

TD SERIES

UNIDIRECTIONAL KNIFE GATE VALVE

DESCRIPTION

- Unidirectional knife gate valve, with wafer design and quick opening and closing.
- Body composed of two bolted halves, with sliders to provide smooth operation.
- Two opposing stainless steel gates that come together in the centre of the opening, with easy-to-replace components subject to wear and tear.
- Provides high flow rates with low pressure drops.
- Various construction materials and seal and packing materials available. Special materials and surface treatments are available upon request.
- The valve is easy to maintain and refurbish for long-lasting operation, with easily replaceable wear-prone components.
- With its modular design, it can easily adapt to different process conditions by using automation accessories.
- Face-to-face distance in accordance with **CMO Valves** standards.

GENERAL APPLICATIONS

Designed to operate under the most demanding conditions, this knife gate valve handles fluids with high concentrations or heavy contamination, including waste products. It is specially designed for the pulp and paper industry.

Designed for applications such as:

- Paper industry
- Mining
- Wastewater treatment plants
- Silos
- The food industry.

SIZES

From DN50 to DN1200.

Other DNs on request.

FLANGE DRILLING

- EN 1092 PN10.
- ASME B16.5 (class 150).

WORKING PRESSURE (ΔP)

DN50-DN250	10 bar
DN300-DN400	6 bar
DN450	5 bar
DN500-DN600	4 bar
DN700	3 bar
DN800-DN1200	2 bar

Other pressures on request.

OTHERS COMMONLY USED

- PN6.
- PN16.
- PN25.
- JIS standard.
- Australian standard.
- British standard.

Others on request.

RESILIENT SEALS

- EPDM.
- NITRIL.
- FKM.
- SILICONE.

In some applications other types of resilient materials are used, such as hypalon, butile or natural rubber. Please contact us if you have such requirements.

QUALITY DOSSIER

All valves are tested hydrostatically at **CMO Valves** according to our manufacturing and quality protocols, material and test certificates can be provided.

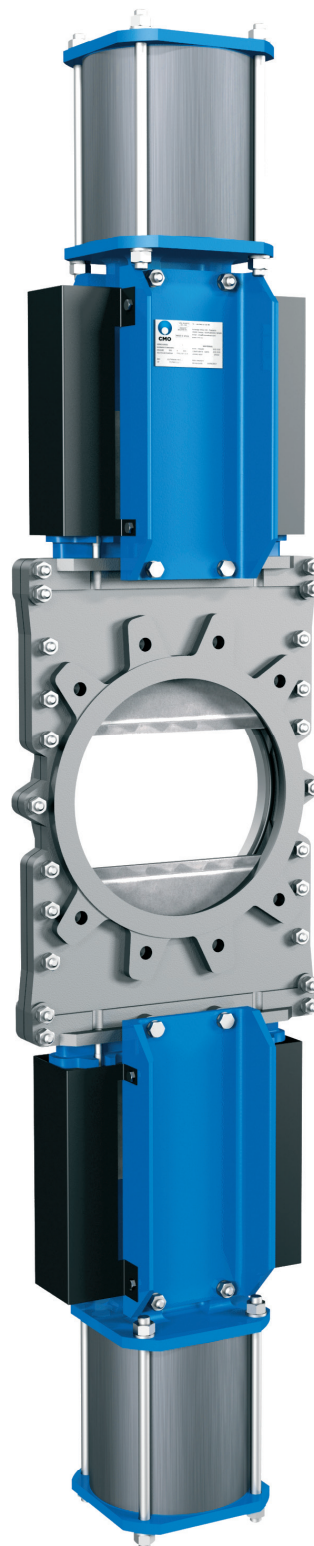
- Body test = working pressure x 1.5.
- Seal test = working pressure x 1.1.

DIRECTIVES

See document of directives applicable to **CMO Valves**.



*For information on categories and zones related to applications in potentially explosive atmospheres (ATEX), please contact the technical-commercial department at **CMO Valves**.*

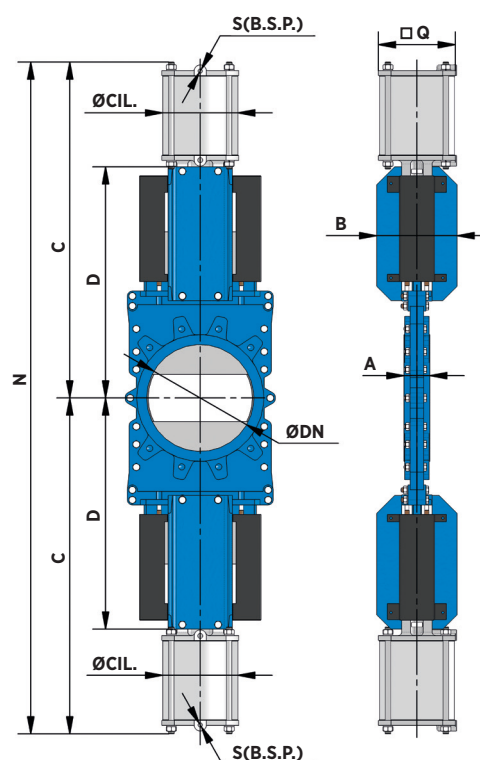


TD SERIES

MANUFACTURING RANGE

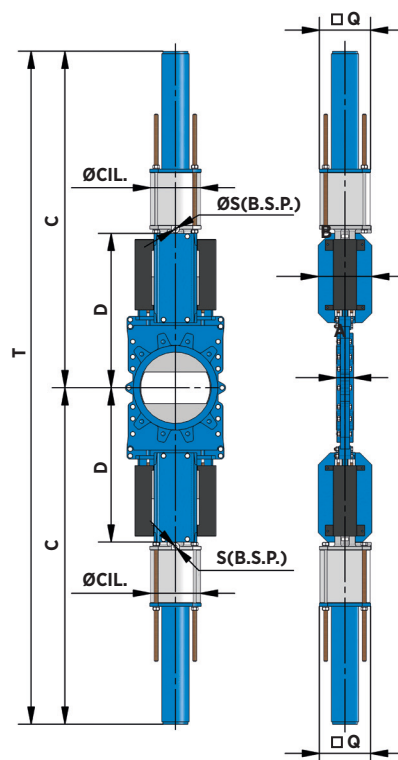
DOUBLE-ACTING PNEUMATIC CYLINDER

DN	ΔP (bar)	A	B	C	D	N	Q	$\varnothing CIL$	$\varnothing V$	S (B.S.P.)
50	10	40	92	370	235	740	96	80	20	1/4"
65	10	40	92	398	256	796	96	80	20	1/4"
80	10	50	92	435	285	870	96	80	20	1/4"
100	10	50	92	493	328	985	110	100	20	1/4"
125	10	50	92	548	371	1095	110	100	20	1/4"
150	10	60	102	595	395	1190	135	125	25	1/4"
200	10	60	119	730	495	1460	170	160	30	1/4"
250	10	70	119	855	585	1710	215	200	30	3/8"
300	6	70	119	937	645	1874	215	200	30	3/8"
350	6	96	290	1098	705	2195	270	250	40	3/8"
400	6	100	290	1215	790	2429	270	250	40	3/8"
450	5	106	290	1318	850	2635	382	300	45	1/2"
500	4	110	290	1420	930	2840	382	300	45	1/2"
600	4	110	290	1590	1055	3180	382	300	45	1/2"
700	3	110	290	1880	1260	3760	444	350	45	1/2"
800	2	110	290	2034	1365	4067	444	350	45	1/2"
900	2	110	350	2208	1475	4415	508	400	50	1/2"
1000	2	110	350	2378	1595	4756	508	400	50	1/2"
1100	2	150	350	2548	1720	5095	508	400	50	1/2"
1200	2	150	400	2765	1885	5530	508	400	50	1/2"



SINGLE-ACTING PNEUMATIC CYLINDER

DN	ΔP (bar)	A	B	C	D	T	Q	$\varnothing CIL$	$\varnothing V$	S (B.S.P.)
50	10	40	92	660	235	1320	135	125	25	1/4"
65	10	40	92	688	256	1376	135	125	25	1/4"
80	10	50	92	725	285	1450	135	125	25	1/4"
100	10	50	92	785	328	1570	135	125	25	1/4"
125	10	50	92	840	371	1680	135	125	25	1/4"
150	10	60	102	850	395	1700	170	160	30	1/4"
200	10	60	119	1225	495	2450	215	200	30	3/8"
250	10	70	119	1660	585	3320	270	250	40	3/8"
300	6	70	119	1742	645	3484	270	250	40	3/8"



The most habitual actuators are those detailed on the tables on previous pages with their respective dimensions, operations with two double-acting pneumatic cylinders and operations with two single-acting pneumatic cylinders. Although they can be supplied with other actuators, for example with a manual handwheel, geared, electric motor or hydraulics. What they do have in common is that each valve requires two actuators as this type of valve in particular has two knives.

If you wish the valve to have one of these actuators, please request information regarding dimensions and characteristics from the technical-commercial department at **CMO Valves**.

No obligation consultation on dimensions and drawings. **CMO Valves** reserves the right to modify them at any time, at its discretion and without prior notice.

Larger sizes on request.

www.cmovalves.com/valves



Visit our website to see the full features of the TD Series.

INFORMATION ON FLANGE DIMENSIONS

EN 1092-2 PN10

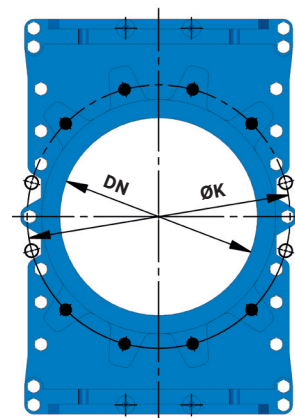
FLANGE DRILLING - TD

DN	●	○	R	p	ØK
50	4	-	M 16	8	125
65	4	-	M 16	8	145
80	4	4	M 16	9	160
100	4	4	M 16	9	180
125	4	4	M 16	9	210
150	4	4	M 20	10	240
200	4	4	M 20	10	295
250	8	4	M 20	12	350
300	8	4	M 20	12	400
350	12	4	M 20	21	460
400	12	4	M 24	21	515
450	16	4	M 24	22	565
500	16	4	M 24	22	620
600	16	4	M 27	22	725
700	20	4	M 27	22	840
800	20	4	M 30	22	950
900	24	4	M 30	20	1050
1000	24	4	M 33	20	1160
1100	28	4	M 33	20	1270
1200	28	4	M 36	22	1380

Larger sizes on request.

● Threaded holes.

○ Through holes.



ANSI B16, class 150

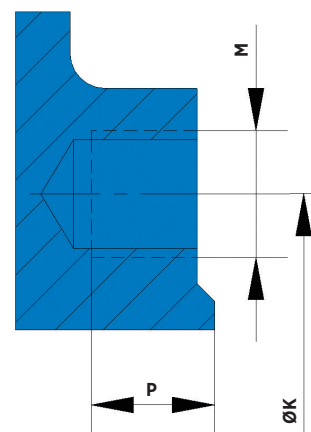
FLANGE DRILLING - TD

DN	●	○	R UNC	p	ØK
2"	4	-	5/8"	8	120,6
2 1/2"	4	-	5/8"	8	139,7
3"	4	-	5/8"	9	152,4
4"	4	4	5/8"	9	190,5
5"	4	4	3/4"	9	215,9
6"	4	4	3/4"	10	241,3
8"	4	4	3/4"	10	298,4
10"	8	4	7/8"	12	361,9
12"	8	4	7/8"	12	431,8
14"	8	4	1"	21	476,2
16"	12	4	1"	21	539,7
18"	12	4	1 1/8"	22	577,8
20"	16	4	1 1/8"	22	635
24"	16	4	1 1/4"	22	749,3
28"	24	4	1 1/4"	22	863,6
32"	24	4	1 1/4"	22	977,9
36"	28	4	1 1/2"	20	1085,9
40"	32	4	1 1/2"	20	1200,2

Larger sizes on request.

● Threaded holes.

○ Through holes.



As part of a process of on-going product and service development, **CMO Valves** reserves the right to amend and change the data and content of this document at its discretion at any time without notice. The publication of the latest revision renders all previous documents invalid.

Installation and Maintenance Manual available at www.cmovalves.com.