings	FKM(Viton)	FFKM (Kalrez) - Viton/FEP
	Seals	FKM(Viton)	PTFE - Graphite
	Bearing bushes	PTFE	Stellite
	Screws / nuts	A2-/A4-70	

## **FUNCTION:**

The CeraValve type KGT is a ball valve with ceramic lining for open/close function and control tasks to be used in excessively abrasive media. It is to be preferably used for solid particles outfeed if special requirements are placed on the stem sealing, on the housing materials (titanium) or if there are very high or very low operating temperatures and high pressures.

On the outlet side, the ball valve has a cone sleeve instead of a seat ring. The pressurisation should take place in the direction of flow-through.

The function is based on a trunnion mounted ball. The seat ring is resilient.

The round geometrical shape of the ball bore is standard.

This ball valve has a "three part body" design. Consequently, it can be adapted to existing pipelines and the flow and control characteristics can be optimised.

These valves are available with manual lever or gear box, as well as with pneumatic, electric and hydraulic actuators. The actuator is mounted by means of a yoke and adapter arrangement. All customary actuators can be used as part-turn valve actuators. Special connections are possible.

## **NOMINAL SIZE RANGE:**

Flange connections DN 65 (2 1/2") up to DN 300 (12")

Center housing: DN 65 (2 1/2") to DN 150 (6")

## **PRESSURE RANGE:**

PN 10 to PN 63

ANSI class 150, class 300, and class 600

Other nominal pressure ranges on request

## **OVERALL LENGTH:**

according to EN 558-1 Series 1+27

according to ASME / ANSI B16.10 / EN 558-2 Series 37+38

## **OPTIONS:**

all metallic materials for the housing

Fire-safe design

TA-Luft design

High / low temperature design

Wafer-type

## **TEMPERATURE RANGE:**

Standard: -30 °C to +180 °C / -22 °F to +356 °F

Up to 310 °C / 590 °F possible with Kalrez + graphite

## **TYPICAL APPLICATION AREAS:**

### **Steel works:**

- Silo expansion valve with low seat leakage (ANSI class V)
- Pneumatic conveying of carbon powder, quartz, carbide...

### **Silicon:**

- Conveying of silicon powder
- Silicon conveyor silo expansion valve

### **Petrochemistry:**

- Dosing of FCC cat cracker (Al<sub>2</sub>O<sub>3</sub> powder)

### **Mining:**

- Dosing and conveying of copper concentrate
- Copper conveying silo expansion valve