

F SERIES

UNIDIRECTIONAL WAFER TYPE KNIFE GATE VALVE

DESCRIPTION

- One-piece EXTRA-WIDE cast body with guides to support gate and seat wedges.
- Provides high flow rates with low pressure drops.
- Various constructions materials and seal and stuffing materials available.
- Stainless steel gate.
- Face-to-face distance in accordance with **CMO Valves** standards.
- An arrow is marked on the body indicating the flow direction.
- Flushing holes in the body.

GENERAL APPLICATIONS

Due to the special design of this knife gate valve, it is suitable for working with dry products such as dust and grain. Generally used in gravity discharge of dry solids.

Designed for applications such as:

- Storage, silos.
- Food industry.

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 and applications with flows containing liquids upon request.

*For application with flows containing liquids check with **CMO Valves***

This valve is usually mounted under a hopper. To prevent any type of solids from accumulating in the seat, the valve has a special body design and will be mounted with the body arrow in the same direction as the flow.

FLANGE DRILLING

- PN10.
- ANSI B 16.5 (class 150).

OTHERS COMMONLY USED

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

Others on request.

RESILIENT SEALS

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

*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.*

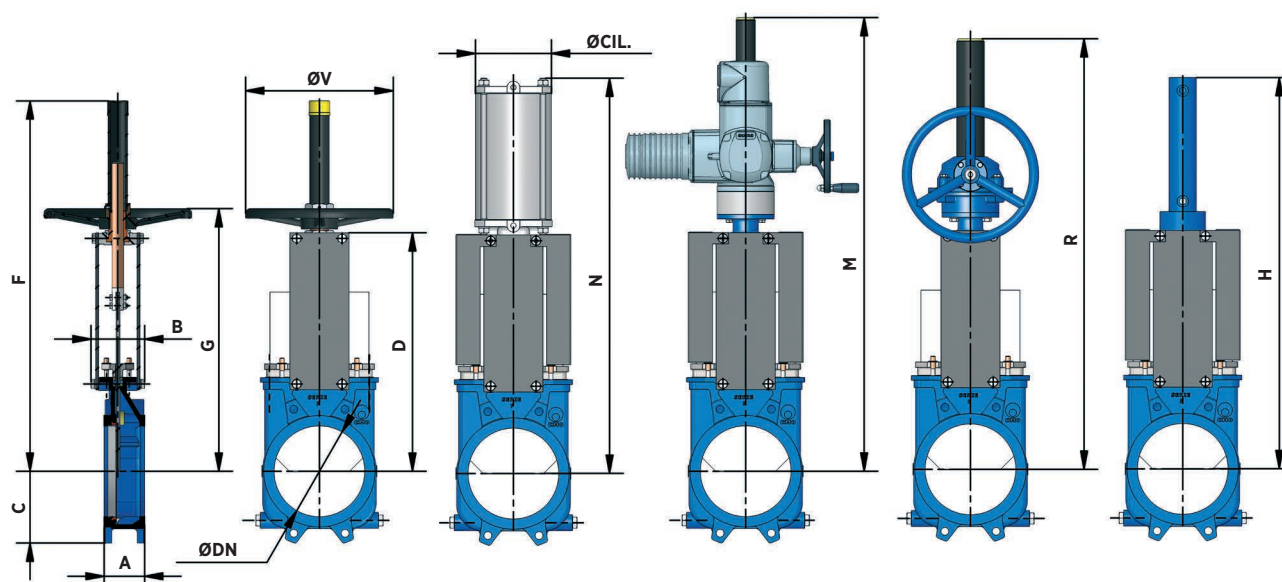
QUALITY DOSSIER

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.



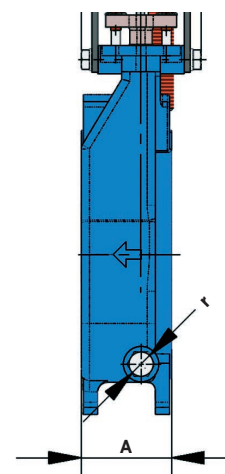
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MANUFACTURING RANGE

DIMENSIONS - F

DN	A	B	C	D	F	G	ØV	N	M	R	H	r (B.S.P.)	ØCIL
50	60	91	61	241	410	280	225	416	581	537	457	1/4"	80
65	60	91	68	268	437	308	225	456	607	564	500	1/4"	80
80	64	91	91	294	463	333	225	498	632	590	560	1/4"	80
100	64	91	104	334	503	373	225	562	672	630	620	1/4"	100
125	70	101	118	367	586	407	225	636	705	663	683	3/8"	125
150	76	101	130	419	638	458	225	717	757	715	755	3/8"	125
200	89	118	158	525	816	578	325	874	988	943	926	3/8"	160
250	114	118	196	616	1007	669	325	1036	1089	1033	1077	1/2"	200
300	114	118	230	704	1095	757	380	1182	1190	1121	1246	1/2"	200
350	127	290	247	767	1307	876	450	1381	1302	1305	1376	1/2"	250
400	140	290	290	865	1405	974	450	1530	1458	1403	1532	1/2"	250
450	152	290	304	989	1629	1098	450	1676	1754	1677	1707	1/2"	300
500	152	290	340	1101	1741	1210	450	1839	1866	1788	1869	1/2"	300
600	178	290	398	1307	2047	1416	450	2145	2073	1995	2176	1/2"	300
700	178	320	453	1506	2401	1656	-	2481	2391	2401	2525	1/2"	350
800	178	320	503	1720	2715	1870	-	2798	2705	2715	2839	1/2"	350
900	178	320	583	1953	3043	2103	-	3167	3033	3043	3172	1/2"	400
1000	178	320	613	2137	3351	2287	-	3451	3328	3351	3496	1/2"	400
1200	203	340	728	2616	4042	2766	-	4133	4047	4042	4175	1/2"	400



FLANGE DRILLING - F

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	8	4	M 20	12	350	8	4	7/8"	12	361,9		
300	6	8	4	M 20	12	400	8	4	7/8"	12	431,8		
350	6	12	4	M 20	21	460	8	4	1"	21	476,2		
400	6	12	4	M 24	21	515	12	4	1"	21	539,7		
450	5	16	4	M 24	22	565	12	4	1 1/8"	22	577,8		
500	4	16	4	M 24	22	620	16	4	1 1/8"	22	635		
600	4	16	4	M 27	22	725	16	4	1 1/4"	22	749,3		
700	3	20	4	M 27	22	840	24	4	1 1/4"	22	863,6		
800	3	20	4	M 30	22	950	24	4	1 1/2"	22	977,9		
900	3	24	4	M 30	20	1050	28	4	1 1/2"	20	1085,9		
1000	3	24	4	M 33	20	1160	32	4	1 1/2"	20	1200,2		
1200	2	28	4	M 36	22	1380	40	4	1 5/8"	20	1422,4		

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.

- Threaded holes.
- Through holes.

www.cmovalves.com/valves



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