

KNIFE GATE VALVE

FAF 6500



Features

- Uni-directional wafer type knife gate valve
- Can be installed both between two flanges, or, using an opposing flange, at the end of a pipeline.
- Bonnet sealing gasket can be replaced on the line.
- Suitable for actuated operation with additional top flange.
- Knife shaped wedge design, cutting the fiber fluids, makes it suitable to work in wastewater treatment plants, textile and food industries.
- EPDM rubber gasket seat is inserted inside the body cavity.
- With mechanical position indicator of the knife.
- Stem and gate connection is secured with self-locking nuts.
- Gate, stem, bolts and nuts of acid-resistant stainless steel.
- Slim design and low weight.
- Various seal and packing materials available.
- Manual (handwheel, chainwheel, lever and bevel gear), pneumatic (single and double-acting), electric and hydraulic actuation options available.
- Due to design, operating pressure is lower than nominal pressure for larger diameters. Please ask for technical support.

Temperature

- +50 °C (NBR)

PRODUCTION STANDARTS

DN50 → DN600
PN 10

Connection	EN 1092-2 / ISO 7005-2
Face to Face	EN 558 Series
Marking	EN 19
Tests	EN 12266-1
Corrosion Protection	Electrostatic Powder Epoxy

Product Description

FAF6500 Knife Gate Valve is constituted by a gate which slides in a narrow body. The upper part of the gate, in closed or opened position, stands out from the body. This knife gate valve is suitable for liquids that contain a maximum of 5% suspended solids. If used for solids, recommend installing with the body are which indicates the contrary flow direction

Versions

- Rising stem
- Non-rising stem
- Standard version with hand wheel
- Prepared for electrical actuator
- With electrical actuator
- With gearbox IP68
- Custom production for specific orders

Accessories

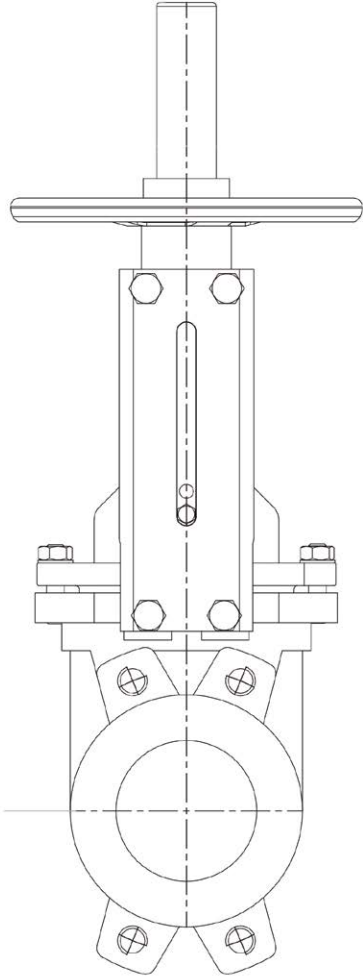
- T-key, FAF7250T
- Telescopic extension spindle ST37 steel, FAF7250
- Rigid extension spindle
- Surface box cast iron, FAF7250K
- Flange adaptors, FAF3960
- Dismantling joints, FAF3900
- Handwheels

Scope of Application

- Slurry fluids
- Waste, hot, cold water
- Installation in plants
- Water treatment plants
- Pumping stations
- Tanks
- Seawater applications
- Power plants (cooling water pipelines)
- Industrial applications

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MATERIAL SELECTION

Body EN-GJS-500 Ductile Iron / GGG50

Disc 1.4301 - AISI 420 Stainless Steel

Stem 1.4021 - AISI 304 Stainless Steel
1.4301 - AISI 420 Stainless Steel

Sealing NBR, EPDM

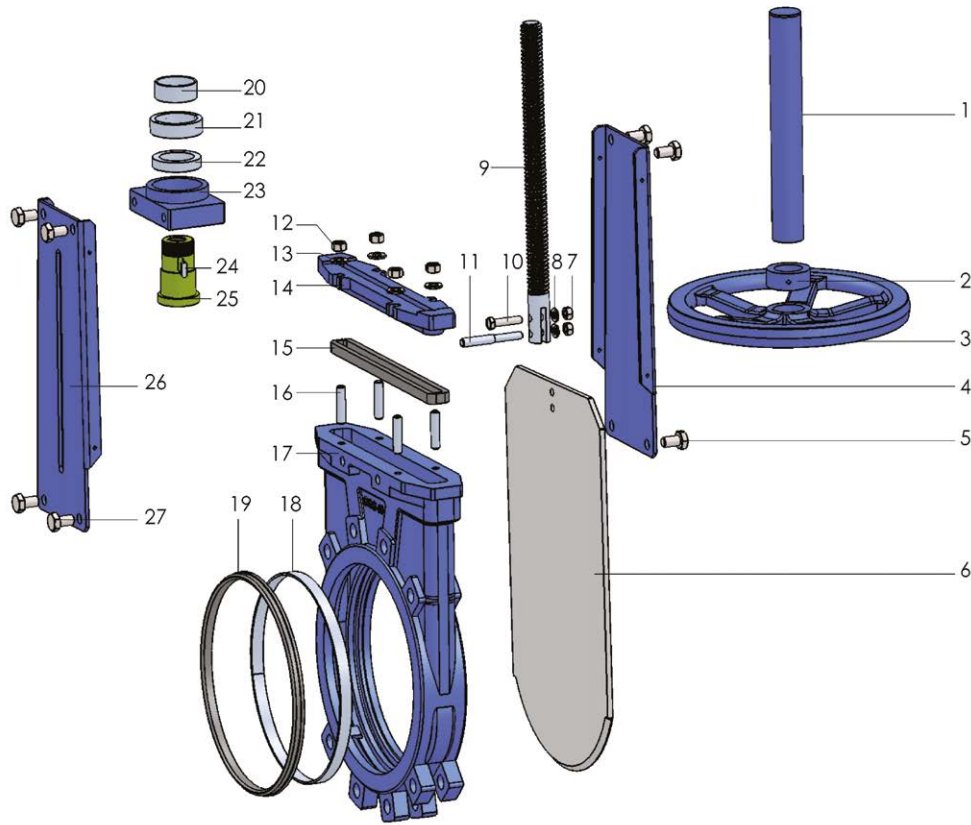
VALVE TEST PRESSURE (Bar)

	MAX. OPERATING PRESSURE	BODY / SHELL TEST	SEAT TEST
DN600	4	6	4.4
DN50- DN400	10	15	11

100% of the valves are subjected to hydrostatic tests at FAF facilities.



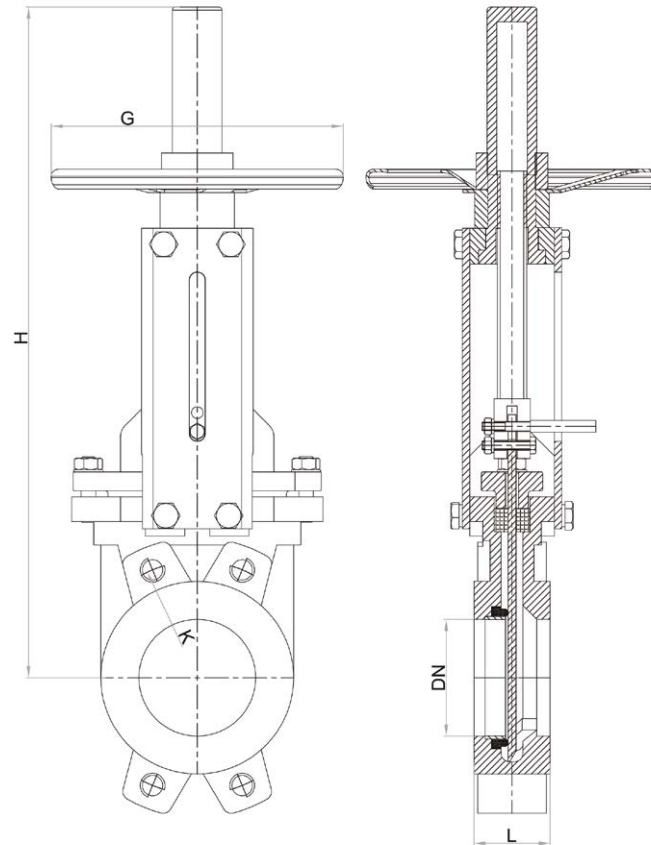
Material List



NO	ITEM	MATERIALS
1	STEM COVER	STEEL St 37
2	HANDWHEEL NUT	STEEL
3	HANDWHEEL	STEEL St 37
4	PLATE	STEEL
5	BOLT	STAINLESS STEEL
6	KNIFE WEDGE	STAINLESS STEEL 1.4301
7	NUT	STAINLESS STEEL
8	WASHER	STAINLESS STEEL
9	DRIVE SHAFT	STAINLESS STEEL 1.4021
10	BOLT	STAINLESS STEEL
11	PIN	STAINLESS STEEL 1.4021
12	NUT	STAINLESS STEEL
13	WASHER	STAINLESS STEEL
14	RETAINING COVER	EN GJS 500 DUCTILE IRON

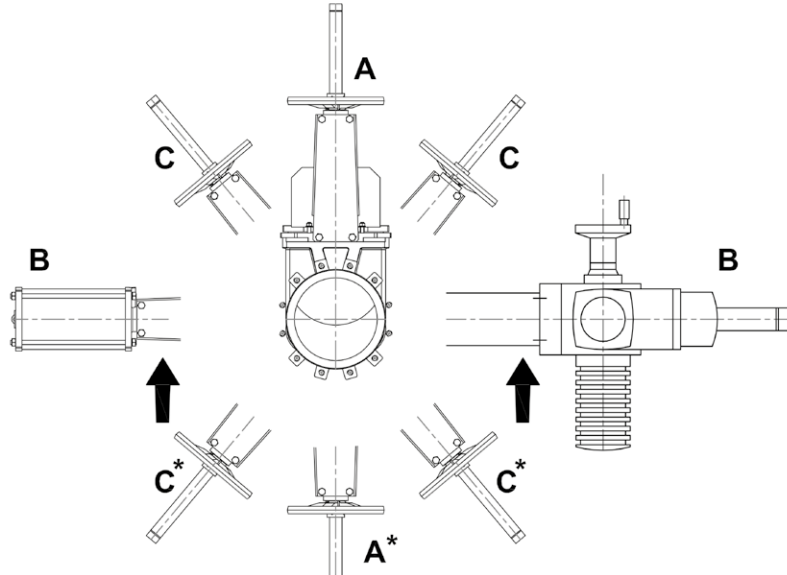
NO	ITEM	MATERIALS
15	GASKET	POLYMER
16	SCREW	STEEL CK 45
17	BODY	EN GJS 500 DUCTILE IRON
18	GASKET BEARING	STAINLESS STEEL 1.4301
19	SEALING GASKET	EPDM
20	RETAINING PIPE	STEEL
21	BEARING NUT	STEEL
22	BEARING	STEEL
23	FLANGE	STEEL
24	WEDGE	STEEL
25	SHAFT NUT	CuZn40Pb2 BRASS
26	DISPLAY PLATE	STEEL
27	BOLTS	STAINLESS STEEL

Technical Details & Drawing, Dimensions



DN (mm)	K	L	H	G	WEIGHT (kg)
50	125	43	380	180	7,1
65	145	43	430	180	8,2
80	160	50	480	200	10,7
100	180	50	510	200	12,8
125	210	50	580	220	14,8
150	240	60	670	250	21,3
200	295	60	815	300	29,4
250	350	70	1000	320	46,5
300	400	70	1150	350	70
350	460	96	1315	440	96,5
400	515	100	1500	500	128
450	565	106	1650	600	230
500	620	110	1900	800	270
600	725	110	2035	500	250

Knife Gate Valve Installation Methods



Dismounting

- The assembly position on the pipeline shall be in accordance with shape A, B or C. The handwheel or the actuator must be positioned vertically.
- Assembly in accordance with A* - B* and C* shapes are advised not to be used. If the site conditions requires positioning as A* - B* and C*, please ask for technical assistance.
- The valve body can be produced with cast iron, ductile iron cast steel or stainless steel.
- The knife wedge material can also be manufactured from different grades of stainless steel.
- Please contact us for different size and pressure ranges.

Associated Products for Knife Gate Valve Range



2290
BALL CHECK VALVE



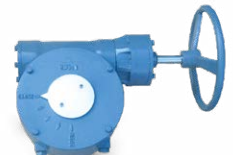
2295
BALL CHECK VALVE THREADED



3770
ELECTRIC ACTUATOR



3780
ELECTRIC ACTUATOR



3700
GEARBOX



7250
EXTENSION SPINDLE
SURFACE BOX