Ref. : VG6400-004.pas

Rev. : E

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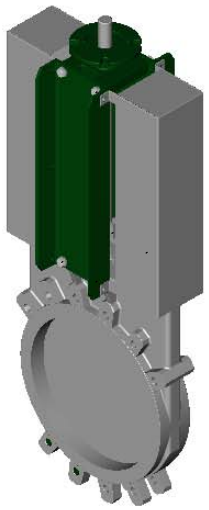
KNIFE GATE VALVE STAINLESS STEEL BODY WITH MOUNTING PLATE FOR MOTORIZATION

VG6400-004

Tecofi FAREX FLUID SOLUTION DESIGNER

APPLICATION

General use : Pulp production, water, water treatment, waste water, chemical industry (powdery or crystallizing products), wine-producing, pulverized products (cement work, pneumatic transport, stocking).



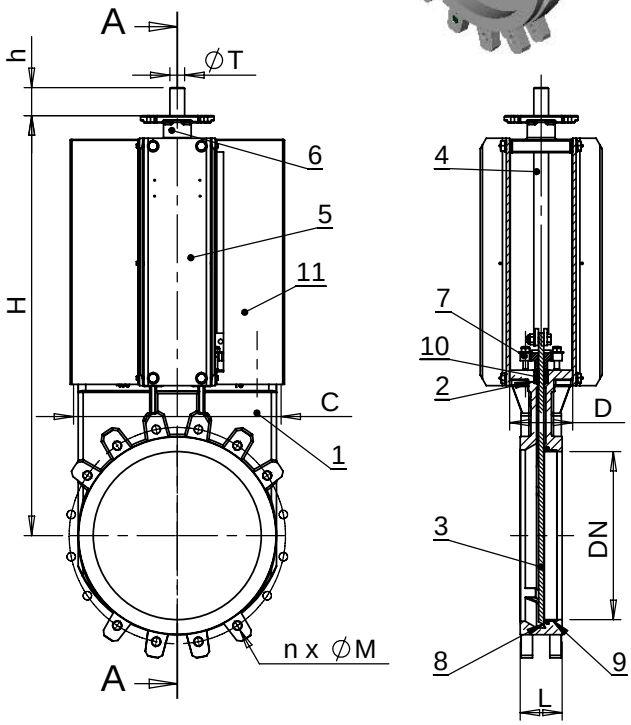
GENERAL CHARACTERISTICS

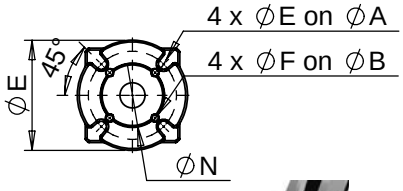
Range : from DN 50 to DN 600.
Function ON/OFF or regulation.
Wafer threaded mounting ISO PN10.
Unidirectional tightness, direction indication thanks to the arrow on the body.
Small retention zone : the gate is guided in the body and has little clearance.
Gland assembly: packing and O-ring (same materials as seat joint) to assure the elasticity and decrease the operating torque.
Small head loss. Possibility to regulate thick fluids with the adaptation of a diaphragm ring. The range of knife gate valves is conceived to accept normally all the types of electric actuators thanks to its mounting flange of connecting according to the standard ISO 5210.

CONSTRUCTION

Pos.	Qty.	Description	Material	
11	2	Lateral protection	Stainless steel 304	
10	1	O-ring	EPDM	
9**	1	Support ring	Stainless steel X5CrNiMo 17-12-2	DIN: X5CrNiMo18 10 ASTM: A 182 AISI 316 BS: 970 316 S16
8**	1	Gasket	EPDM	
7	1	Packing gland	Stainless steel	
6	1	Embase moteur	Painted steel	
5*	2	Plaque support	Steel + Epoxy	
4	1	Vis de manœuvre	Stainless steel 13%Cr	
3	1	Knife	Stainless steel X5CrNiMo 17-12-2	DIN: X5CrNiMo18 10 ASTM: A 182 AISI 316 BS: 1449-2 316 S16
2	2	Packing	PTFE	
1	1	Body	Stainless steel GX5CrNiMo 19-11-2	DIN: G-X6CrNiMo 18 10 ASTM: A 351 grade CF8M BS: 316 C16

*Pre-shaped parts up to DN 300.
** Missing parts on metal / metal tightness.





Standard tightness

Tightness metal/metal

DIMENSIONS

DN mm	DN inch	L	H	h	Ø T	Turns number for opening	C	D	Ø K	n	Ø M	ISO Mounting flange	Ø A	Ø B	Ø E	Ø F	Ø G	Ø N	Weight (kg)
50	2"	40	305	36	Tr 20 x 4 to left	13	124	83	125	4	4 x M16	F07/F10	70	102	125	9	11	70	6
65	2"1/2	40	330	43		16	139	83	145	4	4 x M16								8
80	3"	50	355	40		20	154	83	160	8	4 x M16								9
100	4"	50	400	40		25	174	83	180	8	4 x M16								10
125	5"	50	438	38		31	189	93	210	8	4 x M16	F07/F10	70	102	125	9	11	70	15
150	6"	60	489	40		38	220	93	240	8	4 x M20								19
200	8"	60	608	50	Tr 25 x 5 to left	40	275	108	295	8	4 x M20	F10	102	-	125	12	-	70	33
250	10"	70	700	48		50	326	108	350	12	8 x M20								47
300	12"	70	807	50		60	380	108	400	12	8 x M20								58
350	14"	96	910	45	Tr 35 x 6 to left	58	450	290	460	16	10 x M20	F10/F14	102	140	175	11	17	100	107
400	16"	100	1020	53		67	510	290	515	16	10 x M24								137
450	18"	106	1115	63		75	564	290	565	20	14 x M24								177
500	20"	110	1225	53		83	630	290	620	20	14 x M24								212
600	24"	110	1429	50		100	726	290	725	20	14 x M27								256

WORKING CONDITIONS

Maximum working pressure : DN 50-250 : 10 bar.
DN 300-450 : 7 bar.
DN 500-600 : 4 bar.
Maximum temperature : -10°C / +130°C (Standard tightness).

Others materials on request (If marked)	Maximum temperature	
Metal / metal	T max : -10°C / +130°C.	☐
Nitril	T max : -10°C / +80°C.	☐
White EPDM	T max : -10°C / +130°C.	☐
Silicone	T max : -10°C / +170°C.	☐
FPM (Type Viton®)	T max : -10°C / +170°C.	☐
PTFE	T max : +4°C / +170°C.	☐
CSM (Type Hypalon®)	T max : +4°C / +80°C.	☐

STANDARDS

Manufacture according to the requirments of the European directive 97/23/CE "Equipments under pressure" : category III modulate H.
Test procedures are established according to standards EN12266-1, DIN 3230, BS 5154 and ISO 5208.
Connections between flanges according to standard EN 1092-2 et DIN 2501 : ISO PN10.

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