

HEAVY DUTY KNIFE GATE VALVE

The EW model knife gate is an uni-directional lug type valve designed according to AWWA C520-14 for municipal and industrial service applications. The design of the body and seat also assures non-clogging shut off on suspended solids in industries such as:

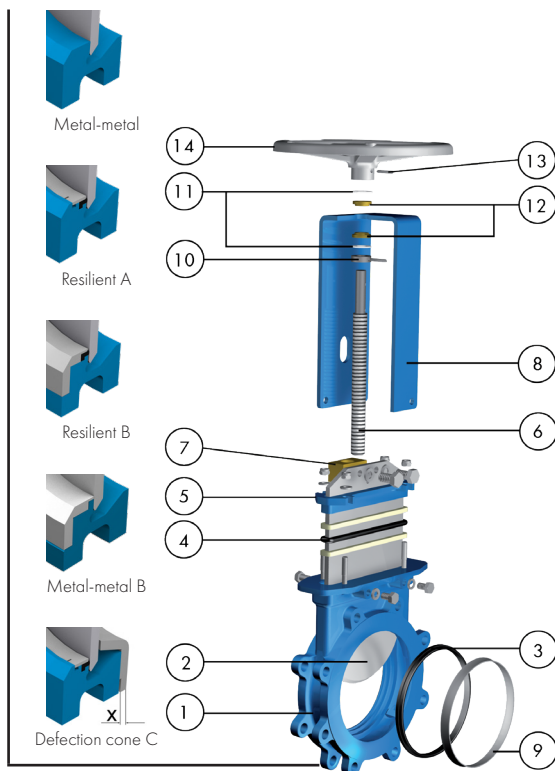
- Wastewater
- Pulp and paper
- Power plants
- Chemical plants
- Food and beverages
- Etc

Product description

- Uni-directional lug type knife gate valve
- Size range of DN50-900 (larger upon request). See Dimension Charts for pressure rating
- Non rising stem as standard. Rising stem also available
- Standard flange connection: EN-1092 PN10 and ASME B16.5 (class 150). Others upon request
- Manual (handwheel, chainwheel, lever and bevel gear), pneumatic (single and double-acting), electric and hydraulic actuation options available

Features

- Lug type monoblock ductile iron body with internal cast-in gate wedges and guides
- Port design as per AWWA C520-14 standards
- Stainless steel gate polished both sides to avoid jamming and seat damage
- Standard EPDM resilient seat. Metal-to-metal seat, as well as high performance rings and deflection cones available
- Long life PTFE impregnated synthetic fibre plus EPDM o-ring packing with easy access and adjustable gland follower. Wide range of packing materials available
- RAL-5015 blue epoxy-coating on all cast iron/carbon steel components
- Automated valves provided with gate guards in accordance with EU Safety Standards
- Other options: bonnets, V-ports, flush ports, special materials, fabricated valves, etc.
- Actuation accessories: limit & proximity switches, mechanical stops, positioners, solenoid valves, manual overrides, locking devices, fail safe systems, stem extensions and floor stands

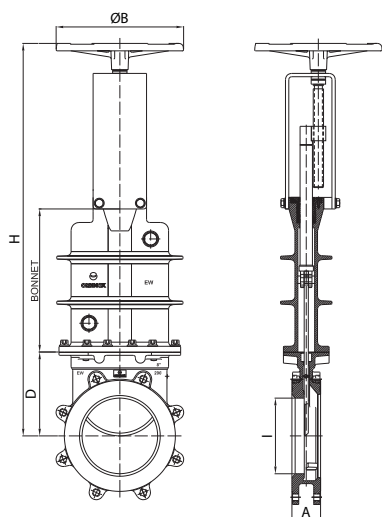
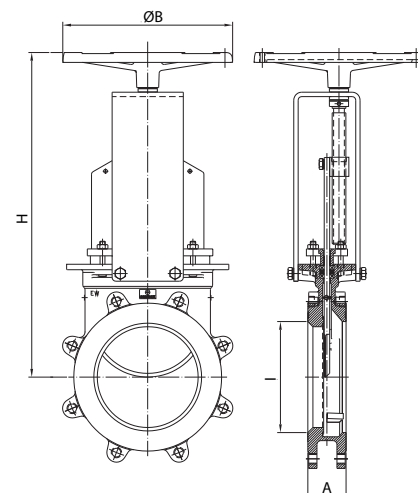


STANDARD PARTS LIST

Part	Materials
1 Body	EN-GJS400
2 Gate	AISI 304
3 Seat	Metal/Metal or EPDM
4 Packing	PTFE Impreg. Synth. Fibre with an EPDM O-Ring
5 Gland follower	CF8 DN 50mm/2in to DN 300mm/12in or EN-GJS400 DN 350mm/14in to DN 900mm/36in
6 Stem	Stainless steel
7 Stem nut	Brass
8 Yoke	Epoxy-coated carbon steel
9 Seat retainer ring	AISI 304
10 Axial fixing bush	AISI 304
11 Friction washer	PET + solid lubricant
12 Guide bush	Bronze
13 Spring pin	AISI 420 (ISO 8752)
14 Handwheel	DN≤310mm/12.20in: Aluminium (AISI 12); DN≥410mm/16.70in: EN-GJS400

Handwheel Non-Rising Stem

DN (mm)	W. pressure	I	A	ØB	H
50	10 bar	50	48	225	297
80	10 bar	80	51	225	344
100	10 bar	97	51	225	389
125	10 bar	117	57	225	436
150	10 bar	140	57	225	465
200	10 bar	184	70	310	585
250	10 bar	230	70	310	651
300	10 bar	275	76	410	736
350	10 bar	305	76	410	843
400	10 bar	351,6	89	410	923
450	10 bar	390	89	550	1065
500	10 bar	435	114	550	1159
600	10 bar	522	114	550	1296

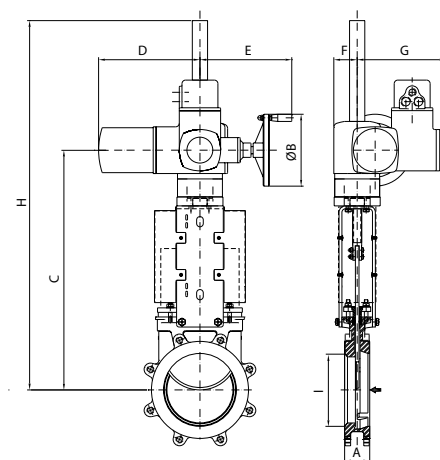


Handwheel Non-Rising Stem With Bonnet

DN (mm)	W. pressure	I	A	ØB	D	Bonnet	H
50	10 bar	50	48	225	105	184	548
80	10 bar	80	51	225	119	218	618
100	10 bar	97	51	225	142	243	690
125	10 bar	117	57	225	153	270	758
150	10 bar	140	57	225	165	297	822
200	10 bar	184	70	310	203	377	997
250	10 bar	230	70	310	240	398	1099
300	10 bar	275	76	410	280	472	1257
350	10 bar	305	76	410	315	485	1414
400	10 bar	351,6	89	410	350	498	1539
450	10 bar	390	89	550	415	650	1820
500	10 bar	435	114	550	450	715	1980
600	10 bar	522	114	550	504	780	2179

Electric Actuator Rising Stem

DN (mm)	W. pressure	I	A	C	ØB	H	D	E	F	G
50	10 bar	50	48	377	160	454	265	249	62	238
80	10 bar	80	51	424	160	501	265	249	62	238
100	10 bar	97	51	469	160	546	265	249	62	238
125	10 bar	117	57	516	160	593	265	249	62	238
150	10 bar	140	57	545	160	1122	265	249	62	238
200	10 bar	184	70	667	160	1255	265	249	62	238
250	10 bar	230	70	733	160	1321	265	249	62	238
300	10 bar	275	76	793	200	1381	283	254	65	248
350	10 bar	305	76	875	200	1463	283	254	65	248
400	10 bar	351,6	89	955	315	1543	389	336	91	286
450	10 bar	390	89	1142	315	1870	389	336	91	286
500	10 bar	435	114	1222	400	1950	389	339	91	286
600	10 bar	522	114	1444	400	2172	389	339	91	286
700	10 bar	620	114	1631	500	2614	430	365	114	303
750	10 bar	670	117	1779	500	2832	430	365	117	303
800	10 bar	720	117	1867	500	2920	430	365	117	303
900	10 bar	810	117	2035	500	3080	430	365	117	303



* For sizes DN 300mm and above, Torque figures calculated based on pressure rate for EX valve model