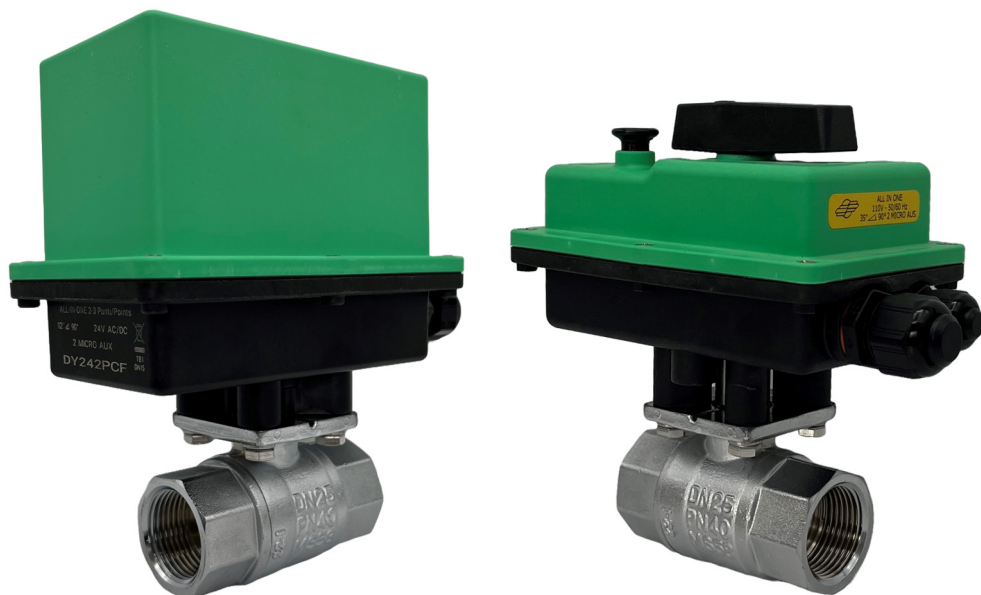


### E160 - Electrically Actuated 2 Way Brass Ball Valve



#### 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 (2½" - 3" AC only)
- 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)

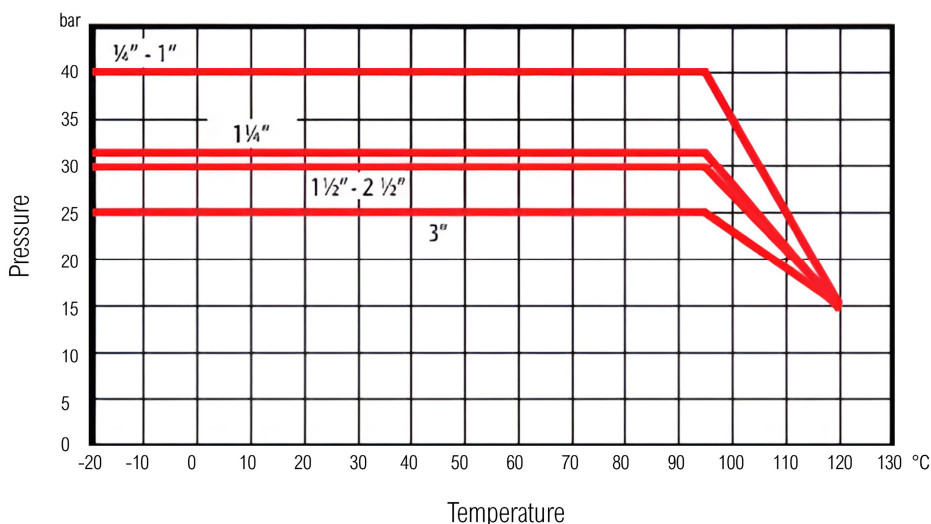
#### Valve Features:

- Nickel Plated Brass Ball Valve
- Chrome Plated Brass Ball
- Screwed BSP Parallel
- PTFE Seats and Seals
- WRAS Approved
- Full Bore

#### Technical Data:

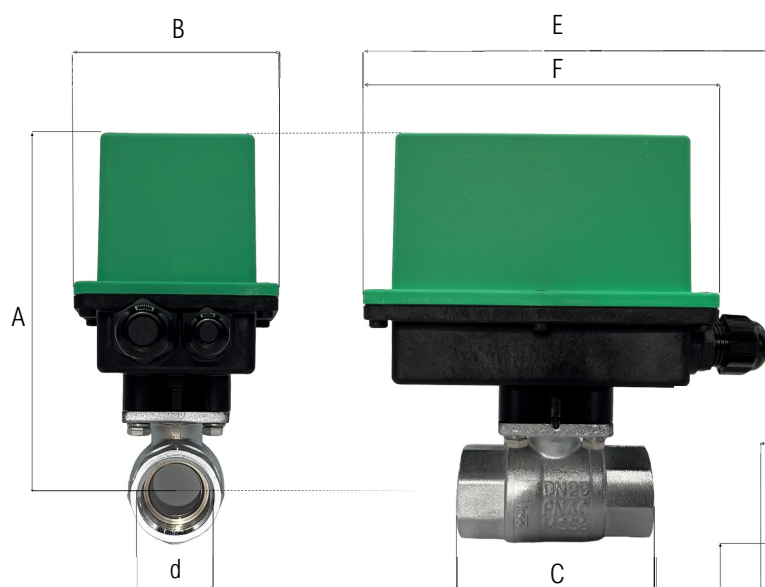
- Max pressure:
  - 1/4" - 1" - 40 Bar
  - 1 1/4" - 32 Bar
  - 1 1/2" - 2 1/2" - 30 Bar
  - 3" - 25 Bar
- Valve Working temperature:
  - 20°C to +120°C
- Ambient temperature:
  - 10°C +50°C

#### Pressure / Temperature:



## E160 - Electrically Actuated 2 Way Brass Ball Valve

### Dimensions: DC Actuator



### Operating Speeds - 90°:

Diamant Pro AC: 35 seconds

Diamant Pro DC: 12 seconds

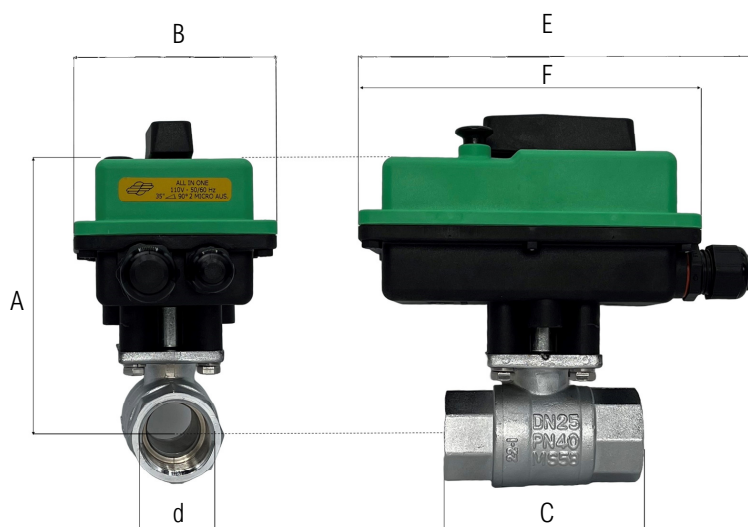
Compact Pro AC : 45 seconds

Compact Pro DC: 30 seconds

Universal Pro AC: 55 seconds

For faster operating speeds please contact us.

### AC Actuator



Actuator	Diamant Pro							Compact Pro	Universal Pro	
DN	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
d	11.5	15	15	20	25	32	38	45	62	76
A (DC)	152	152	152	155	159	164	180	191	-	-
A (AC)	117	117	117	120	124	129	148	157	204	214
B	95	95	95	95	95	95	95	112	139	139
C	64	64	64	76	88	96	103	121	165	188
E	168	168	168	168	168	168	168	197	229	229
F	144	144	144	144	144	144	144	171	204	204

Note: Height of optional manual-override lever = Diamant Pro 20mm, Compact Pro 27mm, Universal Pro 35mm

Dimensions in mm

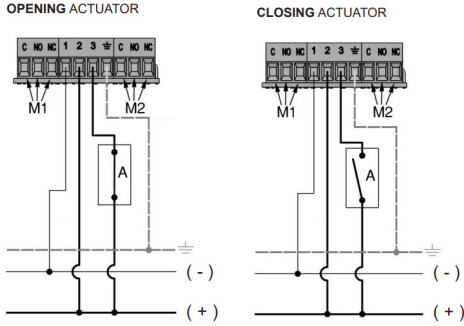
Specification is subject to change without prior notice

### Actuator Wiring Information:

#### DC Actuator

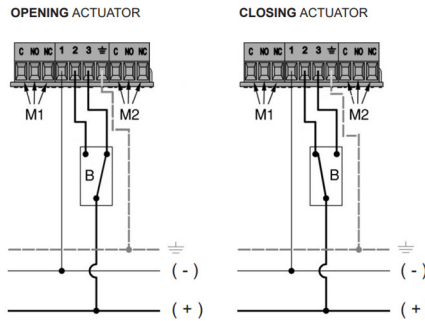
##### 2 Point Control - On/Off (Switch)

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

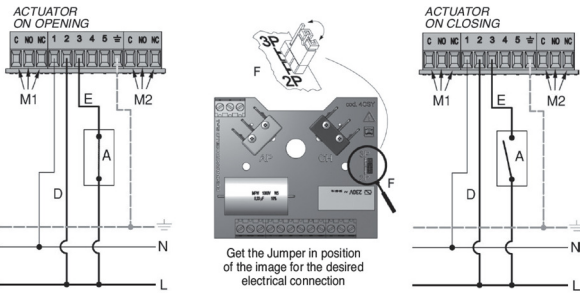
- B - Deviator-type control
- = - Earth

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

#### AC Actuator

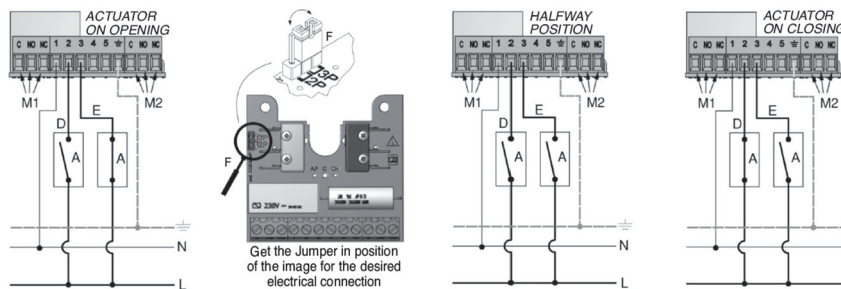
##### 2 Point Control - On/Off (Switch)

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 - Modulating (2 Switches)

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



- 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

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

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:

