

KNIFE GATE VALVE CAST IRON BODY

TECHNICAL PASSPORT

THROUGH CONDUIT KNIFE GATE VALVE WITH RISING STEM CAST IRON BODY - BETWEEN FLANGES PN10

VGT 3400-00

APPLICATION

The TECOFI through conduit knife gate valve is particularly suitable for stationery applications: pulp outlet after pulping and defiberizing, purification consisting in isolating impurities such as varnish, paint, glue, staples or others..

Areas of application: paper-cardboard recycling units, paper factory, chemical plant.



Fluids: water, paper pulp, fibrous products.

GENERAL CHARACTERISTICS

Range: from DN50 to DN400.

Rising stem knife gate valve with longer body than a conventional valve, consisting of two parts (half-body) assembled by bolting. Bi-directional sealing ensured by the use of two seat seals. Installation between ISO PN10 flanges.

Internal parts designed to avoid the deposit of product: small retention area.

The gate is long and comes out on the outside of the body in the lower part, which explains the presence of a second gland packing system. In its central zone the gate has an orifice ensuring in the valve open position the full bore for the fluid without any retention zone and a complete seal in the closed position. The polishing of the gate faces as standard ensures gentle contact with all seals. The two gland systems are made of ductile iron with good mechanical strength to avoid any risk of breakage. The gland packing gaskets are made of the same material as that of the seat, which gives more elasticity to the assembly and contributes to the reduction of the operating forces. The support plates are made of profiled and preformed sheet from DN50 to DN300 for mounting accessories and kits. The valve remains operable under difficult conditions and ensures operation without accumulation of product.



STANDARDS

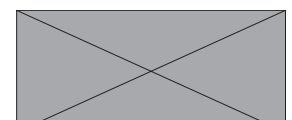
Design	Manufacture according to the requirements of the European directive n° 2014/68/UE «Equipment under pressure» : modulate H.
Face to face	Face to face dimension according to TECOFI standard
Connection	Mounting between flanges in accordance with EN1092-2 and ISO 7005-1 : ISO PN10
Tests	Pressure test according to standards EN12266-1, DIN 3230, BS 5154 and ISO 5208.. - Body : WP x 1.5 bar - Seat : WP x 1.1 bar

PRODUCT APPROVALS



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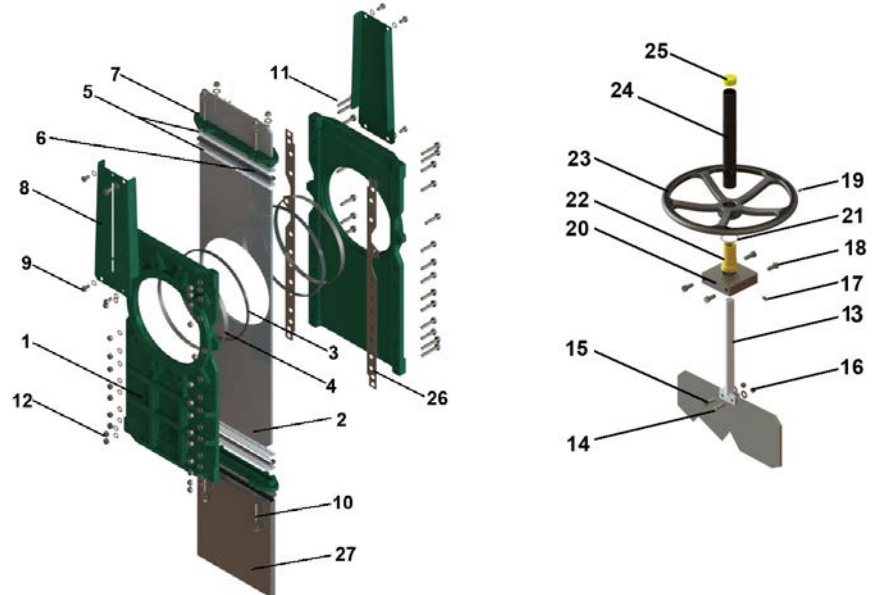
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CONSTRUCTION

The valves are coated with epoxy paint to protect them against corrosion

Component	Coating
Body (1)	Epoxy powder RAL 6005 150 microns
Support plate (8)	Epoxy liquid RAL 6005 70 microns
Gland packing (7)	
Handwheel (23)	Epoxy liquid RAL 9005 70 microns
Protection tube (24)	



Pos.	Q-ty	Description	Material	Equivalences		
				DIN	ASTM	BS
1	2	Half body	Cast iron EN-GJL-250	GG25	A48 class 40B	1452 Grade 250
2	1	Gate	Stainless steel X5CrNi 18-10	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15
3	2	Seat (1)	NBR			NBR
4	2	Retainer ring (1)	Stainless steel X5CrNi 18-10	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15
5	4	Packing	PTFE			
6	2	O ring	NBR			NBR
7	2	Gland packing	Ductile iron EN-GJS-400-15	GGG40	A536 65-45-12	1563 EN-JS1030
8	2	Support plate	Steel			
9	4	Screw	Stainless steel A2-70			
10	8*	Tie rod, washer, nut	Stainless steel A2-70			
11	n	Screw	Zinc plated steel 8.8			
12	n	Nut + washer	Zinc plated steel 8.8			
13	1	Stem	Stainless steel 13% Cr	X12Cr13	AISI 410	
14	1	Position indicator	Stainless steel X5CrNi 18-10	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15
15	1	Screw	Stainless steel A2-70			
16	2	Nut	Stainless steel X5CrNi 18-10	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15
17	1	Greaser	Stainless steel X5CrNi 18-10	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15
18	4	Screw	Stainless steel A2-70			
19	1	Screw	Stainless steel A2-70			
20	1	Top flange	Zinc plated steel			
21	1	Support washer	Bronze CuSn5Zn8Pb5-C			
22	1	Nut	Bronze CuSn5Zn8Pb5-C			
23	1	Handwheel	Cast iron EN-GJL-250	GG25	A48 class 40B	1452 Grade 250
24	1	Protection tube	Acier A45			
25	1	Plug	Polyurethane			
26	2	Body gasket	PTFE			
27	1	Bottom cover (1)	Stainless steel X5CrNi 18-10	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15

n - 10 (DN50); 12 (DN65); 16 (DN80-DN100) - 18 (DN125); 22 (DN150); 28 (DN300 -DN300); 32 (DN350); 34 (DN400)

* 16 (DN350-DN400)

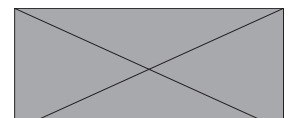
(1) - in option

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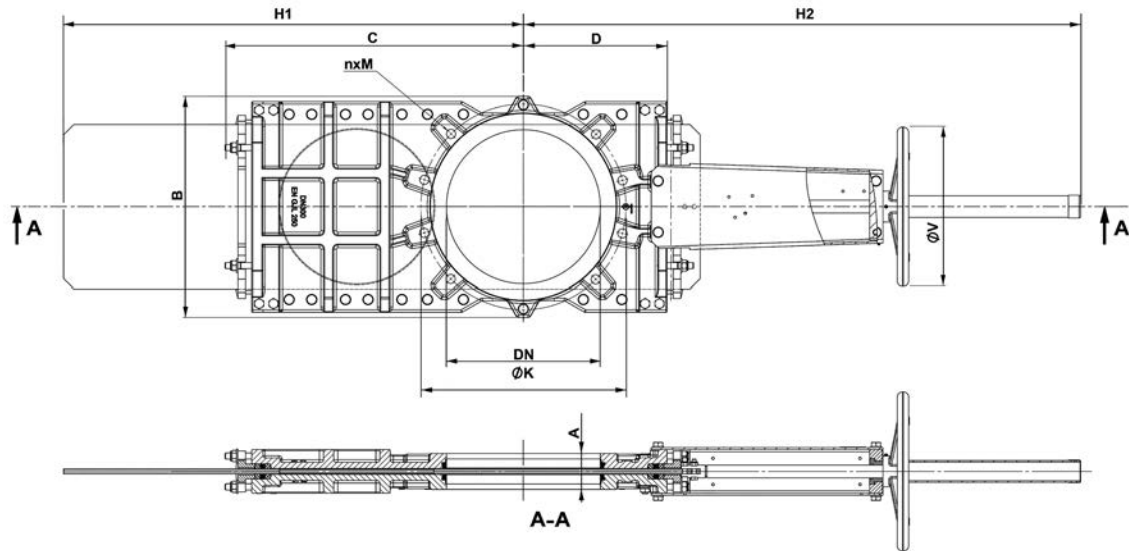


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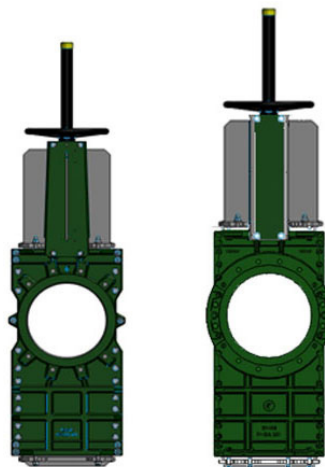
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DIMENSIONS



Dimension A - face to face according to TECOFI standard

DN		A	B	H1		H2	D	Ø V	Maximum pressure (bar)	n-ØM	ØK	Weight (kg)
mm	inch			mini	maxi							
50	2"	40	150	162	221	357	118	200	10	4xM16	125	12.82
65	2 1/2"	40	168	190	264	391	124	200	10	4xM16	145	14.47
80	3"	50	184	216	297	427	135	200	10	4xM16	160	17.42
100	4"	50	205	247	354	489	150	200	10	4xM16	180	20.65
125	5"	50	220	304	430	566	162	250	10	4xM16	210	27.40
150	6"	60	240	228	530	636	178	250	10	4XM20	240	33.84
200	8"	60	313	413	641	804	210	310	10	4XM20	295	59.59
250	10"	70	373	487	772	945	250	310	10	8XM20	350	86.26
300	12"	70	430	579	882	1087	280	310	6	8XM20	400	119.73
350	14"	96	528	654	1043	1282	358	500	6	10XM20	460	163
400	16"	100	586	731	1168	1441	415	500	6	10XM24	515	235

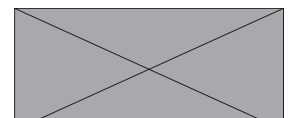


DN50 - DN300

DN350 - DN400

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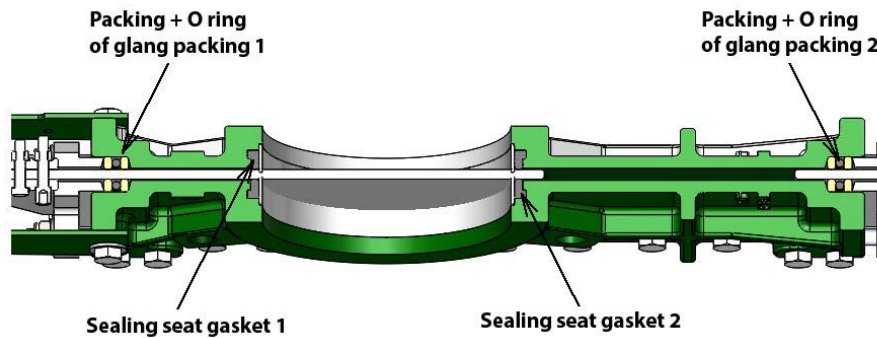
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WORKING CONDITIONS

Maximum working pressure : DN50-250 : 10 bar
DN300-400 : 6 bar

Maximum working temperature : -10°C / +80°C (NBR joint in standard)

Sealing system



The photographs and technical art works are not contractual. The specifications of the presented products are open to modifications without previous advice.

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