

THROUGH CONDUIT KNIFE GATE VALVE

The TL model knife gate is a bi-directional wafer valve designed for media with high consistency. The double seat design assures a non-clogging shut off on either normal or reverse flow. The valve is used in a wide range of demanding applications in industries such as:

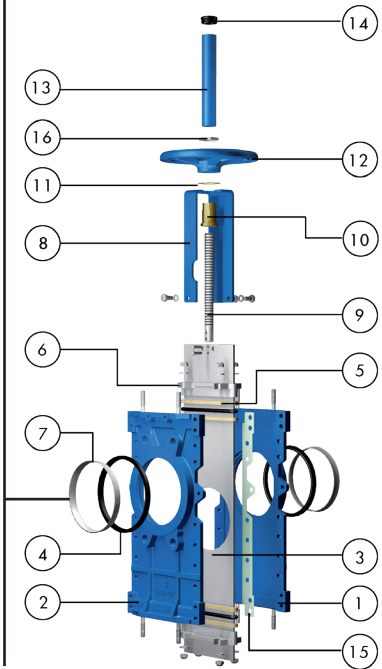
- Pulp & Paper
 - Wastewater treatment plants
 - Chemical plants
- Power plants
 - etc.

Product description

- Bi-directional wafer type through-conduit knife gate valve
- Size range of DN50-1000 (larger upon request). See Dimension Charts for pressure rating
- Rising & non-rising stem configurations 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 type cast two-part bolted body. HMWPE sliders included in the stainless steel version for a smoother gate traveling
- Full port design for greater flow capacity and minimal pressure drop
- Stainless steel o-port design through-going 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
- Dual packing with easy access and adjustable packing glands ensuring a tight seal. Long life PTFE impregnated synthetic fiber plus EPDM O-ring. 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

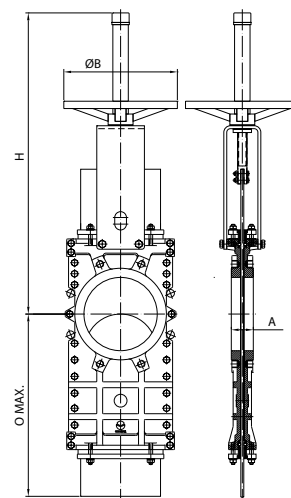
Part		Description
1	Body	EN-GJL250 / EN-GJS400 / CF8M ¹
2	Body	EN-GJL250 / EN-GJS400 / CF8M ¹
3	Gate	AISI 304 / AISI 316 ¹
4	Seat	Metal or EPDM
5	Packing	PTFE Impreg. Synth. Fibre (ST)+O-ring
6	Gland follower	Aluminium (DN50-300) / EN-GJS400 (DN350-1000) / CF8M ¹
7	Seat retainer ring	AISI 304 / AISI 316 ¹
8	Yoke	Epoxy-coated Carbon Steel
9	Stem	Stainless Steel
10	Stem nut	Brass
11	Friction washer	Brass
12	Handwheel	EN-GJS400
13	Stem protector	Epoxy-coated Carbon Steel
14	Cap	Plastic
15	Gasket	Aramid fibres
16	Nut	Zinc plated Carbon Steel

¹ Stainless steel configuration

Handwheel Rising Stem

DN	W. pressure	A	ØB	H	O max.	Weight (Kg)
50	10 bar	40	225	429	232	12
65	10 bar	40	225	451	255	14
80	10 bar	50	225	476	310	16
100	10 bar	50	225	517	367	20
125	10 bar	50	225	601	432	29
150	8 bar	60	225	652	497	35
200	8 bar	60	310	822	635	62
250	8 bar	70	310	1017	777	89
300	6 bar	70	310	1102	905	110
350	6 bar	96	410	1286	1047	174
400	6 bar	100	410	1386	1171	266
450	5 bar	106	550	1583	1301	326
500	4 bar	110	550	1673	1461	372
600	4 bar	110	550	1963	1711	445

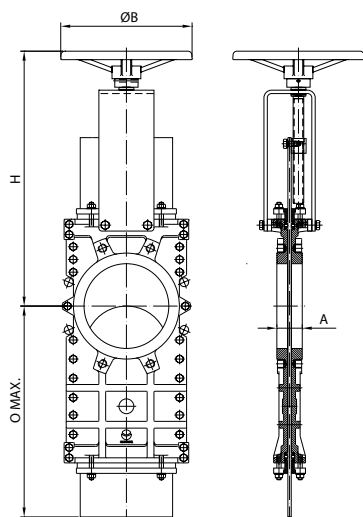
Other diameters on request



Handwheel Non-Rising Stem

DN	W. pressure	A	ØB	H	O max.
50	10 bar	40	225	317	232
65	10 bar	40	225	339	255
80	10 bar	50	225	364	310
100	10 bar	50	225	405	367
125	10 bar	50	225	439	432
150	8 bar	60	225	490	497
200	8 bar	60	310	595	635
250	8 bar	70	310	690	777
300	6 bar	70	310	775	905
350	6 bar	96	410	907	1047
400	6 bar	100	410	1007	1171
450	5 bar	106	550	1129	1301
500	4 bar	110	550	1219	1461
600	4 bar	110	550	1399	1711

Other diameters on request



Pneumatic Cylinder

DN	W. pressure	A	B	H	O max.	Connect.	Weight (Kg)
50	10 bar	40	115	417	232	1/4" G	14
65	10 bar	40	115	454	255	1/4" G	16
80	10 bar	50	115	497	310	1/4" G	18
100	10 bar	50	115	558	367	1/4" G	23
125	10 bar	50	140	632	432	1/4" G	34
150	8 bar	60	140	708	497	1/4" G	41
200	8 bar	60	175	872	635	1/4" G	73
250	8 bar	70	220	1037	777	3/8" G	105
300	6 bar	70	220	1172	905	3/8" G	128
350	6 bar	96	277	1359	1047	3/8" G	207
400	6 bar	100	277	1509	1171	3/8" G	300
450	5 bar	106	382	1708	1301	1/2" G	378
500	4 bar	110	382	1848	1461	1/2" G	445
600	4 bar	110	444	2206	1711	3/4" G	619
700	2 bar	110	444	2490	2000	3/4" G	1215
800	2 bar	110	444	2730	2400	3/4" G	1430

Other diameters on request

