

AD SERIES

UNIDIRECTIONAL FLANGED KNIFE GATE VALVE

DESCRIPTION

- One-piece cast body with guides to support gate and seat wedges.
- High flow rates with low load losses.
- Stainless steel gate.
- Various construction materials and seal and stuffing materials available.
- Face-to-face distance in accordance with **CMO Valves** standard.
- An arrow is marked on the body indicating the flow direction.

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.
- Chemical plants.
- Pumping.
- Food industry.
- Sewage treatment.

SIZES

From DN50 to DN1200.

Other DN's 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 on request.

Indicated work pressures will only be valid following the direction of the arrow marked on the valve. Due to the valve's design with gate support guides, 30% of these pressures can be applied in the opposite direction to the arrow without causing any damage to it. In these circumstances the valve is not watertight. An additional series of supports is necessary in order to achieve tightness in these conditions.

FLANGE DRILLING

- EN1092 PN10.
- ASME B16.5 (class 150).

OTHERS COMMONLY USED

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

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...).

DIRECTIVES

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



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

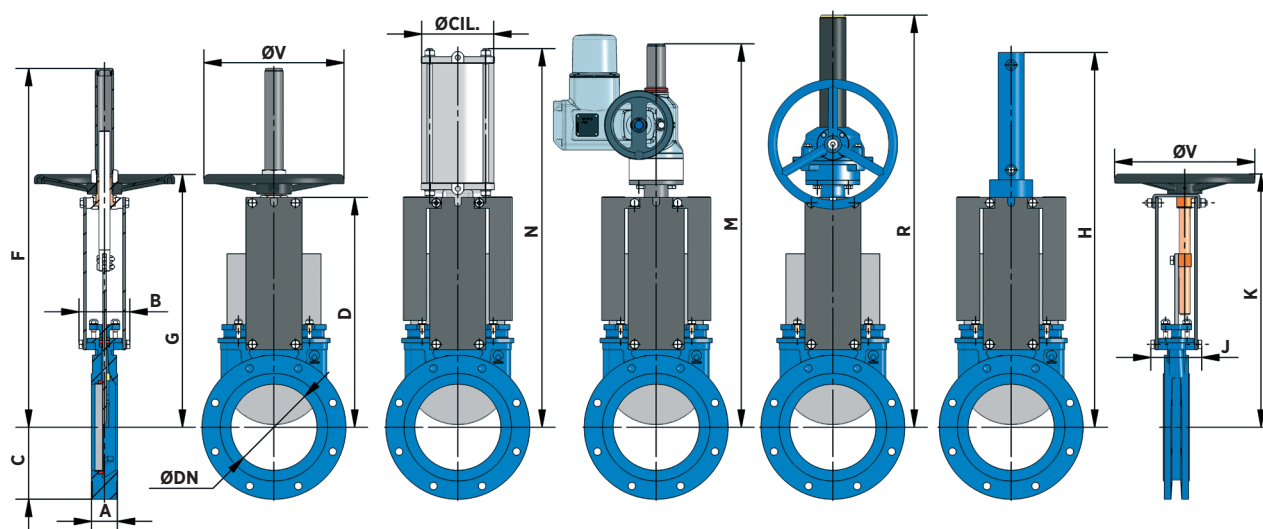
QUALITY DOSSIER

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.



AD SERIES



MANUFACTURING RANGE

DN	A	B	C	D	F	G	ØV	N	ØCIL	M	R	H	J	K
50	40	92	63	241	409	280	225	415	80	595	540	460	101	280
65	40	92	70	268	436	307	225	455	80	622	566	500	101	308
80	50	92	100	294	469	333	225	498	80	647	592	560	101	333
100	50	92	114,5	334	502	373	225	565	100	687	632	620	101	373
125	50	102	127	367	585	406	225	636	125	720	665	683	111	407
150	60	102	142,5	419	644	458	225	717	125	772	717	755	111	458
200	60	119	171,5	525	815	578	325	874	160	990	942	926	128	578
250	70	119	203	626	1016	679	325	1036	200	1090	1043	1077	128	679
300	70	119	242,5	726	1116	779	380	1182	200	1190	1194	1245	128	779
350	96	290	267,5	797	1336	906	450	1380	250	1305	1335	1376	305	906
400	100	290	297,5	903	1442	1012	450	1530	250	1460	1441	1535	305	1012
450	106	290	320	989	1628	1098	450	1677	300	1755	1677	1710	305	1098
500	110	290	357,5	1101	1738	1210	450	1839	300	1870	1789	1870	305	1210
600	110	290	420	1307	2046	1416	450	2146	300	2045	2045	2175	305	1416
700	110	320	455	1506	-	-	-	2481	350	2401	2401	2525	-	-
800	110	320	505	1720	-	-	-	2798	350	2715	2715	2839	-	-
900	110	320	585	1953	-	-	-	3167	400	3043	3043	3172	-	-
1000	110	320	615	2137	-	-	-	3451	400	3351	3351	3496	-	-
1200	150	340	730	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.

DIMENSIONS - AD

www.cmovalves.com/valves



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

FLANGE DRILLING - AD

DN	ΔP (bar)	PN10				ND	ASA150			
		●	M	P	ØK		●	R UNC	P	ØK
50	10	4	M 16	8	125	2"	4	5/8"	8	120,6
65	10	4	M 16	8	145	2 1/2"	4	5/8"	8	139,7
80	10	8	M 16	9	160	3"	4	5/8"	9	152,4
100	10	8	M 16	9	180	4"	8	5/8"	9	190,5
125	10	8	M 16	9	210	5"	8	3/4"	9	215,9
150	10	8	M 20	10	240	6"	8	3/4"	10	241,3
200	10	8	M 20	10	295	8"	8	3/4"	10	298,4
250	10	12	M 20	12	350	10"	12	7/8"	12	361,9
300	6	12	M 20	12	400	12"	12	7/8"	12	431,8
350	6	16	M 20	21	460	14"	12	1"	21	476,2
400	6	16	M 24	21	515	16"	16	1"	21	539,7
450	5	20	M 24	22	565	18"	16	1 1/8"	22	577,8
500	4	20	M 24	22	620	20"	20	1 1/8"	22	635
600	4	20	M 27	22	725	24"	20	1 1/4"	22	749,3
700	3	24	M 27	22	840	28"	28	1 1/4"	22	863,6
800	3	24	M 30	22	950	32"	28	1 1/2"	22	977,9
900	3	28	M 30	20	1050	36"	32	1 1/2"	20	1085,8
1000	3	28	M 33	20	1160	40"	36	1 1/2"	20	1200,2
1200	3	32	M 36	20	1380	48"	44	1 1/2"	24	1422,4

Larger sizes on request.

● Threaded holes.

