

A SERIES

UNIDIRECTIONAL KNIFE GATE VALVE - WAFER DESIGN

DESCRIPTION

- One-piece cast unidirectional valve with body with guides to support the knife gate and sealing wedges. The interior of the body is tapered, providing more space. This means that the solids stored inside can be easily released when the valve is closed.
- Designed with full passage to provide large flows with low pressure losses.
- The body's internal design prevents any build up of solids in the seat area.
- High flow rates with low pressure drops.
- Multiple sealing and packing materials.
- Face-to-face distance in accordance with **CMO Valves** standard.
- An arrow is marked on the body indicating the flow direction.
- Manual drives (handwheel, lever, geared motor with handwheel) and actuated drives (pneumatic, hydraulic, and electric drives) are available, depending on application requirements.

GENERAL APPLICATIONS

This knife gate valve is suitable for liquids that contain a maximum of 5% suspended solids. If it is used for dry solids in gravity feed applications it should be installed with the arrow on the body pointing in the opposite direction to the flow.

Designed for applications such as:

- Paper Industry
- Mining
- Silo emptying
- Chemical plants
- Pumping
- Food Industry
- Sewage treatment.

SIZES

DN50 to DN1200.

Others ND on request.

WORKING PRESSURE (ΔP)

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

Other pressures, consult.

The mentioned working pressures are just valid for the pressures applied on the direction of the arrow marked on the body. As the valve is designed with gate support guides, the valves are able to support a 30% of these pressures from the opposite direction without any damage on them. Achieving watertight integrity under these conditions requires additional brackets; contact **CMO Valves** in such cases.

TALADRADO DE BRIDAS

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

OTHERS COMMONLY USED

- PN6.
- PN16.
- PN25.
- BS "D" and "E".
- JIS10K.

Others on request.

RESILIENT SEALS

- EPDM.
- NITRILO.
- 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**.



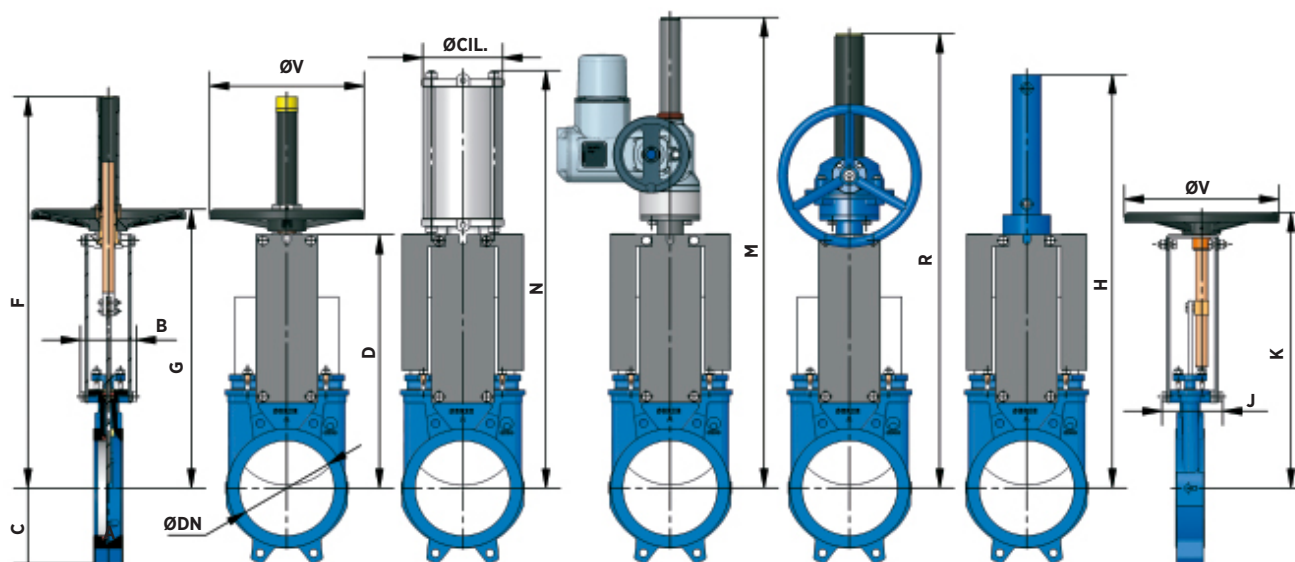
For information on categories and zones related to applications in potentially explosive atmospheres (ATEX), please contact the technical-commercial department at **CMO Valves**.



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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.



MANUFACTURING RANGE

DIMENSIONS - A

DN	A	B	C	D	F	G	ØV	N	ØCIL.	M	R	H	J	K
50	40	92	63	241	409	280	220	415	80	595	540	460	101	280
65	40	92	70	268	436	308	220	455	80	622	566	500	101	308
80	50	92	92	294	469	333	220	498	80	647	592	560	101	330
100	50	92	105	334	502	373	220	565	100	687	632	620	101	373
125	50	102	120	367	585	407	220	636	125	720	665	683	111	407
150	60	102	130	419	644	458	220	717	125	772	717	755	111	458
200	60	119	160	525	815	578	320	874	160	990	942	926	128	578
250	70	119	198	626	1016	679	320	1036	200	1090	1043	1077	128	679
300	70	119	234	726	1116	779	400	1182	200	1190	1194	1245	128	779
350	96	290	256	797	1336	906	450	1380	250	1302	1335	1376	305	906
400	100	290	292	903	1442	1012	450	1530	250	1460	1441	1535	305	1012
450	106	290	308	989	1628	1098	450	1677	300	1755	1677	1710	305	1098
500	110	290	340	1101	1738	1210	450	1839	300	1870	1789	1870	305	1210
600	110	290	398	1307	2046	1416	450	2146	300	2043	2045	2175	305	1416
700	110	320	453	1506	-	-	-	2481	350	2401	2401	2525	-	-
800	110	320	503	1720	-	-	-	2798	350	2715	2715	2839	-	-
900	110	320	583	1953	-	-	-	3167	400	3043	3043	3172	-	-
1000	110	320	613	2137	-	-	-	3451	400	3351	3351	3496	-	-
1100	150	340	728	2616	-	-	-	4135	400	4042	4042	4174	-	-

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 A/A-LUG Series.

FLANGE DRILLING - A

DN	ΔP (bar)	PN10						ASA150					
		●	○	M	P	ØK		●	○	R UNC	P	ØK	
50	10	4	-	M 16	8	125		4	-	5/8"	8	120,6	
65	10	4	-	M 16	8	145		4	-	5/8"	8	139,7	
80	10	4	4	M 16	9	160		4	-	5/8"	9	152,4	
100	10	4	4	M 16	9	180		4	4	5/8"	9	190,5	
125	10	4	4	M 16	9	210		4	4	3/4"	9	215,9	
150	10	4	4	M 20	10	240		4	4	3/4"	10	241,3	
200	10	4	4	M 20	10	295		4	4	3/4"	10	298,4	
250	10	6	6	M 20	12	350		6	6	7/8"	12	361,9	
300	6	6	6	M 20	12	400		6	6	7/8"	12	431,8	
350	6	10	6	M 206	21	460		8	4	1"	21	476,2	
400	6	10	6	M 24	21	515		10	6	1"	21	539,7	
450	5	14	6	M 24	22	565		10	6	1 1/8"	22	577,8	
500	4	14	6	M 24	22	620		14	6	1 1/8"	22	635	
600	4	14	6	M 27	22	725		14	6	1 1/4"	22	749,3	
700	3	16	8	M 27	22	840		20	8	1 1/4"	22	863,6	
800	3	16	8	M 30	22	950		20	8	1 1/2"	22	977,9	
900	3	20	8	M 30	20	1050		20	12	1 1/2"	20	1085,9	
1000	3	20	8	M 33	20	1160		24	12	1 1/2"	20	1200,2	
1100	3	20	12	M 36	22	1380		26	18	1 1/2"	24	1422,4	

Larger sizes on request.

- Threaded holes.
- Through holes.

