

## AQ5-3P

### 3-point actuators



- 3 -point control
- 5 Nm
- Quick and mistake-proofing assembly of the actuator on the valve
- Compact and robust structure
- Recommended for mixing 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 3-way valves in heating and cooling systems. Actuators are controlled by 3-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 3-way valves with L or L-L ball

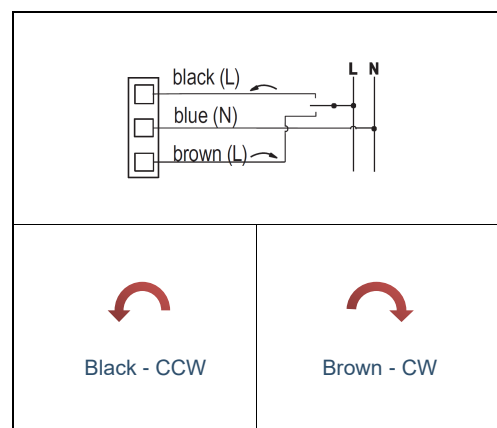
Code	Type	Control signal	Torque (Nm)	Running time	Voltage	Connection	Manual control	3-way
20150	AQ5H00M-3P L	3 Point	5 Nm	55s/90°	230VAC	Molex	No	
20151	AQ5H00C-3P L	3 Point	5 Nm	55s/90°	230VAC	Cable	No	
20152	AQ5H01M-3P L	3 Point	5 Nm	55s/90°	230VAC	Molex	Yes	
20153	AQ5H01C-3P L	3 Point	5 Nm	55s/90°	230VAC	Cable	Yes	

### Technical data

Max Torque	5 Nm
Control signal	3-point SPDT
Supply voltage:	230VAC 50Hz
Running time	20s/90°; 40s/90°; 55s/90°; 105s/90°
Power consumption	5 VA (operation)
Connection supply	Molex connector / Cable 1m, 3x0,75 mm²
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

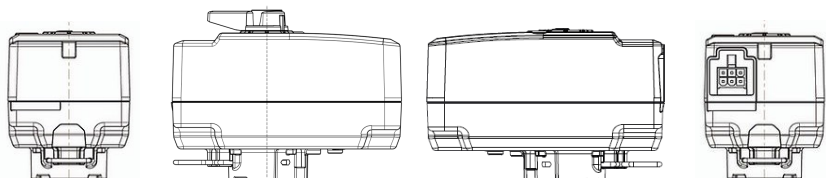
230VAC, 3-point



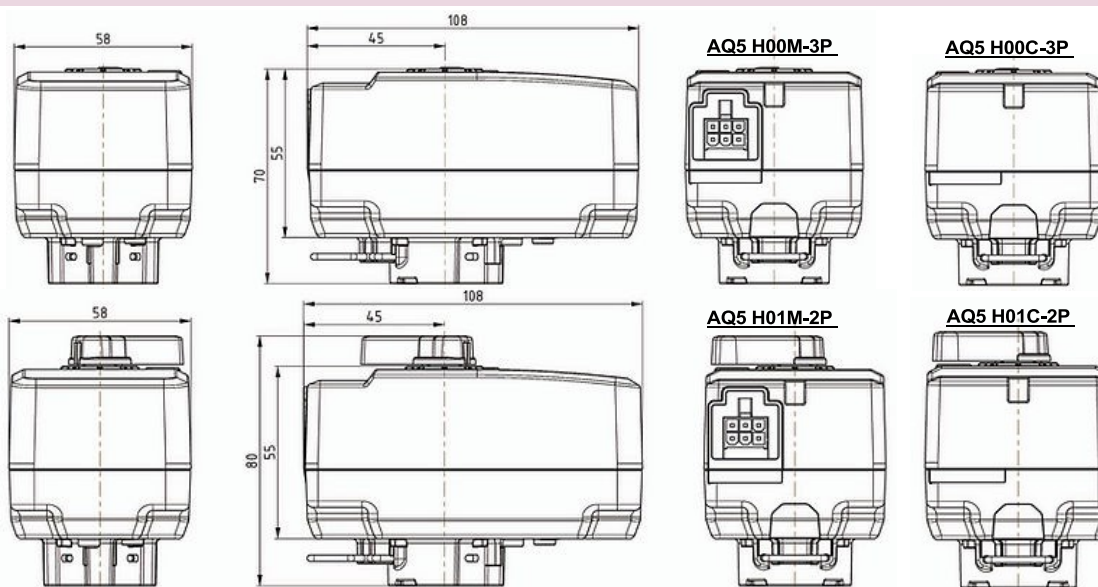
### Flexible and modular design

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 H00M-3P L

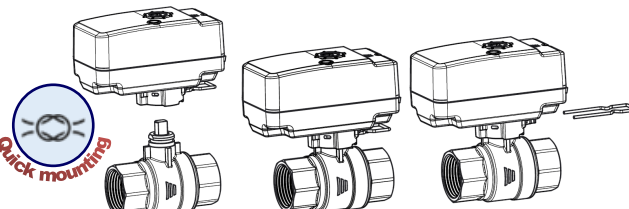
- Valve position indication: L=3-wayHL,3-wayV ; T=3-wayHT; not specified=2-way
- Control signal 2P=2-point, 3P=3-point, MC=Modulating
- Connection: M=Molex, C=Cable
- Manual control: 0=without manual control, 1=with manual control
- Voltage: 0=230VAC, 1=24VAC, 2=24VAC/DC
- Running time: D=8s/60°, E=12s/90°, 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

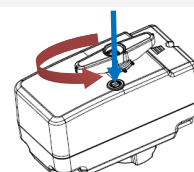
- The actuator can be mounted on the valve without tool use, by moving the actuator by hand vertically.  
To remove the actuator from the valve, the metal pin must be pulled out.

- 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.

### Flow direction indication

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



### Mode of operation

Actuators AQ5-3P with ZVQ3000 valves (3-way zone valves) are recommended for mixing applications and can also be used 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

