

MODEL

T500 / T500Bi



HIGH PRESSURE KNIFE GATE VALVE

The model 500 is a flanged unidirectional or bidirectional knife gate valve. It is designed for high pressure applications, up to PN25. Single piece monoblock body with internal wedges and screwed down bonnet to guarantee the tightness.

Application fields such as:

- Water & wastewater treatment plants
- Powerplants
- Chemical industry
- Mining
- Biomass
- Paper pulp
- Bulk handling

Sizes: DN 150 to DN 1600 (Bigger sizes on request)

Working pressure: DN 150 to DN 800: 25 bar
DN 900 to DN 1600: 10 bar

Standard flange connection: EN1092 PN 10/16/25 (others on request)
ANSI B16.5 (others on request)

Directives:

- 2006/42/EC (machines)
- 2014/68/EU (PED). Fluid: Group 2 (Cat. I. mod. A)
- 2014/34/EU (ATEX) (contact sales department)

* RAL 5015 blue coating on carbon steel components.
(Specific RALs under demand)

* Higher pressure conditions, please check with the manufacturer.

* All valves are tested according to UNE-EN 12266-1.

DESIGN FEATURES

Main features:

- Single piece cast body with screwed down bonnet to avoid leak to atmosphere.
- Gate with rounded edges to prolong working life of the seat.
- Internal reinforced parts to work under high pressure conditions.
- Flow direction arrow on the body showing the correct mounting position.

Body:

- One piece monoblock body design in different materials A216WCB, CF8M, CF8, 654SMO, SAF2505, SAF2507, UB6 / 904L....

Gate

- Stainless steel both sides polished gate to guarantee perfect tightness and length seat durability.

Seat:

- Many different quality of sealing elements EPDM, NBR, Viton, Silicone, FDA silicone, PTFE, RPTFE, Graphite...

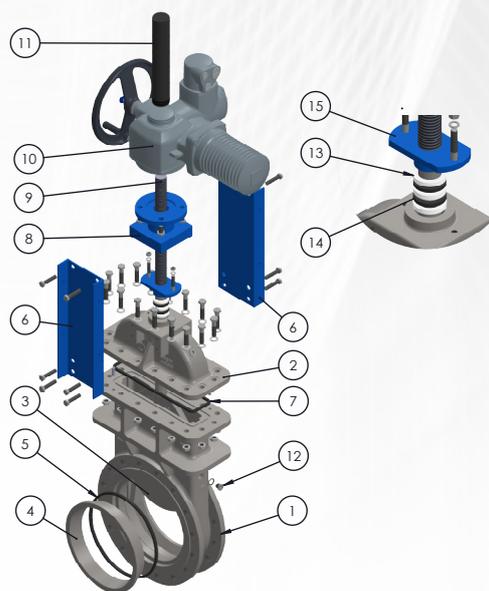
Packing:

- High quality braided Synt+PTFE packing, other qualities such Pure PTFE or Graphite under specific demand.

· The valve is manufactured with different actuators such as:
Manual (handwheel, gear box, chainwheel), double acting pneumatic, electric, hydraulic.

· Accessories: limit & inductive switches, solenoid valves, positioners, deflecting cones, flushing holes and stem extensions.

STANDARD PARTS LIST



Other materials under request depending on service conditions

Item	Part	Standard material	Stainless steel
1	Body	A216WCB, RAL 5015 coated	CF8M (AISI316)
2	Bonnet	Steel, RAL 5015 coated	CF8M (AISI316)
3	Gate	AISI304L (1.4307)	AISI316L (1.4404)
4	Reinforced ring	CF8 (AISI304)	CF8M (AISI316)
5	Seat	EPDM	EPDM
6	Support plates	Steel, RAL 5015 coated	Steel, RAL 5015 coated
7	Body-bonnet o'ring	EPDM	EPDM
8	Support bridge	Steel, RAL 5015 coated	Steel, RAL 5015 coated
9	Spindle	AISI304 (1.4301)	AISI304 (1.4301)
10	Actuator (on request)		
11	Stem protection tube	Steel, cataphoresis RAL 9005	Steel, cataphoresis RAL 9005
12	Flushing hole plug	A2	A2
13	Packing	Synt+PTFE	Synt+PTFE
14	O'ring	EPDM	EPDM
15	Packing gland	Steel, RAL 5015 coated	AISI316L (1.4404)
	Bolting	A2	A2

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Zubi Reserves the right to change specifications without notice.

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