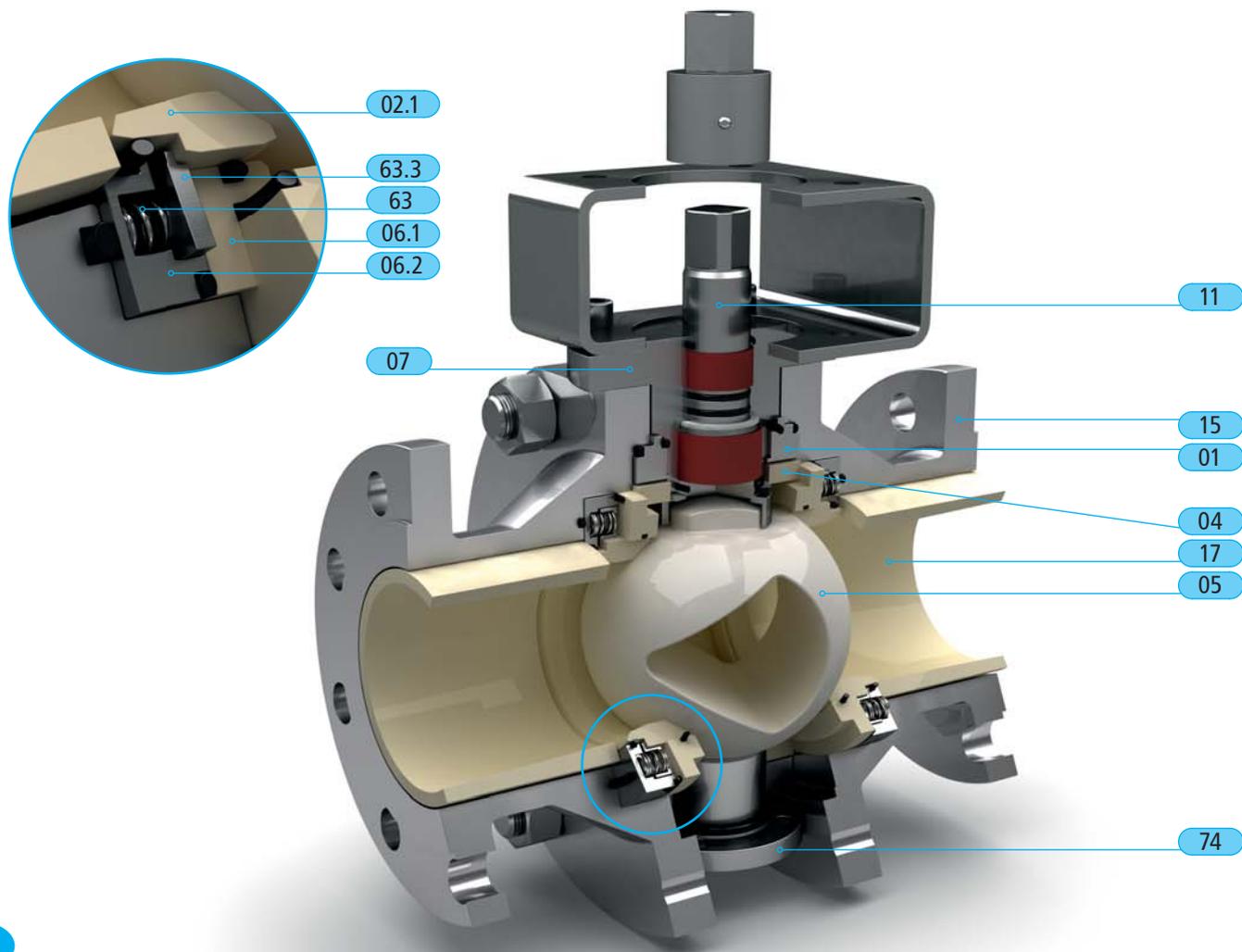


BALL VALVE • KZT

MATERIALS / MATERIAL OPTIONS:



Item	Part description	Materials	Material options
01	Housing	1.4301	1.4462 - 1.4571 - 1.4539 - C22.8 - 3.7035
02.1	Spring loaded seat ring	Al ₂ O ₃	Si ₃ N ₄ - SSiC - ZrO ₂
04	Ball socket	Al ₂ O ₃	Si ₃ N ₄ - SSiC
05	Ball	ZrO ₂	Si ₃ N ₄ - WoC -2.4605 - 1.4112
06.1	Holding ring	Al ₂ O ₃	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 ₂ O ₃	Si ₃ N ₄ - 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 KZT is a ball valve with ceramic lining for open/close function and control tasks to be used in excessively abrasive and corrosive media. It is to be preferably used 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. The valve can be pressurised from both sides. The function is based on a trunnion mounted ball. The seats are spring-loaded. The upstream seat primarily seals.

The ¼-turn movement of the ball between 0 and 90° releases an accurately defined opening cross-section.

The geometric shape of the ball defines the function and control characteristics.

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:

Similar applications to KGT, with pressure load on both sides however.

Petrochemistry:

- Catalyst container valve

Pneumatic conveying:

- at higher operating pressures (trunnion mounted balls)
suitable for: Silicon, lime, coal, cement, glass....

Mining:

- Ore conveying, ore dosing, copper concentrate....