

AQ5-2P

2-point actuators



- 2 -point control
- 5 Nm
- Quick and mistake-proofing assembly of the actuator on the valve
- Compact and robust structure
- Recommended for diverting and open/close applications
- Available with Cable or Molex connector
- Available with or without manual control
- Flexible design with many customization options





AQ5 is electric rotary actuator designed for operating 2-way and 3-way valves in heating and cooling systems. Actuators are controlled by 2-point signal and are suitable for long-term operation due to compact and robust design.



Actuators enable high regulating accuracy and easy installation with a quick system that allows to assembly and disassembly of the actuator in a simple, rapid, and secure way.

Type overview

Actuators customized for 2-way valves

Code	Type	Control signal	Torque	Running time	Voltage	Connection supply	Manual control	2-way	Position indication
20100	AQ5F00M-2P	2 Point	5 Nm	20s/90°	230VAC	Molex	No		
20101	AQ5F00C-2P	2 Point	5 Nm	20s/90°	230VAC	Cable	No		
20102	AQ5F01M-2P	2 Point	5 Nm	20s/90°	230VAC	Molex	Yes		
20103	AQ5F01C-2P	2 Point	5 Nm	20s/90°	230VAC	Cable	Yes		

Actuators customized for 3-way valves with L or L-L ball

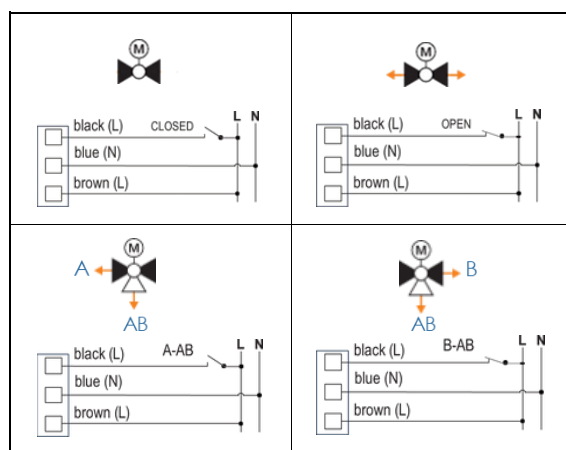
Code	Type	Control signal	Torque (Nm)	Running time	Voltage	Connection	Manual control	3-way	Position indication
20104	AQ5F00M-2P L	2 Point	5 Nm	20s/90°	230VAC	Molex	No		
20105	AQ5F00C-2P L	2 Point	5 Nm	20s/90°	230VAC	Cable	No		
20106	AQ5F01M-2P L	2 Point	5 Nm	20s/90°	230VAC	Molex	Yes		
20107	AQ5F01C-2P L	2 Point	5 Nm	20s/90°	230VAC	Cable	Yes		

Technical data

Max Torque	5 Nm
Control signal	2-point SPST
Supply voltage:	230VAC 50Hz
Running time	20s/90° ; 40s/90°
Power consumption	7 VA (operation), 5 VA (stand by relay on)
Connection supply	Molex connector / Cable 1m, 3x0,75 mm ²
Direction and angle of rotation	CW/CCW, 90°
Protection class	II
Degree of protection	IP40 (Molex), IP44 (Cable connection)
Manual override	With handle/ without
Position indication	Yes
Ambient temperature	0°C..+50°C
Media temperature	+2°C..+90°C
Storage temperature	-10°C..+70°C
Ambient humidity	Max. 80% RH, non-condensing
According to	EMC, LVD, EN 60730-2-14
Servicing	Maintenance-free

Electrical installation

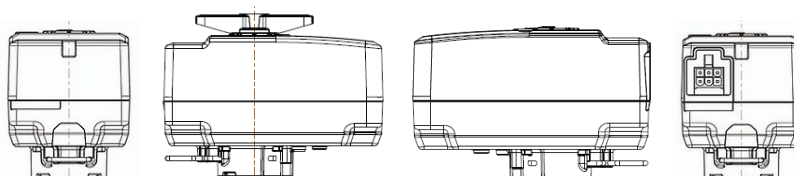
230VAC, 2-point



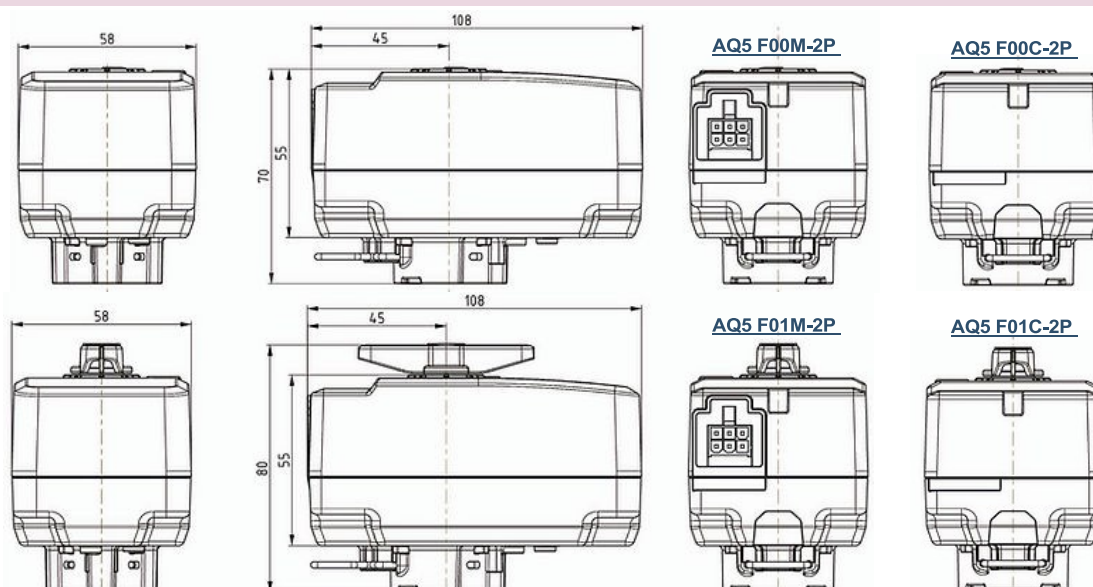
Flexible and modular design

Actuators can be customized to different customer needs:

- with cable, without manual control
- with cable, with manual control
- with Molex connector, without manual control
- with Molex connector, with manual control



Dimensions



Type code

AQ5 F00M-2P L

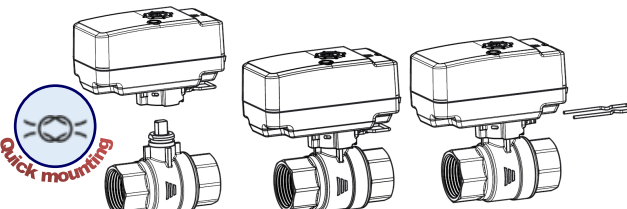
- Valve position indication: L=3-wayHL,3-wayV ; T=3-wayHT; not specified=2-way
- Control signal 2P=2-point, 3P=3-point, MC=Modulating
- Connection: M=Molex, C=Cable
- Manual control: 0=without manual control, 1=with manual control
- Voltage: 0=230VAC, 1=24VAC, 2=24VAC/DC
- Running time: D=8s/60°, E=12s/90°, F=20s/90°, G=40s/90°, H=55s/90°, I=110s/90°
- AQ5=Actuator with quick connection, max.torque 5 Nm

Product features

Quick mounting and installation position

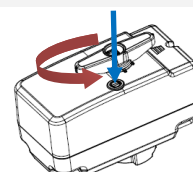
- The actuator can be mounted on the valve without tool use, by moving the actuator by hand vertically.
To remove the actuator from the valve, the metal pin must be pulled out.

- Only one position of assembling the actuator to the valve is possible, mistake-proofing assembly.



Manual control

On items AQ5 xx0x manual control is possible using the actuator clicked out.
On items AQ5 xx1x manual control is possible using a push-button and handle (the gearing is disengaged with a push-button).



Connection supply

Actuators are available with cable or Molex plug-in connector.

Selection of rotary direction

The cover should be removed to access the settings (2-point version).



Flow direction indication

Flow indications on the actuator are possible depending on the valve flow direction.



Mode of operation

Actuators AQ5-2P with ZVQ2000 valves (2-way zone valves) are recommended for open/close applications and with ZVQ3000 (3-way zone valves) for diverting applications.

Suitable valves

ZVQ 2000
2-way zone valves



ZVQ 3000HL
3-way zone valves L ball



ZVQ 3000HT
3-way zone valves T ball



ZVQ 3000V
3-way zone valves L-L ball

