

SERIE 02
02395

Knife gate valve, wafer type

Nominal diameter options (DN) 50-1200

Nominal pressure options (PN) 6-25

Maximum working pressure 2-10 bar



Applications:

Pulp and Paper

Wastewater treatment plants

Food and Beverage

Power plants

Chemical plants

Bulk handling

Mining

Etc.

Sizes: DN 50 to DN 1200 (larger diameters on request)

Working pressure:

DN 50 to DN 250 10 bar

DN 300 to DN 400 6 bar

DN 450 5 bar

DN 500 to DN 600 4 bar

DN 700 to DN 1200 2 bar

Standard flange connection:

DIN PN 10 and ANSI B16.5 (class 150)

- Other flange connections available on request

DIN PN 6 DIN PN 16 DIN PN 25

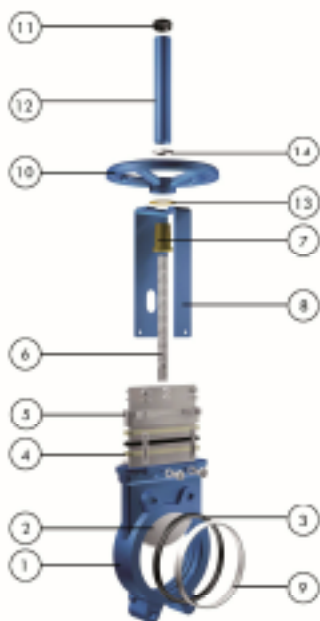
BS "D" and "E" ANSI 125

Directives:

2006/42/EC (MACHINES)

97/23/EC (PED) Fluid: Group 1(b), 2 (Cat mod. A)

94/9/EC (ATEX)



Part	Cast iron	Stainless steel
1. Body	GJL250(GG25)	CF8M
2. Gate	AISI 304	AISI 316
3. Seat	Metal/Metal or EPDM	
4. Packing	PTFE Impreg. Synth. Fibre (With a EPDM O-Ring)	
5. Gland follower	Alum. (DN50-300) or Ductile Iron (DN350-1200)	CF8M
6. Stem	AISI 430	
7. Stem nut	Brass	
8. Yoke	Epoxy-coated Carbon Steel	
9. "A" ring	AISI 304	AISI 316
10. Handwheel	GJS400 (GGG40)	
11. Cap	Plastic	
12. Stem protector	Epoxy-coated Carbon Steel	
13. Friction washer	Brass	
14. Nut	Zinc Plated Carbon Steel	

FEATURES:

BODY:

Wafer style cast monoblock with raised faces and reinforcing ribs in large diameters for extra body strength. Internal cast-in gate wedges and guides allow for a tighter shut-off between gate and seat. Full port design for greater flow capacity and minimal pressure drop. The internal body design avoids any accumulation of solids that would prevent the valve from closing.

GATE:

Stainless steel gate. Gate is polished on both sides to avoid jamming and seat damage. Bottom of the gate edge is machined to a bevel to cut through solids for a tighter seal in the closed position. The thickness and/or material of the gate can be changed on request for higher pressure requirements.

SEAT:

Unique design that mechanically locks the seal in the internal of the valve body with a stainless steel retainer ring. Standard EPDM also available in different materials such as Viton, PTFE, etc.

PACKING:

Long-life packing with several layers of braided fibre plus an EPDM o-ring, with an easy access packing gland ensuring a tight seal. Long-life braided packing is available in a wide range of materials. The standard stainless steel stem offers a long corrosion resistant life. For rising stem handwheel actuators only, a stem protector is provided for additional protection against dust while the valve is in the open position.

STEM:

The standard stainless steel stem offers a long corrosion resistant life. For rising stem handwheel actuators only, a stem protector is provided for additional protection against dust while the valve is in the open position.

ACTUATORS:

All actuators supplied are interchangeable, and supplied with a standard mounting kit for installation purposes on site.

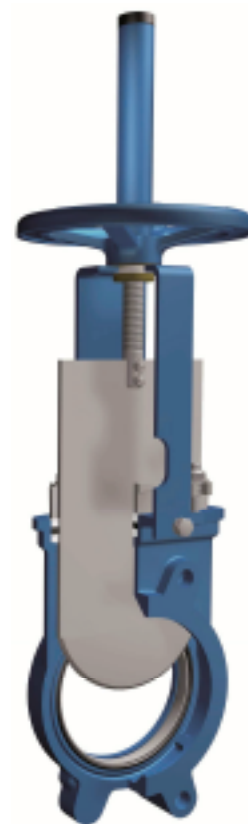
YOKE or ACTUATOR SUPPORT:

Made of EPOXY coated steel (stainless steel available on request). Compact design makes it extremely robust even under the most severe conditions.

EPOXY COATING: The epoxy coating on valve bodies and components is applied by means of an electrostatic process, making the valves corrosion-resistant with a high quality finished surface.

GATE SAFETY PROTECTION:

Automated valves are provided with gate guards in accordance with EU Safety Standards. The design feature prevents any objects from being caught accidentally while the gate is moving.



ACTUATOR TYPES

MANUAL:

- Handwheel (rising stem)
- Handwheel (non-rising stem)
- Chainwheel
- Lever
- Bevel Gear
- Other (square nut)

AUTOMATIC:

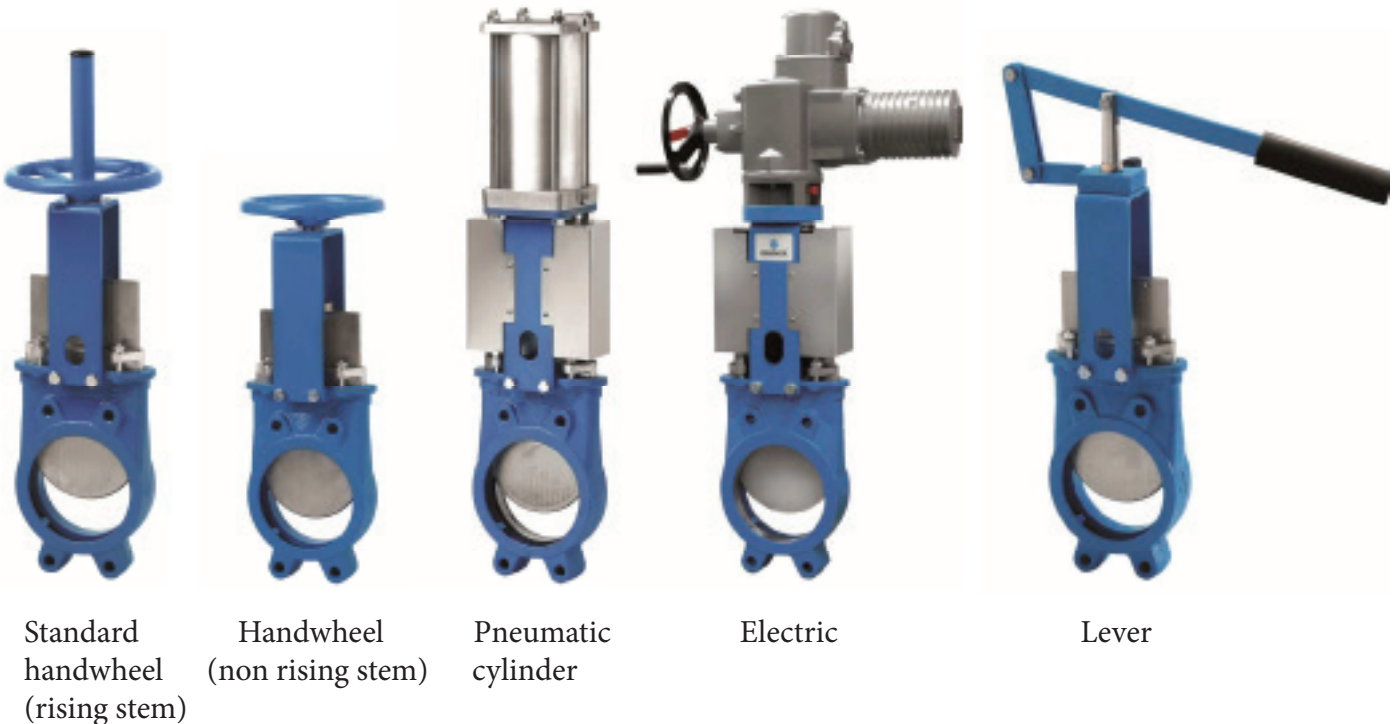
- Electric (rising & non-rising stem)
- Pneumatic (single & double-acting)
- Hydraulic

All actuators are interchangeable

ACCESSORIES:

- Mechanical Stops
- Actuator manual override
- Positioners
- Proximity Switches
- Stem Extensions

- Locking device
- Solenoid valves
- Limit Switches
- Floor stands



Standard handwheel (rising stem)

Handwheel (non rising stem)

Pneumatic cylinder

Electric

Lever

WORKING TEMPERATURES:

SEAT / SEALS		
Material	Max. T (°C)	Applications
Metal/Metal	>250	High temp. / low tightness
EPDM	120	Acids and non-mineral oils
Nitril (N)	120	Resistance to petroleum products
Viton (V)	200	Chemical service / High temp.
Silicon (S)	250	Food service / High temp.
PTFE (T)	250	Corrosion resistance

PACKING		
Material	Max. T (°C)	pH
Dry cotton (AS)	50	6-8
PTFE impregn. synth. fibre (ST)	240	2-13
Braided PTFE (TH)	260	0-14
Graphited (GR)	600	0-14
Ceramic fibre (FC)	1200	---

More details and materials under request.

Note: all types include an an elastomere O-ring (same material as seal), excl. TH, GR, FC.



METAL/METAL

For applications with:

- High temperature
- High density media application
- In those cases when full tightness is not required



TYPE “B” SEAT (metal/metal)

For applications with:

- High temperature
- High density media application
- In those cases when full tightness is not required
- Replaceable design without disassembling the valve



DEFLECTION CONE “C”

- Deflects the media away from any valve internal exposed parts (gate, seat, .)
- Material: AISI 316, CA15, Ni-Hard, etc.
- Face-to-face dimension increases:
DN 50 to DN 250 X = 9mm
DN 300 to DN 600 X = 12mm
Larger diameters on request



RESILIENT TYPE “A”

- Standard resilient seat.
- Temperature limitations according to the selected seat material. Review the above chart or contact our Technical Department for more information.
- Seat with replaceable retainer ring

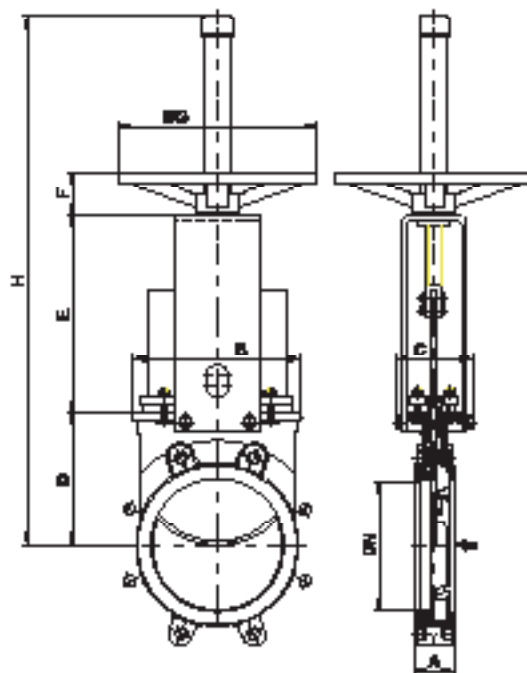


TYPE “B” SEAT (resilient)

- Temperature limitations according to the selected seat material. Review the above chart or contact our Technical Department for more information.
- Replaceable and reinforced seat ring available in different materials such as: stainless steel, CA1 5, Ni Hard,...

HANDWHEEL (rising stem)

- Standard manual actuator
- Consists of:
 - Handwheel: Epoxy coated Cast Iron
 - Stem
 - Stem nut
 - Stem protector
- Available from DN 50 to DN 1000
- Options:
 - Locking Device
 - Extensions



PN 40									
DN	A	B	C	D	E	F	øG	H	Weight (kg)
50	40	119	100	105	129	47	225	420	7
65	40	134	100	115	146	47	225	450	8
80	50	149	100	124	162	47	225	475	9
100	50	169	100	140	187	47	225	520	11
125	50	180	100	150	211	47	225	600	15
150	60	210	100	175	237	47	225	652	18
200	60	262	119	205	309	67	310	822	30
250	70	318	122	250	364	67	310	1022	44
300	70	372	122	300	414	67	310	1122	58
350	96	431	197	338	486	66	410	1323	96
400	100	486	197	392	536	66	410	1427	124
450	106	540	201	432	588	66	550	1594	168
500	110	602	201	485	648	66	550	1707	192
600	110	708	201	590	748	66	550	2022	245
700	110	834	380	686	890	74	800	2778	405
750	110	884	380	760	945	74	800	2900	455
800	110	1015	320	791	989	74	800	2980	512
900	110	1040	320	895	1118	74	800	3215	680
1000	110	1146	320	975	1220	74	800	3400	865