

1118 BUTTERFLY VALVES + NA ELECTRIC ACTUATOR

FEATURES

The 1118 triple-offset butterfly valve is a high-performance valve. It is designed for the automatic shut-off of high-pressure and/or high-temperature fluid pipes such as steam, bitumen, heating oils, etc. The valve has a direction of mounting, but the seat leakage is, however, bi-directional. The single-block stem of the butterfly is mounted on bearings and has an antistatic device. Due to its fire safe construction, the valve can be used for hydrocarbons. The ISO 5211 mounting pad enables standardised actuators to be mounted.



NA



NA-X



with NA-X



AVAILABLE MODELS

DN 100 to DN 300, FAF according to EN 558-1 series 109.

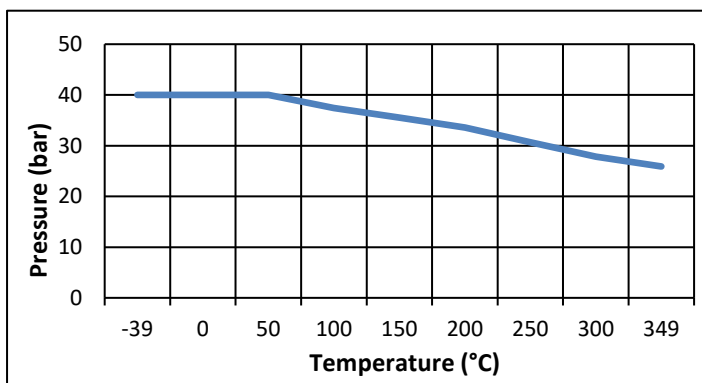
“LUG” wafer mounting PN40.

230V AC, three-phase 400V supply voltages.



LIMITS OF USE

Fluid pressure: PS	40 VA Maxi
Fluid temperature: WT	Steel: -39°C / +349°C
Ambient temperature	-20°C / +70°C
Service factor	S2 - 70%



DIRECTIVES AND MANUFACTURING STANDARDS

OBJECT	Standard	OBJECT	Standard
Pressure Equipment Directive 2014/68/EC	Cat.III Module H - CE 0035	Face-to-face dimension	ISO 558 series 109
ATEX Directive	EN 13463-1: II 2G/D	Line leak-tightness	ANSI/FCI 70-2
Construction	API 609	Final test	ISO 5208 and MSS SP-61
Body materials	EN 1503-2	Fire safe	ISO 10497: 2010
Material certificate	EN 10204	Connection Motorisation	ISO 5211
Flange dimension	EN 1092-1		

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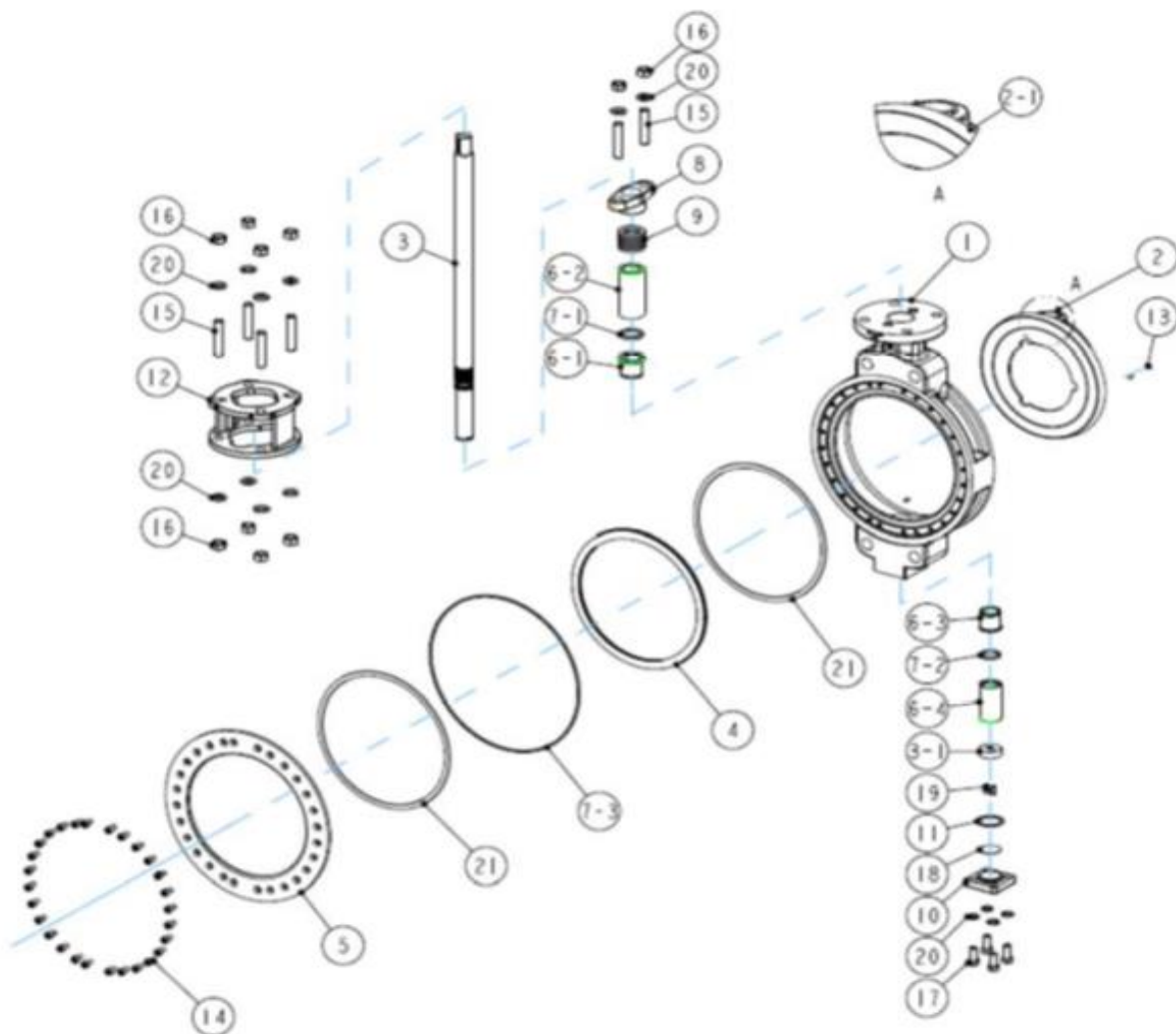


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CONSTRUCTION



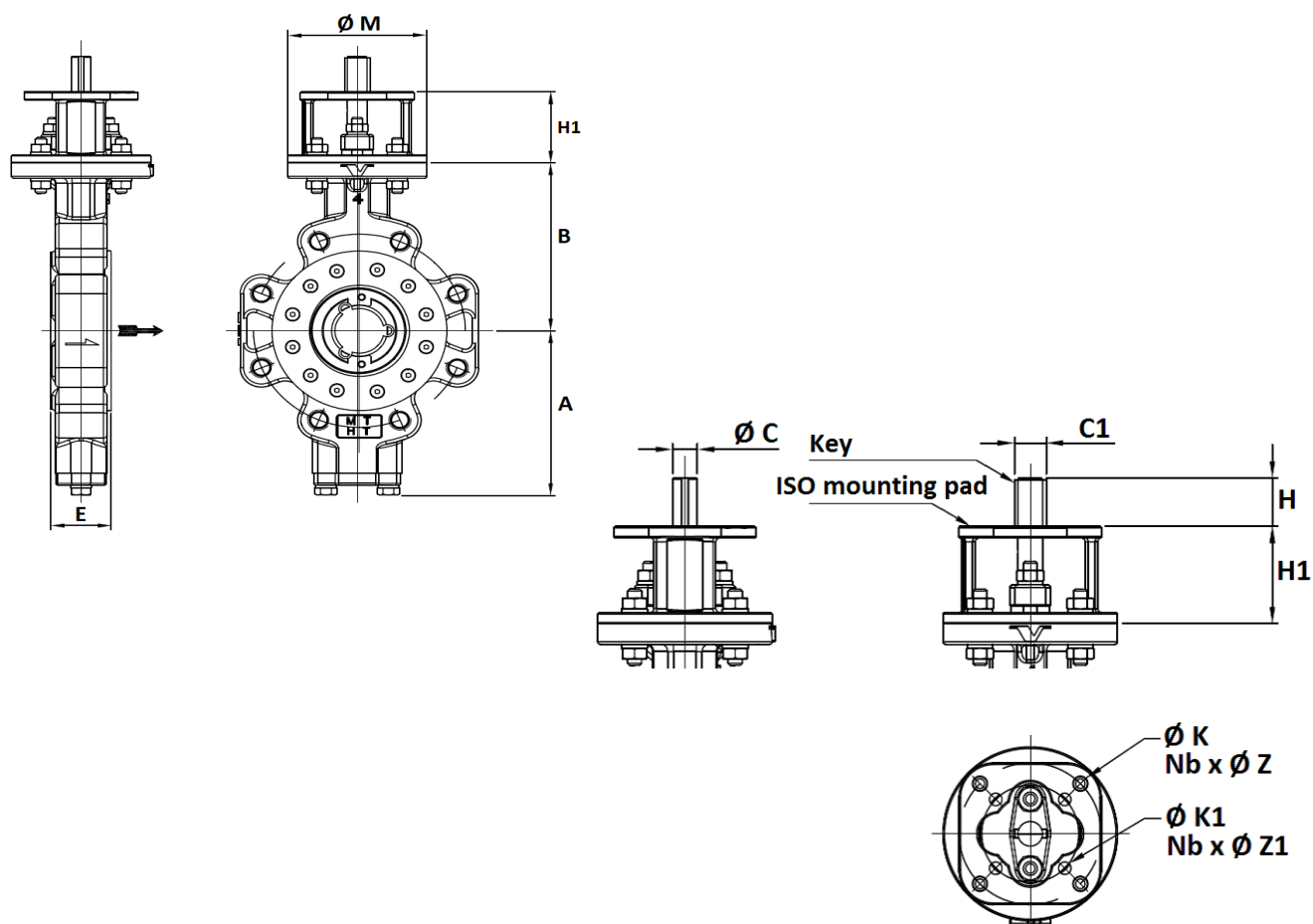
No.	Name	Material	No.	Name	Material
1	Body	ASTM A216 WCB steel	11	Plug gasket	Graphite
2	Butterfly	ASTM A351 CF8M stainless steel	12	Yoke	ASTM A216 WCB steel
2-1	Disc seat	Stellite Grade 6	13	Stud	A193 B8M
3	Stem	A479 XM-19	14	Holding flange screw	A193 B8
3-1	Ring	A479 XM-19	15	Stud	A193 B8
4	Laminated body seat	A479 WM-19 + Graphite	16	Nut	A194/8
5	Holding flange	ASTM A351 CF8 stainless steel	17	Screw	A193 B8
6-1 to 6-4	Ring	AISI 316 SS + RTFE	18	Washer	AISI 316 SS + RTFE
7-1 to 7-3	Gasket	Graphite	19	Screw	A193 B8
8	Gland follower	ASTM A351 CF8 stainless steel	20	Elastic washer	A240 304 SS
9	Packing gland	Graphite	21	Gasket	Graphite
10	Plug	ASTM A216 WCB steel			

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DIMENSIONS (mm)



DN	E	B	H	H1	ØM	Ø K	Ø K1	ØC	C1	Weight (in Kg)
100	54	165	35	70	125	102	70	17.9	22.9	15
150	61	215	45	70	125	102	70	21.85	27.85	22
200	75	260	45	80	150	125	102	29.85	35.85	50
250	83	310	65	100	175	140	125	37.7	43.7	91
300	92	335	65	120	210	165	140	44.7	50.7	131

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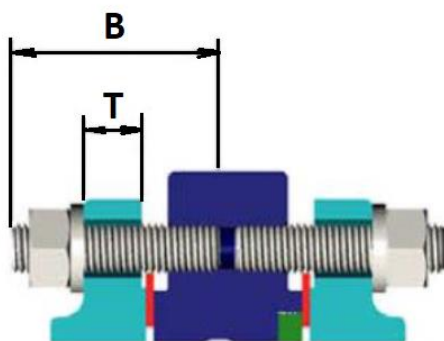
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FLOW-RATE COEFFICIENT Kv (m³/h)

DN	Percent of rated travel									
	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
100	20,7	31,0	45,7	76,7	127,6	143,1	178,4	217,2	268,1	255,2
150	61,2	92,2	138,8	231,0	385,3	431,0	538,8	654,3	808,6	769,8
200	105,2	157,8	237,1	394,8	657,8	736,2	920,7	1117,2	1380,2	1314,7
250	165,5	248,3	372,4	620,7	1035,3	1159,5	1449,1	1759,5	2173,3	2069,8
300	252,6	378,4	567,2	945,7	1576,7	1765,5	2207,8	2680,2	3311,2	3153,4

BOLTING SIZE (in mm, not provided)

DN	100	150	200	250	300
Threading	M20 x 2,5	M24 x 3	M27 x 3	M30 x 3,5	M30 x 3,5
Length B	80	95	110	120	120
T	24	28	34	38	42



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NA ELECTRICAL MOTORIZATION

The NA motorization proposed as standard comprises:

- IP67 epoxy coated aluminium housing for actuator and steel gear box.
- a safety coefficient of 1.3 minimum compared to the nominal torque of the valve.
- an upstream / downstream pressure difference $\Delta P=25$ bar max.

The actuator mount is a steel yoke + driver.

DN	Actuator	Power (W)	Time (s)*	Standard equipment of the actuator
100	NA 28	40 W	24 s	2 adjustable limit switches + 2 dry auxiliaries Condensation-resistance 20 W Position visual indicator Torque limiter (NA28 to NA150) Electrical connection: 2 x M20 x 1.5 glands Manual override by handwheel
150	NA 60	90 W	29 s	
200	NA 60	90 W	29 s	
250	NA 100	180 W	29 s	
300	NA 150	90 W	87 s	

For any other operating conditions, please contact us.

* indicative time for actuator running empty

MOTORIZATION OPTIONS

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

1	2	3	4	5
NA LCU: Local control unit actuator	NA PCU: 4-20mA or 0-10V proportional control unit actuator	NA RBP: fail safe/security electric actuator	NA-X: zone ATEX 1 and 2 actuator	SR: spring return fail safe actuator
				
6	actuator dimensioned for an upstream/downstream pressure difference ΔP greater than 10 bar			
7	NA actuator with handwheel override			

INSTALLATION IN AN ATEX ZONE

For 1118+NA-X automatic valves to be installed in ATEX 1 or 2 zones, this has to be specified when ordering. Our services will check of the assembly, the installation of an earthing braid, and will issue an assembly certificate. Our authorised technicians carry out these operations in the workshop. Please contact us.

The special assembly and maintenance instructions for motorised valves in the ATEX zones must be followed.

The ATEX glands and plug are not included in the supply. Use the following codes:

Aluminium gland M20x1.5 ATEX	Code 980179	Aluminium plug M20x1.5 ATEX	Code 980180
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STORAGE INSTRUCTIONS

Follow our “IMESTOCK” instructions for storage

ASSEMBLY INSTRUCTIONS

1 - Checks

- Check that the material of the valve body is chemically compatible with the fluid.
- Check that the pressure and service conditions are compatible with the (P, T) diagram of the valve. See § “Service limits”.
- Check that the fluid is clean and free of particles. The latter could scratch the butterfly and damage the seats, hence causing the valve to leak. If need be, install an upstream filter.
- Check that the valve is not used for flow or pressure control since it is not intended for this use and there is a risk of premature wear of the seat, in particular in the event of high pressure and/or temperature. For this special application, please contact us.
- Check that the valve is not used on a gas which might condense at certain times during the process. In such a case, the pressure could become negative, which could lead to a significant deformation of the seat. Please contact us.
- Static electricity: the valve will be supplied with a ball-stem-body internal electrical continuity tester. If the service conditions require the electrical continuity of the installation, check its earthing.
- Check the perfect alignment of the upstream and downstream pipe installation. Wafer-type valves such as 1118 are sensitive to this parameter. An alignment fault would lead to a butterfly blockage.
- Also check the pipe installation support. In the event of a fault in the latter, the valve would undergo too high mechanical stress which could damage it.
- You must follow the additional “IMEVMATEX” instructions if the valve is installed in an explosive zone.

2 - Place of installation

The **1118** + NA automatic valves can be installed both indoors and outdoors, while complying with the temperature limits given.

If the valve is equipped with accessories (switch box, pilot solenoid valve), check their service temperatures and their IP code depending upon the place of installation.

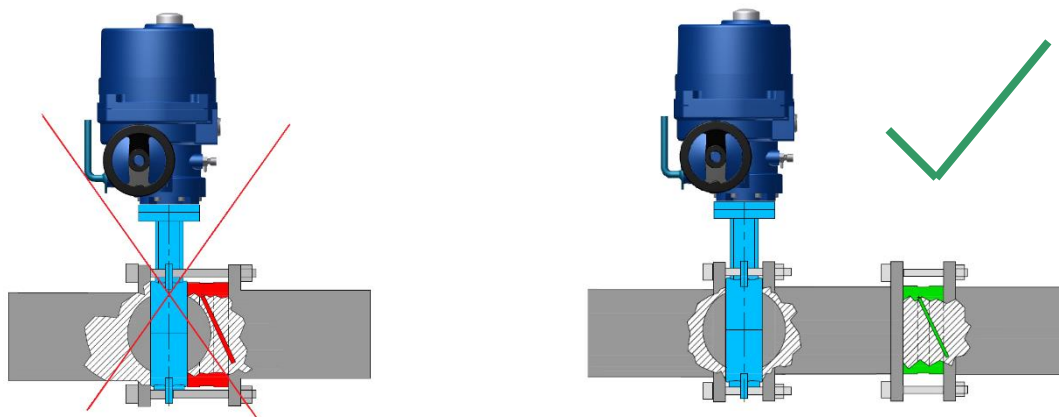
3 - Butterfly blockage

The valve must be installed on a pipe installation section which allows the butterfly to move freely.

At opening, the butterfly protrudes from the body according to the lengths shown in the table below.

DN	100	150	200	250	300	350	400
Protrusion (mm)	22	45	65	85	104	121	141

You must take this into account when mounting and not about another valve element immediately upstream and downstream which could block the movement of the butterfly (e. g. a swing valve).



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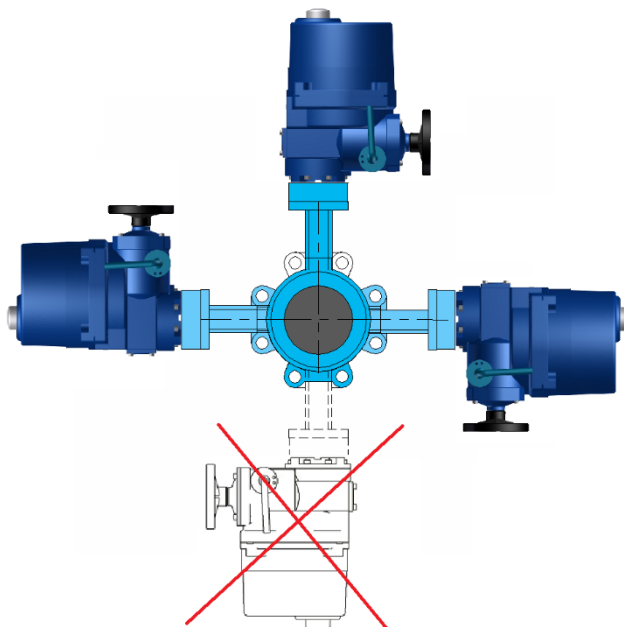
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4 - Valve positions on the pipe installation

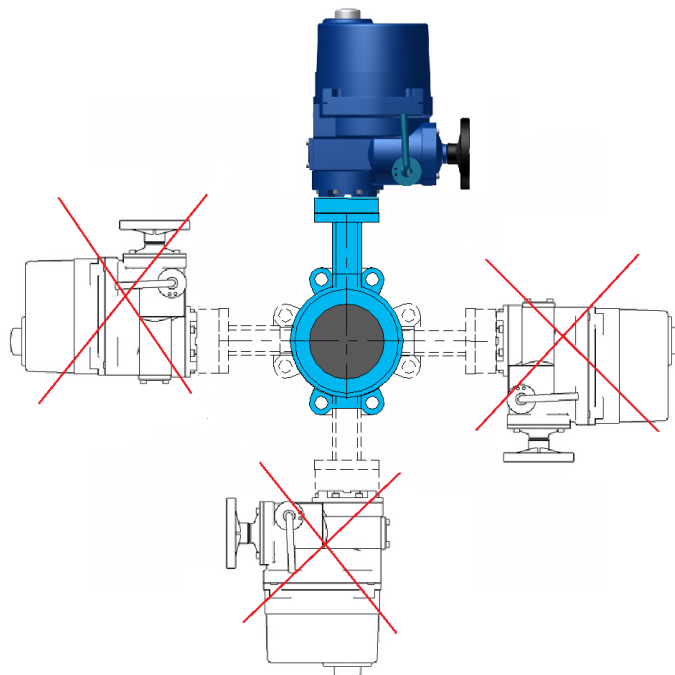
The automatic valve has to be mounted either vertically or horizontally with an actuator, as shown in the diagram below:

DN100 – DN150



DN200 - DN400

Authorised with
suitable support



Authorised with
suitable support

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5 - Mounting at the end of a line

1118 butterfly valves can be installed at the end of a line.

6 - Pipe installation cleaning

The sealing system of the 1118 valve can be easily damaged by the impurities in the flow. Check that the fluid flowing through the valve is clean. Check the strict cleanliness of the upstream and downstream pipe installation. Clean the piping (brazing residues, metal swarf, sealing material, etc.) before installing the valve.

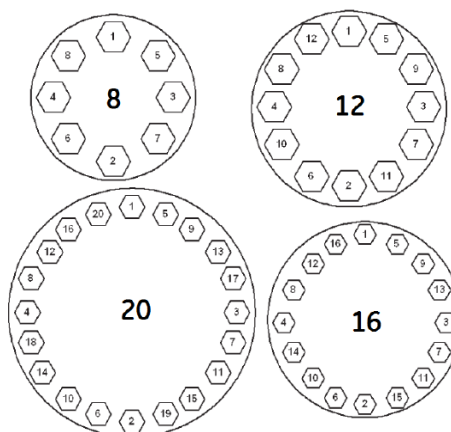
7 - Installation

- Before any installation, cut-off the piping upstream and downstream, depressurize the ductwork installation, and bring the installation to ambient temperature. Carefully clean the pipe installation of any particles (foreign body, dusts, rust, etc.) or shavings by rinsing with water or by blowing air through it.
- Make provision for the use of a hoist.
- Remove the protective covers from the valve flanges.
- Check the cleanliness of the internal surfaces of the valve and clean them if need be.
- Direction of installation: follow the preferred direction of installation.
- Check that the standards for the valve flanges (PN40 as per EN 1092-1) and the pipe installation, are the same.
- Select flange gaskets suitable for the fluid and the flange standard for the valve (PN40).
- Stock up on hex-head nuts and bolts as shown in the table below:

DN	Bolt*	Number	Tightening torque (Nm)
100	M20x80	8	270
150	M24x90	8	450
200	M27x100	12	700
250	M30x110	12	950
300	M30x140	16	950
350	M33x140	16	1300
400	M36x140	16	1700

*Theoretical length for 2 mm thick flange seals.

- Screw-in the screws through the flanges as shown in the diagram below and apply the torques shown in the table below. Follow a symmetrical tightening cross pattern in order to apply a uniform tightening torque on the gasket seats.



- Check the sealing of the connection using a suitable test (hydrostatic test or leak detection spray).
- Hydraulic test of the installation
 - Valves were tested at the factory at 1.5 x WP.
 - If a hydrostatic test is carried out on the installation, do not exceed the authorised pressure.

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8 - Connection to the electrical power supply network

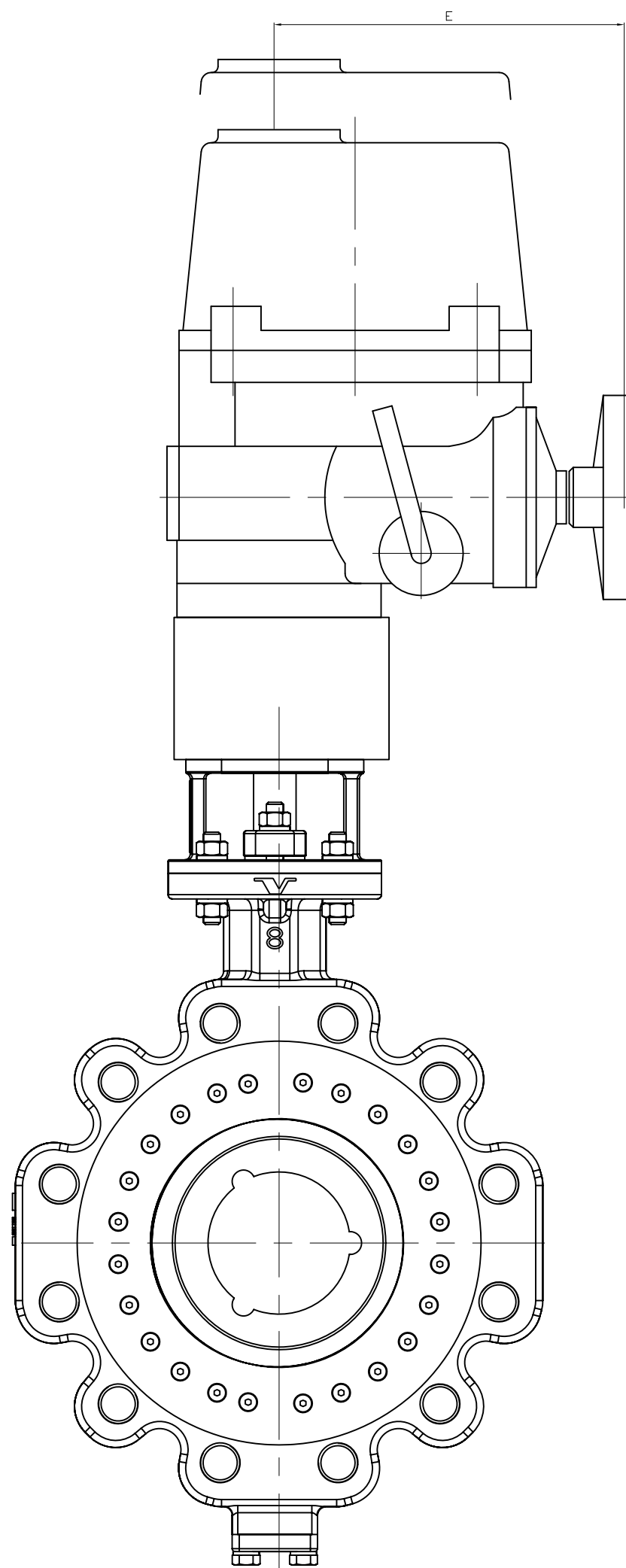
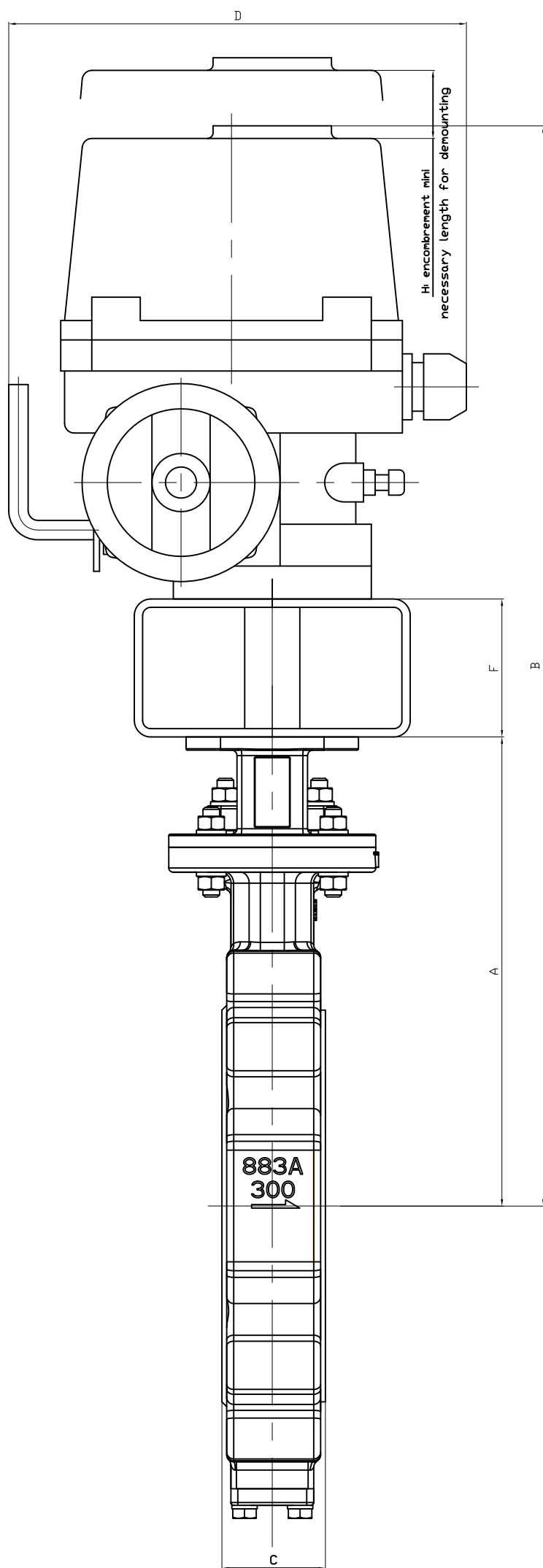
Follow the instructions of the "NA actuator" IME manual

9 - Operating test

After making the electrical connection, perform an opening test for opening and closing.

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DN	100	150	200	250	300
NA-NAX	28	60	60	100	150
A	235	285	340	410	455
B	617	708	763	853	1111
C	54	61	75	83	92
D	300	349	349	349	388
E	202	226	226	226	226
F	80	80	80	100	100
H	130	178	178	178	178
Poids Kg	36.8	51.1	79.1	122.9	201.7

Ech: /	Date :28/03/2017	Dessiné par : E.D.	Tolérances générales : +/- 0.2	Modifications	Date	REV.
ROBINET A PAPILLON A TRIPLE EXCENTRATION 1118/TRIPLE ECCENTRIC BUTTERFLY VALVE 1118 + SERVOMOTEUR NA-NAX/ELECTRICAL ACTUATOR NA-NAX				Matière :		
 45, Rue du Ruisseau 38297 SAINT QUENTIN FALLAVIER				Poids (Kg) :		
				Traitement : SANS		
				Plan n° Ens 1289		

NA / NA-X ELECTRIC ACTUATOR

FEATURES

The NA electric actuator is intended for motorising industrial ¼ turn valves. The torque is 2500 Nm maximum. With a robust construction and IP67 epoxy-coated aluminium housing, the NA actuator is especially well suited for motorising ball valves and butterfly valves installed in workshops or outdoors. It has handle override and torque limiters (part for NA06 and NA09). Many available options. The NA-X version can be used in the 1 and 2 explosive atmospheres. Compliant with the EN 15714-2 standard.

AVAILABLE MODELS

NA06: 60 Nm to NA250: 2500 Nm

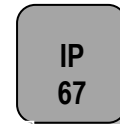
Supply voltages: 230 Vac, 400 Vac, 24 Vac, 24 Vdc



Version NA



Version NA-X



NA-X version

LIMITS OF USE

Version	NA	NA-X
IP Code	IP 67	
Ambient temperature	- 20°C / +70°C	-20°C / +55°C
Service factor	S2-70%	
Explosive atmospheres	forbidden	Zones 1 and 2

MECHANICAL FEATURES

Gear box	treated steel pinions
Angle of rotation angle	90° +/- 5°
Declutching	by lever
Override control	by wheel
Torque limiter	Apart from NA06 and NA09



Actuator	NA06	NA09	NA15	NA28	NA38	NA60	NA100	NA150	NA200	NA250
Torque (Nm)	60	90	150	280	380	600	1000	1500	2000	2500
Manoeuvring time (s)	17	17	20	24	24	29	29	87	87	87
ISO 5211	F07	F07	F07/F10	F10/F12	F10/F12	F12/F14	F12/F14	F14/F16	F14/F16	F14/F16
Drive star	17	17	17	22	27	27	27	36	36	46

DIRECTIVES AND MANUFACTURING STANDARDS

2006/42/EC machine	Connection to valves: ISO 5211
Low voltage 2006/95/EC	2004/108/EC electromagnetic compatibility
ATEX 1994/9/EC: ATEX II 2 G EEx d II B T4 – NEMKO 03ATEX1342X (only NA-X actuator)	

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NA / NA-X ELECTRIC ACTUATOR

MANUFACTURING

1	Position indicator	Polycarbonate
2	Condenser	
3	Wiring terminal box	
4	Limit switches	
5	Body	Aluminium alloy
6	Base	Aluminium alloy
7	Drive bushing	Steel
8	Dome	Polycarbonate
9	Electrical motor	
10	Anti-condensation heater	
11	Wheel	Steel
12	Handle override	Steel
13	Declutching lever	Steel
14	Worm drive	Steel



ELECTRICAL FEATURES

Motor protection	Thermal	Anti-condensation	20 W heater
Limit switches	2 adjustable switches	NA electrical connection	2 x C.G. M20x1.5
Auxiliary switches	2 adjustable dry switches	NA-X electrical connection	2 x C.G. M20x1.5 ATEX (NOT SUPPLIED on option)

Actuator	NA06	NA09	NA15	NA28	NA38	NA60	NA100	NA150	NA200	NA250
Power (W)	15	25	40	40	60	90	180	98	180	180
Voltage	380V – 50Hz									
Holding current (A)	00:13	00:18	0.3	0.3	00:33	00:52	0.73	00:52	0.73	0.73
Inrush current (A)	00:23	00:36	00:59	0.74	0.78	01:24	1.68	0.78	1.68	1.68
Voltage	220V – 50Hz									
Holding current (A)	00:45	00:58	0.95	0.95	1.3	1.5	02:15	1.5	02:15	02:15
Inrush current (A)	0.63	0.89	01:12	01:37	1.85	02:34	3.4	02:34	3.4	3.4
Voltage	24V – 50 Hz									
Holding current (A)	3.2	4.3	6.5	8.1						
Inrush current (A)	6	8	12	14						
Voltage	24V DC									
Holding current (A)	2.2	3.5	4.5	6.5						
Inrush current (A)	4.1	4.1	6.6	13.8						

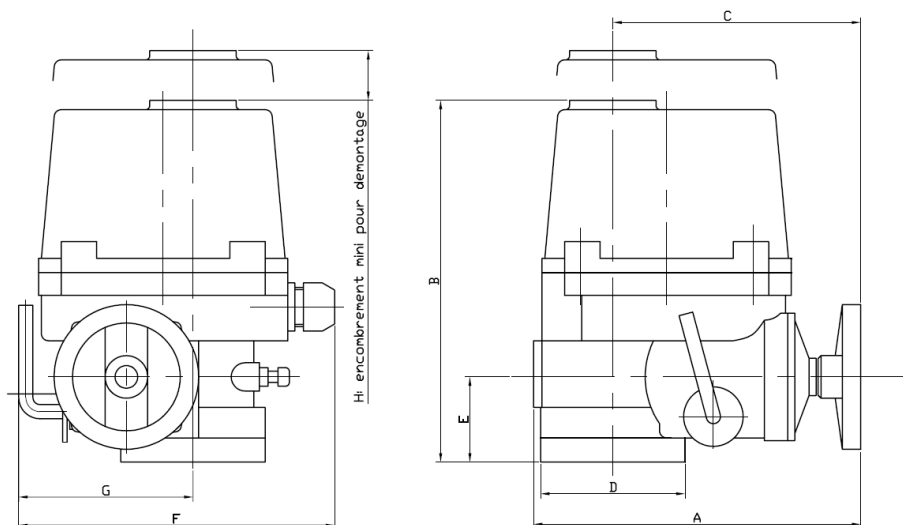
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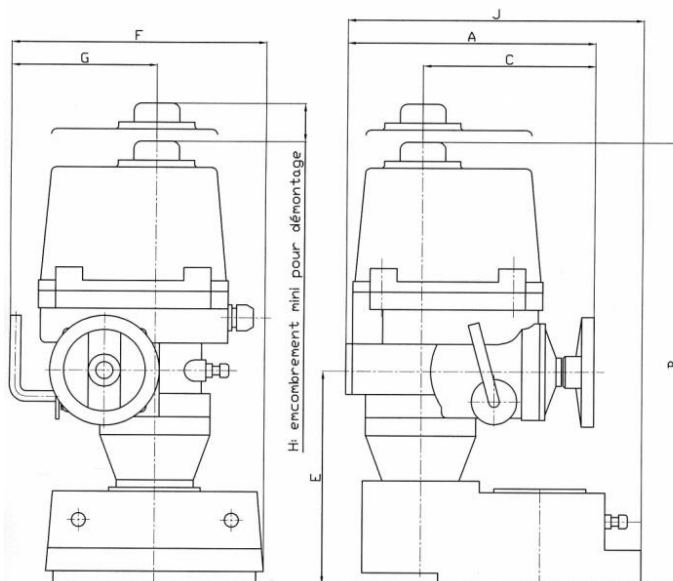
NA / NA-X ELECTRIC ACTUATOR

DIMENSIONS (mm)

NA 06 to NA 100



NA 150 to NA 250



NA	A	B	C	D	E	F	G	H
06-09	231	255	175	102	60	223	113	108
15	261	255	184	120	60	266	139	108
28-38	285	302	202	145	70	300	159	130
60-100	325	343	226	175	78	349	191	178
150-200-250	325	556	226	-	273	388	191	178

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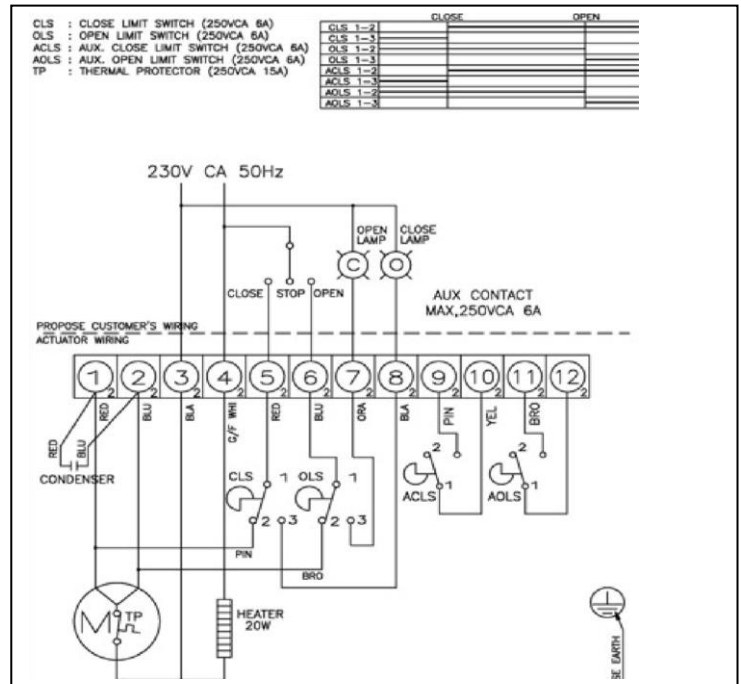
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NA / NA-X ELECTRIC ACTUATOR

WIRING DIAGRAM

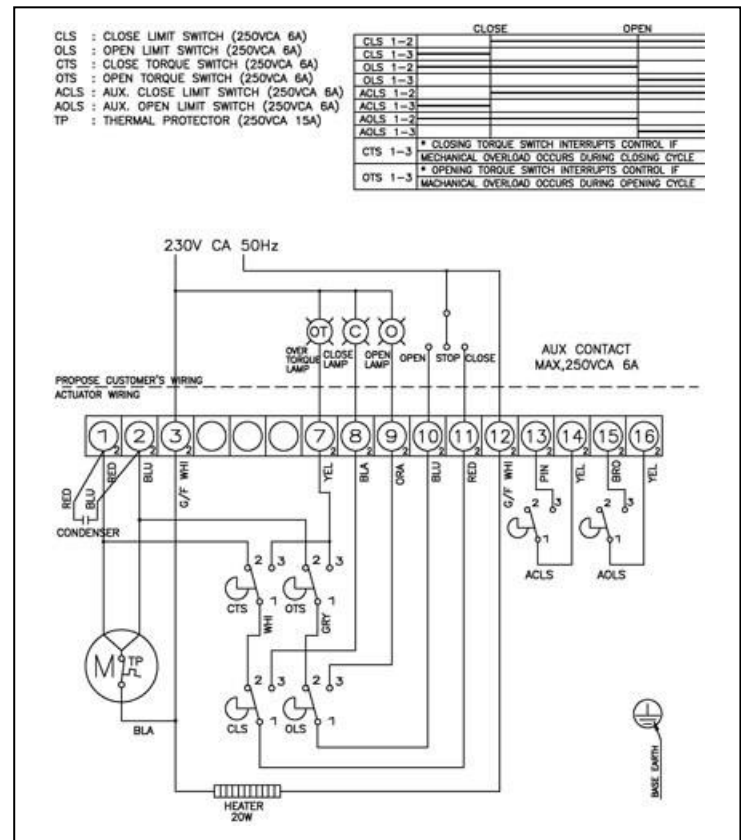
Wiring for 230V 50Hz voltage (NA06-NA09)

1	Do not use
2	Do not use
3	Common
4	phase
5	Closing command
6	Opening command
7	Opening indicator light (suggestion)
8	Closing indicator light (suggestion)
9	Closing auxiliary
10	Closing auxiliary
11	Opening auxiliary
12	Opening auxiliary



Wiring for 230V 50Hz voltage (other models)

1	Do not use
2	Do not use
3	Common
7	Overheating indicator light (suggestion)
8	Closing indicator light (suggestion)
9	Opening indicator light (suggestion)
10	Opening command
11	Closing command
12	phase
13	Closing auxiliary
14	Closing auxiliary
15	Opening auxiliary
16	Opening auxiliary



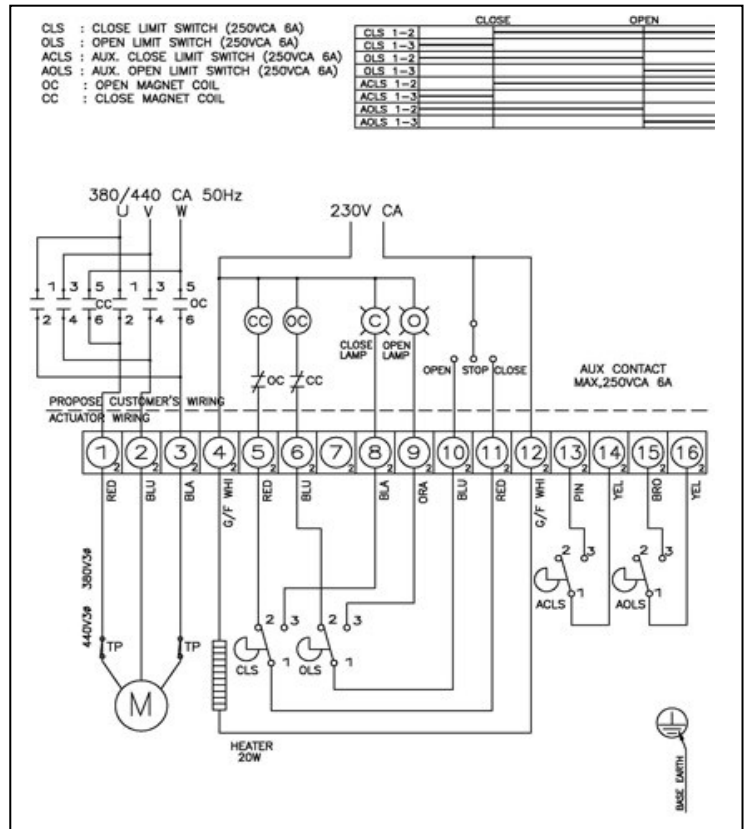
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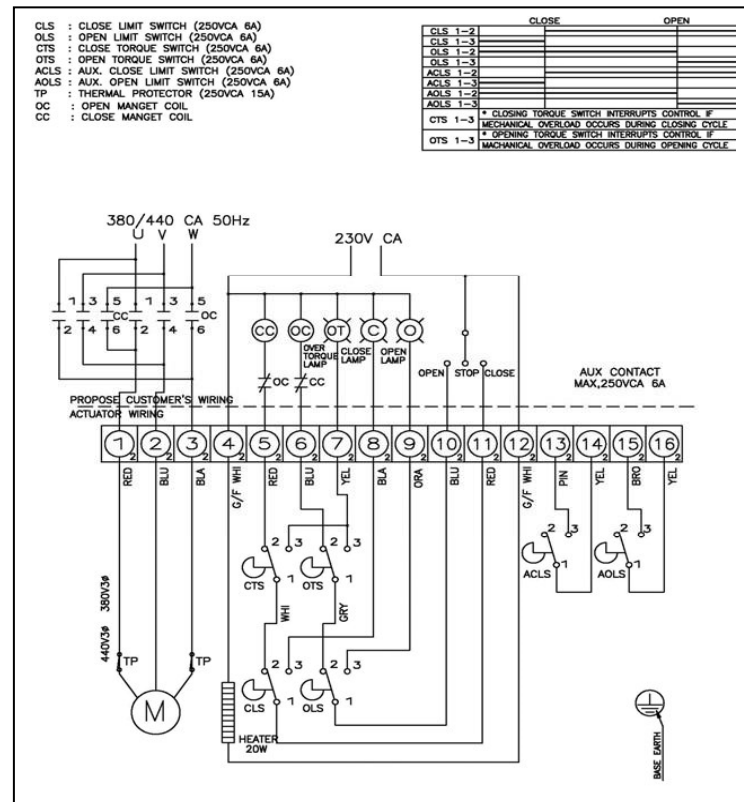
Wiring for 380V 50Hz voltage (NA06-NA09)

1	U phase
2	V phase
3	W phase
4	Heater power supply
5	Connected to the closing 11
6	Connected to the opening 10
7	Not used
8	Closing indicator light (suggestion)
9	Opening indicator light (suggestion)
10	Opening command
11	Closing command
12	Heater power supply
13	Closing auxiliary
14	Closing auxiliary
15	Opening auxiliary
16	Opening auxiliary



Wiring for 380V 50Hz voltage (other models)

1	U phase
2	V phase
3	W phase
4	Heater power supply
5	Connected to the closing 11
6	Connected to the opening 10
7	Overheating indicator light (suggestion)
8	Closing indicator light (suggestion)
9	Opening indicator light (suggestion)
10	Opening command
11	Closing command
12	Heater power supply
13	Closing auxiliary
14	Closing auxiliary
15	Opening auxiliary
16	Opening auxiliary



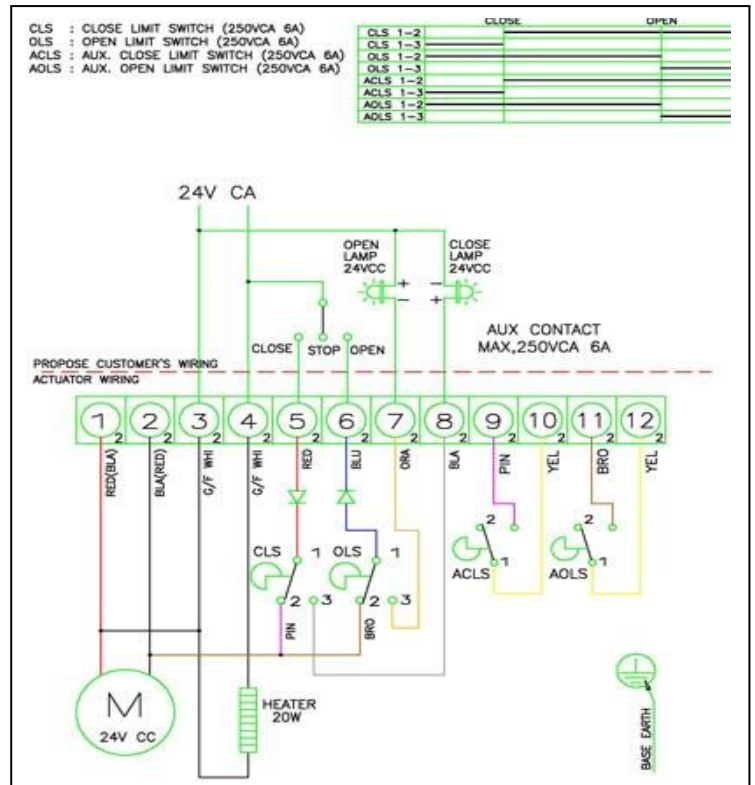
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NA / NA-X ELECTRIC ACTUATOR

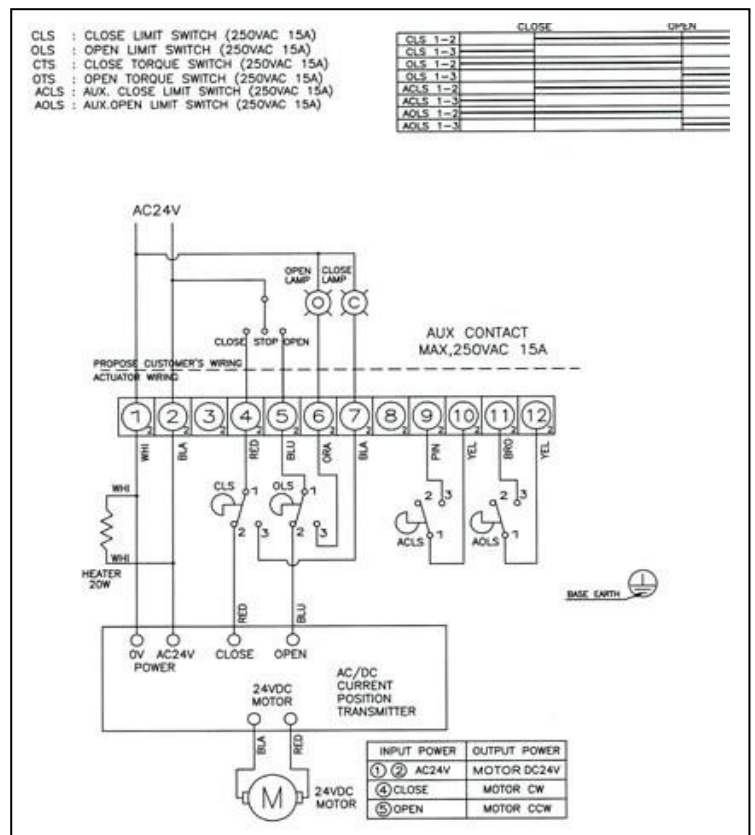
Wiring for 24V 50Hz voltage (NA06-NA09)

1	Do not use
2	Do not use
3	Common
4	phase
5	Closing command
6	Opening command
7	Opening indicator light (suggestion)
8	Closing indicator light (suggestion)
9	Closing auxiliary
10	Closing auxiliary
11	Opening auxiliary
12	Opening auxiliary



Wiring for 24V 50Hz voltage (other models)

1	Common
2	phase
3	Not used
4	Closing command
5	Opening command
6	Opening indicator light (suggestion)
7	Closing indicator light (suggestion)
8	Not used
9	Closing auxiliary
10	Closing auxiliary
11	Opening auxiliary
12	Opening auxiliary



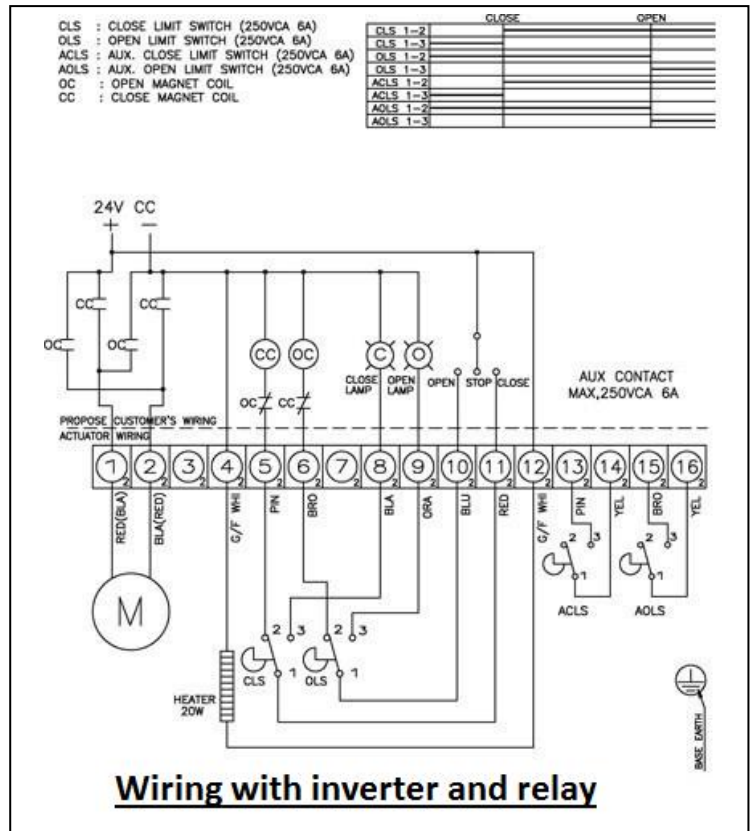
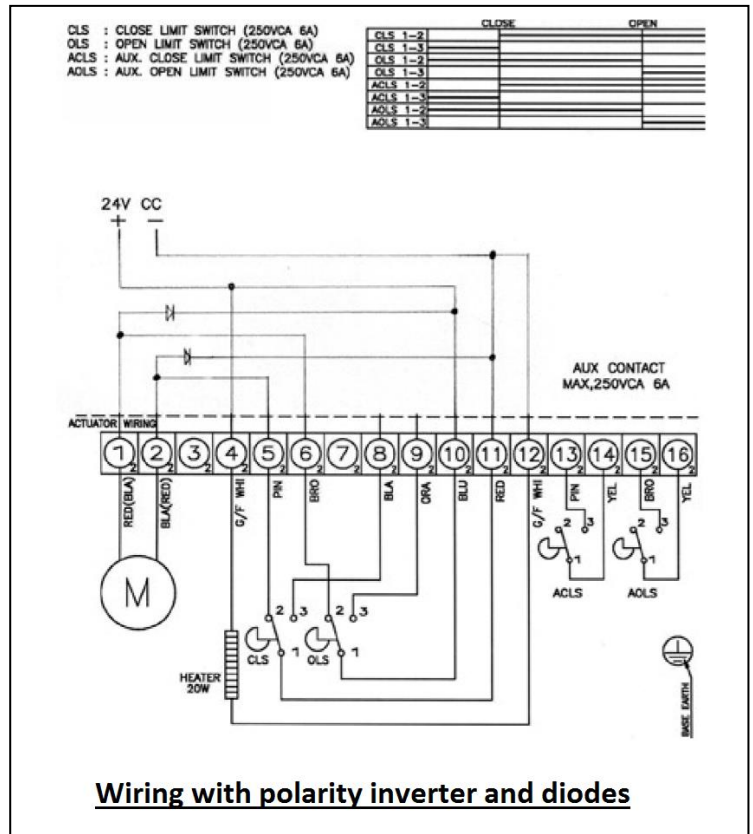
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Proposals for 24Vcc (NA06-NA09) wiring

1	Connected to terminal 10 with diode
2	Connected to terminal 11 with diode
3	Not used
4	Heater power supply
5	Connected to terminal 2
6	Connected to terminal 1
7	Not used
8	Powered closing switch
9	Powered opening switch
10	+ / - Opening command
11	+ / - Closing command
12	Heater power supply
13	Closing auxiliary
14	Closing auxiliary
15	Opening auxiliary
16	Opening auxiliary



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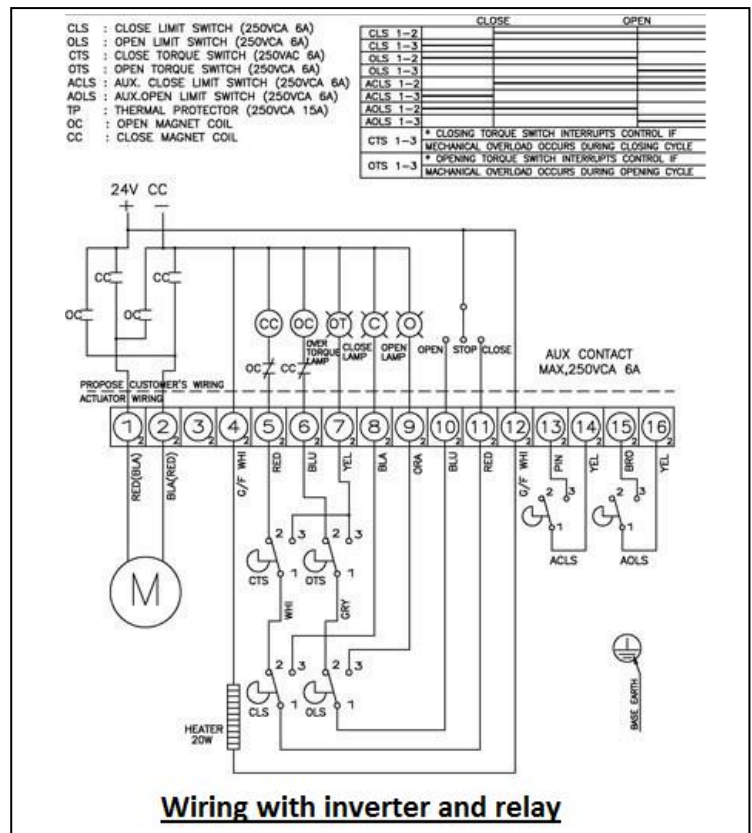
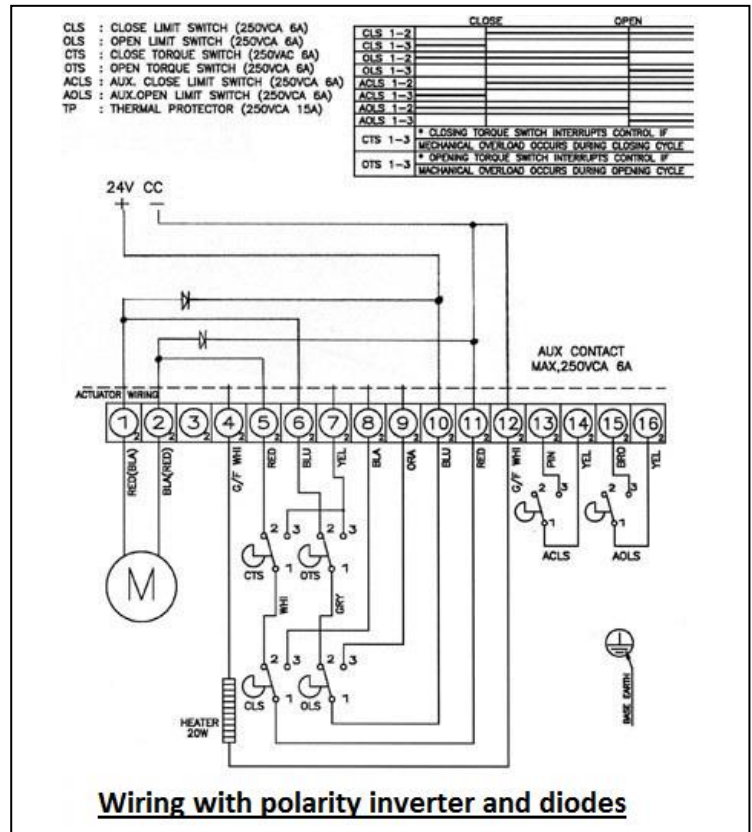
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Proposition for 24V DC wiring (other models)

1	Connected to terminal 10 with diode
2	Connected to terminal 11 with diode
3	Not used
4	Heater power supply
5	Connected to terminal 2
6	Connected to terminal 1
7	Power-supplied over-torque switch
8	Powered closing switch
9	Powered opening switch
10	+ / - Opening command
11	+ / - Closing command
12	Heater power supply
13	Closing auxiliary
14	Closing auxiliary
15	Opening auxiliary
16	Opening auxiliary



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NA / NA-X ELECTRIC ACTUATOR

OPTIONS

1	NA PIU: version with feedback potentiometer
2	NA CPT: version with position transmitter 4-20 mA
3	NA PCU: version with adjustment card 0-10V, 2-10V, 2-20 mA, 4-20 mA
4	NA LCU: version with local control
5	NA RBP: version with in-built fail safe/security
6	Anti-seismic test
7	Low temperature version -40
8	IP 68 version
9	120°, 135°, 180°, 270° rotation angles

OPTION LCU : LOCAL CONTROL UNIT

The LCU option allows the actuator to be operated through two different modes. The first one is the standard remote control. The second is the local control using the switch button plug on the actuator. This option is use full for maintenance and periodic inspection.

AVAILABLE MODELS

NA09 LCU : 90 Nm

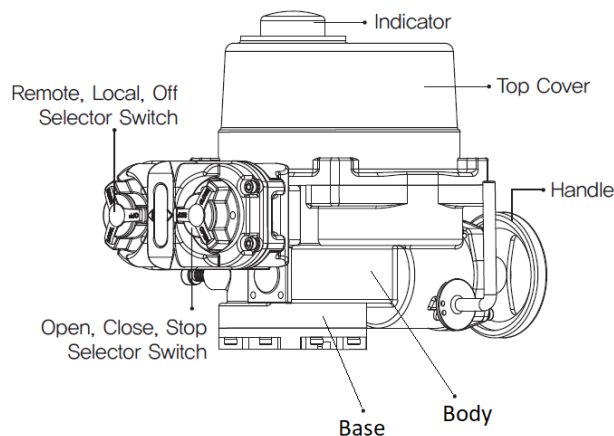
NA15 LCU : 150 Nm

NA28 LCU : 280 Nm

Supply voltages : 230 Vac, 400 Vac

SPECIFICATION

1	IP code : IP67
2	Housing : aluminium
3	Remote, Off, local selector switch
4	Open, stop, close selector switch
5	Remote, local, open, over torque, close LED Lamp
6	Pad lockable

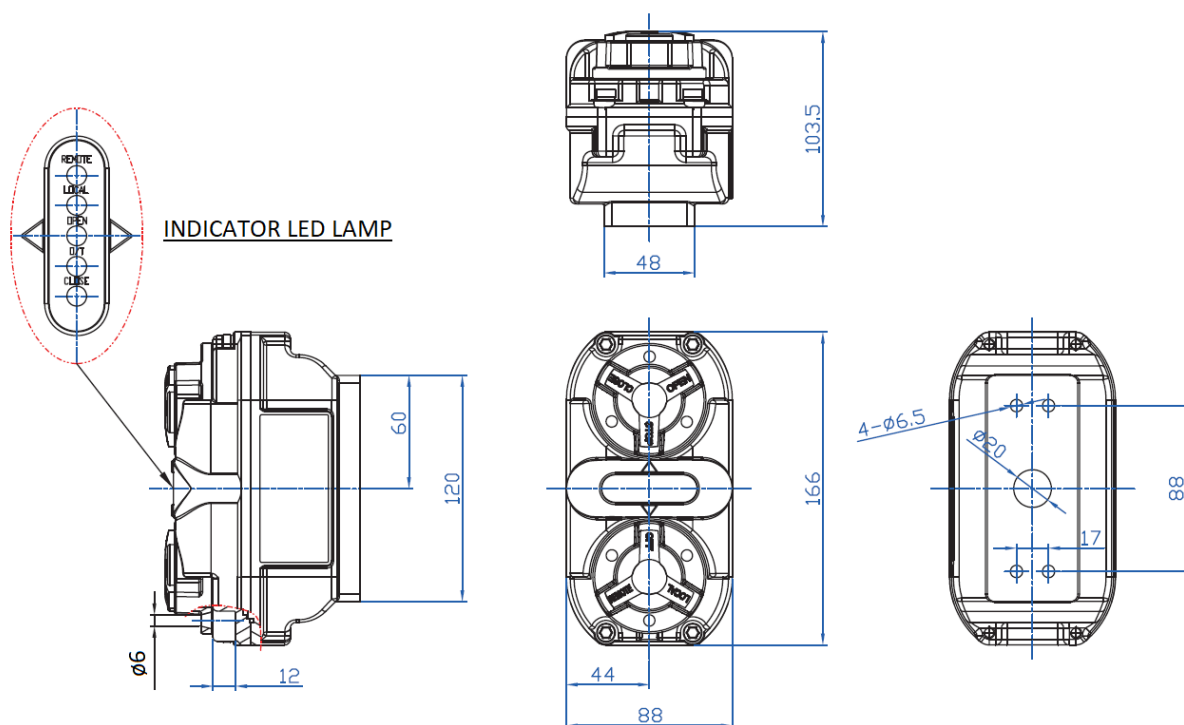


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NA / NA-X ELECTRIC ACTUATOR

DIMENSIONS (mm)

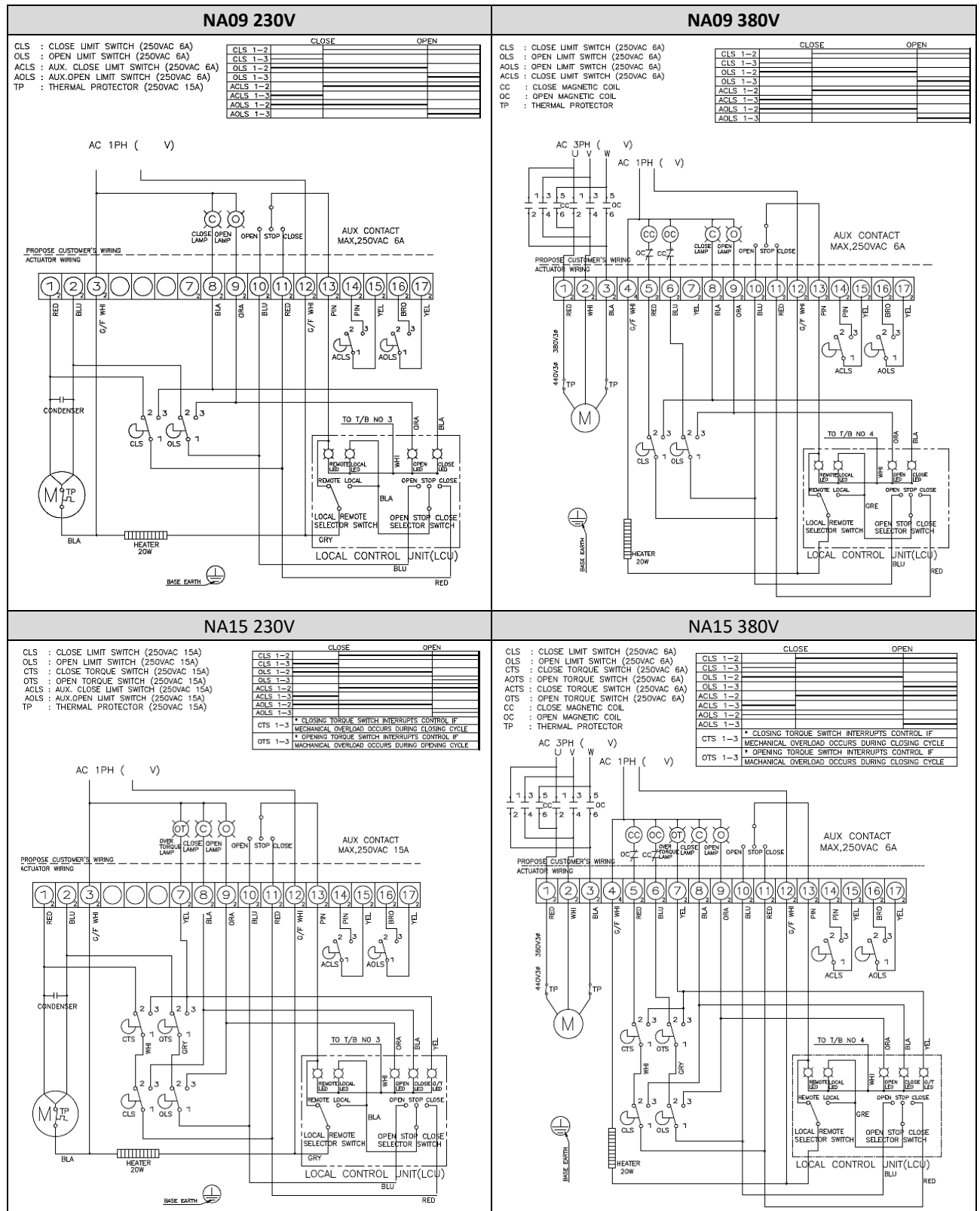


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NA / NA-X ELECTRIC ACTUATOR

ELECTRICAL DIAGRAM NA LCU



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NA / NA-X ELECTRIC ACTUATOR

OPTION RBP : FAIL SAFE TYPE

The RBP option adds a safety function to the NA actuator: in normal operation, the rotations are ensured by the power supply of the grid. In safety mode (power cut-off), the actuator automatically operates (opening or closing the valve) to switch the valve to the safe position. The power is supplied by a battery installed in the side housing.

AVAILABLES MODELS

NA09 RBP : 90 Nm

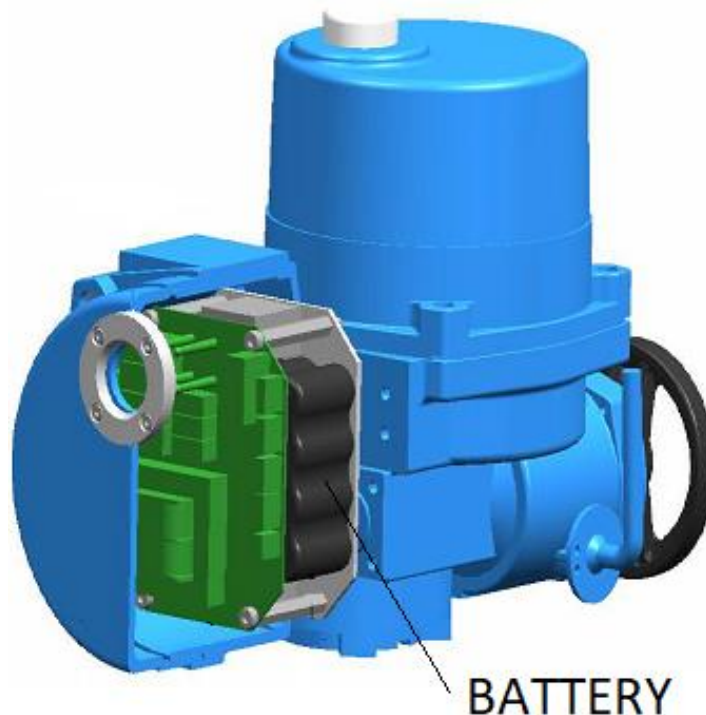
NA15 RBP : 150 Nm

Supply voltage : 230 Vac



SPECIFICATION

1	<u>IP rating</u> : IP67
2	<u>Housing</u> : aluminium
3	<u>Return to position</u> due to lack of power
4	<u>Power supply</u> : 230V - 50 / 60Hz
5	<u>Built-in battery safety unit</u>
6	<u>Battery size</u> : 89 x 111 x 44 <u>Charging volt</u> : DC 32V 1A <u>Charging time</u> : 3 heures <u>Battery type</u> : Ni-Cd 1,2V 20EA <u>Emergency (time)</u> : 15 minutes (Max) <u>Battery weight</u> : 1,1 kg

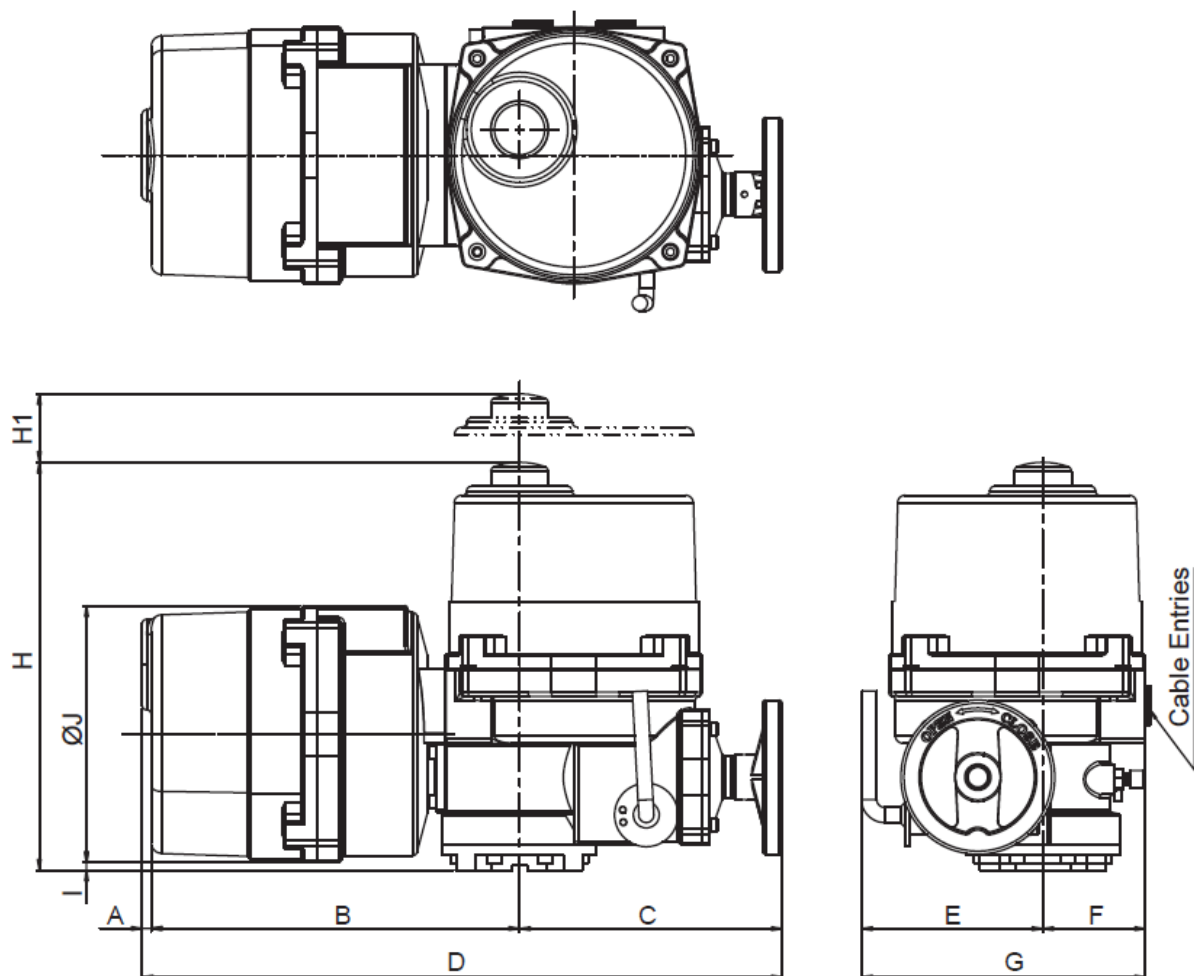


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NA / NA-X ELECTRIC ACTUATOR

DIMENSIONS (mm)



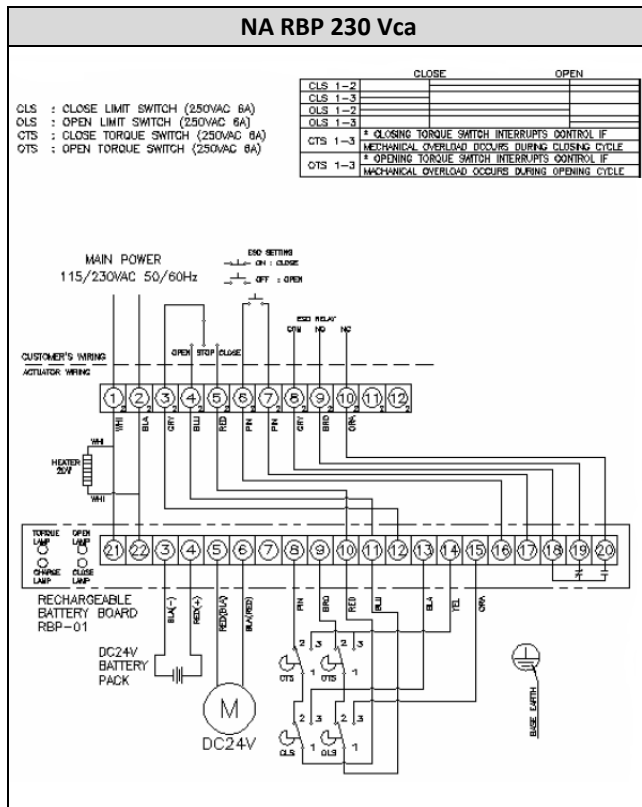
Rep	A	B	C	D	E	F	G	H	H1	ØJ
NA 09	6	244	174	424	120	68	188	270	108	170
NA 15	6	265	184	455	139	85	224	274	108	170

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NA / NA-X ELECTRIC ACTUATOR

SCHEMA ELECTRIQUE NA RBP



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