

THROUGH CONDUIT KNIFE GATE VALVE

The Series 32 (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:

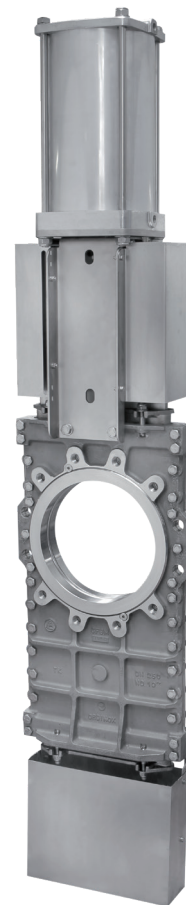
- Pulp and Paper
- Chemical plants
- etc.
- Wastewater treatment plants
- Power plants

Product description

- Bi-directional wafer type through-conduit high performance knife gate valve
- Size range of DN 2in-36in (larger upon request). See Dimension Charts for pressure rating
- Non-rising stem configuration
- Standard flange connection: EN 1092 PN10 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

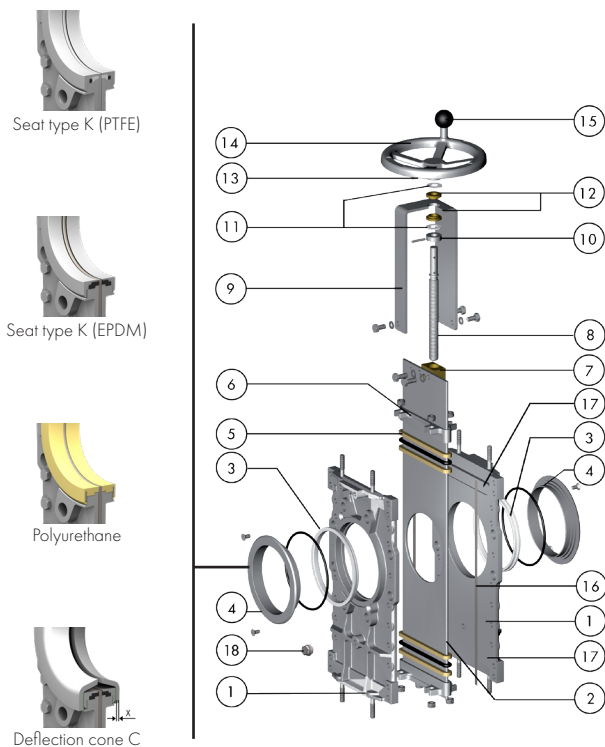
Features

- 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. Only in EU
- 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

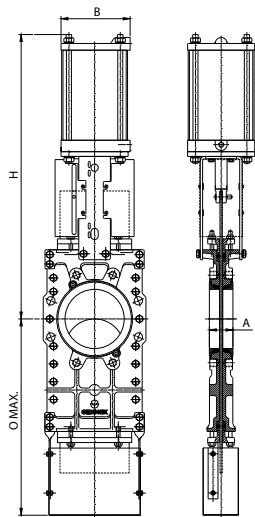
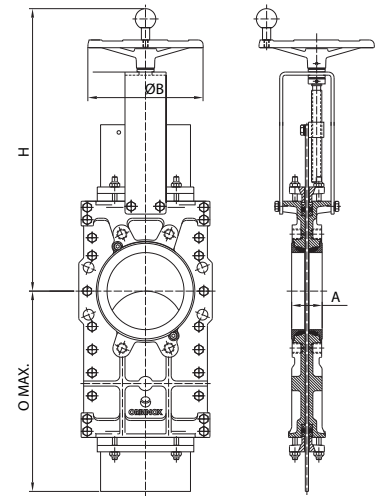
Part	Materials
1 Body	CF8M
2 Gate	AISI 316
3 Seat	PTFE + O ring
4 "K" ring	CF8M
5 Packing	Dynapack (Graphite impregnated PTFE and Aramid yarn combination with an elastomeric core) + EPDM O-ring
6 Gland follower	CF8M
7 Stem nut	Brass
8 Stem	Stainless Steel
9 Yoke	AISI 304
10 Axial fixing bush	AISI 304
11 Friction washer	PET + solid lubricant
12 Bushing	Bronze
13 Spring pin	AISI 420 (ISO 8752)
14 Handwheel	Al. (Ø ≤ 12in) / EN-GJS400 (Ø ≥ 16,14in)
15 Knob	Black bakelite
16 Gasket	DN 3in-8in: Graphite - DN 10in-36in: NBR
17 Sliders	Glass filled PTFE
18 Cap	AISI 316



Handwheel Non-Rising Stem

DN (in)	Pressures	A (in)	ØB (in)	H (in)	O max.	Weight (lbs.)
2	150 psi	1,61	8,86	12,48	9,13	26
2,5	150 psi	1,61	8,86	13,35	10,04	30
3	150 psi	2,00	8,86	16,73	12,28	38
4	150 psi	2,00	8,86	18,35	14,44	49
5	150 psi	2,20	8,86	20,00	17,01	68
6	150 psi	2,36	8,86	21,70	19,57	82
8	150 psi	2,36	12,20	25,83	25,07	165
10	150 psi	2,72	12,20	29,76	30,59	220
12	90 psi ¹	3,07	12,20	33,70	35,71	375
14	90 psi ¹	3,07	16,14	39,13	41,22	441
16	90 psi ¹	3,50	16,14	42,04	46,10	639
18	90 psi ¹	3,50	21,65	46,85	51,22	893
20	90 psi ¹	4,48	21,65	51,77	61,93	1653
24	90 psi ¹	4,80	21,65	57,48	72,05	1742

* 120 psi with duplex gate



Pneumatic Actuator

DN (in)	Pressures	A (in)	O max.	B (in)	H (in)	Connect.	Weight (lbs.)
2	150 psi	1,61	9,13	4,53	16,41	1/4" G	31
2,5	150 psi	1,61	10,04	4,53	17,87	1/4" G	35
3	150 psi	2,00	12,28	4,53	19,56	1/4" G	42
4	150 psi	2,00	14,44	4,53	21,96	1/4" G	55
5	150 psi	2,20	17,01	5,51	24,88	1/4" G	79
6	150 psi	2,36	19,57	6,89	28,42	1/4" G	95
8	150 psi	2,36	25,07	6,89	34,33	1/4" G	190
10	150 psi	2,72	30,59	8,66	40,82	3/8" G	256
12	90 psi ¹	3,07	35,71	8,66	46,14	3/8" G	414
14	90 psi ¹	3,07	41,22	8,66	54,68	3/8" G	514
16	90 psi ¹	3,50	46,10	10,9	60,07	3/8" G	714
18	90 psi ¹	3,50	51,22	15,04	67,24	3/8" G	1003
20	90 psi ¹	4,48	61,93	15,04	72,75	1/2" G	1764
24	90 psi ¹	4,80	72,05	17,48	85,43	3/4" G	2116
28	90 psi ¹	5,04	78,93	17,48	97,83	3/4" G	4409
32	90 psi ¹	5,04	92,12	20,27	110,43	3/4" G	5732
36	90 psi ¹	5,04	102,16	20,27	128,74	3/4" G	7055

* 120 psi with duplex gate

Electric Actuator

DN (in)	Pressures	A (in)	ØG (in)	H (in)	O max.	C (in)	D (in)	E (in)	F (in)	Torque (ft.LBS)
2	150 psi	1,61	6,30	23,30	9,13	10,43	9,80	2,83	9,37	7,4
2,5	150 psi	1,61	6,30	24,17	10,04	10,43	9,80	2,83	9,37	7,4
3	150 psi	2,00	6,30	25,16	12,28	10,43	9,80	2,83	9,37	7,4
4	150 psi	2,00	6,30	26,77	14,44	10,43	9,80	2,83	9,37	11,1
5	150 psi	2,20	6,30	28,11	17,01	10,43	9,80	2,83	9,37	14,75
6	150 psi	2,36	6,30	30,12	19,57	10,43	9,80	2,83	9,37	25,81
8	150 psi	2,36	6,30	34,13	25,07	10,43	9,80	3,23	9,37	29,50
10	150 psi	2,72	7,87	38,54	30,59	11,14	10,00	3,23	9,37	44,25
12	90 psi ¹	3,07	7,87	41,69	35,71	11,14	10,00	3,23	9,37	59,01
14	90 psi ¹	3,07	7,87	46,46	41,22	11,14	10,00	5,04	9,37	70,07
16	90 psi ¹	3,50	12,40	50,12	46,10	15,31	13,22	5,12	11,25	95,88
18	90 psi ¹	3,50	12,40	55,16	51,22	15,31	13,22	5,12	11,25	118,01
20	90 psi ¹	4,48	12,40	65,20	61,93	15,31	13,22	5,12	11,25	140,13
24	90 psi ¹	4,80	12,40	64,60	72,05	15,31	13,22	5,12	11,25	162,26
28	90 psi ¹	5,04	20,00	74,21	78,93	15,31	13,38	7,48	11,25	236,02
32	90 psi ¹	5,04	20,00	82,87	92,12	15,31	13,38	7,48	11,25	295,02
36	90 psi ¹	5,04	20,00	93,50	102,16	20,08	13,97	7,48	12,99	405,66

* 120 psi with duplex gate

