

### E993 - Electrically Actuated 2 Way Stainless Steel Ball Valve



#### Valve Features:

- Stainless Steel Ball Valve
- Screwed BSP Taper
- RPTFE (15%) Seats
- PTFE Seals

#### Actuator features:

- IP67 Enclosure (glass-reinforced polyarylamide techno-polymer)
- 2 point or 3 point control
- 2 feedback micro-switches
- 2 cable gland electrical entries

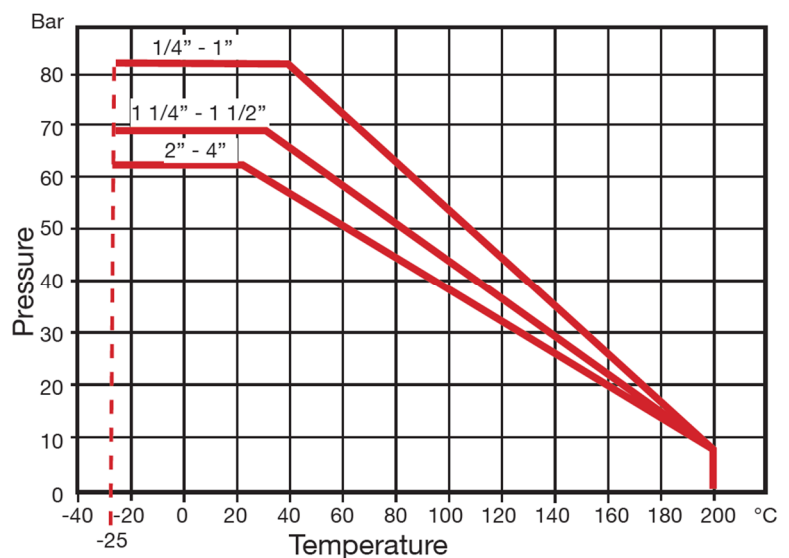
#### Actuator Options:

- 12vDC, 24v AC/DC, 110v AC, 230v AC
- Fast and slow operating speeds available
- SMART actuator option with WIFI configuration
- Positioning Actuator
- Fail safe super-capacitor
- Anti-condensation heater
- Manual override (AC only)

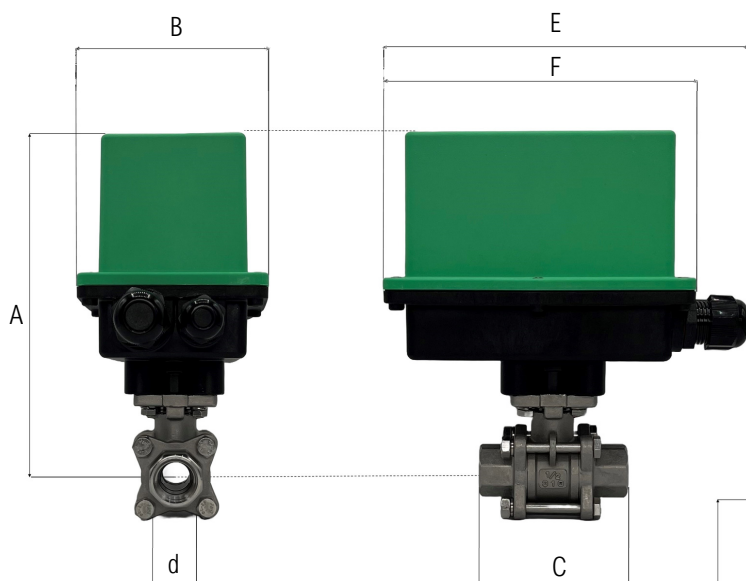
#### Technical Data:

- Max pressure:
  - 1/4" - 1" - 82 Bar
  - 1 1/4" - 1 1/2" - 69 Bar
  - 2" - 4" - 62 Bar
- Valve Working temperature:
  - 25°C to +200°C
- Ambient temperature:
  - 10°C +50°C

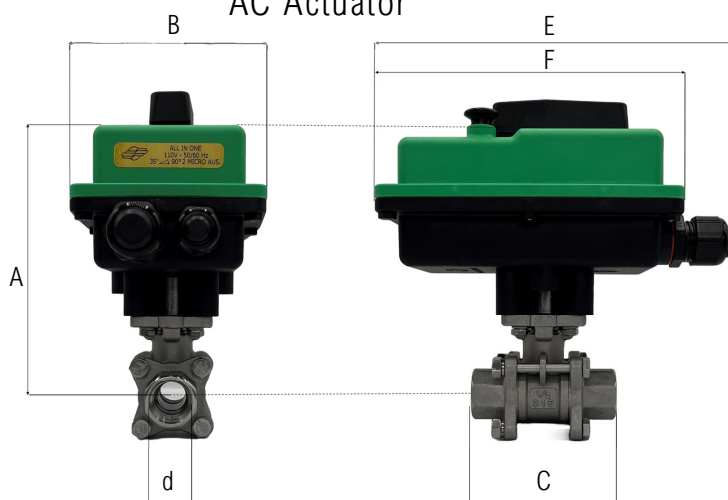
#### Pressure / Temperature:



### Dimensions: DC Actuator



### AC Actuator



#### Operating Speeds:

Diamant Pro AC: 35 seconds

Diamant Pro DC: 12 seconds

Compact Pro AC : 45 seconds

Compact Pro DC: 30 seconds

Universal Pro (AC only): 55 seconds

For faster operating speeds please contact us.

Actuator	Diamant Pro					Compact Pro		Universal Pro
DN	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
d	11	12.5	15	20	25	32	40	50
A (DC)	155.5	155.5	165	173	181	191	196.5	NA
A (AC)	120.5	120.5	130	138	148	160	165.5	192
B	95	95	95	95	95	95	95	139
C	50	60	75	80	90	110	120	140
E	168	168	168	168	168	197	197	229
F	144	144	144	144	144	171	171	204

Note: Height of optional manual-override lever = Diamant Pro 20mm, Compact Pro 27mm

Dimensions in mm

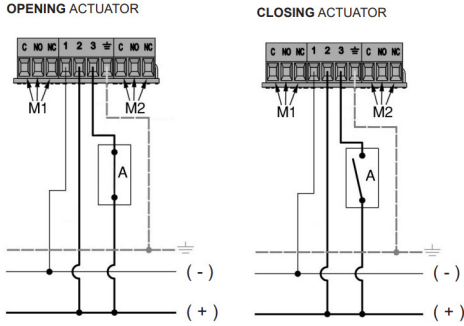
Specification is subject to change without prior notice

### Actuator Wiring Information:

#### DC Actuator

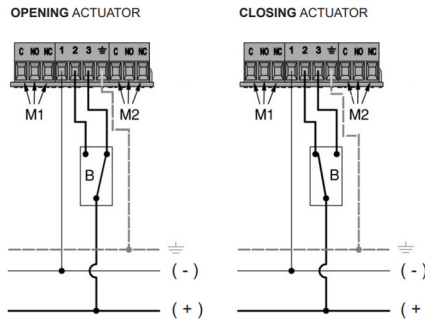
##### 2 Point Control - On/Off (Switch)

The voltage on terminal 3 can be supplied by means of a switch.  
One electric control can activate several actuators.



##### 3 Point Control - On/Off (Changeover)

Voltage should be diverted to terminal 2 or 3.  
Each actuator must be operated by a single electric control.



- 1 - Negative (-)
- 2 - Closing control (+)
- 3 - Opening control (+)
- M1 - Opening auxiliary micro
- M2 - Closing auxiliary micro

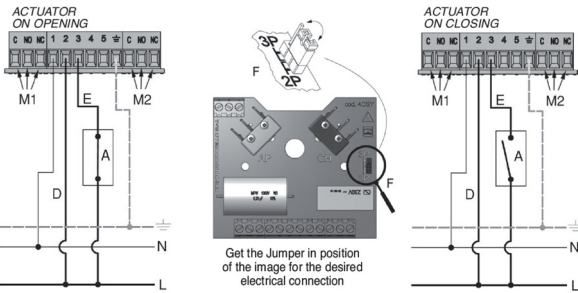
- B - Deviator-type control
- ⊕ - Earth

If powered by alternating current  
(-) = Neutral  
(+) = Phase

#### AC Actuator

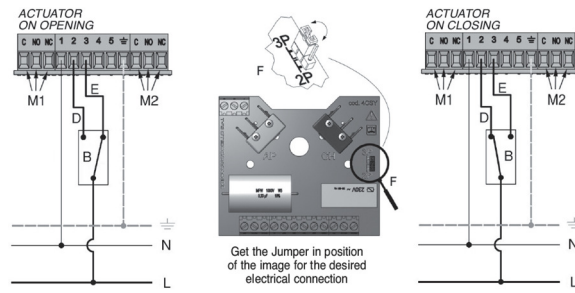
##### 2 Point Control - On/Off (Switch)

Terminal 1: neutral;  
Terminal 2: fixed closing phase  
Terminal 3: opening phase  
The phase to terminal 3 can be supplied by means of a switch.  
One electric control can activate several actuators.



##### 3 Point Control - On/Off (Changeover)

Terminal 1: neutral; Terminal 2: closing phase;  
Terminal 3: opening phase  
Phase shall be diverted to terminal 2 or terminal 3  
Each actuator must be operated by a single electric control



- KEY:
- 1 - Neutral
  - 2 - Closing phase
  - 3 - Opening phase
  - 4 - Outlet opening phase
  - 5 - Outlet closing phase

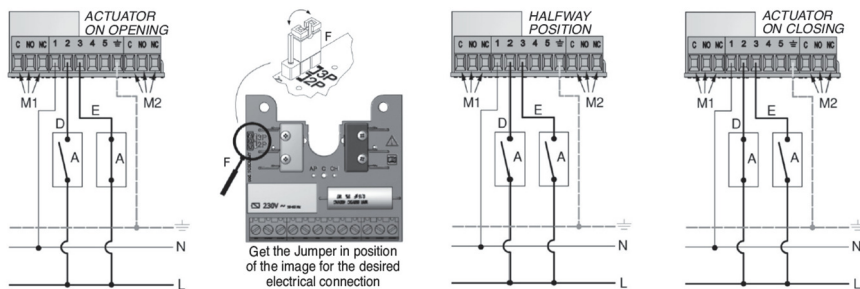
- B - Switch-type control
- D - Closing
- E - Opening
- F - Jumper
- ⊕ - Earth

- C - Common
- NO - Normally open
- NC - Normally closed
- M1 - Opening extra microswitch
- M2 - Closing extra microswitch

##### 3 Point Control - Modulating (2 Switches)

Terminal 1: neutral;  
Terminal 2: fixed closing phase  
Terminal 3: opening phase

The phase can be diverted to terminal 2, terminal 3 or to none of them, in order to obtain partial openings of the valve.



- KEY:
- 1 - Neutral
  - 2 - Closing phase
  - 3 - Opening phase
  - 4 - Outlet opening phase
  - 5 - Outlet closing phase

- A - Switch-type control
- D - Closing
- E - Opening
- F - Jumper
- ⊕ - Earth

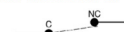
- OPTIONAL
- C - Common
  - NO - Normally open
  - NC - Normally closed
  - M1 - Opening additional microswitch
  - M2 - Closing additional microswitch

This is necessary for modulating the flow when a regulation is needed. Each actuator must be operated by a single electric control

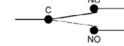
##### Optional Auxiliary Microswitches:

###### M1 • OPENING AUXILIARY MICROSWITCH

OPEN VALVE



NON-OPEN VALVE



###### M2 • CLOSING AUXILIARY MICROSWITCH

CLOSED VALVE



NON-CLOSED VALVE

