



AB VALVES GmbH

Manufacturer of Industrial Valves
and Relevant Equipments

Gate Valves Knife type (GVKF)



**Gate Valves Knife type (GVKF)****Size:** DN 50 - DN 600 mm**Pressure:** PN 6 - PN 10 bar

size	pressure
DN 50 - DN 250	10 bar
DN 300 - DN 400	6 bar
DN 450	5 bar
DN 500 - DN 600	4 bar

Face to face: according DIN 3202-K1**Flange according:** DIN EN 1092-2**Test according:** ISO 5208**Product Features:**

Knife valves are designed for top performance and a long maintenance free lifetime. The stainless steel Knife gate is precision - buffed for tight shut off. Its knife - like edge cuts through heavy or high viscous fluids. Knife edges are machine chamfered to reduce packing wear. The brass stem nut makes opening & closing the valve smooth and speedy with low torque requirements.

Knife valve can be installed between two pipe flanges as wafer type and shall be used in different industries. Because of special design the least contact would be occurred between moveable parts and body. The gate moves up ward and down ward through layers of packing without any touching the body and never collect any heavy viscous fluids or pulverized material and powder on the blade.

Knife valve can tolerate heat expansion according fluid temperature pass through.
knife valves can be installed in the end of pipe line as a lug.

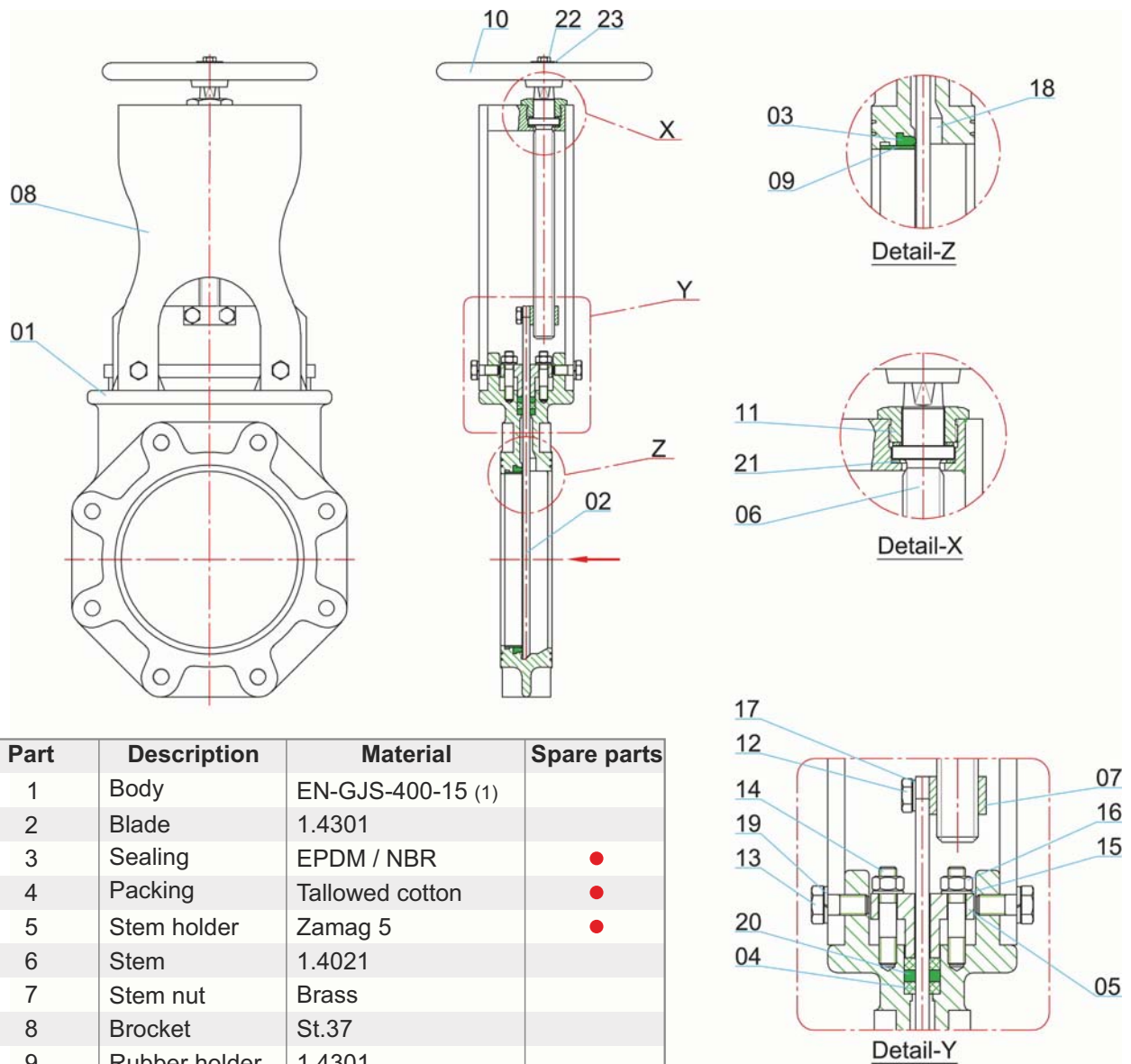
Application:

- Thermal Power Plants
- Chemical plants
- Glue and adhesive production with heavy viscosity, sewage water, chemical sludge
- Syrups
- Paste industries particularly paper paste.
- Displacing powder material.
- Food and drinking industries.

Corrosion protection:

All casting parts of Knife valve are coated with epoxy powder, electro statics and min. thickness 250 µm.

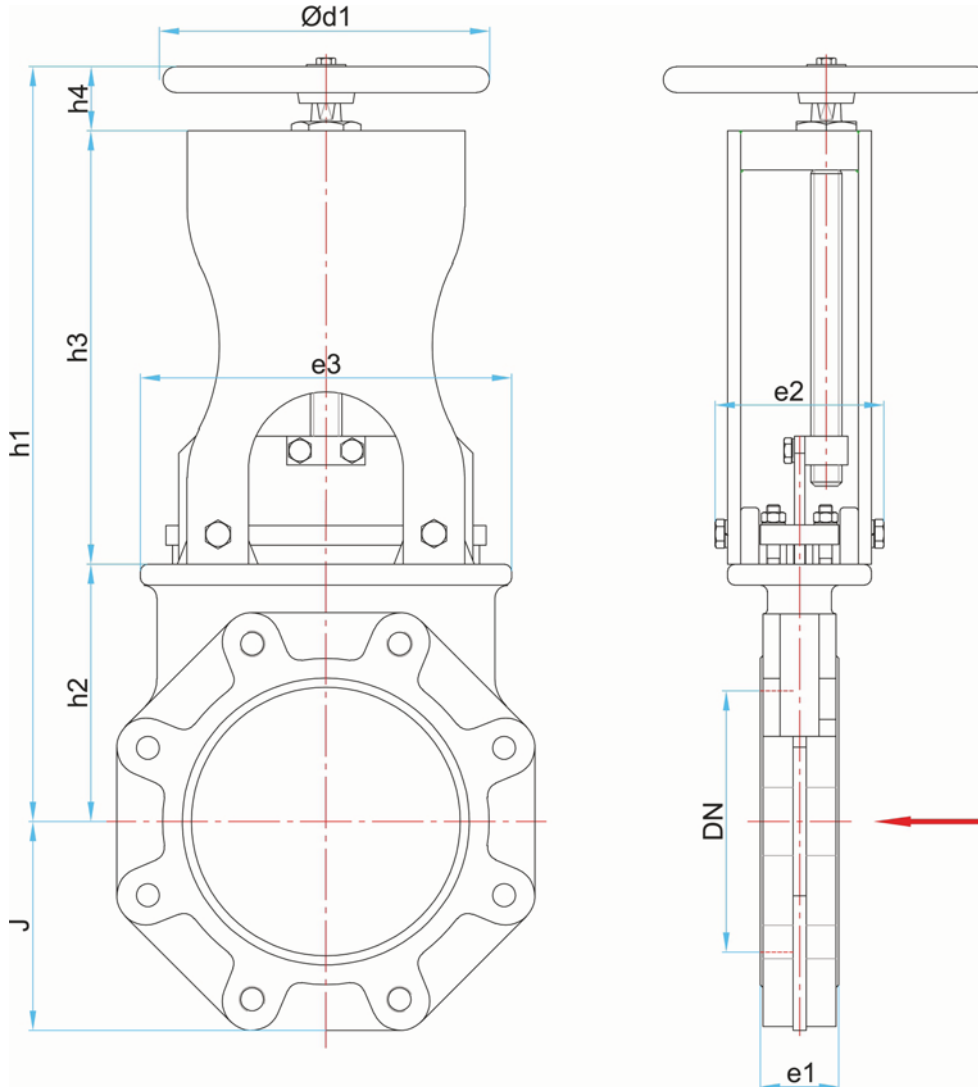
Part list:



Part	Description	Material	Spare parts
1	Body	EN-GJS-400-15 (1)	
2	Blade	1.4301	
3	Sealing	EPDM / NBR	●
4	Packing	Tallowed cotton	●
5	Stem holder	Zamag 5	●
6	Stem	1.4021	
7	Stem nut	Brass	
8	Brocket	St.37	
9	Rubber holder	1.4301	
10	Hand wheel	GG 25	
11	Cap	EN-GJS-400-15 (1)	
12	Max. Bolt	Galvanized Steel/A2	
13	Hex. Bolt	Galvanized Steel/A2	
14	Stud bolt	Galvanized Steel/A2	
15	Flat washer	Galvanized Steel/A2	
16	Nut	Galvanized Steel/A2	
17	Flat washer	Galvanized Steel/A2	
18	Blade guidance	PTFE	
19	Spring washer	Galvanized Steel/A2	
20	Rubber	EPDM / NBR	
21	PTFE washer	PTFE	
22	Hex Bolt	Galvanized Steel/A2	
23	Flat washer	Galvanized Steel/A2	

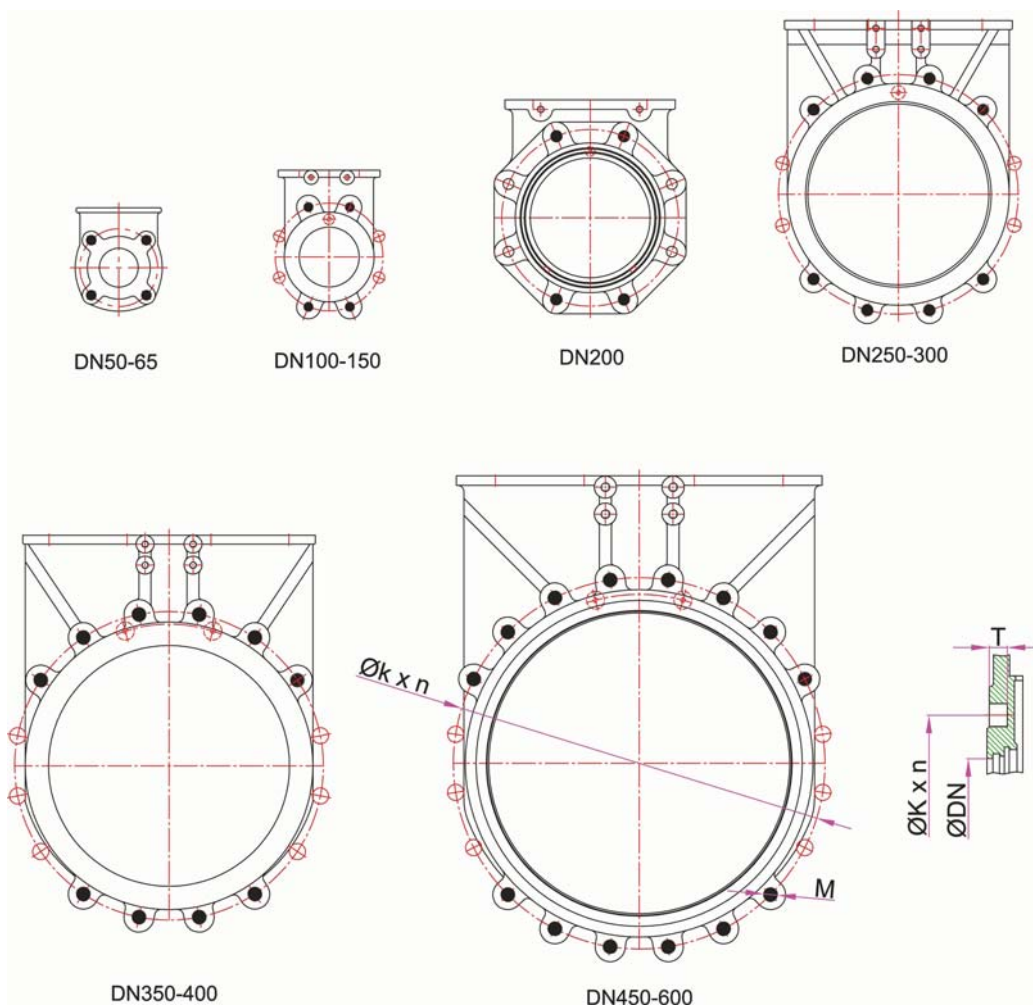
(1) EN-GJS-500-7 can be product as requested.

Dimensions (GVKF)



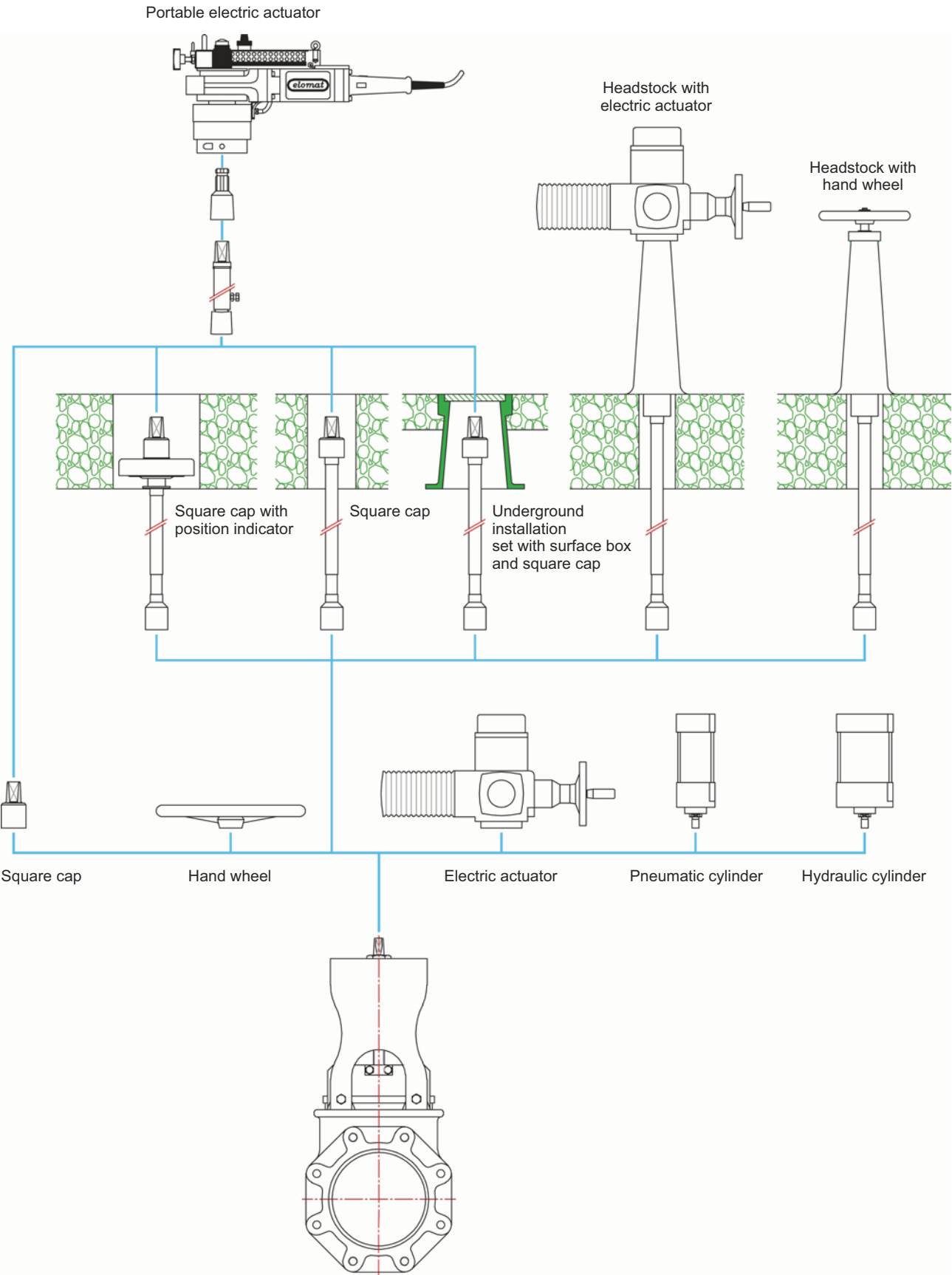
DN	e1	e2	e3	h1	h2	h3	h4	Ød1	J
50	40	107	124	282	105	135	42	200	76
65	40	107	139	309	115	152	42	200	86
80	50	107	154	334	124	168	42	200	92
100	52	100	170	422	145	300	47	200	110
125	52	107	192	414	150	217	47	250	124
150	60	107	217	465	175	243	47	250	137
200	60	127	284	607	197	354	56	250	160
250	68	144	330	720	265	396.5	58.5	360	197.5
300	78	144	380	788	290	439.5	58.5	360	222.5
350	96	160	438	903	338	503	62	400	261
400	102	160	488	1002	385	555	62	400	282.5
450	106	194	546	1097	432	603	62	500	313
500	127	194	610	1240	480	685	75	500	335
600	127	200	714	1428	590	763	75	500	401

Flange Drilling specification



This table is for PN 10

DN	ØK mm	n	M	T (Depth) mm	● (Blind taped Bolts)	○ (Through bolts)
50	125	4	M16	11	4	-
65	145	4	M16	11	4	-
80	160	8	M16	13	4	-
100	180	8	M16	13	4	-
125	210	8	M16	13	4	-
150	240	8	M20	14	4	-
200	295	8	M20	15	4	4
250	350	12	M20	16	8	-
300	400	12	M20	21	8	-
350	460	16	M20	21	10	-
400	515	16	M24	26	10	-
450	565	20	M24	26	14	-
500	620	20	M24	30	14	-
600	725	20	M27	34	14	-



AB VALVES' PRODUCTS

Butterfly Valves Flange Type (BVF)
Butterfly Valves Wafer Type (BVW)
Butterfly Valves Wafer Type for Sea Water (BVS)
Gate Valves (GV)
Valves for Special Applications
Air Valves (AV)
Hydrants (HT)
Automatic Control Valves (RV)
Non-Return Valves (NV)
Strainers (STR)
Accessories
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