

1115-1116 BUTTERFLY VALVES WITH ELECTRIC ACTUATOR NA

FEATURES

The 1115-1116 double-offset butterfly valve is a high-performance valve. It is designed for automatic shut-off of high-pressure and/or high- and low-temperature fluid lines such as steam, bitumen, thermal oils, alkali, etc. The valve has one direction of assembly, but the seal is bi-directional. The one-piece butterfly shaft is mounted on bearings and has an antistatic device. The valve's fire-safe construction means it can be used in the hydrocarbon industry. The ISO 5211 plate allows direct mounting of the NA actuator. It is perfectly suited to industrial use, both indoors and outdoors.

AVAILABLE MODELS

1115 : carbon steel body.

1116 : body in stainless steel.

Diameters 2" to 12", FAF to ISO 5752 series 20.

Flange mounting ANSI 150 RF to ANSI B16.5.

Supply voltages : 24 Vac-dc, 230 Vac, tri 400 V.



NA



NA-X

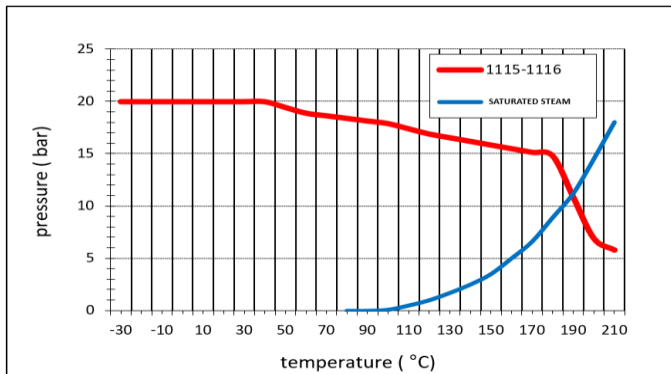


With NA-X



LIMITS OF USE

Fluid pressure : PS	20 bar
Fluid temperature : TS	Steel : -29°C / +210°C Stainless steel : -50°C / +210°C
Ambiant temperature	-20°C / +70°C
Service factor	S2 - 70%



DIRECTIVES AND MANUFACTURING STANDARDS

OBJET	Standard	OBJET	Standard
Pressure Equipment Directive 2014/68/EC	Cat.III Module H - CE 0035	Final test	ISO 5208 and MSS SP-25
		Flange dimension	EN 1092-1 - ANSI B16-5
ATEX Directive 2014/34	II 2G/D zones 1,2,21,22	Face-to-face dimension	ISO 5752 series 20
Construction	API 609	Actuator pilot connection	NAMUR
Body materials	EN 1503-2	Switch box connection	VDI/VDE 3845
Material certificate	EN 10204	Connection Motorisation	ISO 5211
Fire safe	API 607/5 - ISO 10497-5 - BS6755-2	SIL 3 level (actuator alone)	EN 61508

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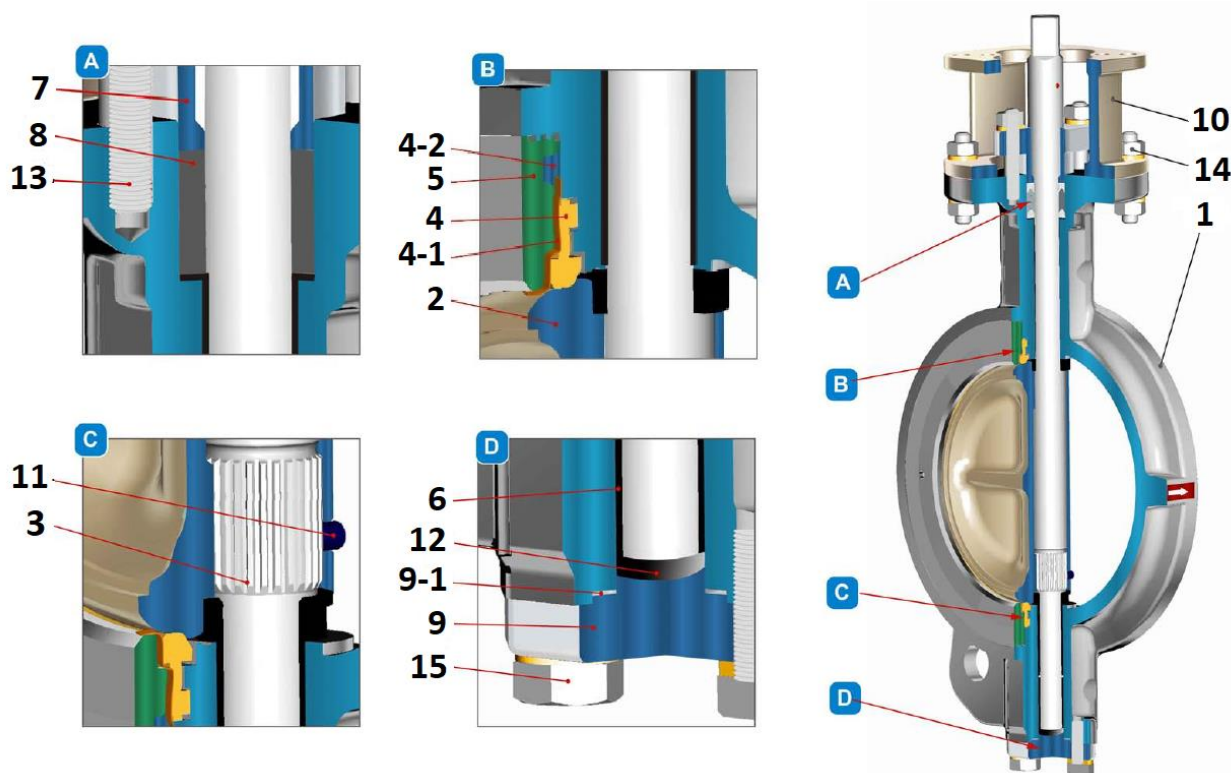


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CONSTRUCTION



* Included in gaskets kit

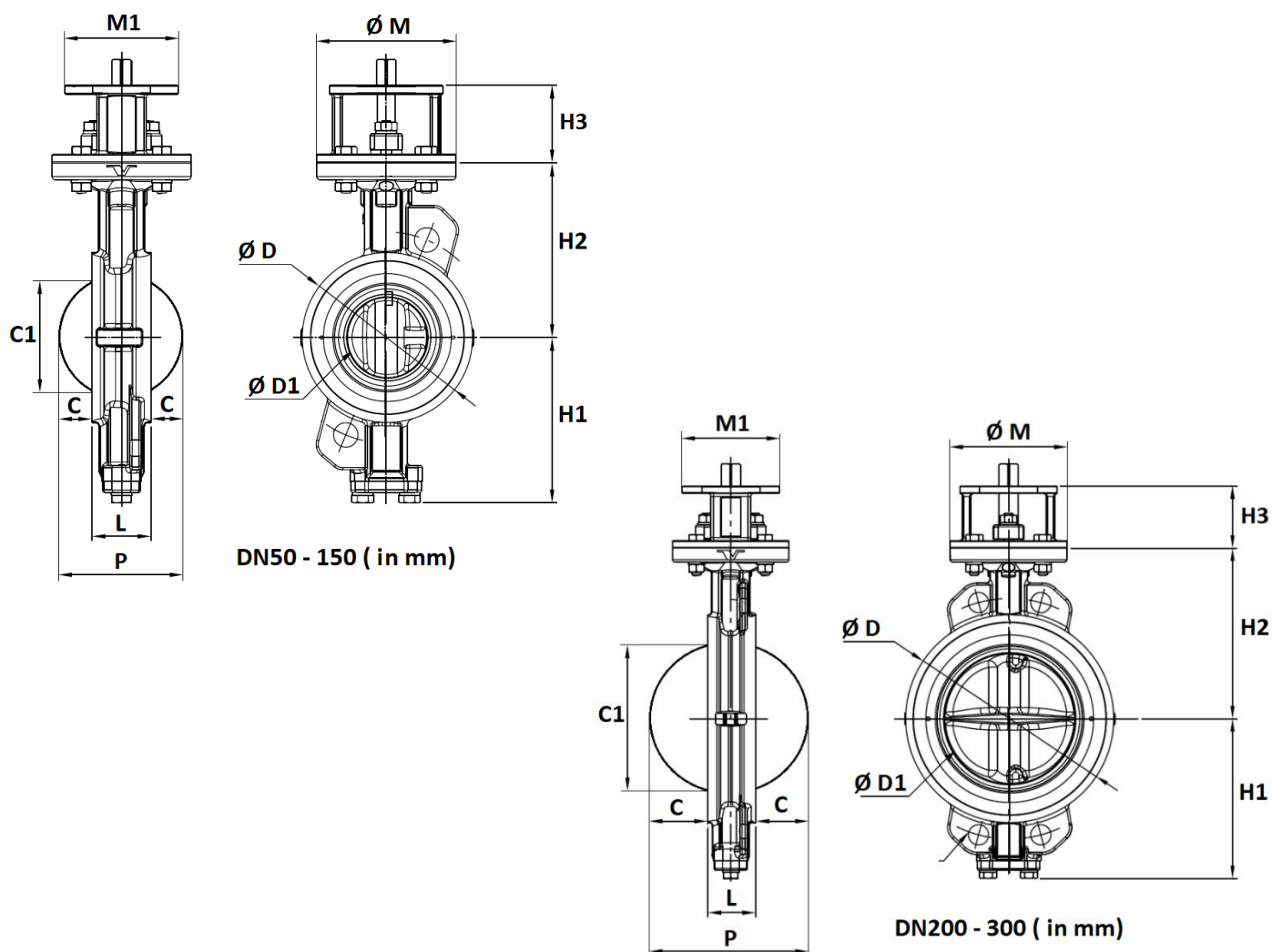
No.	Name	1115 materials	1116 materials
1	Body	ASTM A216 WCB	ASTM A351 CF8M
2	Butterfly	ASTM A351 CF8M	
3	Shaft	ASTM A564 630	
4*	Seat	PTFE filled with 15% graphite	
4-1	Metal seat	Inconel 718	
4-2*	Gasket	Graphite	
5	Retainer	ASTM A351 CF8	
6*	Bushing	PTFE + AISI 316	
7	Gland	ASTM A351 CF8	
8*	Gland packing	Graphite	
9	Bottom cover	ASTM A351 CF8	ASTM A351 CF8M
9-1*	Bottom cover gasket	Graphite	
10	Yoke	ASTM A351 CF8	ASTM A351 CF8M
11*	Stop stud	ASTM A193 Gr. B8M	
12*	Lock plate	PTFE filled with 15% graphite + AISI 316	
13	Stud	ASTM A193 Gr. B8	
14	Nut	ASTM A194 Gr. 8	
15	Bolt	ASTM A193 Gr. B	

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DIMENSIONS (mm)



DN	L	H1	H2	H3	Ø D	Ø D1	C	C1	Ø M	M1	P	Min pipe diameter	Weight (Kg)
50	43	99	118	60	92	37	2	49,5	90	70	47	49	3,9
65	46	110	125	60	108	63	15	62,3	90	70	76	62	4,5
80	47	128	140	70	126	78	22	65,9	125	102	91	78	7
100	53	150	157	70	153	95	25	93	125	102	103	93	9
125	57	163	170	70	184	118	36	120	125	102	129	120	12
150	56	176	185	70	212	143	50	149	125	102	156	149	13,5
200	62	206	220	80	268	187,6	70	196	150	125	202	196	22
250	68	238	260	80	326	235,5	90	243	150	125	248	243	32
300	78	269	290	100	375	282	106	289	175	160	290	289	48

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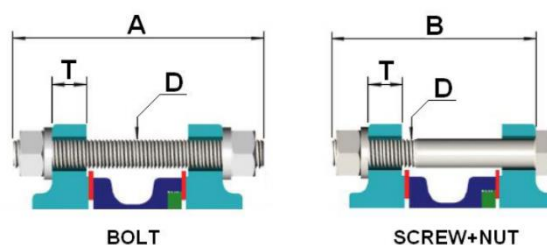
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FLOW-RATE COEFFICIENT Kv (m³/h)

DN	Opening angle									
	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
50	0,9	1,7	4,3	8,6	12,9	19,8	30,2	45,7	55,2	56,9
65	4,3	7,8	19,0	27,6	44,0	60,3	79,3	96,6	117,2	120,7
80	7,8	13,8	35,3	50,9	79,3	110,3	146,6	182,8	220,7	224,1
100	12,1	22,4	56,0	83,6	131,0	181,0	237,9	292,2	353,4	362,1
125	21,6	38,8	97,4	139,7	218,1	301,7	408,6	501,7	600,9	620,7
150	21,6	66,4	131,0	194,8	359,5	627,6	758,6	1013,8	1155,2	1185,3
200	36,2	118,1	233,6	346,6	470,7	659,5	848,3	1123,3	1250,0	1508,6
250	107,8	262,9	424,1	502,6	795,7	1086,2	1422,4	1775,9	2103,4	2299,1
300	146,6	357,8	576,7	831,9	1120,7	1512,9	2637,1	2977,6	3318,1	3763,8

BOLTING SIZE (in mm, not included with valves)



DN	50	65	80	100	125	150	200	250	300
A	135	135	140	155	175	175	185	200	215
B	125	125	130	140	155	155	165	180	195
D	M16	M16	M16	M16	M20	M20	M20	M24	M24
T	22	22	24	24	26	28	30	32	34

BOLTENING TORQUES

Bolding size	Max torque (Nm)
M16	150
M20	270
M22	434
M24	450
M26	650
M27	700

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NA ELECTRIC ACTUATOR MOTORIZATION

The NA motorization proposed as standard comprises :

- IP67 epoxy-coated aluminium housing and steel gearbox.
- safety coefficient of at least 1.3 in relation to the nominal torque of the valve.
- upstream/downstream pressure difference $\Delta P=10$ bar maximum.

The actuator is mounted on a steel yoke + driver.

DN	Electric actuator	Power (W)	Time (s)*	Standard electric actuator equipment
2"	NA 06	15 W	17 s	2 adjustable limit switches + 2 floating auxiliaries 20 W anti-condensation heater Visual position indicator Thermal motor protection (NA 06 and NA09) Torque limiter (NA15 to NA38) Electrical connection : 2 cable glands M20 x 1.5 Emergency manual control via a disengageable steering wheel
2" 1/2	NA 06	15 W	17 s	
3"	NA 06	25 W	17 s	
4"	NA 09	25 W	17 s	
5"	NA 15	40 W	20 s	
6"	NA 28	40 W	24 s	
8"	NA 28	40 W	24 s	
10"	NA 38	60 W	24 s	
12"	NA 38	60 W	24 s	

For all other service conditions, please contact us.

* indicative no-load actuator time

MOTORIZATION OPTIONS

Here are a number of options for which we ask you to consult our sales department :

1	2	3	4	5
NA LCU : Actuator with local control	NA PCU : 4-20mA or 0-10V control actuator	NA RBP : safety actuator with battery safety block	NA-X : servomotor for use in ATEX zones 1 and 2	SR : spring return safety actuator
				
6	actuator dimensioned for upstream/downstream pressure difference ΔP greater than 10 bar			
OPTIONS ON THE VALVE				
1	Drilling of centring lugs for PN16 or PN25 flanges in accordance with EN 1092-1			
2	Threaded lug connections			

INSTALLATION IN ATEX AREA

If the 1115-1116+NA-X automatic valve is to be installed in ATEX zones 1 or 2, this must be specified when the order is placed. Our services will check the assembly, fit an earth braid and produce an assembly certificate. These operations are carried out in the workshop by our approved technicians. Please contact us.

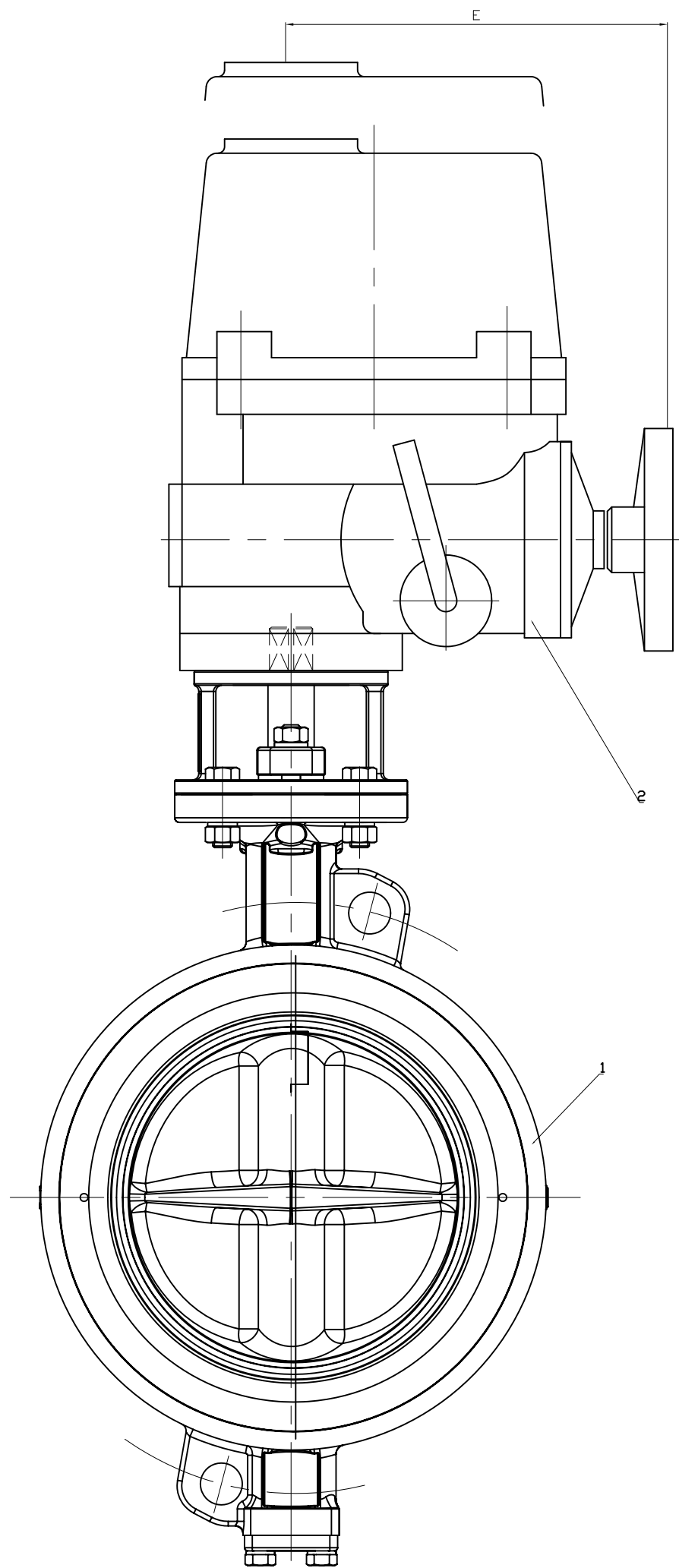
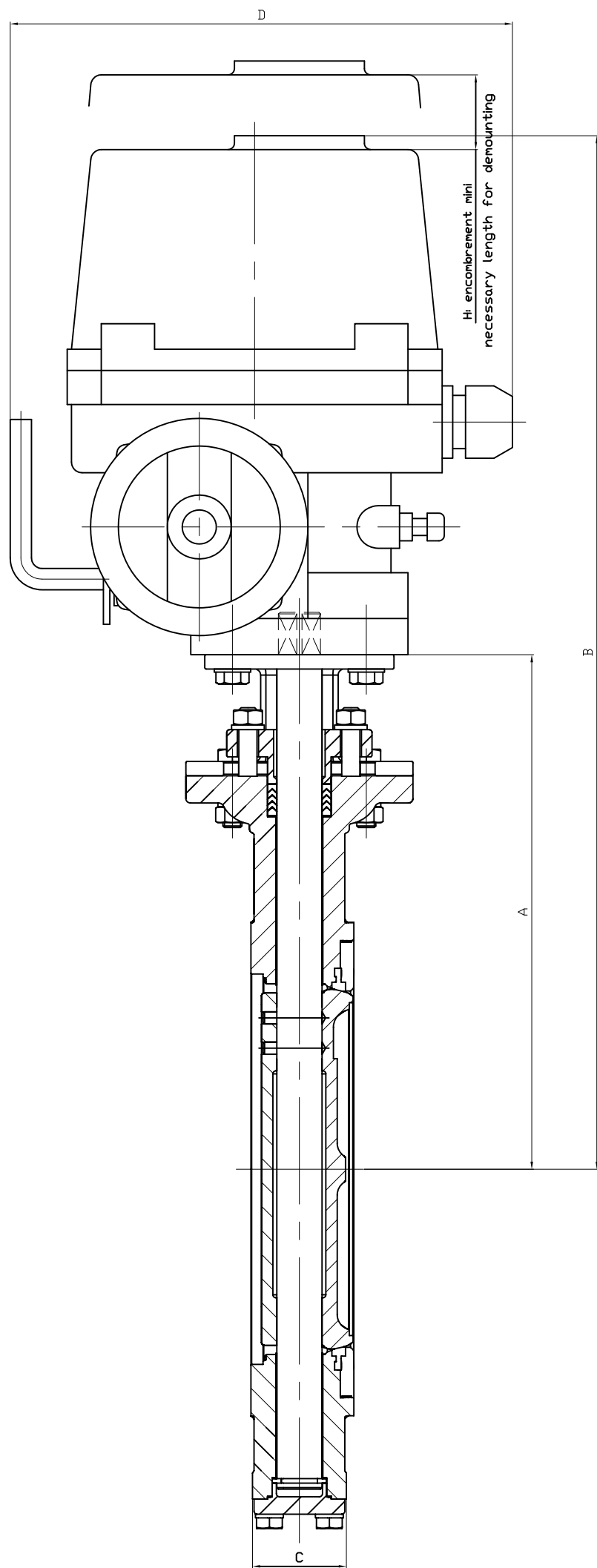
It is also necessary to follow the special instructions for installation and maintenance of motorized valves in ATEX areas.

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

M20x1.5 ATEX aluminium cable gland	Code 980179	M20x1.5 ATEX aluminium plug	Code 980180
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DN	50	65	80	100	125	150	200	250	300
NA-NAX	06	06	06	09	15	28	28	38	38
A	178	185	210	227	240	255	300	340	390
B	433	440	465	482	542	557	682*	642	692
C	43	46	47	53	57	56	62	68	78
D	223	223	223	223	266	300	300	300	300
E	175	175	175	175	184	202	202	202	202
H	108	108	108	108	108	130	130	130	130
Poids Kg	14,9	15,5	18	20	24	30,5	40,5	50	66
1	Robinet à papillon à double excentration								
2	Servomoteur électrique NA-NAX								

* DN200 Montage avec platine supplémentaire H=80mm

Ajout 1115-1116 dans titre	27/03/2013	B
Ajout DN50 - Révision des motorisations	26/09/2011	A
Modifications	Date	REV.
Matière :		
Poids (Kg) :		
Traitement : SANS		
Plan n° Ens 1058B		

Ech: /	Date :24/11/2009	Dessiné par : E.D.	Tolérances générales : +/- 0,2
Robinet à papillon à double excentration 1113-1114 1115-1116 + Servomoteur électrique NA-NAX Double eccentric butterfly valve 1113-1114 1115-1116 + NA-NAX electrical actuator			
		45, Rue du Ruisseau 38297 SAINT QUENTIN FALLAVIER	

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

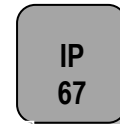
Supply voltages: 230 Vac, 400 Vac, 24 Vac, 24 Vdc



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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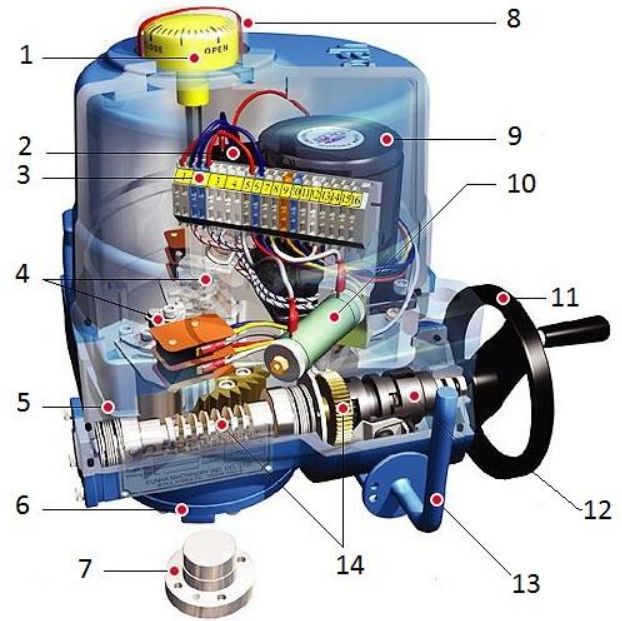
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NA / NA-X ELECTRIC ACTUATOR

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						

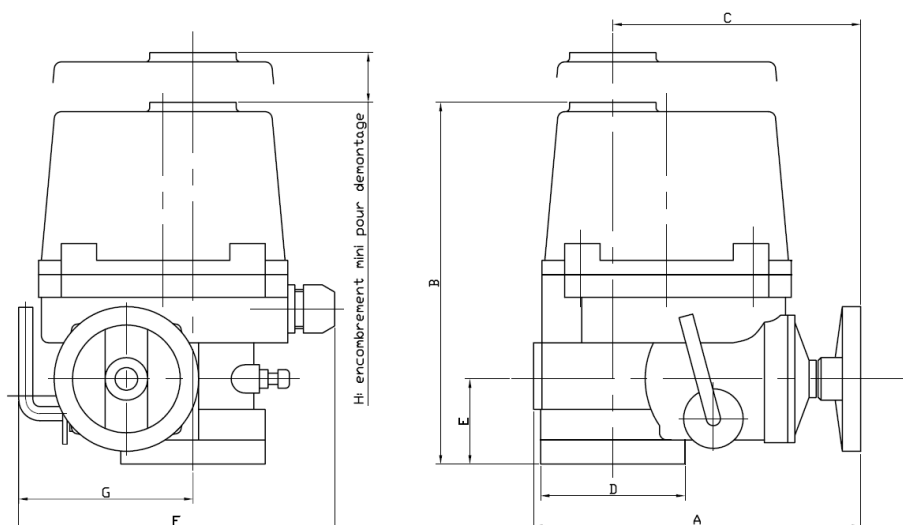
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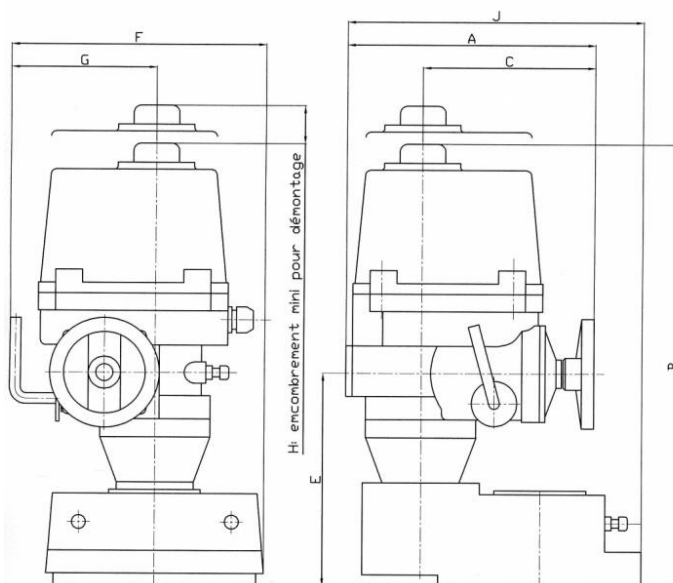
NA / NA-X ELECTRIC ACTUATOR

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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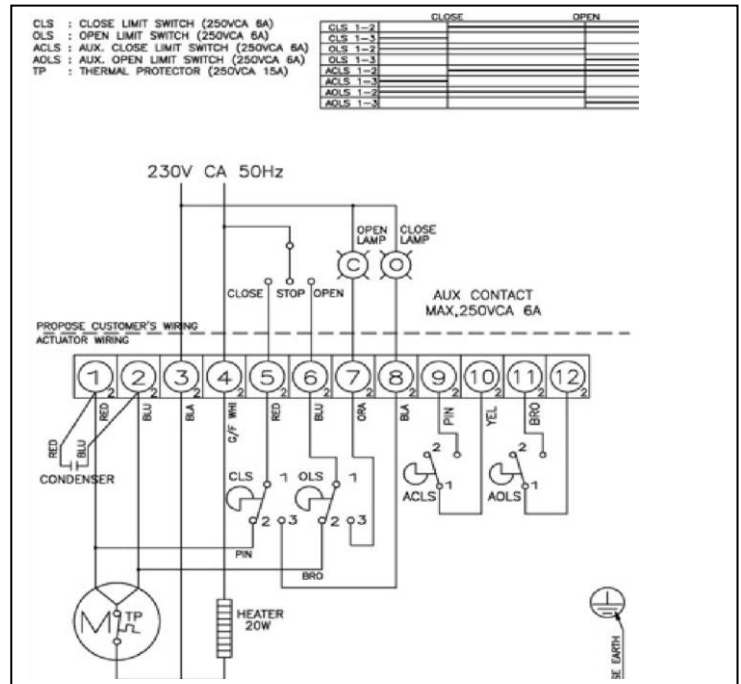
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NA / NA-X ELECTRIC ACTUATOR

WIRING DIAGRAM

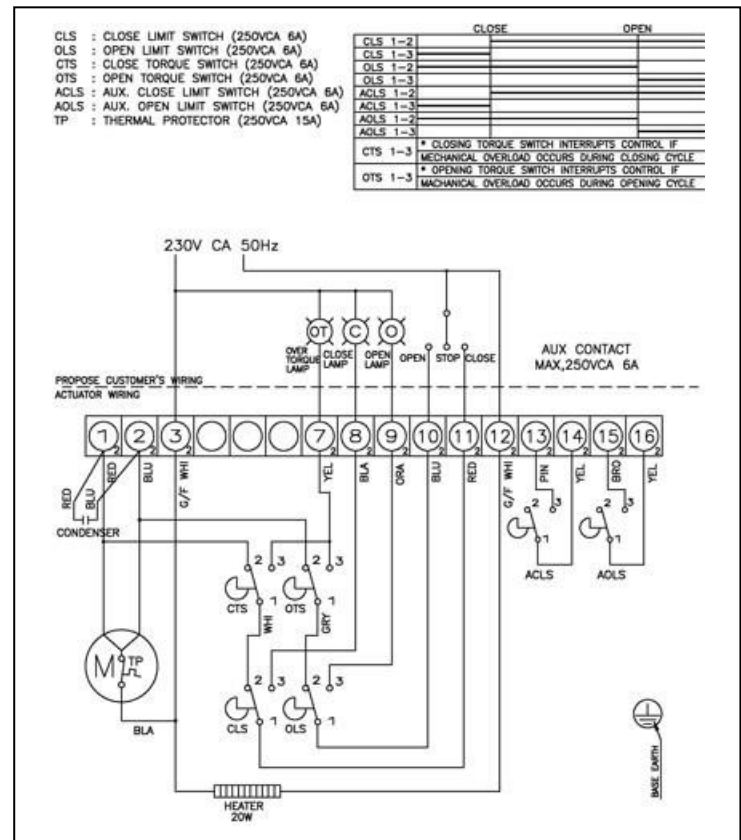
Wiring for 230V 50Hz voltage (NA06-NA09)

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



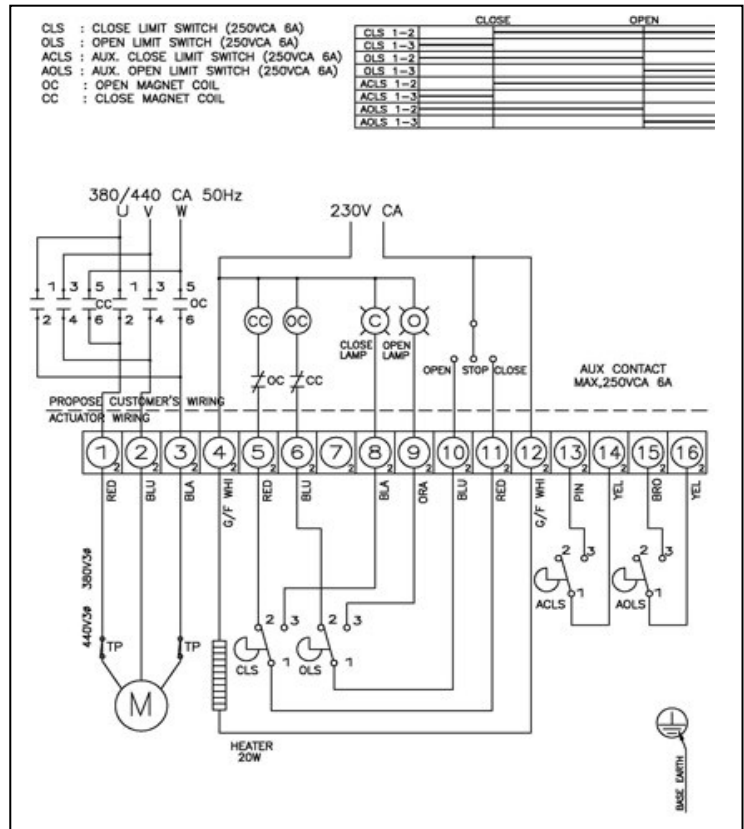
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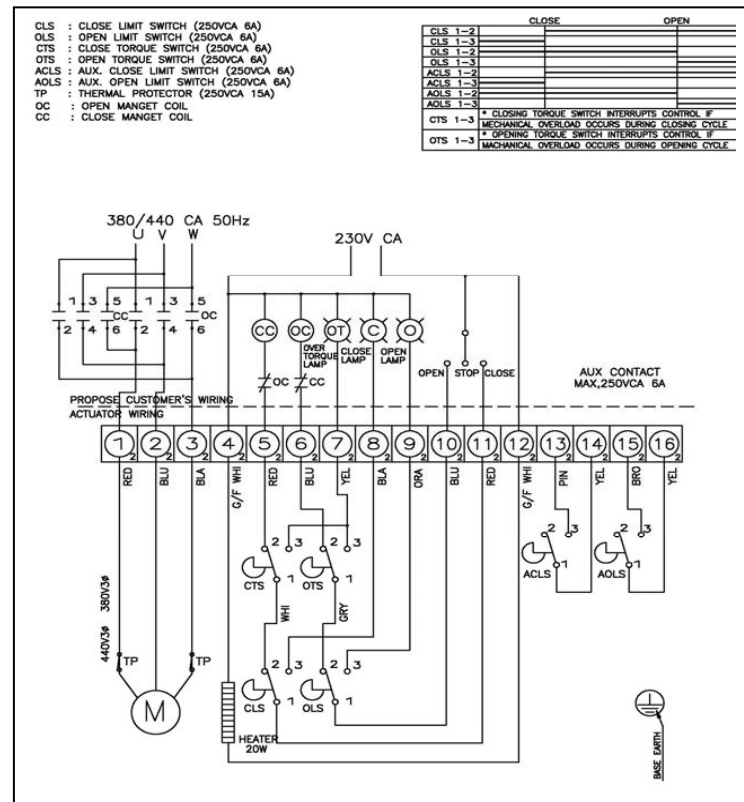
Wiring for 380V 50Hz voltage (NA06-NA09)

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



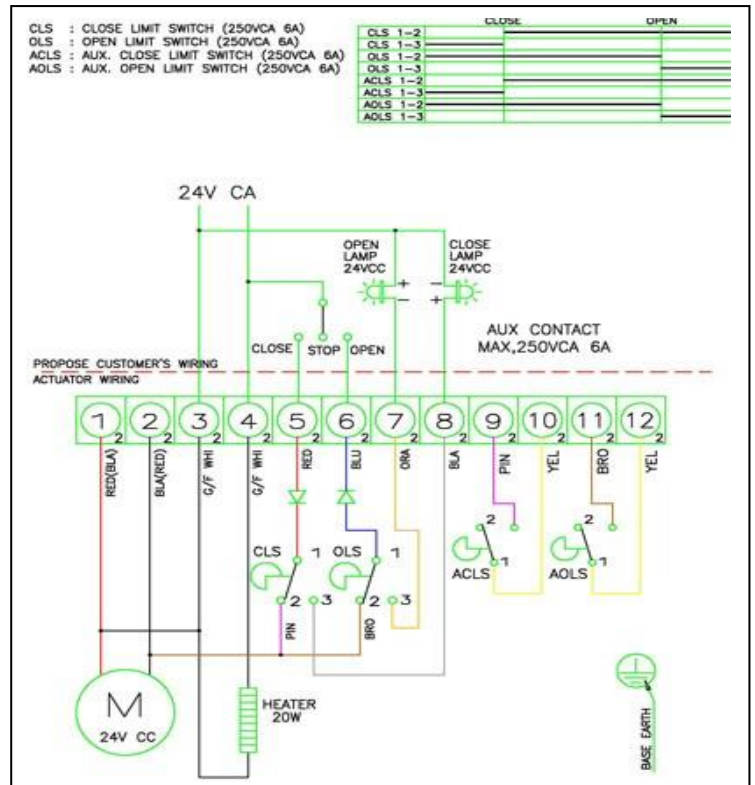
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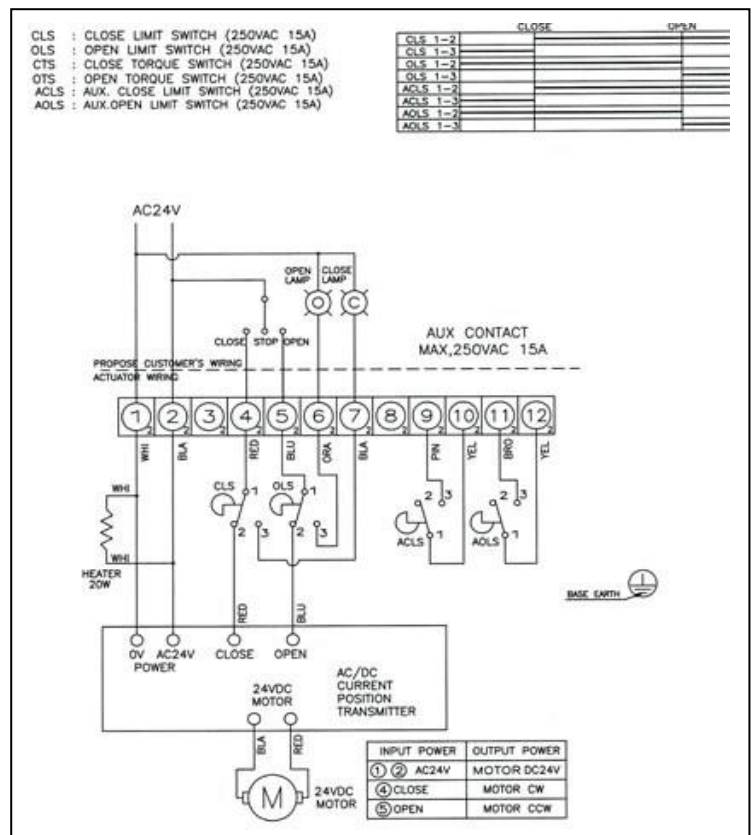
Wiring for 24V 50Hz voltage (NA06-NA09)

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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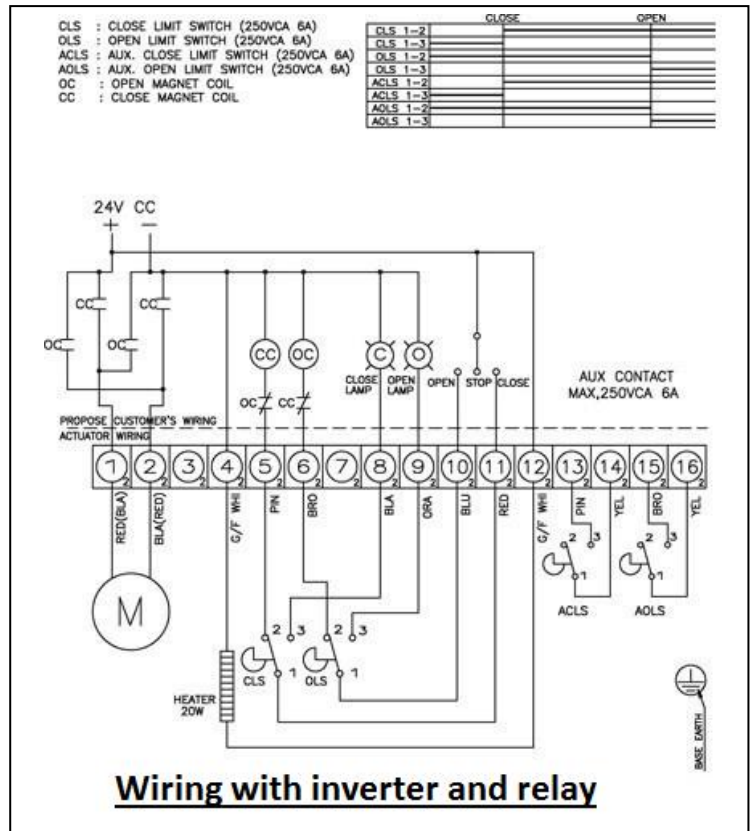
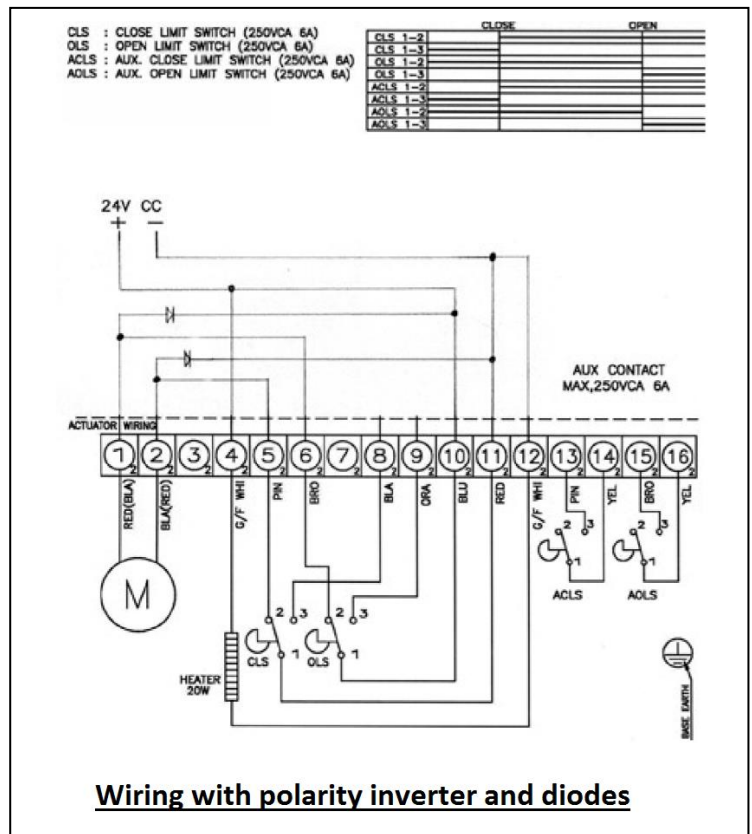
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NA / NA-X ELECTRIC ACTUATOR

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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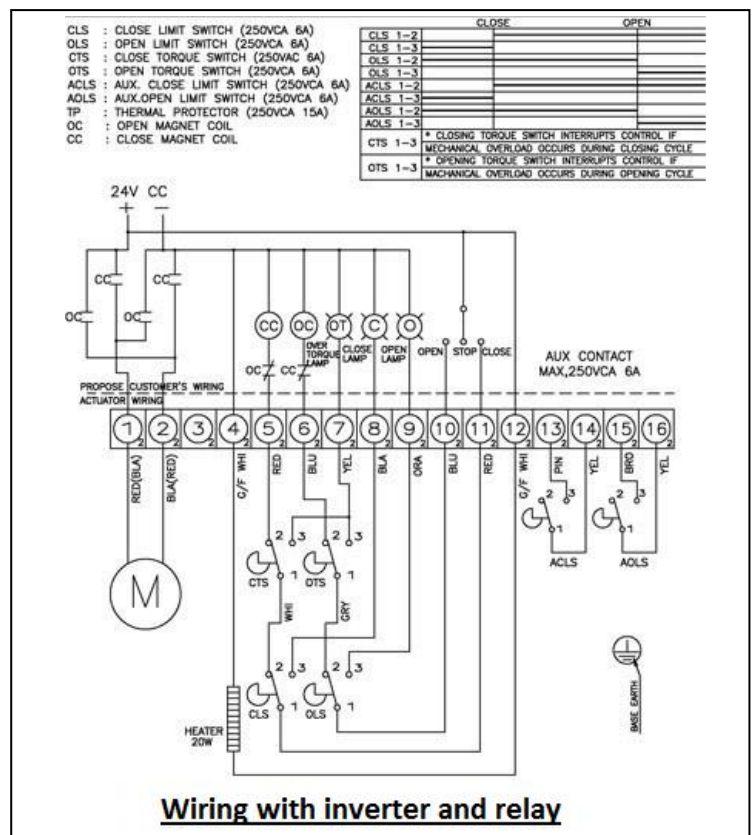
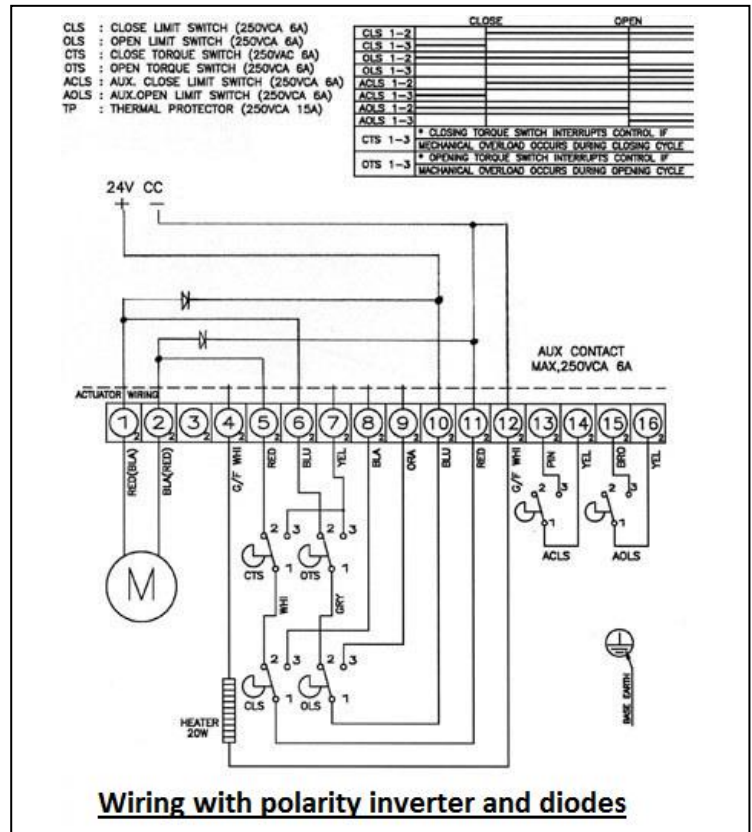
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NA / NA-X ELECTRIC ACTUATOR

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

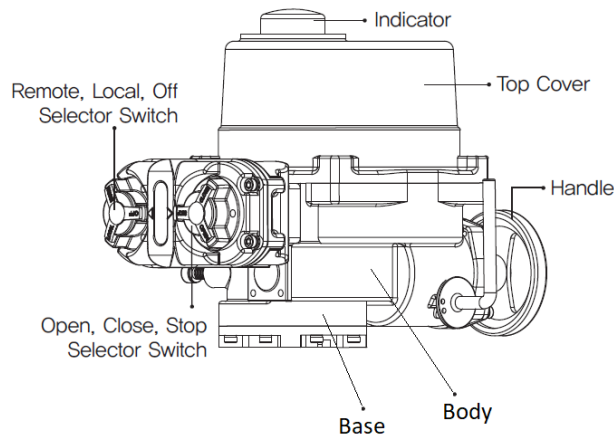
NA15 LCU : 150 Nm

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

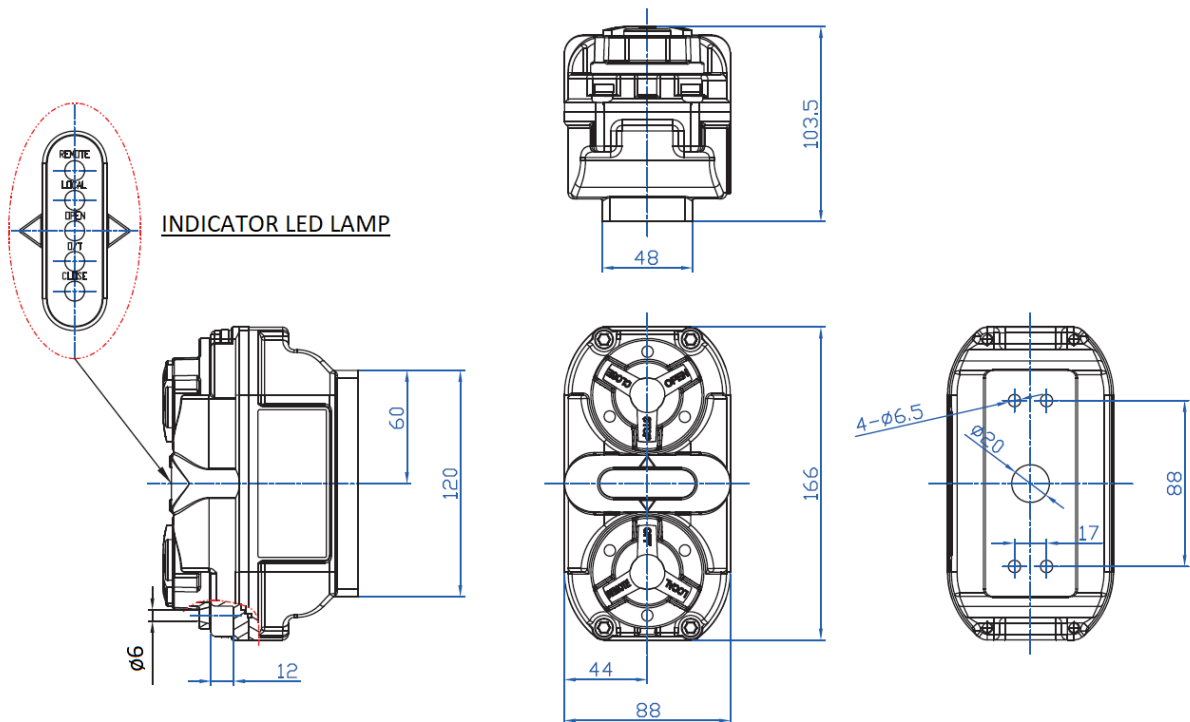


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NA / NA-X ELECTRIC ACTUATOR

DIMENSIONS (mm)

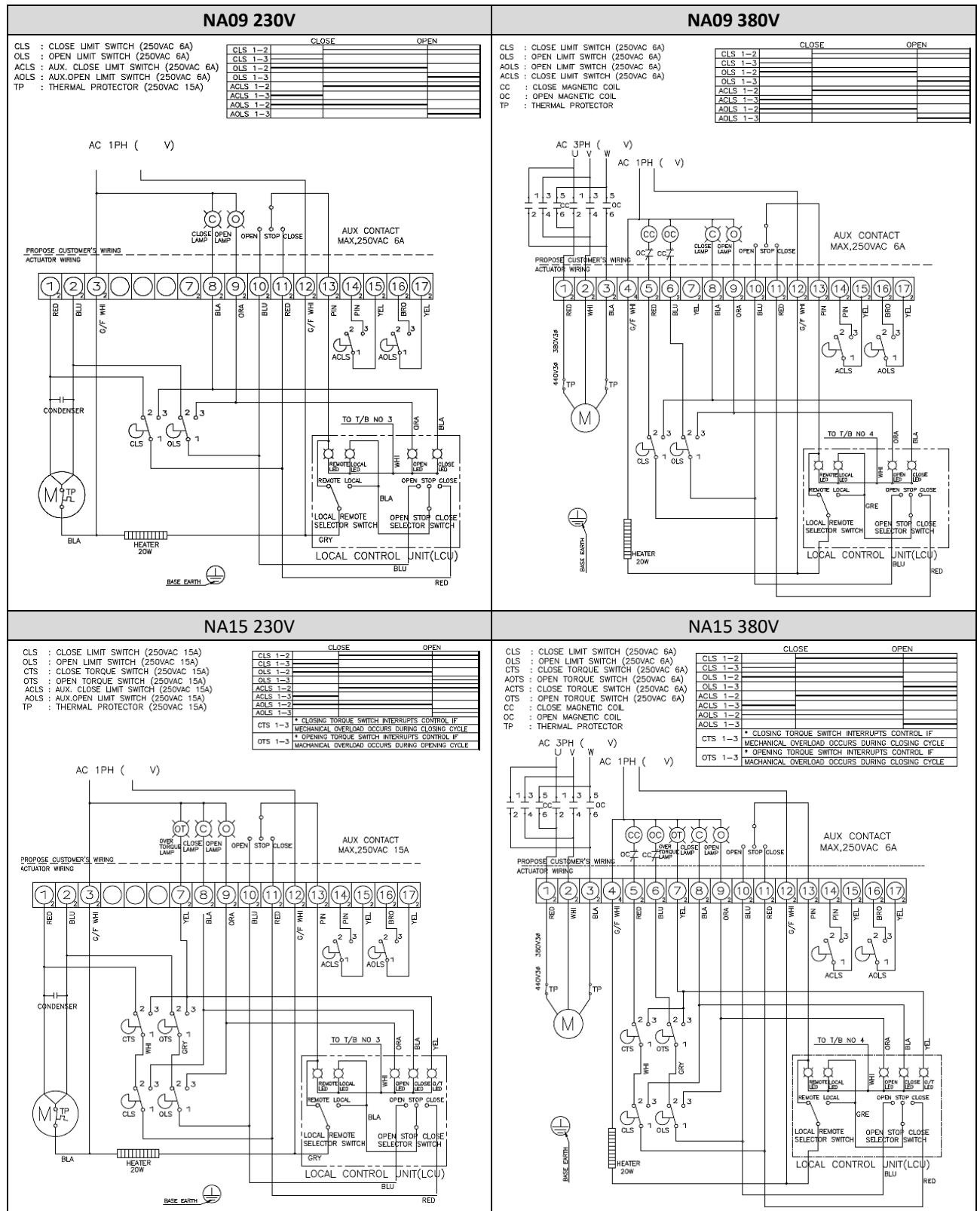


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NA / NA-X ELECTRIC ACTUATOR

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

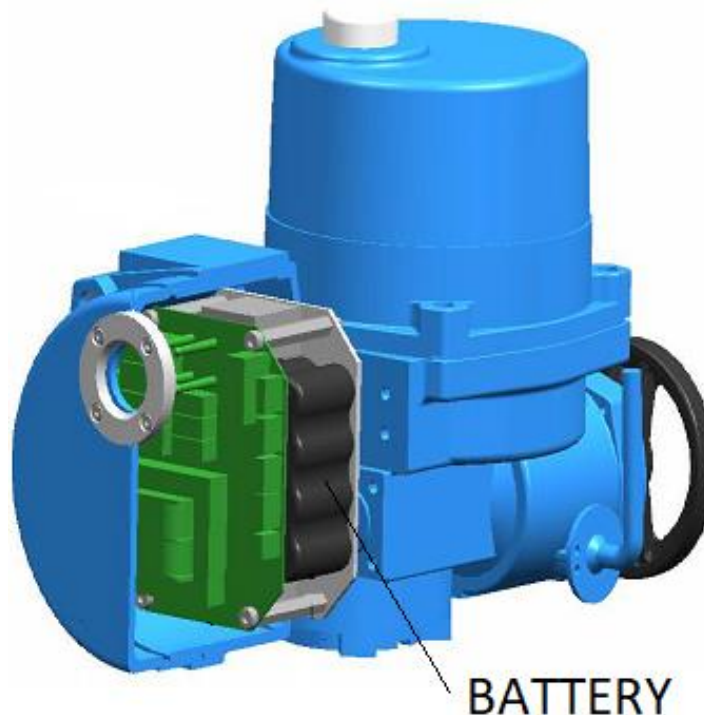
NA15 RBP : 150 Nm

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

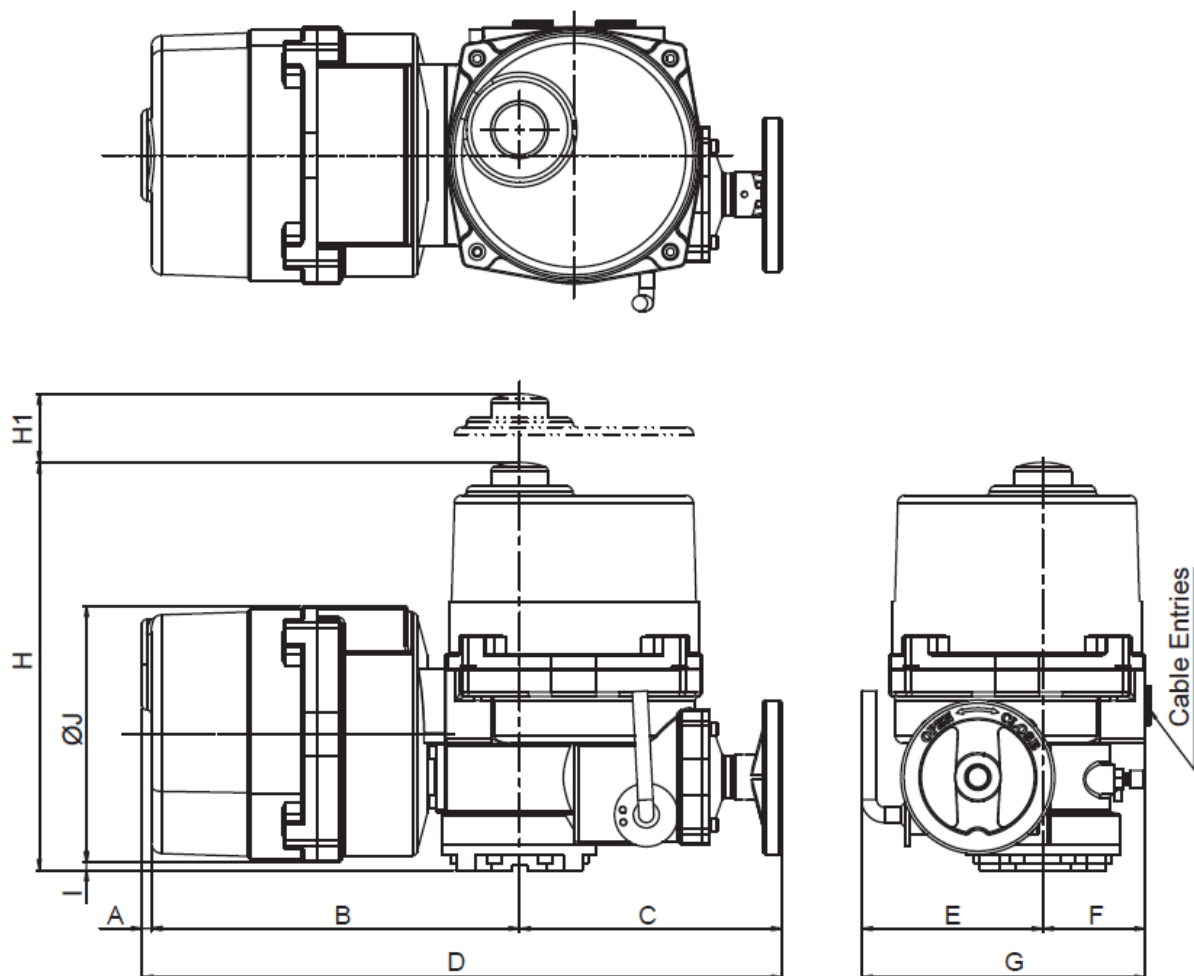


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NA / NA-X ELECTRIC ACTUATOR

DIMENSIONS (mm)



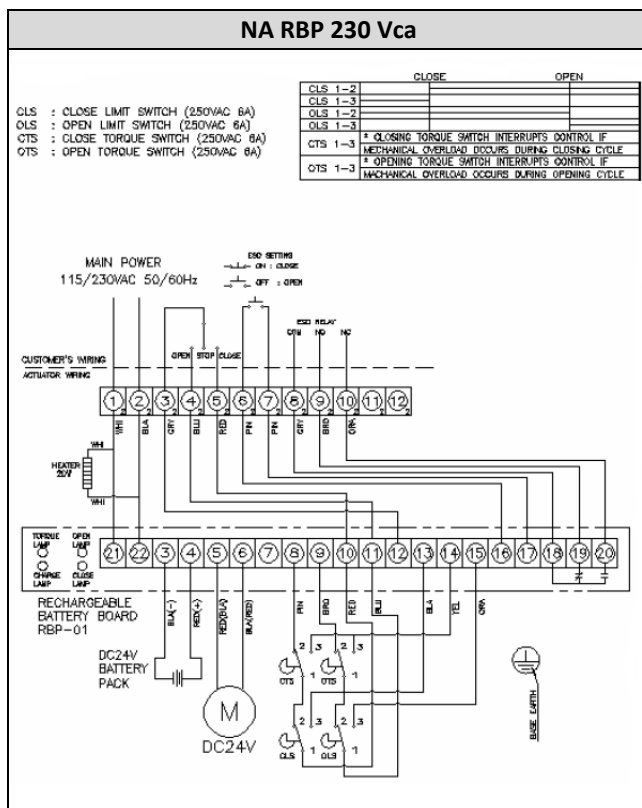
Rep	A	B	C	D	E	F	G	H	H1	ØJ
NA 09	6	244	174	424	120	68	188	270	108	170
NA 15	6	265	184	455	139	85	224	274	108	170

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NA / NA-X ELECTRIC ACTUATOR

SCHEMA ELECTRIQUE NA RBP



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