

TECHNICAL DATA

T SERIES



ARNETT
ENGINEERED SOLUTIONS

ARNETT ENGINEERED SOLUTIONS
61 INNOVATION DRIVE, BAMBERG, SC 29003

(844) 785-7585 | SALES@ARNETT.COM

WWW.ARNETT.COM

UNIDIRECTIONAL LUG TYPE KNIFE GATE VALVE

DESCRIPTION

- One-piece cast body, with interior slides for optimum movement of the knife during operation.
- Provides high flow rates with low pressure drops.
- Various construction materials and seal and stuffing materials available.
- Stainless steel gate.
- Face-to-face distance in accordance with MSS -81 standards.
- An arrow is marked on the body indicating the flow direction.

GENERAL APPLICATIONS

This knife gate valve is suitable for working with liquids with a maximum solids concentration of 10%. If used for solids, it should be installed with the body arrow indicating the direction of flow in the opposite direction

Designed for applications such as:

- Paper industry.
- Mining.
- Chemical plants.
- Pumping.
- Food industry.
- Water treatment.

SIZES

From DN50-2" to DN1200-48".

Other DN's on request.

WORKING PRESSURE (ΔP)

ND50 - ND600	2" - 24"	10 kg/cm ²
ND700 - ND900	28" - 36"	6 kg/cm ²
ND1000 - ND1200	40" - 48"	4 kg/cm ²

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.
- 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...).

MATERIALS

Body: GJS500-7 Cast Iron or stainless steel CF8M.

Gate: AISI304 or AISI316 Stainless Steel, polished to reduce wear.

Sealing Materials: Available in: Natural Rubber, EPDM, Nitrile, Polyurethane, FKM.

DIRECTIVES

See document of directives applicable to CMO Valves.



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

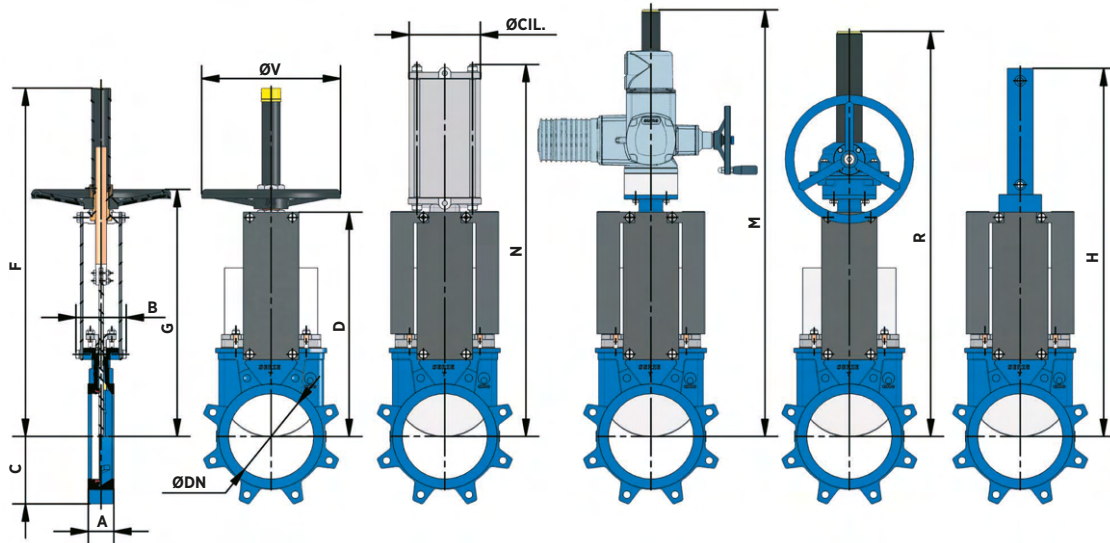
QUALITY DOSSIER

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.



T SERIES



MANUFACTURING RANGE

DIMENSIONS - T

DN	DN	A	A	B	C	D	F	G	ØV	N	ØCIL.	M	R	H
50	2"	47,6	1 7/8"	91	61	241	410	280	225	416	80	581	540	457
65	2 1/2"	47,6	1 7/8"	91	68	268	437	308	225	456	80	607	566	500
80	3"	50,8	2"	91	91	294	463	333	225	498	80	632	592	560
100	4"	50,8	2"	91	104	334	503	373	225	562	100	672	632	620
125	5"	57,2	2 1/4"	101	118	367	586	407	225	636	125	705	665	683
150	6"	57,2	2 1/4"	101	130	419	638	458	225	723	160	757	717	755
200	8"	69,9	2 3/4"	118	159	525	816	578	325	886	200	988	942	926
250	10"	69,9	2 3/4"	118	196	626	1017	679	325	1133	250	1089	1043	1077
300	12"	76,2	3"	118	231	726	1117	779	380	1278	300	1189	1193	1246
350	14"	76,2	3"	290	257	797	1337	906	450	1383	350	1335	1335	1376
400	16"	88,9	3 1/2"	290	290	903	-	-	-	1532	400	1441	1441	1532
450	18"	88,9	3 1/2"	290	312	989	-	-	-	-	-	1677	1677	1707
500	20"	114,3	4 1/2"	290	340	1101	-	-	-	-	-	1789	1789	1869
600	24"	114,3	4 1/2"	290	398	1307	-	-	-	-	-	2108	2108	2202
700	28"	114,3	4 1/2"	320	453	1506	-	-	-	-	-	2406	2406	2525
750	30"	117,5	4 5/8"	320	489	1620	-	-	-	-	-	2565	2565	2670
800	32"	117,5	4 5/8"	320	503	1720	-	-	-	-	-	2790	2790	2818
900	36"	117,5	4 5/8"	320	583	1953	-	-	-	-	-	3130	3130	3193
1000	40"	117,5	4 5/8"	320	613	2137	-	-	-	-	-	3440	3440	3437
1100	44"	152,4	6"	340	670	2375	-	-	-	-	-	3765	3765	3775
1200	48"	152,4	6"	340	728	2616	-	-	-	-	-	4050	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.arnett.com/cmo



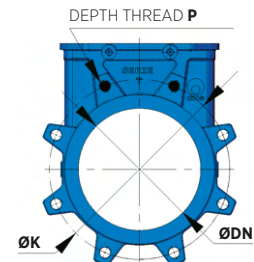
Visit our website to see the full features of the T Series.

FLANGE DRILLING - T

DN	DN	ΔP (bar)	PN10				ASA150			
			●	M	P	ØK	●	R UNC	P	ØK
50	2"	10	4	M 16	8	125	4	5/8"	8	120,6
65	2 1/2"	10	4	M 16	8	145	4	5/8"	8	139,7
80	3"	10	8	M 16	9	160	4	5/8"	9	152,4
100	4"	10	8	M 16	9	180	8	5/8"	9	190,5
125	5"	10	8	M 16	9	210	8	3/4"	9	215,9
150	6"	10	8	M 20	10	240	8	3/4"	10	241,3
200	8"	10	8	M 20	10	295	8	3/4"	10	298,4
250	10"	10	12	M 20	12	350	12	7/8"	12	361,9
300	12"	10	12	M 20	12	400	12	7/8"	12	431,8
350	14"	10	16	M 20	21	460	12	1"	21	476,2
400	16"	10	16	M 24	21	515	16	1"	21	539,7
450	18"	10	20	M 24	22	565	16	1 1/2"	22	577,8
500	20"	10	20	M 24	22	620	20	1 1/2"	22	635
600	24"	10	20	M 27	22	725	20	1 1/4"	22	749,3
700	28"	6	24	M 27	22	840	28	1 1/4"	22	863,6
750	30"	6	24	M 30	22	900	28	1 1/4"	22	914,4
800	32"	6	24	M 30	22	950	28	1 1/2"	22	977,9

Larger sizes on request.

● Threaded holes.



ARNETT

ENGINEERED SOLUTIONS



ARNETT ENGINEERED SOLUTIONS
61 INNOVATION DRIVE, BAMBERG, SC 29003

(844) 785-7585 | SALES@ARNETT.COM

WWW.ARNETT.COM