

BI-DIRECTIONAL KNIFE GATE VALVE

The BR model knife gate is a bi-directional valve designed for general industrial service applications. The design of the body and seat assures non-clogging shut off on suspended solids in industries such as:

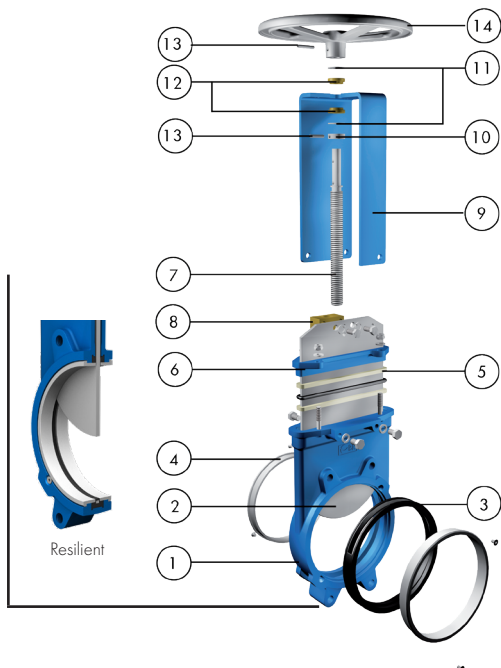
- Pulp and Paper
- Wastewater treatment plants
- Food and Beverage
- Power plants
- Mining
- Chemical plants
- etc

Product description

- Bi-directional wafer type knife gate valve
- Size range of DN 50-600 (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
- For EU Directives and other Certificates, please see the document: Directives and Certificates Compliance - Knife Gate Valves - Catalogues and Datasheets

Features

- Wafer cast monoblock body
- Full port design for greater flow capacity and minimal pressure drop
- Stainless steel gate polished both sides to avoid jamming and seat damage
- Resilient seat with a completely new design sleeve. Two stainless steel seat rings keep the sleeve in position and also serve to guide the gate
- 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, 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

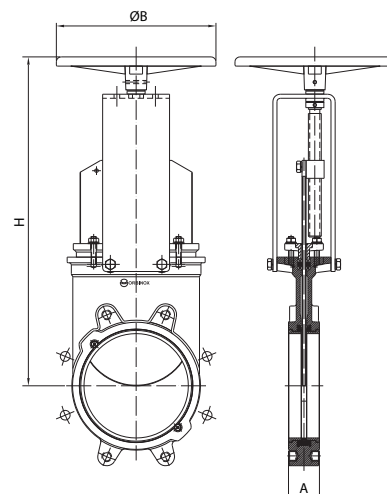


STANDARD PARTS LIST

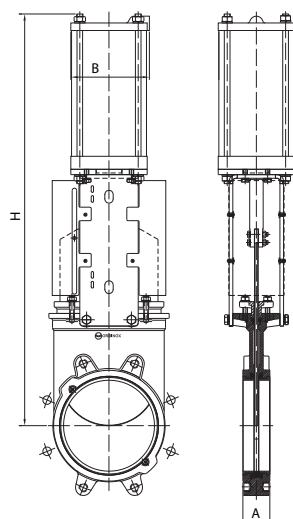
Part	Description
1 Body	EN-GJS400
2 Gate	AISI 304
3 Sleeve	EPDM
4 Seat ring	AISI 304
5 Packing	PTFE Impreg. Synth. Fibre with a EPDM O-Ring
6 Gland follower	Al. (DN 50-300) or Ductile Iron (DN 350-600)
7 Stem	Stainless Steel
8 Stem nut	Brass
9 Yoke	Epoxy-coated Carbon Steel
10 Axial fixing bush	AISI 304
11 Friction washer	PET+ solid lubricant
12 Guide bush	Bronze
13 Spring pin	AISI 420 (1.4021) (ISO 8752)
14 Handwheel	DN≤310: Alum. (AISI12); DN≥410 EN-GJS400

Handwheel Non-Rising Stem

DN	W. pressure	A	ØB	H
50	10 bar	45	225	312
80	10 bar	50	225	364
100	10 bar	50	225	407
125	10 bar	50	225	454
150	10 bar	60	225	505
200	10 bar	60	310	640
250	10 bar	70	310	753
300	6 bar	70	310	855
350	6 bar	96	410	955
400	6 bar	100	410	1055
450	5 bar	106	550	1151
500	4 bar	110	550	1264
600	4 bar	110	550	1459



Pneumatic Cylinder



DN	W. pressure	A	B	H	Connect.
50	10 bar	45	115	412	1/4" G
80	10 bar	50	115	497	1/4" G
100	10 bar	50	115	560	1/4" G
125	10 bar	50	140	647	1/4" G
150	10 bar	60	140	723	1/4" G
200	10 bar	60	175	917	1/4" G
250	10 bar	70	220	1100	3/8" G
300	6 bar	70	220	1252	3/8" G
350	6 bar	96	277	1397	3/8" G
400	6 bar	100	277	1547	3/8" G
450	5 bar	106	382	1722	1/2" G
500	4 bar	110	382	1885	1/2" G
600	4 bar	110	382	2180	1/2" G

Electric Actuator Non Rising Stem

DN	W. pressure	A	C	ØB	H	D	E	F	G
50	10 bar	45	370	160	545	265	249	72	238
80	10 bar	50	422	160	597	265	249	72	238
100	10 bar	50	465	160	640	265	249	72	238
125	10 bar	50	512	160	687	265	249	72	238
150	10 bar	60	563	160	738	265	249	72	238
200	10 bar	60	726	160	901	265	249	82	238
250	10 bar	70	809	160	984	265	249	82	238
300	6 bar	70	911	160	1086	265	249	82	238
350	6 bar	96	948	200	1123	283	254	128	248
400	6 bar	100	1048	200	1223	283	254	128	248
450	5 bar	106	1144	200	1319	283	254	130	248
500	4 bar	110	1257	200	1432	283	254	130	248
600	4 bar	110	1587	315	1772	389	336	130	286

