

THROUGH CONDUIT KNIFE GATE VALVE

The TK model knife gate is a bi-directional wafer type 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:

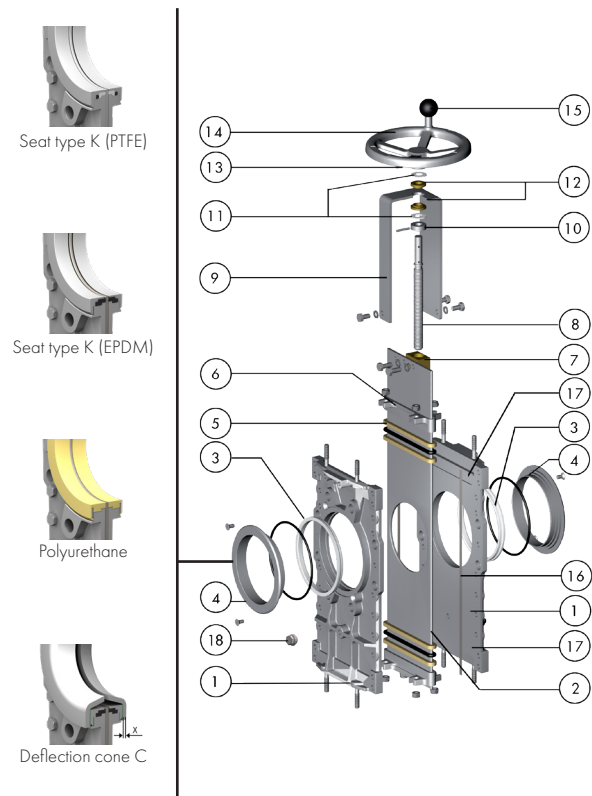
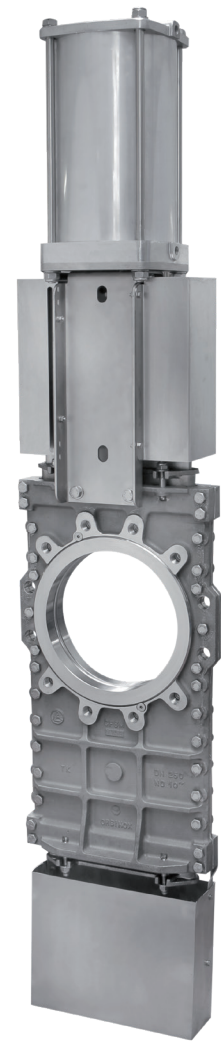
- Pulp and Paper
 - Wastewater treatment plants
 - Chemical plants
- Power plants
 - etc.

Product description

- Bi-directional wafer type through-conduit high performance knife gate valve
- Size range of DN50-900 (larger upon request). See Dimension Charts for pressure rating
- Non-rising stem configuration
- Standard flange connection: EN 1092 PN 10 and ASME B16.5 (class 150). Others upon request
- Manual (handwheel 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. Glass filled PTFE sliders included 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
- Cast stainless steel seat ring, easily replaceable, that mechanically locks the seat. Standard PTFE + NBR O-ring, also available in other materials. EPDM seat and deflection cones available
- Dual packing with easy access and adjustable packing glands. Long life multiple graphite imp. PTFE & aramid yarn combination with elastomeric core and EPDM o-ring. Wide range of 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, diamond-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



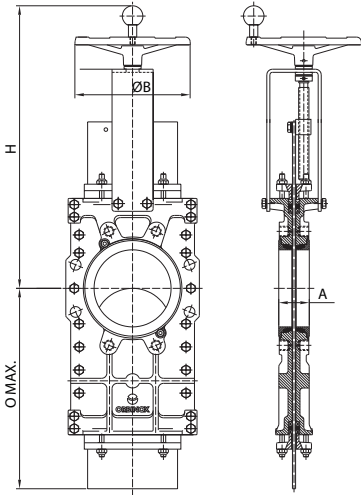
STANDARD PARTS LIST

Part		Materials
1	Body	CF8M
2	Gate	AISI 316
3	Seat	PTFE + O ring
4	"K" ring	CF8M
5	Packing	Dynapack (Graphite impregnated PTFE and Aramid yarn combination with an elastomeric core) + EPDM O-ring
6	Gland follower	CF8M
7	Stem nut	Brass
8	Stem	Stainless Steel
9	Yoke	AISI 304
10	Axial fixing bush	AISI 304
11	Friction washer	PET + solid lubricant
12	Bushing	Bronze
13	Spring pin	AISI 420 (ISO 8752)
14	Handwheel	Ø≤310: Aluminium (AISI 12) / Ø≥410 EN-GJS400
15	Knob	Black bakelite
16	Gasket	DN 80-200: Graphite / DN 250-900: NBR
17	Sliders	Glass filled PTFE
18	Cap	AISI 316

Handwheel Non-Rising Stem

DN	Pressures	A	ØB	H	O max.	Weight (Kg)
50	10 bar	41	225	317	232	12
65	10 bar	41	225	339	255	14
80	10 bar	51	225	425	312	17
100	10 bar	51	225	466	367	22
125	10 bar	56	225	500	432	31
150	10 bar	60	225	551	497	37
200	10 bar	60	310	656	637	75
250	10 bar	69	310	756	777	100
300	6 bar ¹	78	310	856	907	170
350	6 bar ¹	78	410	994	1047	200
400	6 bar ¹	89	410	1068	1171	290
450	6 bar ¹	89	550	1190	1301	405
500	6 bar ¹	114	550	1315	1573	750
600	6 bar ¹	122	550	1460	1830	790

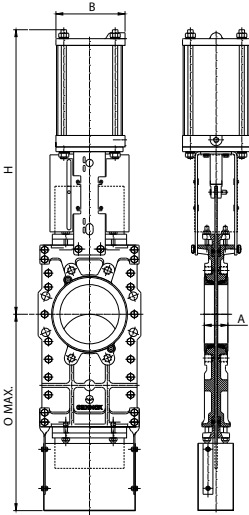
¹ 8 bar with duplex gate



Pneumatic Cylinder

DN	Pressures	A	O max.	B	H	Connect.	Weight (Kg)
50	10 bar	41	232	115	417	1/4" G	14
65	10 bar	41	255	115	454	1/4" G	16
80	10 bar	51	312	115	497	1/4" G	19
100	10 bar	51	367	115	558	1/4" G	25
125	10 bar	56	432	140	632	1/4" G	36
150	10 bar	60	497	175	722	1/4" G	43
200	10 bar	60	637	175	872	1/4" G	86
250	10 bar	69	777	220	1037	3/8" G	116
300	6 bar ¹	78	907	220	1172	3/8" G	188
350	6 bar ¹	78	1047	220	1389	3/8" G	233
400	6 bar ¹	89	1171	277	1526	3/8" G	324
450	6 bar ¹	89	1301	382	1708	3/8" G	455
500	6 bar ¹	114	1573	382	1848	1/2" G	800
600	6 bar ¹	122	1830	444	2170	3/4" G	960
700	6 bar ¹	128	2005	444	2485	3/4" G	2000
800	6 bar ¹	128	2340	515	2805	3/4" G	2600
900	6 bar ¹	128	2595	515	3270	3/4" G	3200

¹ 8 bar with duplex gate



Electric Actuator

DN	Pressures	A	ØB	H	O max.	C	D	E	F	Torque (Nm)
50	10 bar	41	160	592	232	265	249	72	238	10
65	10 bar	41	160	614	255	265	249	72	238	10
80	10 bar	51	160	639	312	265	249	72	238	10
100	10 bar	51	160	680	367	265	249	72	238	15
125	10 bar	56	160	714	432	265	249	72	238	20
150	10 bar	60	160	765	497	265	249	72	238	35
200	10 bar	60	160	867	637	265	249	82	238	40
250	10 bar	69	200	979	777	283	254	82	248	60
300	6 bar ¹	78	200	1059	907	283	254	82	248	80
350	6 bar ¹	78	200	1180	1047	283	254	128	248	95
400	6 bar ¹	89	315	1273	1171	389	336	130	286	130
450	6 bar ¹	89	315	1401	1301	389	336	130	286	160
500	6 bar ¹	114	315	1656	1573	389	336	130	286	190
600	6 bar ¹	122	315	1641	1830	389	336	130	286	220
700	6 bar ¹	128	500	1885	2005	389	340	190	286	320
800	6 bar ¹	128	500	2105	2340	389	340	190	286	400
900	6 bar ¹	128	500	2375	2595	510	355	190	330	550

¹ 8 bar with duplex gate

