E SERIES

UNIDIRECTIONAL KNIFE GATE VALVE

DESCRIPTION

- Knife gate valve, unidirectional with Wafer design and round inlet and square outlet
- The valve body for model **E** comprise two half bodies. The inside of these two parts is machined and is joined using bolts to create thereby a solid block.
- The gate moves smoothly thanks to high resistance slides inserted on the inside of both parts of the body. There is also an option that these guide can be in PTFE or bronze.
- Both body composed of two screwed halves, with sliders to provide a smooth manoeuvre.
- It provides high flow rates with low pressure drops.
- Various constructions materials and seal and stuffing materials available.
- Face-to-face distance in accordance with **CMO Valves** standards.

GENERAL APPLICATIONS

This knife gate valve is suitable for working in very difficult conditions with fluids that contain a high solid load. It is very suitable for pulp shredders in paper recycling lines and in general in places working with hard particles such as metal parts (staples, clips...) and stones. Positioning is preferable in a horizontal position and the outlet (square) is larger than the inlet (round), so that solids are not accumulated in the valve and thus do not interfere when closing the gate.

SIZES

From DN50 to DN1200.

Other DNs on request.

WORKING PRESSURE (ΔP)

DN50-DN450	7 bar
DN500-DN1200	4 bar

Other pressures on request.

FLANGE DRILLING

- PN10.
- ANSI B16.5 (150 LB).

Only for the inlet mouth of the valve, round flange.

OTHERS COMMONLY USED

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

Others on request.

RESILIENT SEALS

- EPDM.
- NITRILE.
- FKM.
- SILICONE.
- PTFE.

*Various materials are available for the reinforced socket and the deflector (CA-15, CF8M and Ni-hard...). In some applications other types of rubber are used, such as: hypalon, butyl or natural rubber. Please contact **CMO Valves** if you have such requirements.*

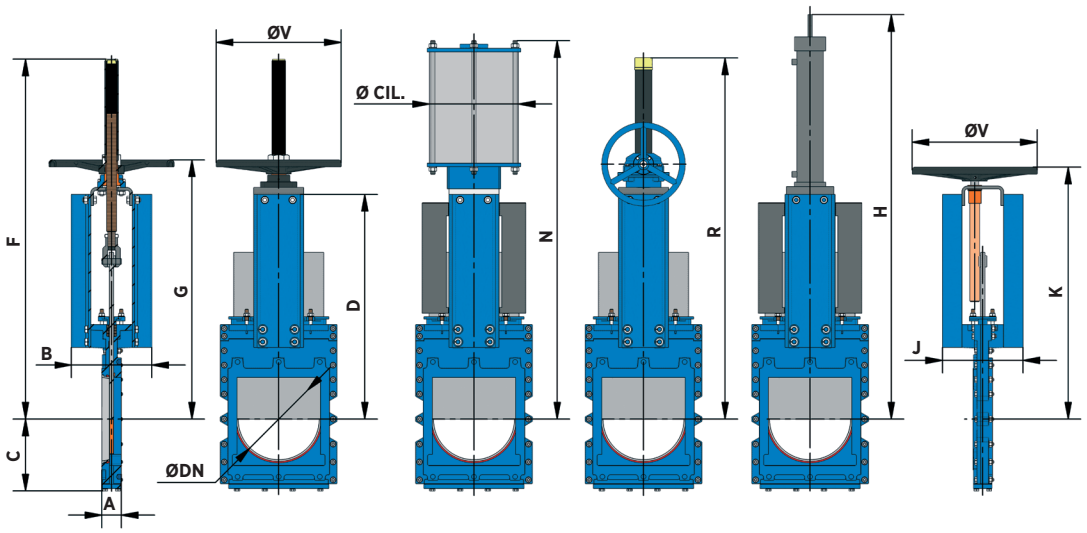
DIRECTIVES

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

*For further information on categories and zones please contact **CMO Valves**. Technical-Commercial Department.*

QUALITY DOSSIER

All valves are tested hydrostatically at **CMO Valves** and material and test certificates can be provided.
- Body test = working pressure x 1.5.
- Seal test = working pressure x 1.1.



MANUFACTURING RANGE

DIMENSIONS – E

DN	A	B	C	D	F	G	ØV	N	ØCIL.	R	H	J	K
50	40	91	86	243	410	280	225	425	80	540	457	91	280
65	40	91	95	269	437	308	225	470	80	566	500	91	308
80	50	91	114	292	463	333	225	510	100	592	560	91	333
100	50	91	135	334	503	373	225	557	100	632	620	91	373
125	50	102	145	392	586	407	225	665	125	665	683	102	407
150	60	119	155	425	638	458	225	814	160	717	683	119	458
200	60	119	185	525	816	578	325	940	200	942	755	119	578
250	70	290	235	620	1007	669	325	1070	250	1043	926	290	679
300	70	290	265	715	1095	757	380	1220	250	1193	1077	290	779
350	96	290	290	781	1307	876	450	1440	300	1335	1246	290	906
400	100	290	325	861	-	-	-	1480	300	1441	1376	-	-
450	106	290	350	985	-	-	-	1780	350	1677	1532	-	-
500	110	320	380	1064	-	-	-	1875	350	1789	1707	-	-
600	110	320	470	1224	-	-	-	2095	350	2108	1869	-	-
700	110	350	525	1425	-	-	-	2540	400	2406	2202	-	-
800	110	350	575	1615	-	-	-	2720	400	2790	2839	-	-
900	110	350	650	1823	-	-	-	3060	400	3130	3193	-	-
1000	110	400	725	1992	-	-	-	3470	400	3440	3437	-	-
1100	150	400	800	2234	-	-	-	3820	400	3765	3775	-	-
1200	150	400	870	2351	-	-	-	4220	400	4050	4161	-	-

*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

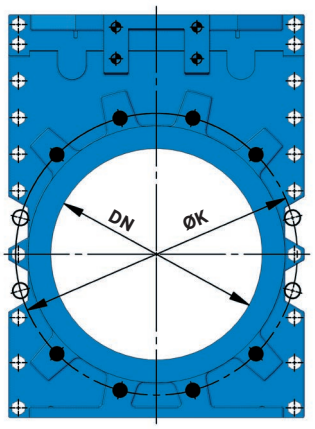
*Visit our website to see the full features of the **E** Series.*

FLANGE DIMENSIONS INFORMATION IN ACCORDANCE WITH EN 1092- 2 PN10

FLANGE DRILLING – E

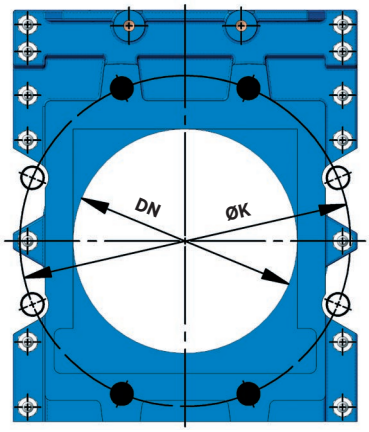
DN	ROUND FLANGE			SQUARE FLANGE							R	P
	○	●	ØK	N	T	U	W	●	○	ØK		
50	4	-	125	= ROUND FLANGE				4	-	125	M 16	8
65	4	-	145	= ROUND FLANGE				4	-	145	M 16	8
80	4	4	160	= ROUND FLANGE				4	4	160	M 16	9
100	4	4	180	= ROUND FLANGE				4	4	180	M 16	9
125	4	4	210	= ROUND FLANGE				4	4	210	M 16	9
150	4	4	240	= ROUND FLANGE				4	4	240	M 20	10
200	4	4	295	= ROUND FLANGE				4	4	295	M 20	10
250	8	4	350	= ROUND FLANGE				4	4	350	M 20	12
300	8	4	400	2x148	-	400	-	6	4	400	M 20	12
350	12	4	460	3x100	300	460	460	12	4	460	M 20	21
400	12	4	515	3x110	330	515	515	12	4	515	M 24	21
450	16	4	565	4x116	344	565	565	14	4	565	M 24	22
500	16	4	620	4x130	360	620	620	14	4	620	M 24	22
600	16	4	725	4x155	415	725	725	14	4	725	M 27	22
700	20	4	840	6x120	115+305+115	832	832	22	4	840	M 27	22
800	20	4	950	6x137	145+360+145	940	940	22	4	950	M 30	22
900	24	4	1050	6x155	160+410+160	1042	1042	22	4	1050	M 30	20
1000	24	4	1160	162+(5x164)+162	(2x170)+465+(2x170)	1144	1145	24	4	1160	M 33	20

ROUND FLANGE

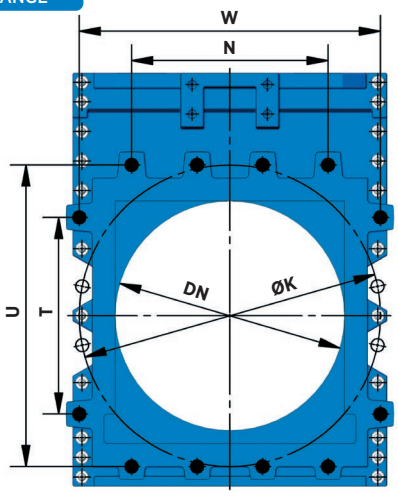


DN50 ➜ DN1000

SQUARE FLANGE



DN50 ➜ DN250



DN300 ➜ DN1000

FLANGE DIMENSIONS INFORMATION IN ACCORDANCE WITH EN ANSI B16, CLASS 150

FLANGE DRILLING – E

DN	ROUND FLANGE			SQUARE FLANGE						R – UNC	P
	○	●	ØK	N	T	U	W	●	○	ØK		
2”	4	-	120,6	= ROUND FLANGE				4	-	120,6	5/8”	8
2 ½”	4	-	139,7	= ROUND FLANGE				4	-	139,7	5/8”	8
3”	4	-	152,4	= ROUND FLANGE				4	-	152,4	5/8”	9
4”	4	4	190,5	= ROUND FLANGE				4	4	190,5	5/8”	9
5”	4	4	215,9	= ROUND FLANGE				4	4	215,9	3/4”	9
6”	4	4	241,3	= ROUND FLANGE				4	4	241,3	3/4”	10
8”	4	4	298,4	= ROUND FLANGE				4	4	298,4	3/4”	10
10”	8	4	361,9	= ROUND FLANGE				4	4	361,9	7/8”	12
12”	8	4	431,8	2x148	-	400	-	6	4	431,8	7/8”	12
14”	8	4	476,2	3x100	300	460	460	12	4	476,2	1”	21
16”	12	4	539,7	3x110	330	515	515	12	4	539,7	1”	21
18”	12	4	577,8	4x116	344	565	565	14	4	577,8	1⅛”	22
20”	16	4	635	4x130	360	620	620	14	4	635	1⅛”	22
24”	16	4	749,3	4x155	415	725	725	14	4	749,3	1¼”	22
28”	24	4	863,6	6x120	115+305+115	832	832	22	4	863,6	1¼”	22
32”	24	4	977,9	6x137	145+360+145	940	940	22	4	977,9	1½”	22
36”	28	4	1085,9	6x155	160+410+160	1042	1042	22	4	1085,9	1½”	20
40”	32	4	1200,2	162+(5x164)+162	(2x170)+465+(2x170)	1144	1145	24	4	1200,2	1½”	20

Larger sizes on request.

● *Threaded holes.*

○ *Through holes.*