

Ref. : VG4400-031.pas

Rev. : A

Date : 01/07/2020

Page : 1/1

# KNIFE GATE VALVE WITH DOUBLE ACTING PNEUMATIC ACTUATOR AND EMERGENCY HANDWHEEL

## VG 4400-031



**Tecofi**  
VALVE DESIGNER - FRANCE

### 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

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 material as seat joint) to assure the elasticity and decrease the operating force.  
Small head loss.  
Possibility to regulate thick fluids the adaptation of a diaphragm ring .

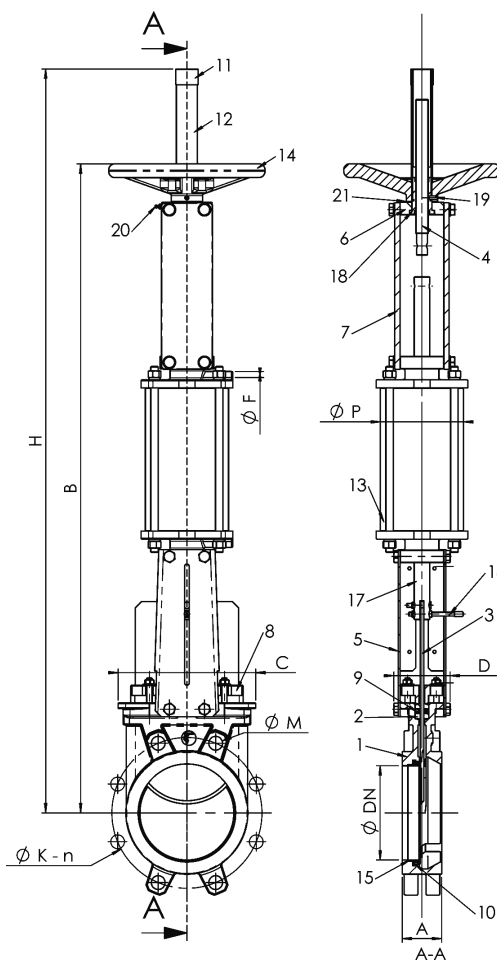
### CONSTRUCTION

21	1	Friction washer	Bronze
20	1	Greaser	Stainless steel
19	1	Stop screw	Stainless steel
18	1	Nut	Bronze
17	1	Actuator stem	Steel 13%Cr
16	1	Detection stem	Stainless steel 304
15**	1	Support ring	Stainless steel 316
14	1	Handwheel	Cast iron
13	1	Pneumatic actuator	Aluminium
12	1	Protection tube	Steel
11	1	Cap	Plastic
10**	1	Gasket	Nitril
9	1	O-ring	Nitril
8	1	Packing gland	Ductile iron
7	2	Support plate	Steel
6	1	Nut support	Zinc steel
5*	2	Support plate	Steel + epoxy
4	1	Stem	Steel 13%Cr
3	1	Gate	X5 Cr Ni 18-10
2	2	Packing	Tallowed cotton
1	1	Corps / Body	Ductile iron EN-GJS-500-7
Pos.	Q-ty	Description	Material

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

### DIMENSIONS

DN		A	B	C	D	Ø V	Ø F	Ø P	H	Ø K	n	Ø M	Weight (Kg)
mm	inch												
50	2"	40	590	124	83	200	1/4"	80	655	125	4	4-M16	10
65	2 1/2"	40	651	139	83	200	1/4"	80	731	145	4	4-M16	11
80	3"	50	711	154	83	200	1/4"	80	791	160	8	4-M16	12
100	4"	50	800	174	83	200	1/4"	100	910	180	8	4-M16	15
125	5"	50	915	189	93	250	1/4"	125	1056	210	8	4-M16	21
150	6"	60	1017	220	93	250	1/4"	125	1178	240	8	4-M20	27
200	8"	60	1270	275	108	310	1/4"	160	1486	295	8	4-M20	45
250	10"	70	1479	326	108	310	1/4"	200	1740	350	12	8-M20	69
300	12"	70	1656	380	108	310	1/4"	200	1982	400	12	8-M20	89
350	14"	96	1923	438	290	500	3/8"	250	2305	460	16	10-M20	153
400	16"	100	2128	494	290	500	3/8"	250	2591	515	16	10-M24	166
450	18"	106	2348	547	290	500	1/2"	250	2830	565	20	14-M24	212
500	20"	110	2570	613	290	500	1/2"	300	3164	620	20	14-M24	251
600	24"	110	2973	716	290	500	1/2"	300	3615	725	20	14-M27	300
700	28"	110	3492	835	400	800	1/2"	350	4224	840	24	16-M27	533
800	32"	110	3897	972	400	800	1/2"	400	4739	950	24	16-M30	731
900	36"	110	4354	1041	400	800	1/2"	400	5296	1050	28	20-M30	912
1000	40"	110	4680	1152	450	800	1/2"	400	5735	1160	28	20-M33	1274
1200	48"	120	5270	1255	450	960	1/2"	400	6785	1380	32	22-M36	1885



Standard tightness



Tightness metal/metal

### WORKING CONDITIONS

Maximum working pressure : DN 50-250 : 10 bar  
 DN 300-450 : 7 bar  
 DN 500-600 : 4 bar  
 DN 700-1200 : 2 bar

### STANDARDS

Manufacture according to the requirements of the European directive 2014/68/UE «Equipments under pressure» : modulate H. (DN50 - 600)  
 On request : Product in accordance to european directive "Potentially explosive atmospheres" N° 94/9/EC : ATEX II 2 GD c and ATEX II 3 GD c.  
 Test procedures are established according to standard EN 12266-1, DIN 3230, BS 5154 and ISO 5208.  
 Connections according to standard EN 1092-2 and DIN 2501 : ISO PN10.

Maximum temperature : -10°C / +80°C

Others materials on request (if marked)	Maximum temperature	
Metal / metal	T max : -10°C / +80°C.	<input type="checkbox"/>
White NBR	T max : -10°C / +80°C.	<input type="checkbox"/>
EPDM	T max : -10°C / +130°C.	<input type="checkbox"/>
Silicone	T max : -10°C / +170°C.	<input type="checkbox"/>
FPM (Type Viton®)	T max : -10°C / +170°C.	<input type="checkbox"/>
PTFE***	T max : +4°C / +170°C.	<input type="checkbox"/>
CSM (Type Hypalon®)	T max : +4°C / +80°C.	<input type="checkbox"/>

\*\*\* Minimum working pressure : 1 bar

**TECOFI France** - 83, Rue Marcel Mérieux 69960 Corbas - FRANCE  
 Tél. +33 (0) 4 72 79 05 79 - Fax +33 (0) 4 78 90 19 19 / +33 (0) 4 72 79 05 70  
 Adresses e-mail : sales@tecofi.fr ; tecofi@tecofi.fr / Site web : www.tecofi.fr