



**KNIFE GATE-VALVE WITH REGADA
ELECTRIC ACTUATOR**

Model/Ref: 440004027100



*Partnership.
Without Limits.*

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KNIFE GATE-VALVE WITH REGADA ELECTRIC ACTUATOR

MAIN CHARACTERISTICS

The S-GATE knife gate valve fitted with the REGADA electric actuator is dedicated to the automatic shut-off of line and tanks of heavy fluids, slurries and powders. Standard applications for these valves are water treatment, pulp and paper industry, cement industry, bulk handling and food industry. The REGADA electric actuator is IP67 tight. It makes it possible to install the valve assembly outdoor. This actuator has a declutchable manual override, 2 torque limiters, 4 limits switches and an anti-condensation heating resistor. The movement of the knife is protected by side covers.

AVAILABLE MODELS

S-GATE 170 : cast iron body, stainless steel gate, NBR seat

S-GATE 172 : stainless steel body and gate, EPDM seat

S-GATE 176 : cast iron body, stainless steel gate, metal seat (no tightness: 2% kvs loss)

S-GATE 170 : cast iron body, stainless steel gate, NBR seat, bi-directional tightness

DN50 to DN300, fitting with flanges EN 1092 PN10 (optional flanges ANSI 150)

230V AC power supply


IP 67


LIMITS OF USE

Pressure of fluid : PS	DN50 to DN200	10 bar
	DN250	8 bar
	DN300	6 bar
Temperature of fluid : TS	See below	
Ambient temperature	-10°C / +55°C	
Ingress Protection rating	IP67	
Duty rating	S4-25% / 10 cycles per h.	

TS / Siège	NBR	EPDM	FKM	PTFE	METAL
170 – 178: cast iron	-10°C +80°C	+0°C +110°C	-10°C +150°C	+0°C +180°C	-
172: stainless steel					
176: cast iron	-	-	-	-	-10°C +90°C
176 : cast iron + PE graphite	-	-	-	-	-10°C +200°C



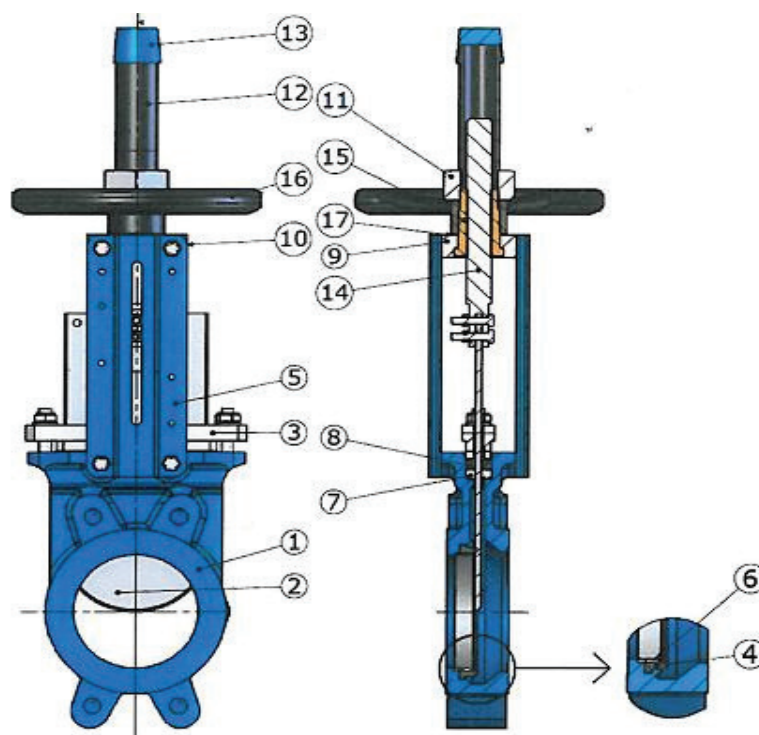
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KNIFE GATE-VALVE WITH REGADA ELECTRIC ACTUATOR

STANDARDS OF CONSTRUCTION

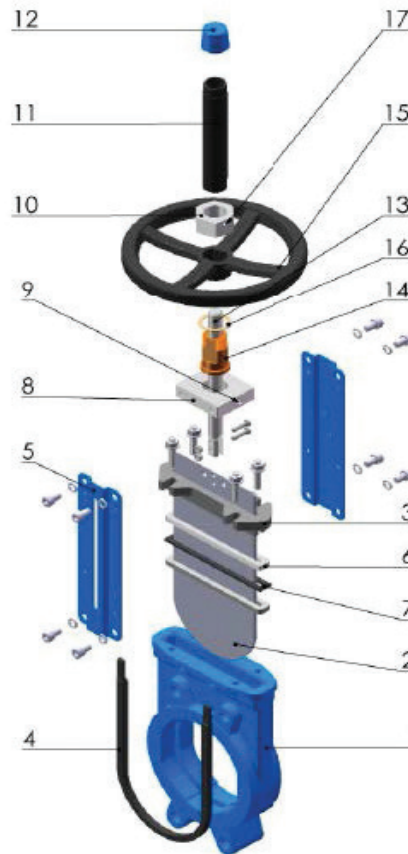
	Standard		Standard
97/23/CE Pressure Equipment Directive	Category I module A	Actuator connection	ISO 5211
Flanges dimensions	EN 1092-2	Final testing	EN 12266-1
Flanges dimensions ANSI	ANSI B16.5		

UNIDIRECTIONAL CONSTRUCTION



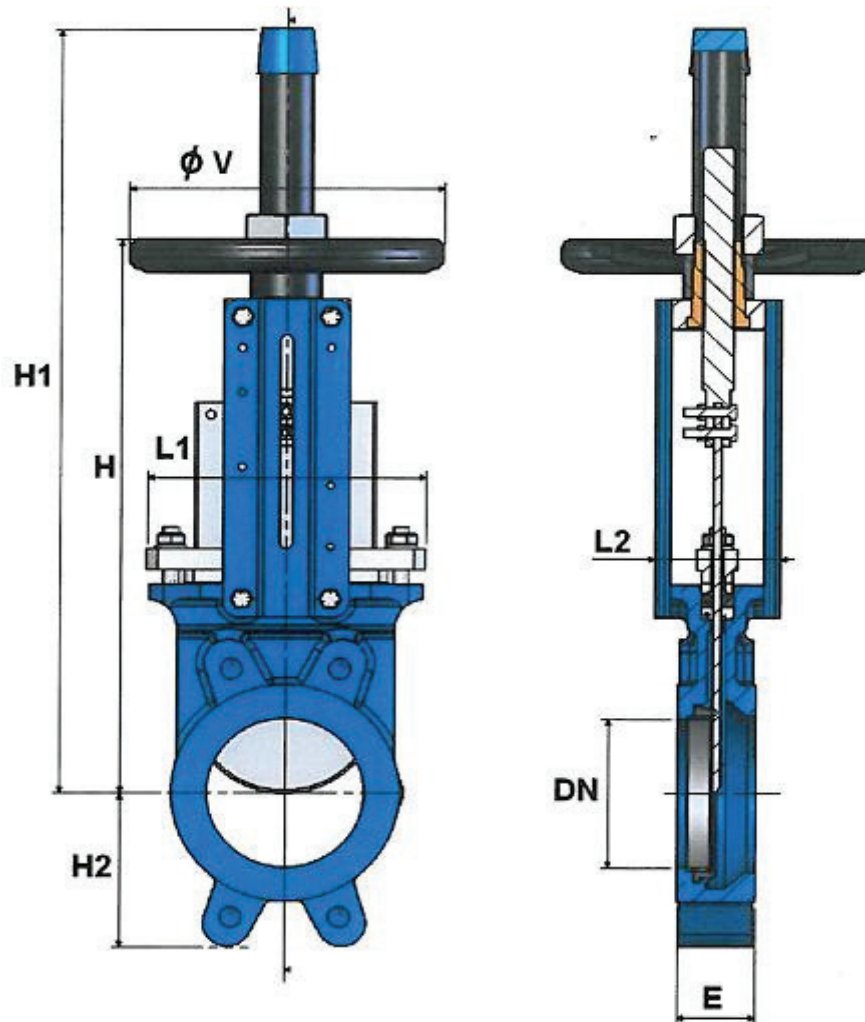
N°	Item	S-170 CAST IRON	S-176 CAST IRON	S-172 STAINLESS STEEL
1	Body	EN-GJL 250 cast iron		1.4408 stainless steel
2	Gate	AISI 304 stainless steel		AISI 316 stainless steel
3	Packing gland DN50-200	Aluminium		1.4408 stainless steel
3	Packing gland DN250-300	EN-GJL 250 cast iron		1.4408 stainless steel
4	Seat	NBR	METAL	EPDM
5	Bracket	Epoxy coated carbon steel		Epoxy coated carbon steel
6	Seat retainer	AISI 304 stainless steel		AISI 316 stainless steel
7	Packing	PTFE		PTFE
8	O-ring	NBR		EPDM
9	Support plate	Carbon steel		
10	Grease box	Steel		
11	Handwheel nut	Steel		
12	Stem cap	Steel		
13	Cap	Plastic		
14	Stem	AISI 303 stainless steel		
15	Stem nut	Bronze		
16	Handwheel	Steel		
17	Friction washer	Brass		

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KNIFE GATE-VALVE WITH REGADA ELECTRIC ACTUATOR
BIDIRECTIONAL CONSTRUCTION


N°	Item	S-178 CAST IRON
1	Body	EN-GJL 250 cast iron
2	Gate	AISI 304 stainless steel
3	Packing gland DN50-200	Aluminium
3	Packing gland DN250-300	EN-GJL 250 cast iron
4	Seat	NBR
5	Bracket	Epoxy coated carbon steel
6	Seat retainer	NBR
7	O-ring	PTFE
8	Support plate	Carbon steel
9	Grease box	Steel
10	Handwheel nut	Steel
11	Stem cap	Steel
12	Cap	Plastic
13	Stem	Stainless steel AISI 303
14	Stem nut	Bronze
15	Handwheel	Steel
16	Friction washer	Brass
17	Screw	Stainless steel AISI 304

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KNIFE GATE-VALVE WITH REGADA ELECTRIC ACTUATOR
DIMENSIONS (mm)


Size	50	65	80	100	125	150	200	250	300
E	40	40	50	50	50	60	60	70	70
H	289	316	342	382	415	458	575	676	776
H1	409	436	462	502	585	637	815	1016	1116
H2	63	70	92	105	120	130	160	198	234
L1	124	139	154	174	192	217	270	326	380
L2	92	92	92	92	102	102	119	119	119
φ V	185	185	185	185	225	225	325	325	380
170 -Wg (kg)	6,5	7,1	8,5	9,8	12,7	16,1	26,8	43,5	57,5
172 -Wg (kg)	6,5	7,8	8,5	10	12,7	15,8	27,8	44,6	58,6

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KNIFE GATE-VALVE WITH REGADA ELECTRIC ACTUATOR

ACTUATION WITH REGADA

The actuation with REGADA is offered with following characteristics:

- IP 67 actuator with aluminium epoxy coated housing and carbon steel gearbox ,
- Max. upstream / downstream pressure differential $\Delta P=10$ bar.
- Direct connection between valve and actuator following ISO 5211 - F10

The operators are protected from the movement of the gate through side covers.

Size	Actuator	Power (W)	I (A)	Resistancy (W)	Elec. Connect.	Speed	Operating time (s)*	Standard equipment
50	SO2	60	1,3	20 W	2x M20x1,5	20 tr. min.	39 s	2 adjustable limits switches 2 dry auxiliary switches. 2 torque limiters. Heating resistor. Position indicator.
65							48 s	
80							60 s	
100							75 s	
125							93 s	
150							114 s	
200	MO3	370	1	35 W	3x M25x1,5	40 tr. min.	60 s	Declutchable manual override. ISO 5211 – F10 connection
250							75 s	
300							90 s	

For any other working conditions, please consult.

*indicative operating time without pressure

OPTIONS FOR THE ACTUATOR

n°	
1	Three-phase 400V, 24 V AC et 24 V DC (SO2 only)
2	Actuator for low temperature -50°C
3	Feedback potentiometer

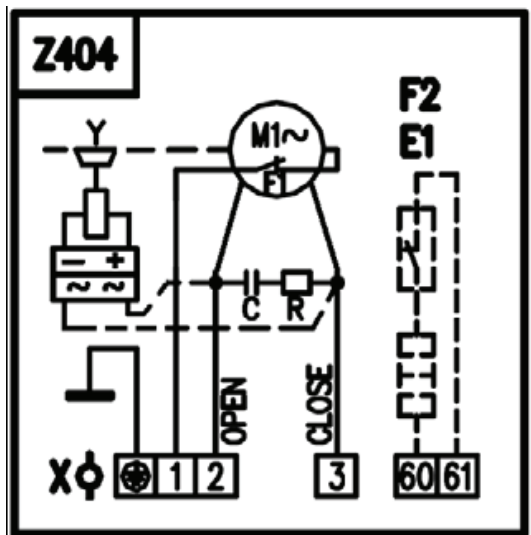
OPTIONS FOR THE VALVE

n°	
1	NBR, EPDM, PTFE, FKM seats
2	HT graphited packing
3	Flow deflector
4	Flanged ANSI 150 connections
5	PN25 body
6	Flushing holes

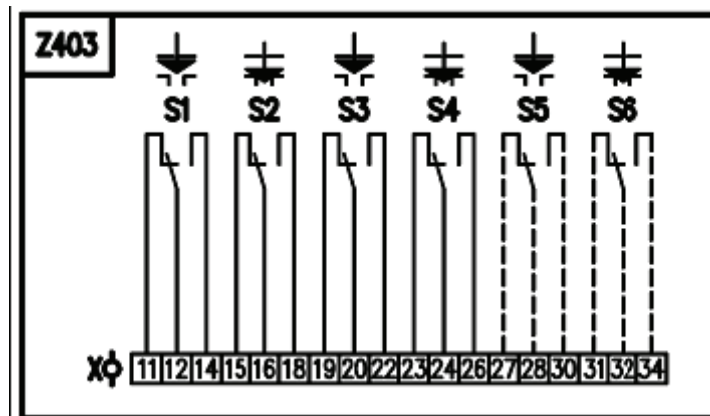
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KNIFE GATE-VALVE WITH REGADA ELECTRIC ACTUATOR
ELECTRIC ACTUATOR SO2 WIRING SCHEME

Power supply and anti-condensate resistance



Limit switch and auxiliary connections

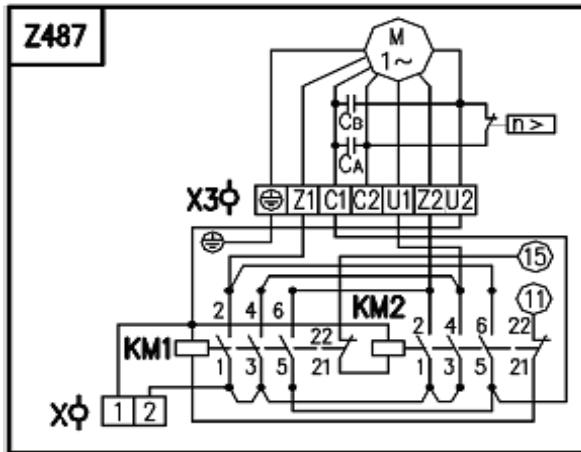


1	Plug in neutral power supply
2	Link with terminal 11 (opening)
3	Link with terminal 15 (closing)
11	Link with terminal 2 (opening)
12	Link with terminal 19 (limit switch)
14	
15	Link with terminal 3 (closing)
16	Link with terminal 23 (limit switch)
18	
19	Link with terminal 12 (limit switch)
20	Plug in power supply phase
22	
23	Link with terminal 16 (limit switch)
24	Plug in phase
26	
27	
28	
30	
31	Auxiliary connections
32	
34	

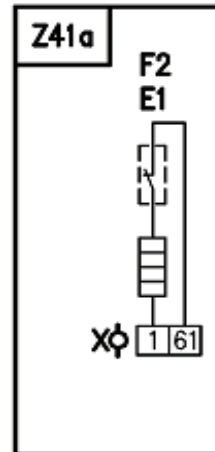
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KNIFE GATE-VALVE WITH REGADA ELECTRIC ACTUATOR
ELECTRIC ACTUATOR MO3 WIRING SCHEME

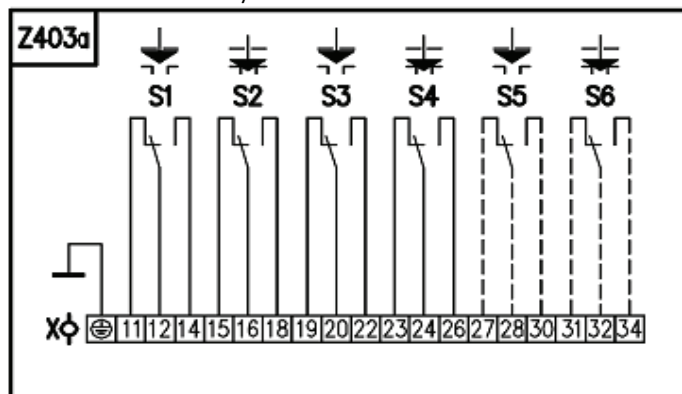
Power supply



Anti-condensate resistance



Limit switch and auxiliary connections



1	Plug in neutral power supply
2	Plug in power supply phase
3	
11	
12	Link with terminal 19 (limit switch)
14	
15	
16	Link with terminal 23 (limit switch)
18	
19	Link with terminal 12 (limit switch)
20	Link with terminal 2 (power supply for closing)
22	
23	Link with terminal 16 (limit switch)
24	Link with terminal 2 (power supply for opening)
26	
27	
28	
30	
31	Auxiliary connections
32	
34	

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