

783-4-5-6 VALVES WITH SA ELECTRIC ACTUATOR

FEATURES

The 783-5+SA (L-hole) and 784-6+SA (T-hole) stainless steel 3-way ball valves are designed for use with unpressurised industrial fluids. Floating ball construction for DN25 and DN32. The 783-4-5-6 valve is CE 2014/68 and ATEX certified. The ISO 5211 plate allows direct mounting of the SA servomotor. It is perfectly suited for industrial use both indoors and outdoors.

AVAILABLE MODELS

Réf.	Material	Drilling
783	carbon steel 1.0619	L
784	carbon steel 1.0619	T
785	stainless steel 1.4408	L
786	stainless steel 1.4408	T



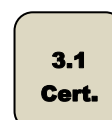
SA 05
SA 09



SA-X 05
SA-X 09



With
SA-X 05
SA-X 09



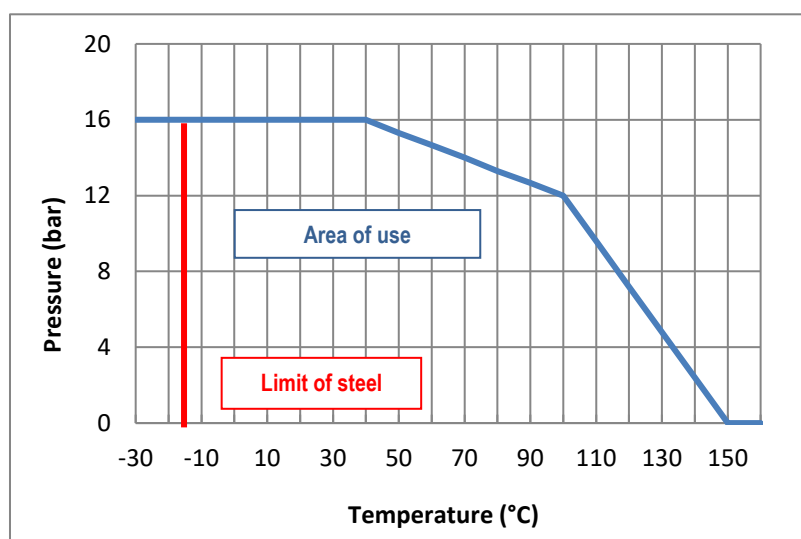
Diameters DN 25 to DN 50.

PN16 RF flange connections.

Supply voltages: 24V AC-DC, 230V AC.

LIMITS OF USE

Fluid pressure : WP	16 bar (20°C)
Fluid temperature : WT°	<u>Steel</u> : -20°C / +150°C <u>Stainless steel</u> : -30°C / +150°C
Ambient temperature	- 20°C / + 70°C
Service factor	<u>S2</u> : 15mn - <u>S4</u> : 50% (SA 05)
	<u>S2</u> : 15mn - <u>S4</u> : 30% (SA 09)



Information given as an indication only, and subject to possible modifications



SECTORIEL S.A.
45 rue du Ruisseau
38290 SAINT QUENTIN-FALLAVIER – FRANCE
Tél : +33 4 74 94 90 70 - Fax : +33 4 74 94 13 95
www.sectoriel.com / Email : sectoriel@sectoriel.fr

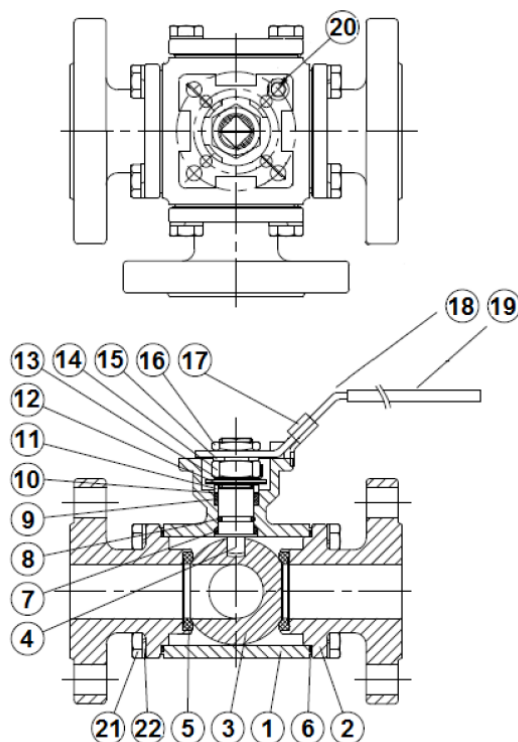
Pages	1/6
Ref.	TDS783+SA
Rev.	03
Date	12/2025

783-4-5-6 VALVES WITH SA ELECTRIC ACTUATOR

DIRECTIVES AND MANUFACTURING STANDARDS

OBJET	Standard	ON	OBJET	Standard
EC Directive 2014/68	category II	0035	Certificate of material	EN 10204
Dimensioning	EN 12516-1		Steel grades	EN 1503-1
Flange dimensions	EN 1092-1		Test final	EN 12266
Motorization connection	ISO 5211		Actuator pilot connection	NAMUR
ATEX Directive	II 2G/D Tx areas 1,2,21 and 22		Limit switch housing connection	VDI/VDE 3845
	EN 13463-1		SIL 3 level (actuator only)	EN 61508

CONSTRUCTION DN25-40



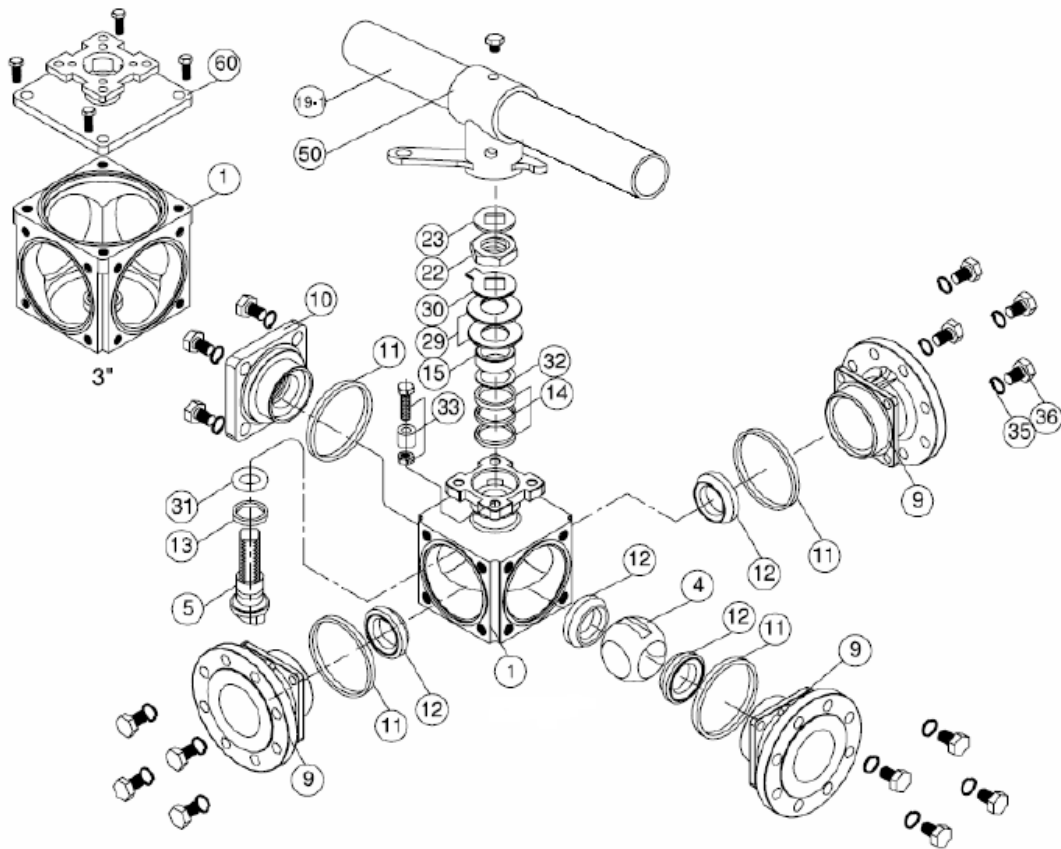
N°	Name	783-784 Steel	785-786 SS	N°	Name	Material
1	Body	Steel 1.0619	SS 1.4408	12	Belleville washers	SS 410
2	End caps	Steel 1.0619	SS 1.4408	13	Lock washer	SS 304
3	Sphere	SS 1.4308	SS 1.4408	14	P.E. nut	SS 304
4	Stem	SS 304	SS 316	15	Washer handle	SS 304
5	Seat	PTFE+15% GF		16	Knob nut	SS 304
6	Body seal	PTFE		17	Padlocking system	SS 304
7	Washer	PTFE		18	Handle	SS 304
8	O-ring	FKM		19	Handle sleeve	Plastic
9	Gland	PTFE		20	Stop	SS 304
10	P.E. sets	PTFE+25% graphite		21	End screw	SS 304
11	Tamping tool	SS 304		22	End washer	SS 304

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		Ref.	TDS783+SA
		Rev.	03
		Date	12/2025

783-4-5-6 VALVES WITH SA ELECTRIC ACTUATOR

CONSTRUCTION DN50



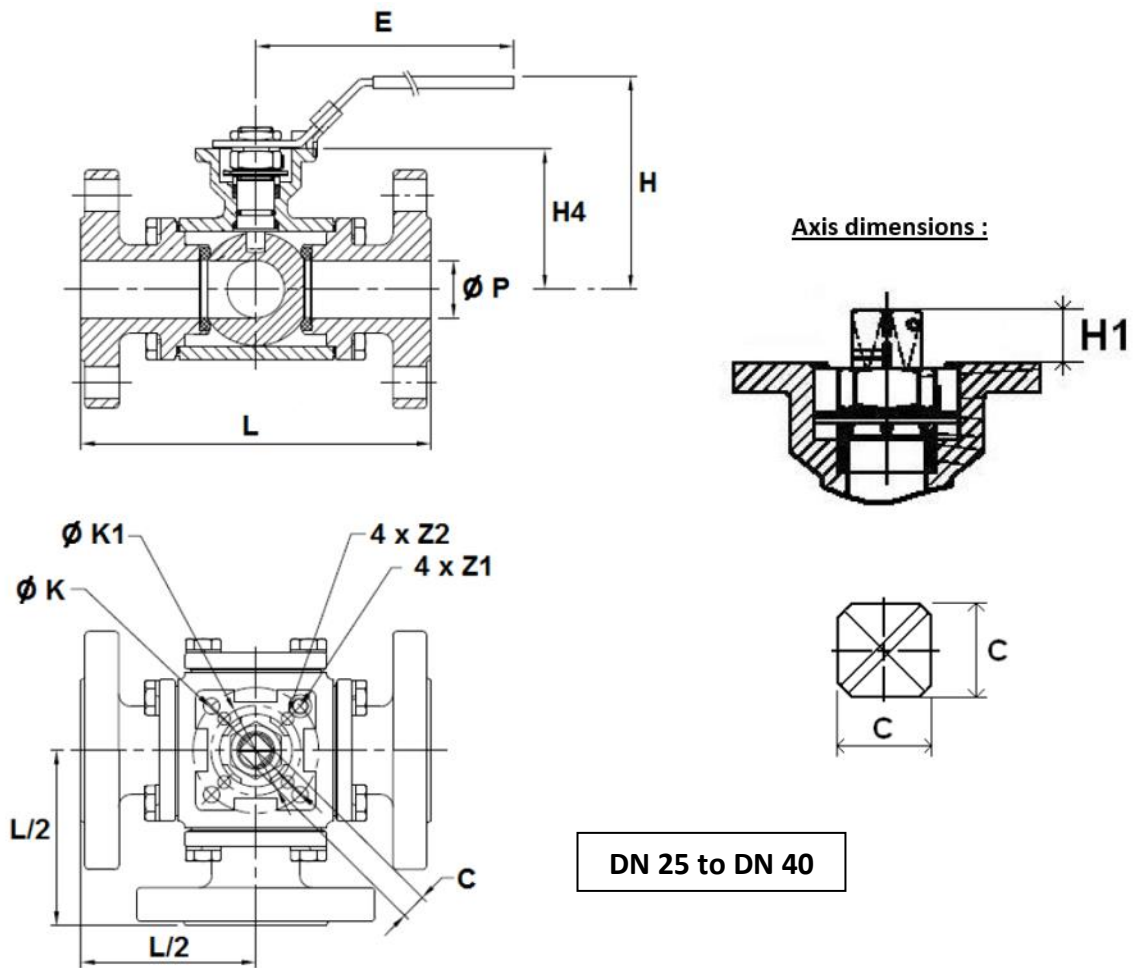
N°	Name	783-784 Steel	785-786 SS	N°	Name	Material
1	Body	Steel 1.0619	SS 1.4408	22	P.E. nut.	SS 304
4	Sphere	SS 1.4308	SS 1.4408	23	Washer	SS 304
5	Stem	SS 304	SS 316	29	Belleville washers	SS 301
9	End caps	Steel 1.0619	SS 1.4408	30	Lock washer	SS 304
10	Lid	Steel 1.0619	SS 1.4408	31	O-ring	FKM
11	Body seal	PTFE		32	P.E. sets.	PTFE+15% graphite
12	Seat	PTFE+15% GF		33	Stop	SS 304
13	Ring	PTFE		35	Washer	SS 304
14	Gland	PTFE		36	Screw	SS 304
15	Fixing ring	SS 304		50	Handle adapter	SS 304
19	Handle	Steel				

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		Ref.	TDS783+SA
		Rev.	03
		Date	12/2025

783-4-5-6 VALVES WITH SA ELECTRIC ACTUATOR

DIMENSIONS (mm)



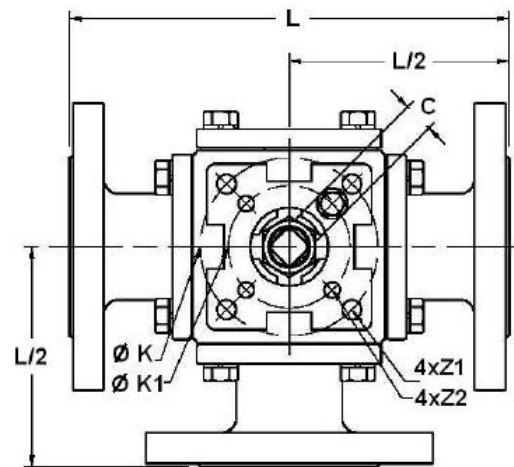
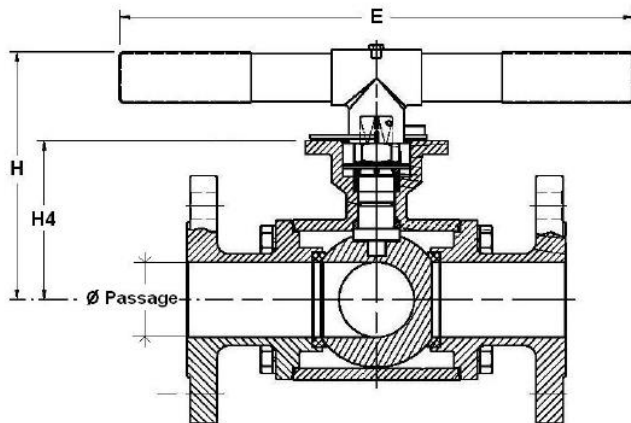
DN	25	32	40
ØP	25	32	38
L	185	195	232
L/2	92.5	97.5	116
E	218	235	235
H	102	118.5	127
H1	11.5	15.2	14.3
H4	64	79	88.5
C	11	14	14
ØK	50	70	70
ØK1	-	50	50
4 x Z1	4x7	4x9	4x9
4 x Z2	-	4x7	4x7
Weight (kg)	7.5	10.9	14.9

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		Ref.	TDS783+SA
		Rev.	03
		Date	12/2025

783-4-5-6 VALVES WITH SA ELECTRIC ACTUATOR

DIMENSIONS (mm)



DN 50

DN	50
ØP	50
L	253
L/2	126.5
E	300
H	156.6
H1	17.8
H4	105.8
C	17
Ø K	102
Ø K1	70
4 x Z1	4x11
4 x Z2	4x9
Weight (kg)	19

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		Ref.	TDS783+SA
		Rev.	03
		Date	12/2025

783-4-5-6 VALVES WITH SA ELECTRIC ACTUATOR

SA ELECTRICAL MOTORIZATION

The SA motorization offered as standard is intended for:

- actuator with epoxy-coated aluminium housing, IP67, and steel gearbox,
- minimum safety factor of 1.3 in relation to the nominal torque of the valve,
- Upstream/downstream pressure difference $\Delta P=10$ bar max.

The actuator is mounted directly in accordance with EN 15081.

DN	Actuator	Power (W)	Intensity 230V AC	Time (s)*	Intensity 24V AC-DC	Time (s)*	Standard servomotor equipment
25	SA 05	6 W	0,23 A	17 s	1,8 A	10 s	2 adjustable limit switches. 2 dry auxiliary contacts. 5W anti-condensation heater. Motor thermal protection. Manual emergency control via key. Backlit position indicator (except SA-X). Electrical connection: 2 P.E. M20x1.5
32	SA 05	6 W	0,23 A	17 s	1,8 A	10 s	
40	SA 09	6 W	0,25 A	32 s	2,1 A	22 s	
50	SA 09	6 W	0,25 A	32 s	2,1 A	22 s	

For any other terms and conditions, please contact us.

* indicative time of the actuator under no load

MOTORIZATION OPTIONS

There are numerous options available, so please consult our sales department for further information:

1	2	3	4	5
SA 05 S : slow actuator 100 s	SA 05 PCU : 4-20mA or 0-10V control actuator	SA 05 SCP : supercapacitor safety actuator	SA 05 X : actuator for use in ATEX areas 1 and 2	SR 05 : spring-return safety actuator
				
6	SA PUI actuator with feedback potentiometer			
7	heat dispersion arch for high-temperature fluids			
8	100 mm high stainless steel riser for insulation passage			
9	actuator designed for upstream/downstream pressure difference ΔP greater than 10 bar			
10	NA actuator with emergency control that can be disengaged by means of a steering wheel			

INSTALLATION IN AREAS ATEX

If installing the 783-4-5-6+SA-X automatic tap in ATEX areas 1 or 2, this must be specified when ordering. Our services will check the assembly, install a grounding braid and issue an assembly certificate. These operations are carried out in the workshop by our certified technicians. Please consult us.

It is also necessary to follow the special installation and maintenance instructions for motorized valves in ATEX areas.

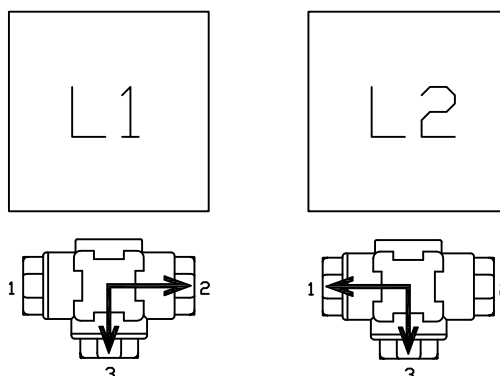
ATEX cable glands and plugs are not included in the supply. Use the following codes :

M20x1.5 ATEX aluminium cable gland	Code 980179	M20x1.5 ATEX aluminium plug	Code 980180
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		Ref.	TDS783+SA
		Rev.	03
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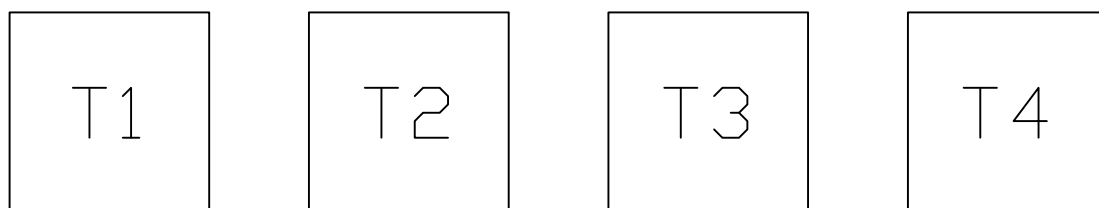
PERÇAGE EN L



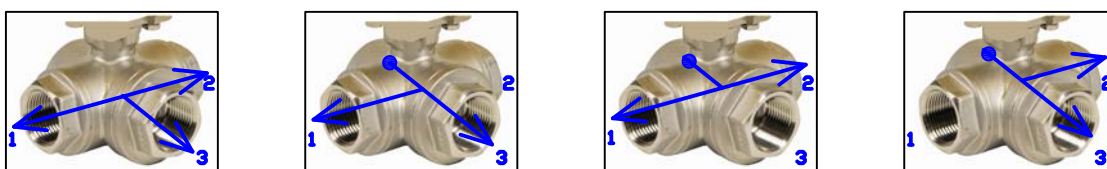
Les flèches indiquent les voies en communication

PERÇAGE EN T

Pour commander indiquer 2 positions successives



CORPS DU ROBINET



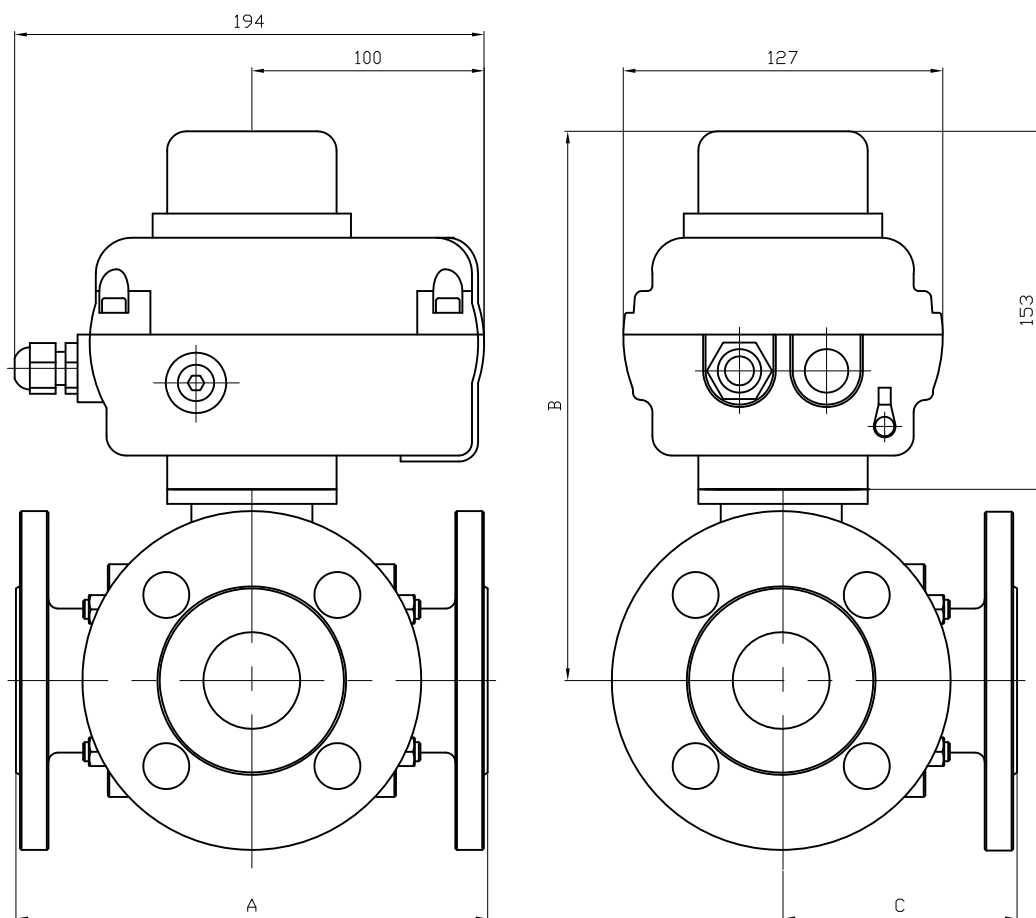
SPHERE DU ROBINET



Les flèches indiquent les voies en communication

Informations données à titre indicatif et sous réserve de modifications éventuelles

Ech: /	Date 06/07/2011	Dessiné par : E.D.	Tolérances générales : +/- 0.2	Modifications	Date	REV.
ROBINET A TOURNANT SPHERIQUE 3 VOIES POSITIONS POUR COMMANDE AVEC SERVOMOTEUR ELECTRIQUE				Matière :		
				Poids (Kg) :		
				Traitement : SANS		
				45, Rue du Ruisseau		
38297 SAINT QUENTIN FALLAVIER				Plan n° Ens 1117		



DN	25	32
Servomoteur	SA05	SA05
A	185	195
B	299	319
C	92.5	97.5
KG	10.7	14.1

Informations données à titre indicatif et sous réserve de modifications éventuelles

Ech: /	Date :20/02/2015	Dessiné par : E.D.	Tolérances générales : +/- 0.2	Modifications	Date	REV.
ROBINET A TOURNANT SPHERIQUE 783-786MD/BALL VALVE 783-786MD + SERVOMOTEUR ELECTRIQUE SA/ELECTRIC ACTUATOR SA				Matière :		
				Poids (Kg) :		
				Traitement : SANS		
 45, Rue du Ruisseau 38297 SAINT QUENTIN FALLAVIER				Plan n° Ens 1206		

SA 05 - SA 09 ELECTRIC ACTUATOR

FEATURES

The SA 05 / SA 09 electric actuator are intended for motorising industrial 1/4 turn valves. The torques are 50 Nm and 90 Nm. With a compact, robust construction and IP67 epoxy-coated aluminium housing, the SA actuator is especially well suited for motorising ball valves and butterfly valves installed in workshops or outdoors. The SA has a manual key control and a 3D visual position indicator. Compliant with the EN 15714-2 standard.

AVAILABLE MODELS

Supply voltages: 230 Vac (50-60Hz), 24 Vac/dc and 12 Vdc.

Options: 110 Vac, feedback potentiometer, local command.



LIMITS OF USE

IP rating	IP 67
Ambient temperature	- 20°C / +70°C
Service factor	S2: 15mn - S4: 50% (SA 05)
	S2: 15mn - S4: 30% (SA 09)



MECHANICAL FEATURES

Gear box	treated steel pinions
Torque	50 Nm / 90 Nm
Angle of rotation	90° +/- 5°
Declutching	Without
Override control	by key (except for SA 05 S)

Actuator	SA 05 / SA 09			SA 05 S	
Voltage	230V AC	24V AC/DC	12V DC	230V AC	24V AC/DC
Torque (Nm)	50 / 90			50	
Manoeuvring time (s)	17 / 32	10 / 22	11 / 25	100	100
ISO 5211	F03/F05/F07 star 14				

ELECTRICAL FEATURES

Motor protection	Thermal switch	Anti-condensation	5W heater
Limit switches	2 adjustable switches	Electrical connection	2 x P.E. M20x1.5
Auxiliary switches	2 adjustable dry switches		

Actuator	SA 05 / SA 09			SA 05 S	
Voltage	230V AC	24V AC/DC	12V DC	230V AC	24V AC/DC
Power (W)	6 W	15 W	6 W	6 W	6 W
Current (A)	0,23 / 0,25	1,8 / 2,1	3,2 / 3,4	0,23	1,8

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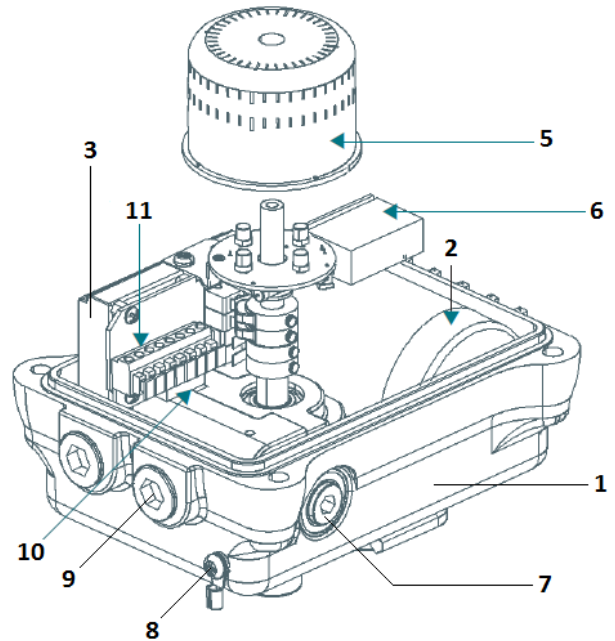
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45 rue du Ruisseau
38290 SAINT QUENTIN-FALLAVIER - FRANCE
Telephone: +33 4 74 94 90 70 - Fax: +33 4 74 94 13 95
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Pages	1/6
Ref.	TDS23010
Rev.	15
Date	10/2024

SA 05 - SA 09 ELECTRIC ACTUATOR

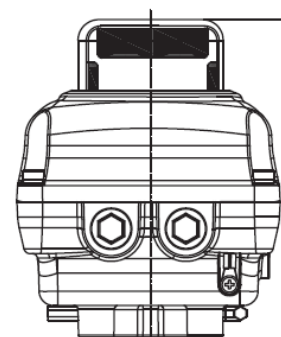
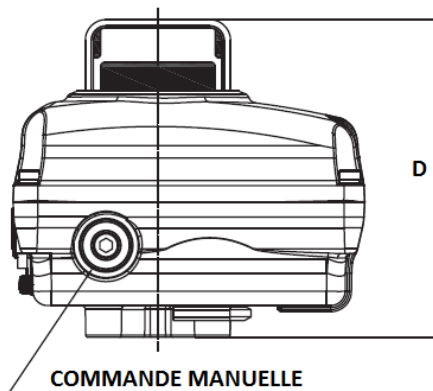
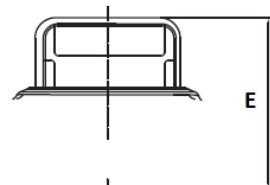
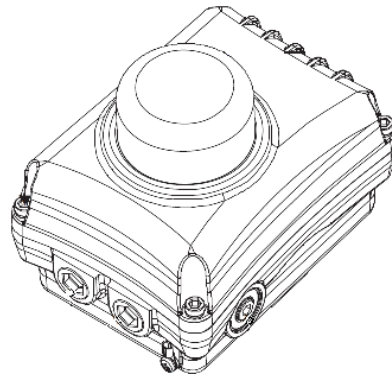
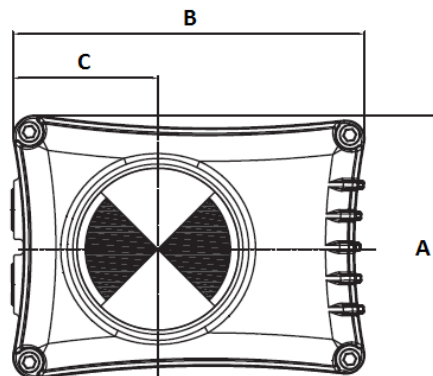
CONSTRUCTION

1	Housing	Polyester-coated aluminium
2	Electrical motor	
3	Gear box	Treated steel pinions
4	Cover	Polyester-coated aluminium
5	Position indicator	Polycarbonate plastic
6	Condenser	
7	Handle override	
8	Earthing	
9	Cable inlet	
10	Anti-condensation heater	
11	Terminal box	



DIMENSIONS (mm) AND WEIGHT (kg)

Dimensions (mm)	A	B	C	D	E	Weight (kg)
SA 05 / SA 09	127	170	70	153	80	3.2



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			Ref.	TDS23010
			Rev.	15
			Date	10/2024

SA 05 - SA 09 ELECTRIC ACTUATOR

WIRING DIAGRAM 230V AC 50Hz/60Hz

1	common	CLS : Close Limit Switch (250VAC 3A) OLS : Open Limit Switch (250VAC 3A) ACLS : Aux Close Limit Switch (250VAC 3A) AOLS : Aux Open Limit Switch (250VAC 3A) TP : Thermal Protector (250VAC 3A) RM : Motor Regulation
2	anti-condensation heater	
3	closing command	
4	opening command	
5	closing auxiliary	
6	closing auxiliary	
7	opening auxiliary	
8	opening auxiliary	

WIRING DIAGRAM 24V AC/DC-12V DC

1	common or +	CLS : Close Limit Switch (250VAC 3A) OLS : Open Limit Switch (250VAC 3A) ACLS : Aux Close Limit Switch (250VAC 3A) AOLS : Aux Open Limit Switch (250VAC 3A) TP : Thermal Protector (250VAC 3A) RM : Motor Regulation
2	closing command	
3	opening command	
4	closing auxiliary	
5	opening auxiliary	
6	auxiliaries common	
7	anti-condensation heater power supply	
8	anti-condensation heater power supply	

OPTIONS

1	SA 05 / SA 09 X: version for ATEX zone
2	SA 05 / SA 09 PIU: version with feedback potentiometer
3	SA 05 / SA 09 CPT: version with position transmitter 4-20 mA
4	SA 05 / SA 09 PCU: version with adjustment card 0-10, 2-10V, 2-20 mA, 4-20 mA
5	SA 05 / SA 09 LCU: version with local control
6	SA 05 / SA 09 SCP: version with super capacitor safety

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		Ref.	TDS23010
		Rev.	15
		Date	10/2024

SA 05 - SA 09 ELECTRIC ACTUATOR

SPARE PARTS

SA05 Electric actuator	
Gear box	
Printed circuit board	
Electrical motor	
Pinion	
https://www.sectoriel.com/fr/sa05-servomoteur-electrique-aluminium-1-4-tour-50-nm-on-off-ip67.html	

SA09 Electrical actuator	
Gear box	
Printed circuit board	
Electrical motor	
https://www.sectoriel.com/fr/sa09-servomoteur-electrique-aluminium-1-4-tour-90-nm-on-off-ip67.html	

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		Ref.	TDS23010
		Rev.	15
		Date	10/2024

SA 05 - SA 09 ELECTRIC ACTUATOR

ASSEMBLING AND MAINTENANCE INSTRUCTIONS



SA05 - SA05S - SA09



SA05X - SA09X

1. DESCRIPTION

- 1.1 Electric actuator for motorising 90° turn valves.
- 1.2 The full features of this device are given in sheet FT23010 / FT23310.
- 1.3 Before operating this device, read the present instructions carefully.

2. GUARANTEE

- 2.1 Before any contact with our services, identify the type of actuator.
- 2.2 SECTORIEL actuators have a 12-month guarantee from the delivery date. Parts recognized as defective by an assessment at our facility, will be replaced at our expense. Complaints generated by incorrect use or a modification of the actuator cannot be taken into account.

3. VERIFICATIONS AND ACCEPTANCE

- 3.1 At acceptance, check that:
 - the packaging is in good condition;
 - the actuator is as ordered;
 - the equipment is not damaged.
- 3.2 It is recommended to install the actuator as soon as accepted and not to leave it unused. If the equipment has to be stored, it has to be in a dry place protected from weather.

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		Ref.	TDS23010
		Rev.	15
		Date	10/2024

SA 05 - SA 09 ELECTRIC ACTUATOR

4. PRECAUTIONS FOR OPERATION

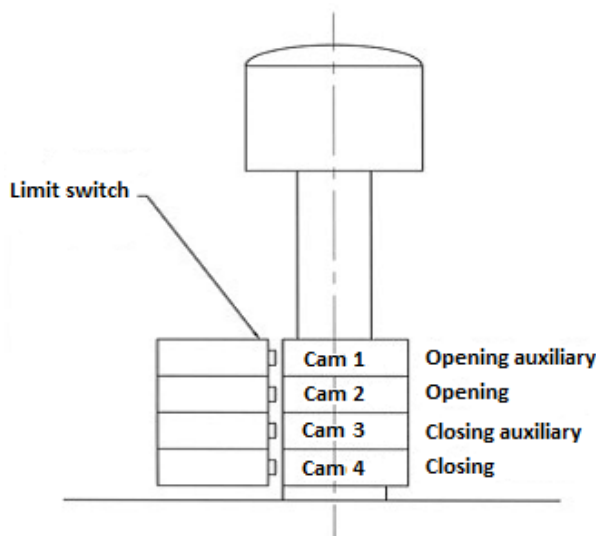
- 4.1 Before installing, make sure that the installation is completely depressurized and brought to ambient temperature.
- 4.2 In a zone classified as explosive, install only model SA05X / SA09X.
- 4.3 The protection class of the actuator is IP67 for indoors or outdoors installation. Do not install this actuator in a marine environment and do not immerse it.
- 4.4 The actuator must not be electrically powered during the installation and maintenance of the valve on the pipework, and of the actuator on the valve
- 4.5 Before proceeding to the electrical connection, check the supply voltage of the actuator.
- 4.6 Do not mount the actuator in series or in parallel with other electrical motors. If need be, use relays.
- 4.7 Do not mount the actuator on valves with higher torque than the nominal torque of the actuator.
- 4.8 The anti-condensation heater must be wired, indoors and outdoors, on special applications.

5. INSTALLATION AND OPERATION

- 5.1 Install the actuator on the valve (already done for units assembled in our workshops)
- 5.2 Perform the electrical wiring as shown in the diagram below.
- 5.3 Adjust the switch stops (already done for units assembled in our workshops).
- 5.4 View the valve's movement using the indicator light on the cover.
- 5.5 SA05 / SA09 and SA05X / SA09X actuator: to actuate the handle override, first disconnect the electrical power supply, then turn the hollow hex-head screw with an Allen key.
No handle override for SA05S.
- 5.6 SA05X actuator: the electrical connection must be carried out using an ATEX approved cable gland (CG) CG M20x1.5 which corresponds to the same operation zones as SA05X / SA09X.
SA05X has 2 connections M20x1.5. If using only one CG ATEX cable gland, the 2nd connection must be provided with an ATEX-approved plug which corresponds to the same operation zones as SA05X / SA09X.
CG and ATEX plug are not provided as standard. Option when ordering.

6. SWITCH SETTING

- 6.1 The cams are attached to the drive stem.
- 6.2 Clockwise rotation = valve closing. The micro-switch stops the actuator.
- 6.3 Anti-clockwise rotation = valve opening. The micro-switch stops the actuator.



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		Ref.	TDS23010
		Rev.	15
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SA 05-X - SA 09-X ELECTRIC ACTUATOR

FEATURES

SA05-X - SA09-X electric actuators are intended for motorising 1/4 turn valves in hazardous areas. The torque are 50 Nm (SA05-X) and 90 Nm (SA09-X). The protection mode is a "d" explosion-proof. With a compact, robust construction and IP67 epoxy-coated aluminium housing, the SA05-X and SA09-X actuator are especially well suited for motorising ball valves and butterfly valves installed in hazardous areas. The SA05-X and SA09-X are equipped with a key-operated hand control and a 3D visual position indicator. It is compliant with the EN 15714-2 standard.

AVAILABLE MODELS

Supply voltages: 230V AC (50-60Hz), 24V AC/DC.

LIMITS OF USE

IP Code	IP 67
Ambient temperature	- 20°C / +55°C
Service factor	S2 : 15mn - S4 : 50%



ATEX APPROVAL

Protection mode	"d" according to the EN 60079-1 standard
Category of material	2
Operation zones	1G and 2G
Marking	II 2 G Ex d IIB T4 (ON KEMA no. 0344)



MECHANICAL FEATURES

Gear box	treated steel pinions
Torque	50 Nm (SA05-X) / 90 Nm (SA09-X)
Angle of rotation	90° +/- 5°
Declutching	Without
Override control	By key

Actuator	SA05-X (50Hz)		SA05-X (60Hz)	SA09-X (50Hz)	SA09-X (50Hz)	SA09-X (60Hz)
Voltage	230V AC	24V AC/DC	230V AC	230V AC	24V AC/DC	230V AC
Torque (Nm)	50		50	90		90
Manoeuvring time (s)	17	10	14	36	17	30
ISO 5211	F03/F05/F07 star 14					

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		Ref.	TDS23310
		Rev.	09
		Date	10/2024

SA 05-X - SA 09-X ELECTRIC ACTUATOR

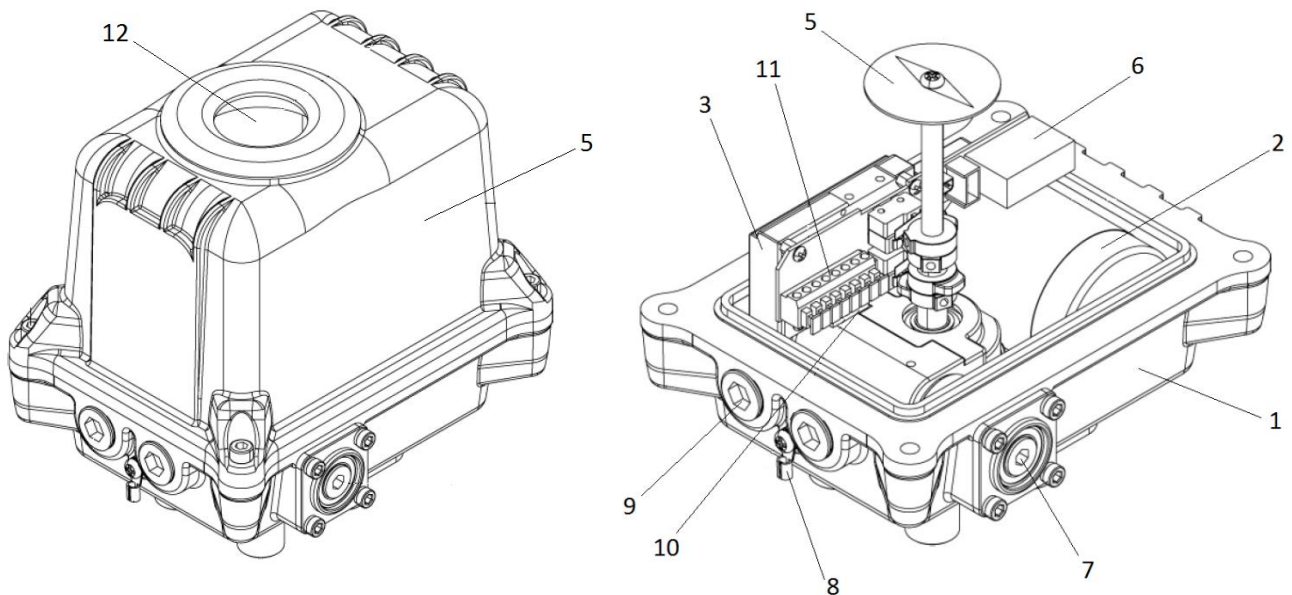
ELECTRICAL FEATURES

Motor protection	Thermal switch	Anti-condensation	5W heater
Limit switches	2 adjustable switches	Electrical connection	2 x C.G. M20x1.5 ATEX (NOT SUPPLIED on option)
Auxiliary switches	2 adjustable dry switches		

Actuator	SA05 X		SA09 X	
Voltage	230V AC	24V AC/DC	230V AC	24V AC/DC
Power (W)	6 W	15 W	6 W	15 W
Current (A)	0.23	1.8	0.19	1.8

CONSTRUCTION

1	Housing	Polyester-coated aluminium
2	Electrical motor	
3	Gear box	Treated steel pinions
4	Cover	Polyester-coated aluminium
5	Position indicator	Polycarbonate plastic
6	Condenser	
7	Handle override	
8	Earthing	
9	Cable inlet	
10	Anti-condensation heater	
11	Terminal box	
12	Indicator light	Toughened glass



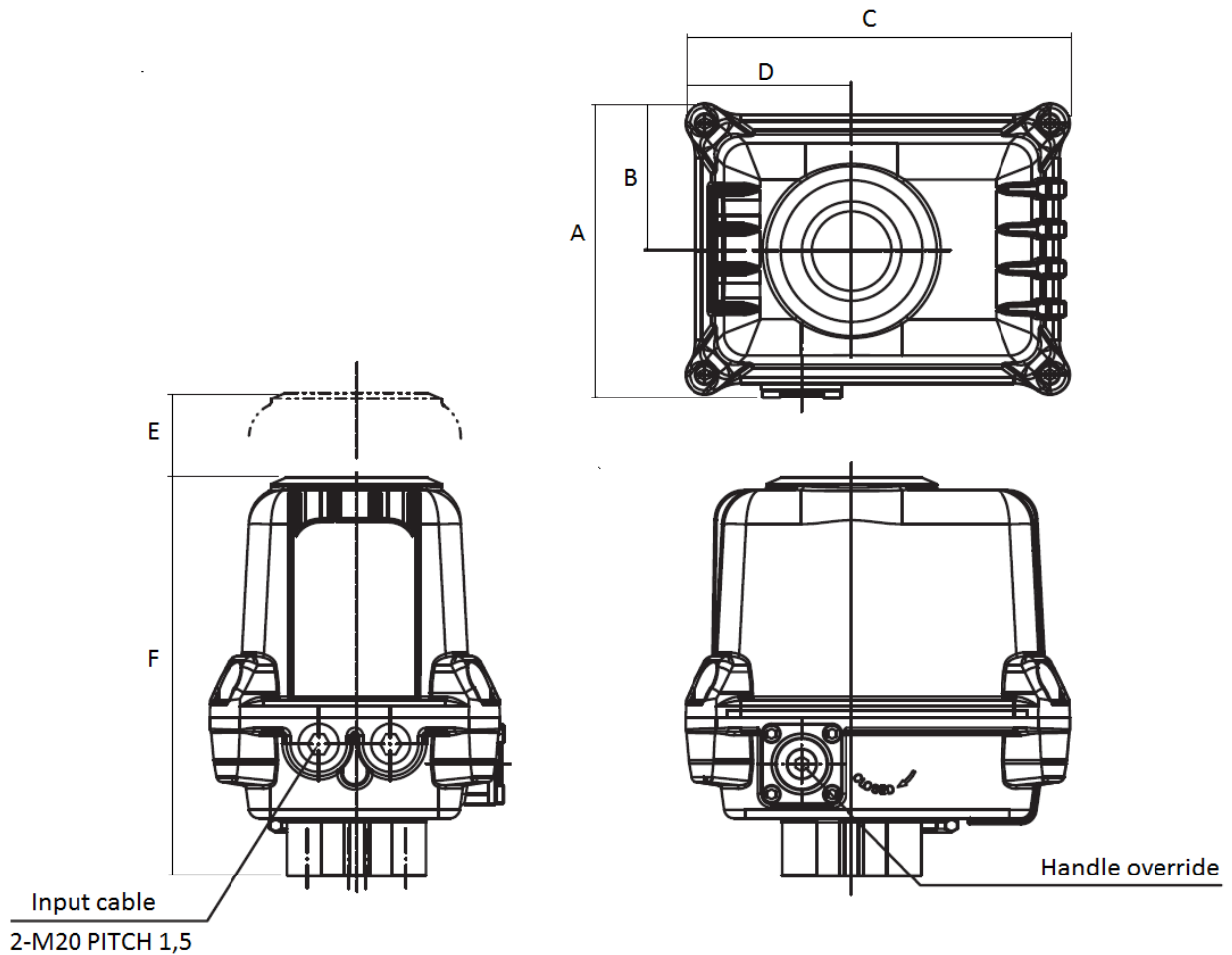
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		Ref.	TDS23310
		Rev.	09
		Date	10/2024

SA 05-X - SA 09-X ELECTRIC ACTUATOR

DIMENSIONS (mm) AND WEIGHT (kg)

Dimensions (mm)	A	B	C	D	E	F	Weight (kg)
SA05-X / SA09-X	147	73	193	83	100	199	5

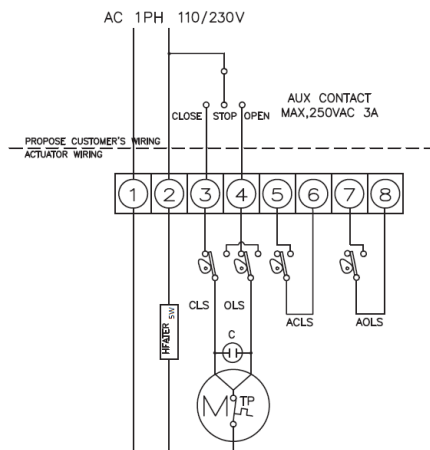


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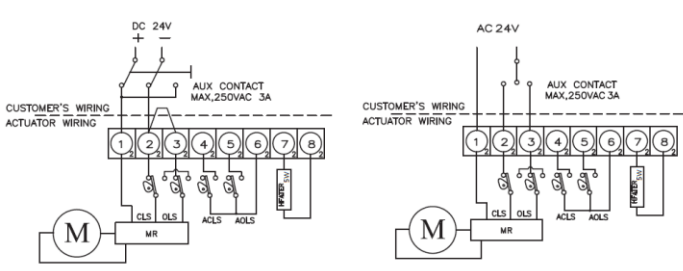
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		Ref.	TDS23310
		Rev.	09
		Date	10/2024

SA 05-X - SA 09-X ELECTRIC ACTUATOR

WIRING DIAGRAM 230V AC 50Hz/60Hz

1	common	CLS : Close Limit Switch (250VAC 3A) OLS : Open Limit Switch (250VAC 3A) ACLS : Aux Close Limit Switch (250VAC 3A) AOLS : Aux Open Limit Switch (250VAC 3A) TP : Thermal Protector (250VAC 3A) RM : Motor Regulation 
2	anti-condensation heater	
3	closing command	
4	opening command	
5	closing auxiliary	
6	closing auxiliary	
7	opening auxiliary	
8	opening auxiliary	

WIRING DIAGRAM 24V AC/DC

1	common or +	CLS : Close Limit Switch (250VAC 3A) OLS : Open Limit Switch (250VAC 3A) ACLS : Aux Close Limit Switch (250VAC 3A) AOLS : Aux Open Limit Switch (250VAC 3A) TP : Thermal Protector (250VAC 3A) RM : Motor Regulation 
2	closing command	
3	opening command	
4	closing auxiliary	
5	opening auxiliary	
6	auxiliaries common	
7	anti-condensation heater power supply	
8	anti-condensation heater power supply	

OPTIONS

1	SA 05 X / SA 09 PIU : version with feedback potentiometer
2	SA 05 X / SA 09 X CPT : version with position transmitter 4-20 mA
3	SA 05 X / SA 09 PCU : version with adjustment card 0-10, 2-10V, 2-20 mA, 4-20 mA

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		Ref.	TDS23310
		Rev.	09
		Date	10/2024

SA 05-X - SA 09-X ELECTRIC ACTUATOR

SPARE PARTS

SA05-X / SA09-X Electric actuator	
Gear box	
Printed circuit board	
Pinion (SA05-X)	
Electrical motor	
https://www.sectoriel.com/fr/sa05x-servomoteur-electrique-atex-1-4-tour-50-nm-on-off-ip67.html	

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		Ref.	TDS23310
		Rev.	09
		Date	10/2024

SA 05-X - SA 09-X ELECTRIC ACTUATOR

ASSEMBLING AND MAINTENANCE INSTRUCTIONS



SA05 - SA05S - SA09



SA05X - SA09X

1. DESCRIPTION

- 1.1 Electric actuator for motorising 90° turn valves.
- 1.2 The full features of this device are given in sheet FT23010 / FT23310.
- 1.3 Before operating this device, read the present instructions carefully.

2. GUARANTEE

- 2.1 Before any contact with our services, identify the type of actuator.
- 2.2 SECTORIEL actuators have a 12-month guarantee from the delivery date. Parts recognized as defective by an assessment at our facility, will be replaced at our expense. Complaints generated by incorrect use or a modification of the actuator cannot be taken into account.

3. VERIFICATIONS AND ACCEPTANCE

- 3.1 At acceptance, check that:
 - the packaging is in good condition;
 - the actuator is as ordered;
 - the equipment is not damaged.
- 3.2 It is recommended to install the actuator as soon as accepted and not to leave it unused. If the equipment has to be stored, it has to be in a dry place protected from weather.

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		Ref.	TDS23310
		Rev.	09
		Date	10/2024

SA 05-X - SA 09-X ELECTRIC ACTUATOR

4. PRECAUTIONS FOR OPERATION

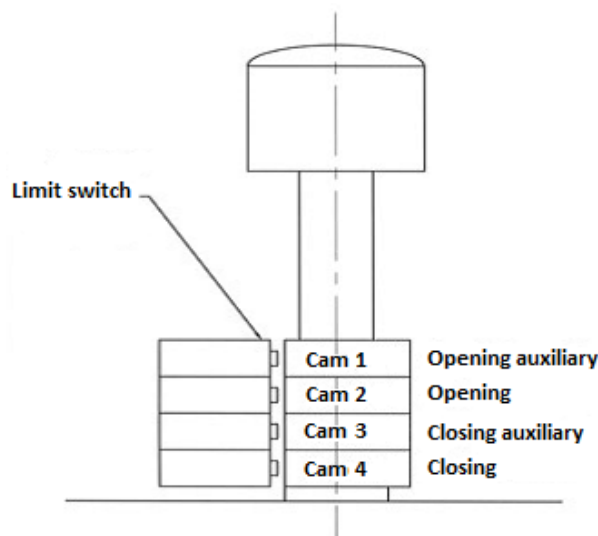
- 4.1 Before installing, make sure that the installation is completely depressurized and brought to ambient temperature.
- 4.2 In a zone classified as explosive, install only model SA05X / SA09X.
- 4.3 The protection class of the actuator is IP67 for indoors or outdoors installation. Do not install this actuator in a marine environment and do not immerse it.
- 4.4 The actuator must not be electrically powered during the installation and maintenance of the valve on the pipework, and of the actuator on the valve
- 4.5 Before proceeding to the electrical connection, check the supply voltage of the actuator.
- 4.6 Do not mount the actuator in series or in parallel with other electrical motors. If need be, use relays.
- 4.7 Do not mount the actuator on valves with higher torque than the nominal torque of the actuator.
- 4.8 The anti-condensation heater must be wired, indoors and outdoors, on special applications.

5. INSTALLATION AND OPERATION

- 5.1 Install the actuator on the valve (already done for units assembled in our workshops)
- 5.2 Perform the electrical wiring as shown in the diagram below.
- 5.3 Adjust the switch stops (already done for units assembled in our workshops).
- 5.4 View the valve's movement using the indicator light on the cover.
- 5.5 SA05 / SA09 and SA05X / SA09X actuator: to actuate the handle override, first disconnect the electrical power supply, then turn the hollow hex-head screw with an Allen key.
No handle override for SA05S.
- 5.6 SA05X actuator: the electrical connection must be carried out using an ATEX approved cable gland (CG) CG M20x1.5 which corresponds to the same operation zones as SA05X / SA09X.
SA05X has 2 connections M20x1.5. If using only one CG ATEX cable gland, the 2nd connection must be provided with an ATEX-approved plug which corresponds to the same operation zones as SA05X / SA09X.
CG and ATEX plug are not provided as standard. Option when ordering.

6. SWITCH SETTING

- 6.1 The cams are attached to the drive stem.
- 6.2 Clockwise rotation = valve closing. The micro-switch stops the actuator.
- 6.3 Anti-clockwise rotation = valve opening. The micro-switch stops the actuator.



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		Ref.	TDS23310
		Rev.	09
		Date	10/2024