

737-747 XS VALVE WITH ELECTRIC ACTUATOR SA05

FEATURES

The 2-way ball valves 737XS (steel) and 747XS (stainless steel) + SA are designed for the automatic sectioning of high-temperature fluid networks such as steam up to 15 bar. Made of 3 pieces with external tie rods, they are easily dismantled for maintenance. The valve has a full bore with an antistatic device and a double seal at the stuffing box. It is CE, ATEX (with SA-X), fire safety (737XS), and TA-LUFT approved. The SA05 actuator is mounted with a heat dispersion bracket. It is perfectly suited to industrial use both indoors and outdoors.

AVAILABLE MODELS

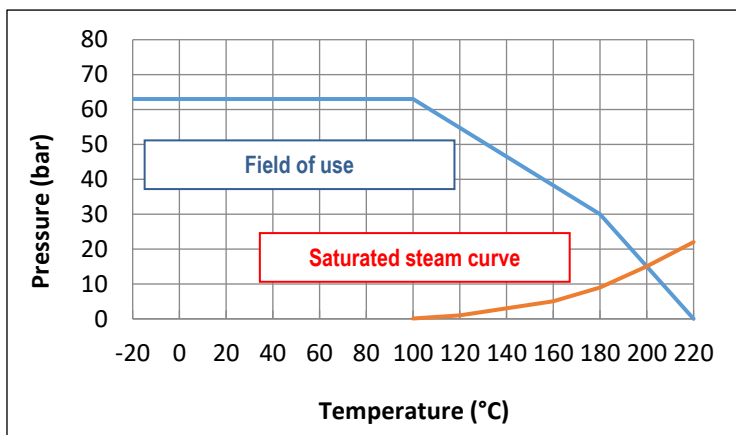
Diameters 1/2" to 2".

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

Connect.	BSP	SW	BW
steel	737 XS	739 XS	738 XS
St. steel	747 XS	749 XS	748 XS

LIMITS OF USE

Material	steel	stainless steel
Fluid pressure: PS	63 bar (20°C)	
Fluid temperature: TS	-25°C/+220°C	- 40°C/+220°C
Use on steam	15 bar/+200°C	
Room temperature	- 20°C/+ 70°C	
Service factor	S2 - 70%	



DIRECTIVES AND MANUFACTURING STANDARDS

OBJECT	Standard	NB	OBJECT	Standard
EC Pressure Directive 2014/68	1/4" to 1" : not subject		Final test	EN 12266
	1"1/4 to 2" : category III	TÜV 0035	Material certificate	EN 10204
Sizing	EN 12516-1		Motor connection	ISO 5211
Steel grades	EN 1503-1		Fire safe	API 607/5 – ISO10497-5
ATEX Directive	Valve	SIRA 0518	II 2G/D Tx for areas 1,2,21 and 22	
	Servo motor (SA-X option)	KEMA 0344	II 2G EEx d II B T4 for areas 1 and 2	

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		Date	02/2025



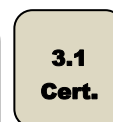
SA 05



SA-X 05



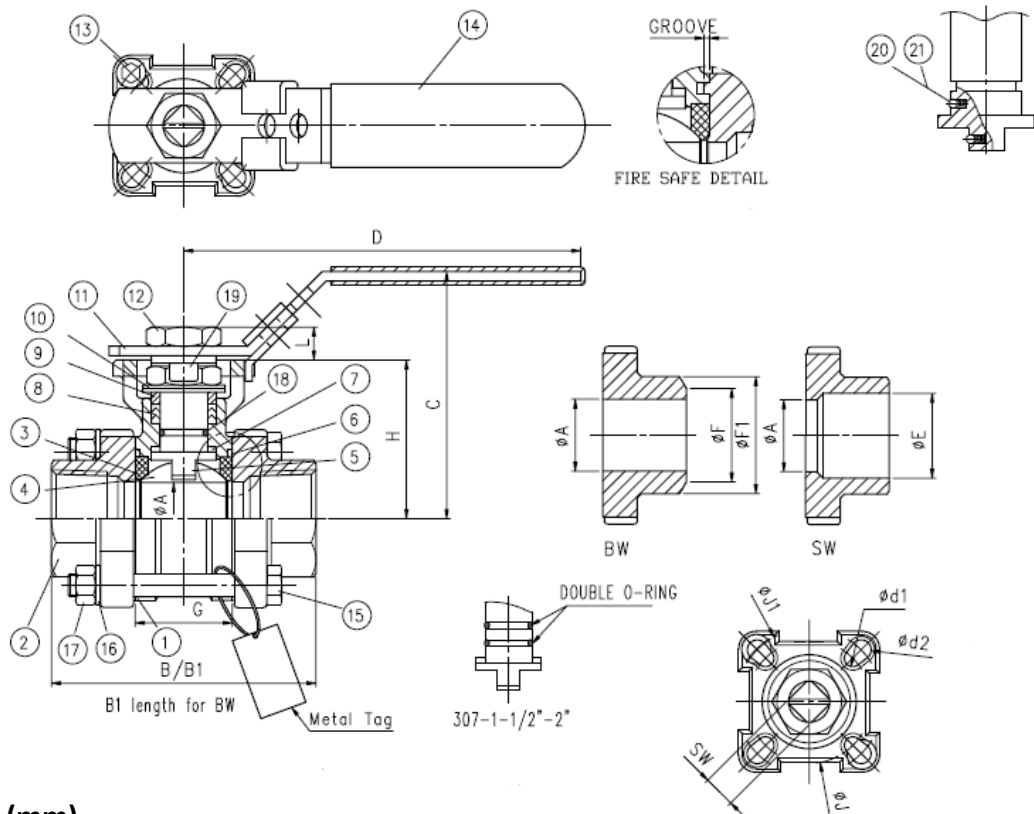
with SA-X 05



737-747 XS VALVE WITH ELECTRIC ACTUATOR SA05

CONSTRUCTION

No.	Name	Steel	Stainless steel	No.	Name	Steel	Stainless steel
1	Body	1.0619	1.4408	12	Nut	304 st. steel	304 st. steel
2	Tips	1.0619	1.4408	13	Butte	304 st. steel	304 st. steel
3*	Seats	PTFE+50% st. steel	PTFE+50% st. steel	14	Sleeve	PVC	PVC
4	Sphere	CF8M / 316	CF8M / 316	15	Tie rods	304 st. steel	304 st. steel
5	Axis	316 stainless steel	316 stainless steel	16	Washer	304 st. steel	304 st. steel
6*	Body gasket	Graphite	Graphite	17	Nuts	304 st. steel	304 st. steel
7*	Washer	PTFE+15%GF	PTFE+15%GF	18*	O-ring	FPM	FPM
8*	Trim	Graphite	Graphite	19	Nut brake	304 st. steel	304 st. steel
9	Spacer	Stainless steel 301	Stainless steel 301	20	Anti-static	304 st. steel	304 st. steel
10	Washer B.	Stainless steel 301	Stainless steel 301	21	Spring	304 st. steel	304 st. steel
11	Lever	304 stainless steel	304 stainless steel	* Parts included in the maintenance kit			



DIMENSIONS (mm)

DN	A	B (G)	B (SW)	B1 (BW)	C	D	E	F	F1	G	H	D1	SW
1/2"	16	75	75	75	70.9	110	21.9	17	22.4	25.2	42.3	42	9
3/4"	20	80	80	90	73.4	110	27.2	22	28.2	27.7	44.8	42	9
1"	24.5	90	90	100	84.1	135	34.0	28	33.7	33.0	54.0	50	11
1"1/4	32	110	110	110	89.3	135	42.7	37	44.0	41.2	59.2	50	11
1"1/2	38	120	120	125	109.5	165	48.8	43	50.8	49.3	73.5	70	14
2"	50	140	140	150	118.9	165	61.3	54	62.6	63.6	82.9	70	14

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ELECTRIC MOTORIZATION SA

The SA motorization offered as standard is understood to be:

- IP67 epoxy-coated aluminum housing servomotor and steel reducer,
- safety coefficient 1.3 minimum in relation to the nominal torque of the valve,
- upstream/downstream pressure difference $\Delta P=10$ bar max,

The servomotor mounting is of the arch type + stainless steel driver according to EN 15081.

DN	Actuator	Power	Intensity 230V AC	Intensity 24V AC-DC	Time*	Standard Servomotor Equipment
1/2"	SA 05	6 W	23 mA	1.8 mA	17 s	2 adjustable limit switches 2 dry auxiliary contacts 2W anti-condensation resistor Engine thermal protection Emergency manual key control Backlit position indicator <u>Electrical connection:</u> 2 PE M20x1.5
3/4"	SA 05	6 W	23 mA	1.8 mA	17 s	
1"	SA 05	6 W	23 mA	1.8 mA	17 s	
1"1/4	SA 05	6 W	23 mA	1.8 mA	17 s	
1"1/2	SA 05	6 W	23 mA	1.8 mA	17 s	
2"	SA 05	6 W	23 mA	1.8 mA	17 s	

For any other conditions of service, please contact us.

*indicative time of the servomotor at no load

OPTIONS OF MOTORIZATION

There are many options, so please contact our sales service for more information on these:

1	2	3	4	5
SA 05 S : slow actuator 100 s	SA 05 PCU : 4-20mA or 0-10V regulating actuator	SA 05 SCP : super capacitor safety actuator	SA 05 X : Actuator for use in ATEX zones 1 and 2	SR 05 : spring return safety actuator
				
6	SA PUI actuator with feedback potentiometer			
7	Thermal dispersion arch for high-temperature fluids			
8	stainless steel riser height 100 mm for passage of heat insulation			
9	servomotor sized for upstream/downstream pressure difference ΔP greater than 10 bar			
10	NA servomotor with emergency control disengageable by handwheel			

INSTALLATION IN ATEX ZONE

If the 737XS-747+SA-X 05 automatic tap is to be installed in ATEX zones 1 or 2, it is necessary to specify this when ordering. Our services will check the assembly, install a ground braid and produce an assembly certificate. These operations are carried out in the workshop by our approved technicians. Please contact us.

It is also necessary to follow the special instructions for assembly and maintenance of motorized valves in ATEX zones. ATEX cable glands and plugs are not included in the supply. Use the following codes:

M20x1.5 ATEX aluminum cable gland	Code 980179	Aluminum cap M20x1.5 ATEX	Code 980180
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ASSEMBLY AND MAINTENANCE INSTRUCTIONS

1 - Assembly

1.1 - Checks

- Check that the material of the valve body is chemically compatible with the fluid.
- Check that the pressure and operating conditions are compatible with the (P,T) diagram of the valve. See § "Operation limits".
- Check that the fluid is clean and free of particles. These can scratch the ball and damage the seats, making the valve leaky. Install an upstream filter if necessary.
- Check that there is no risk of thermal expansion of the fluid that could damage the seats. In the open position, an orifice at the top of the sphere balances the pressures between the dead chamber and the fluid passage. As an option, a pressure relief orifice on the upstream side of the valve to balance the pressures is recommended for fluids such as ammonia, LPG, chlorine, etc.
- Check that the valve is not used for flow or pressure rolling as it is not designed for this use, and there is a risk of premature wear of the seats, particularly in the case of high pressure and/or temperature. For this particular application, preferably use our "V-port" version with a "V" shaped pierced ball. Please contact us.
- Check that the valve is not used on a gas that could condense at certain times during the process. In this case, the pressure in the dead chamber could become negative, which could lead to significant deformation of the seats. Contact us.
- Static electricity: the faucet is supplied with an internal sphere-axis-body electrical continuity device. If the conditions of use require electrical continuity of the installation, check its grounding.
- If the valve is installed in a potentially explosive area, it is essential to follow the additional "IMEVMATEX" instructions.

1.2 - Storage before assembly

- Comply with our general storage instructions "IMESTOCK"
- Check that the tap rods have not become loose during transport.

1.3 - Assembly

- Before any installation, isolate the upstream and downstream pipes, depressurize the pipe and bring the installation to room temperature. Carefully clean the pipes of any particles (foreign bodies, dust, rust, etc.) or shavings by rinsing with water or blowing with air.
- Remove the protective caps from the ends of the taps.
- Check the cleanliness of the internal surfaces of the faucet and clean them if necessary.
- Mounting direction: These valves do not have a preferred mounting direction, unless a pressure relief hole has been drilled on the ball.
- Check the perfect alignment and good support of the upstream and downstream pipes and the valve. Misalignments cause mechanical deformations that can block the valve or cause leaks at the body joints.

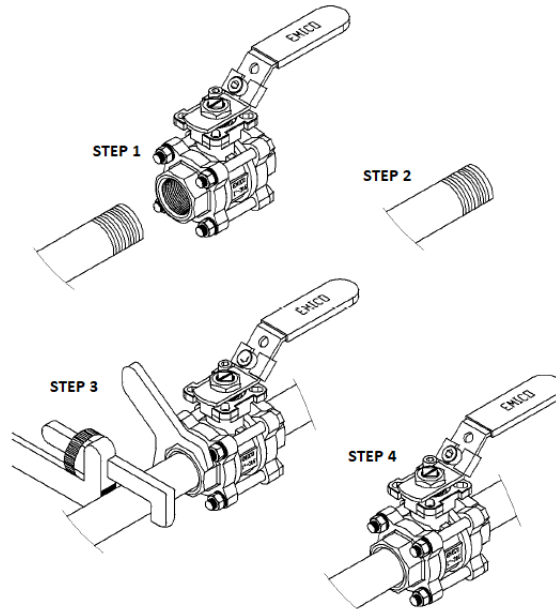
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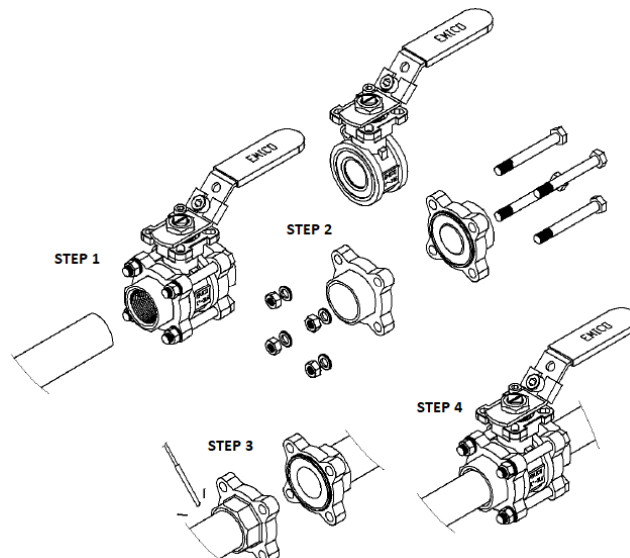
○ **Connection of threaded valves:**

- Check that the valve and pipe thread standards are the same.
- Coat the pipe threads with a sealing material (oak, PTFE tape, waterproof glue, etc.) suitable for the fluid.
- Screw the tube into the faucet nozzle clockwise as shown in the diagram below.
- Check the tightness of the connection using an appropriate test (hydraulic test or leak detection spray).



○ **Connecting the soldering valves:**

- Remove the end pieces (marks 2) by unscrewing the tie rods and remove the central body.
- Weld each end piece onto the upstream or downstream pipe, respecting the alignment of the tie rod holes.
- Cool the welded ends to room temperature then reassemble the central body, respecting the tightening torques indicated in the table below.
- Check the tightness of the connection using an appropriate test (hydraulic test or leak detection spray).



- Hydraulic test of the installation
- The taps have been factory-tested to 1.5 PS.
- In the event of a hydraulic test of the installation, do not exceed the authorized pressure.

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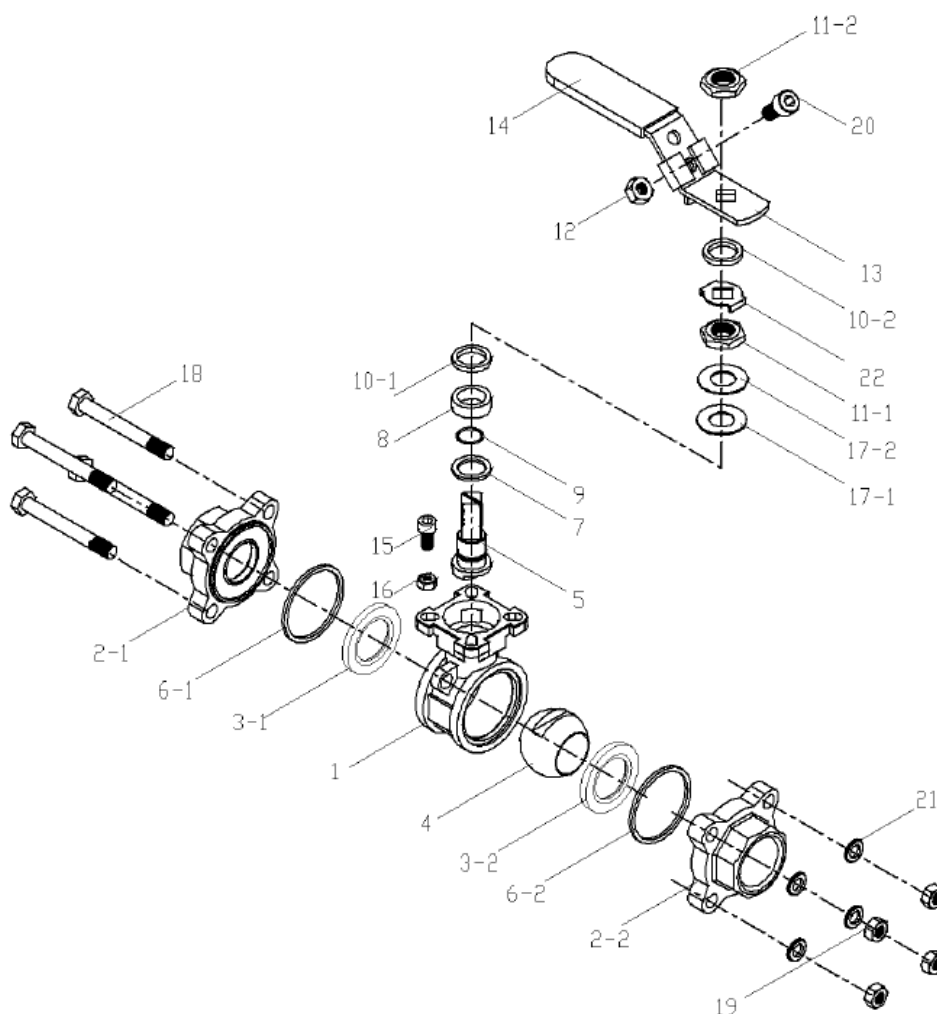
2 - Use

- If the fluid passing through the valve is hot, do not touch the surface of the valve.
- Always operate the faucet slowly without jerking.
- Clockwise opening, counterclockwise closing.

3 - Maintenance

3.1 - Frequency of maintenance

- The frequency of maintenance depends on the use of the valve, the type of fluid, its speed, the frequency of operation, and the pressure and temperature rise and fall cycles.
- Before any intervention, isolate the upstream and downstream pipes using the valves provided for this purpose. Depressurize the pipe and bring the installation to room temperature.
- If the lever needs to be removed, do this before disassembling the body.
- To disassemble the central body, unscrew the tie rods symmetrically. Then carefully remove the central part, avoiding dropping the sphere.
- To remove the sphere from the body, rotate the stem a quarter turn.



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3.2 - Inspection of the condition of the tap and possible repair

- Check the condition of the sphere (Reference 4): it must be clean and scratch-free. If the cleaning or polishing operation is not possible, replace it (see § spare parts).
- Check the condition of the seats (3.1 and 3.2): they must not be deformed, scratched, worn or dirty. If not, replace them using the parts in the seal kit.
- Check the condition of the stuffing box (7, 8 and 9): there must be no leakage at the shaft, and the rings must not be excessively worn. Replace these seals if necessary.
- Check the condition of the body gaskets (6.1 and 6.2). Replace them if necessary.
- Reassemble the various parts of the tap, respecting the tightening torques indicated in the table below.
- Check that the axis maneuver is smooth. Carry out about ten maneuvers.

TIGHTENING TORQUE TABLE FOR TIE RODS AND LEVER NUT

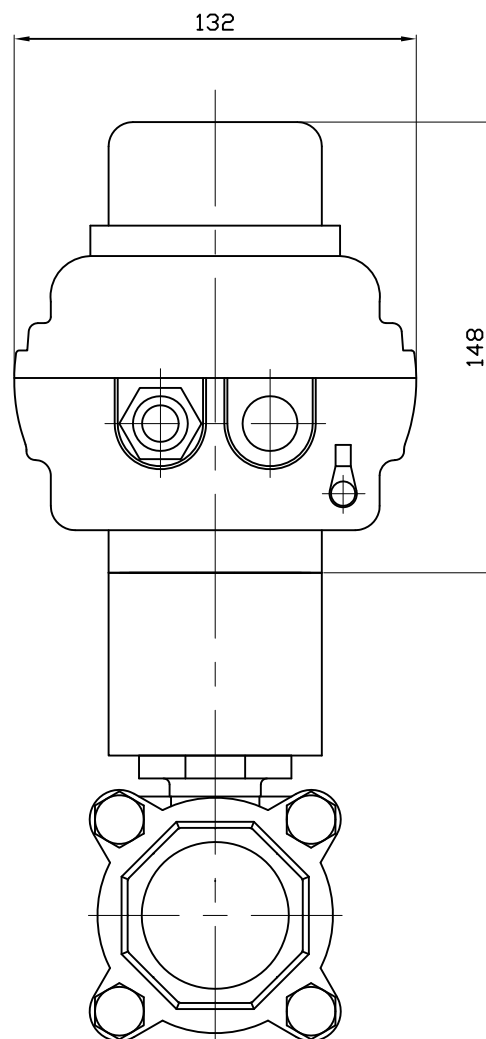
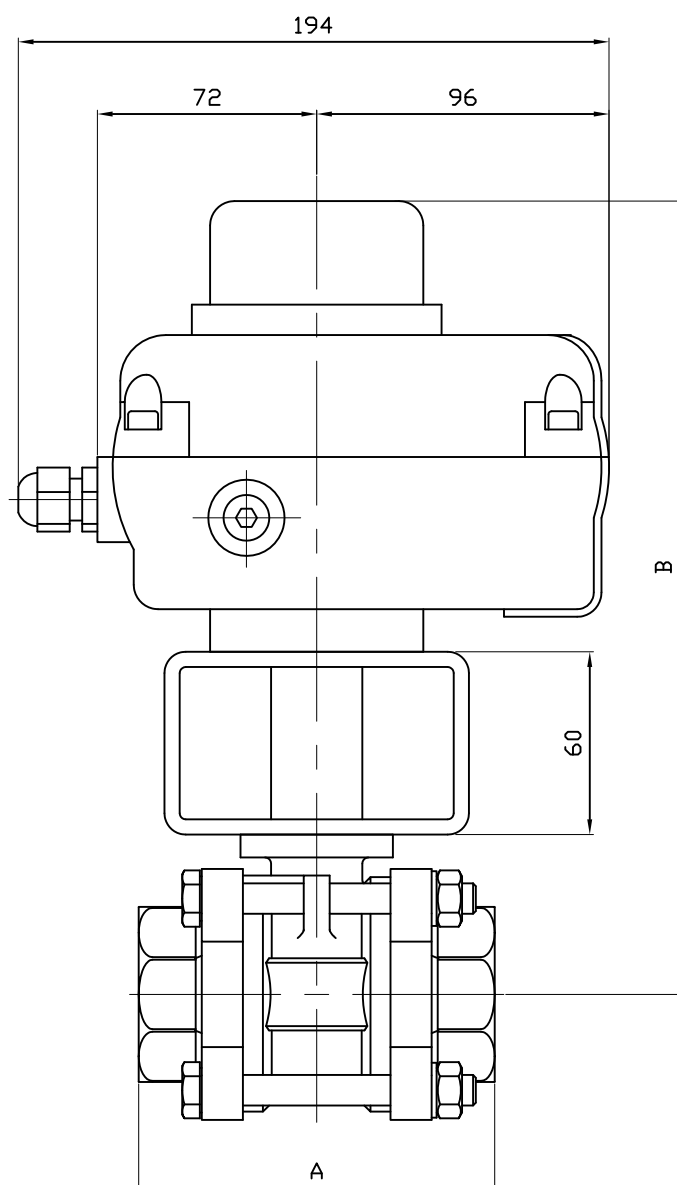
DN	Tie rods	Torque (Nm)	Lever nut (Nm)
1/2" - 15	M6	10	4
3/4" - 20	M8	20	4
1" - 25	M8	20	4.5
1"1/4 - 32	M10	35	4.5
1"1/2 - 40	M10	35	5.5
2" - 50	M10	40	5.5

SPARE PARTS

DN	Gasket kit	Sphere	V30° Sphere	V60° Sphere	Tie rod kit	Handle
Marker	6-7-8-18	4	4	4	15-16-17	11
1/2" - 15	982872	980032	980042	980052	982832	982802
3/4" - 20	982873	980033	980043	980053	982833	982802
1" - 25	982874	980034	980044	980054	982834	982804
1"1/4 - 32	982875	980035	980045	980055	982835	982804
1"1/2 - 40	982876	980036	980046	980056	982836	982806
2" - 50	982877	980037	980047	980057	982837	982806

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DN	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A	75	80	90	110	120	140
B	250.3	253	262	267	281.5	291
KG	3.82	4.02	4.57	5.27	5.9	7.8

Informations données à titre indicatif et sous réserve de modifications éventuelles
data subject to alteration

				Ajout poids-Modif cote B	05/07/2012	A
Ech:/	Date :23/05/2011	Dessiné par : E.D	Tolérances générales : +/- 0.2	Modifications	Date	REV.
ROBINET A TOURNANT SPHERIQUE 737XS-747XS/BALL VALVE 737XS-747XS + SERVOMOTEUR SA05/ELECTRIC ACTUATOR SA05				Matière :		
				Poids <Kg> :		
				Traitement : SANS		
				Plan n° Ens 1108A		

45, Rue du Ruisseau
38297 SAINT QUENTIN FALLAVIER

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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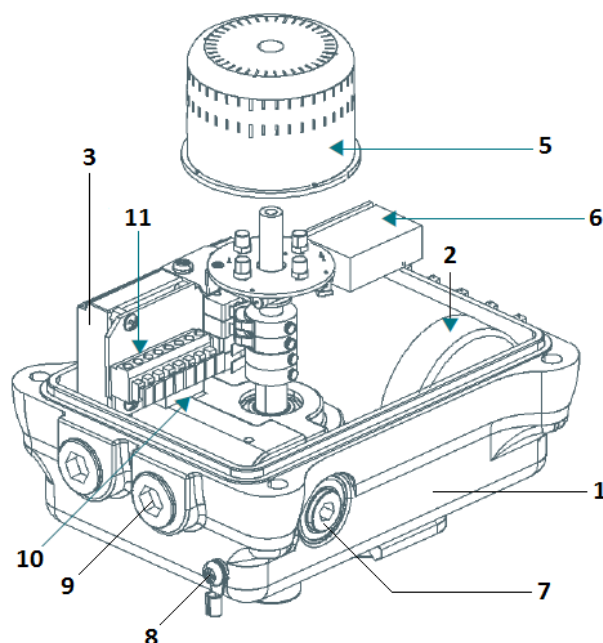
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SA 05 - SA 09 ELECTRIC ACTUATOR

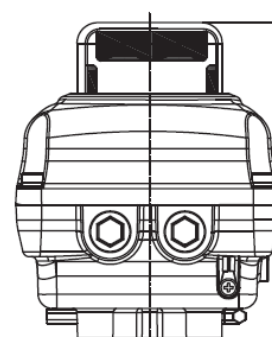
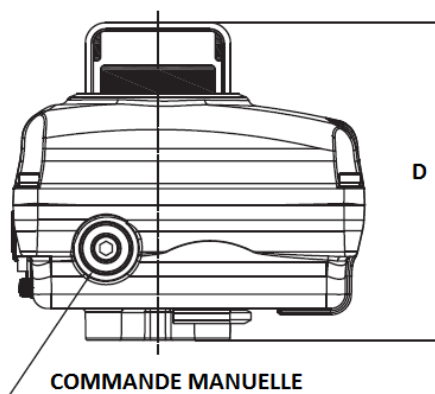
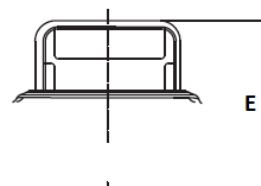
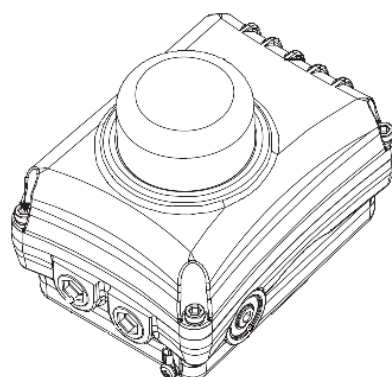
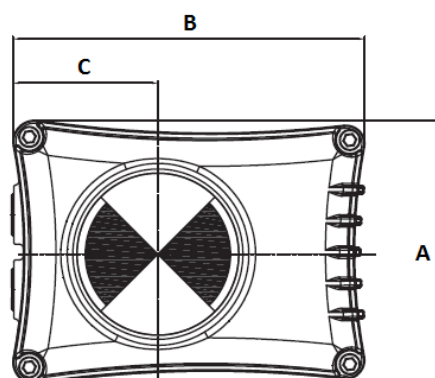
CONSTRUCTION

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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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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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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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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SA 05 - SA 09 ELECTRIC ACTUATOR

4. PRECAUTIONS FOR OPERATION

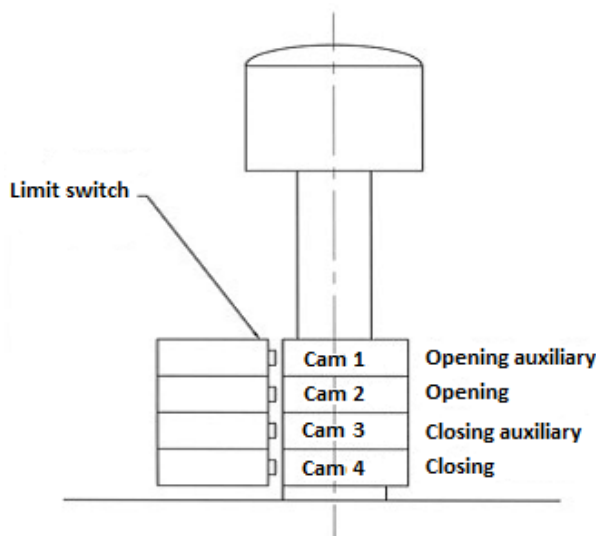
- 4.1 Before installing, make sure that the installation is completely depressurized and brought to ambient temperature.
- 4.2 In a zone classified as explosive, install only model SA05X / SA09X.
- 4.3 The protection class of the actuator is IP67 for indoors or outdoors installation. Do not install this 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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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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SA 05-X - SA 09-X ELECTRIC ACTUATOR

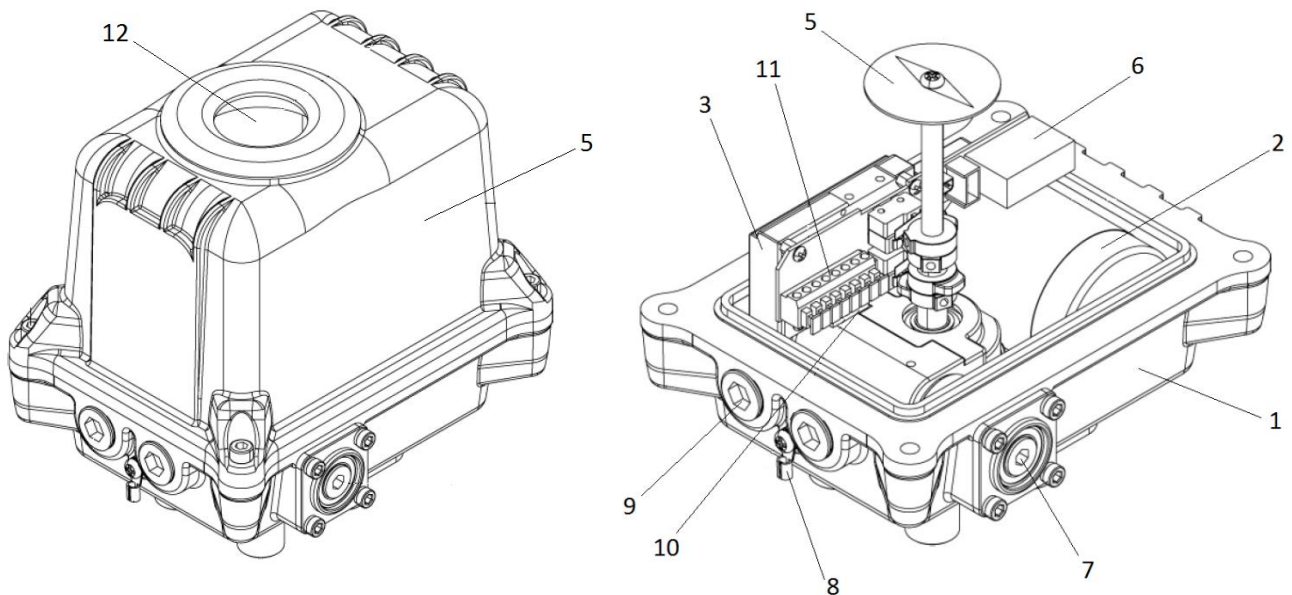
ELECTRICAL FEATURES

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



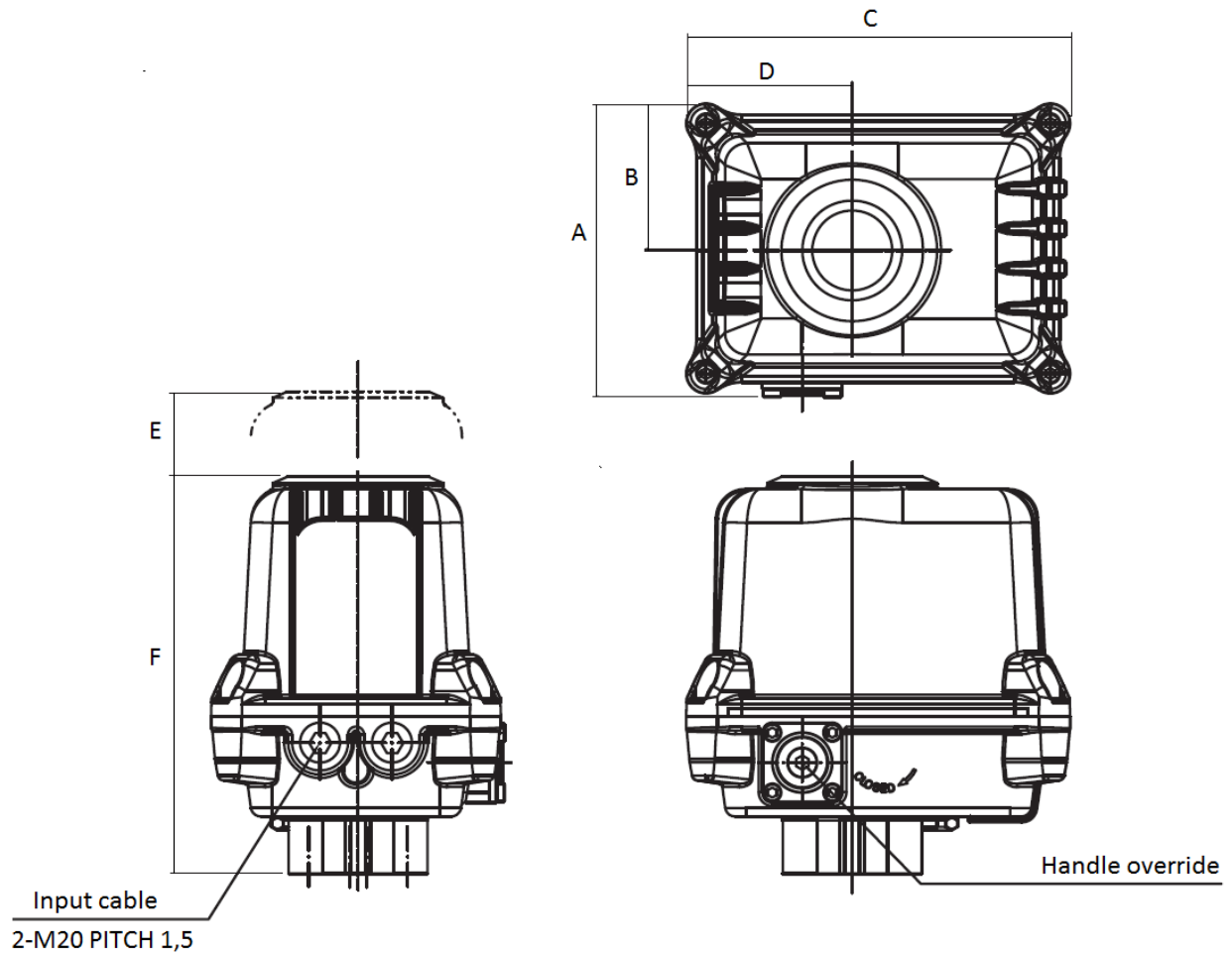
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SA 05-X - SA 09-X ELECTRIC ACTUATOR

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

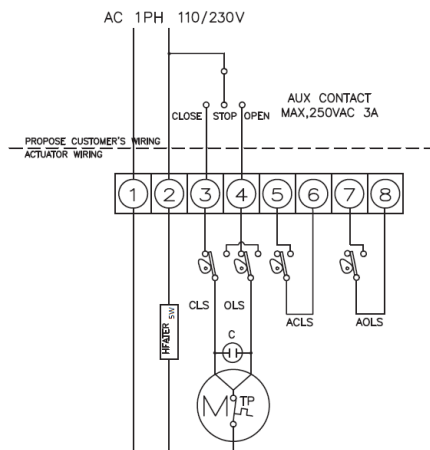


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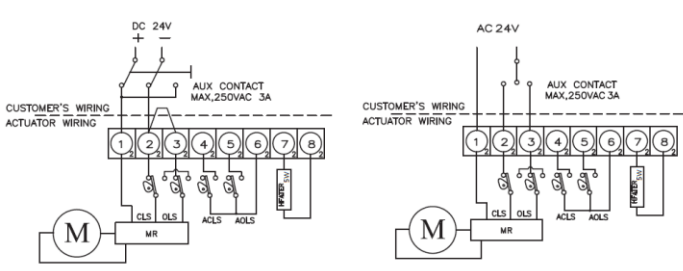
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SA 05-X - SA 09-X ELECTRIC ACTUATOR

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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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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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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SA 05-X - SA 09-X ELECTRIC ACTUATOR

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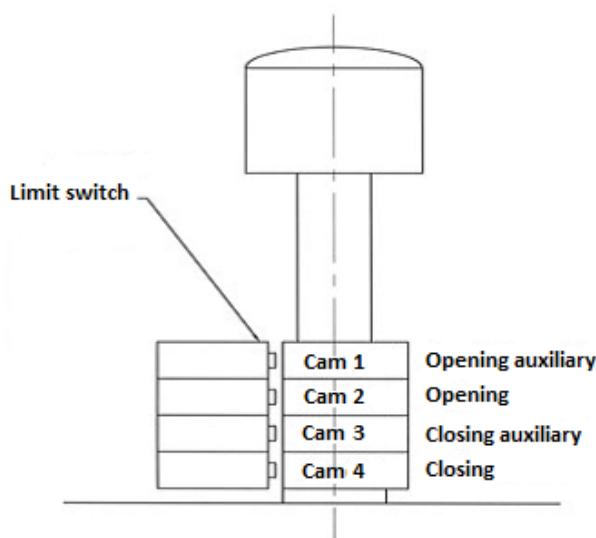
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