CONTROL VALVES

GLOBE VALVE ACTUATORS

FORTA SERIES



DESCRIPTION

The Schneider Electric Forta Series globe valve actuator is a programmable linear actuator family for use with VB7000, VB8000 and VB9000 series two- and three-way valves. The actuators are easily configured for floating or proportional control, direct or reverse action, stroke timing and flow characteristics. An automatic input control signal setup allows for easy field installation onto existing Scheider Electric globe valves. The Forta actuator can also be purchased as part of a complete valve assembly for new applications/installations (order the VU Series).



M800A-VB (screw-mount, linkage not required)

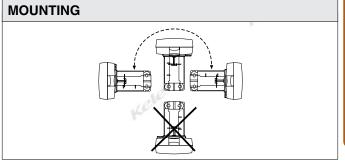




M400A with AV-821 on a VB-7213-0-4-07 (U-Bolt Style)

FEATURES

- Floating or proportional control in the same actuator
- Proportional configuration 0-10, 2-10 VDC or 4-20 mA, 500Ω resistor included
- Direct/Reverse action (switch selectable)
- Configurable run time
- Manual override
- Electronic valve sequencing and flow characteristic (equal percentage or linear) selection
- Torque overload protection (full stroke)
- Easy auto zero and span



SPECIFICATIONS

Supply Voltage 24 VAC ±10%, 50/60 Hz

Supply VA

M400 6 VA M800 15 VA M1500 24 VA

Control Signal Floating or Proportional 0/2-10 VDC

or 4-20 mA

MotorBrushless DCNoise32 dBa maximum

Conduit Connection Two knockouts, 7/8" (2.2 cm)

Wiring Screw terminals Feedback 2-10 VDC

Auxiliary Switch Two SPDT, 4A resistive @ 24 VAC

(model specific)

Action Non-spring return, direct or reverse

DIP switch selectable

Force

 M400
 90 lbf (400 N)

 M800
 180 lbf (800 N)

 M1500
 337 lbf (1500 N)

 Stroke
 3/8" to 2" (.9 to 5.2 cm)

 Stroke Time
 Floating, 60 or 300 seconds; Proportional, 15 seconds (for 1/2"

stroke)

Valve Mounting U-Bolt or Screw Mount

AV-821 Used with U-Bolt version on current

VB-7XXX valves

AV-822 Used with U-Bolt version on current

VB-8XXX valves and older VB-9XXX

valves

Manual Override Yes

Operating Temperature 14° to 122° F (- 10° to 50° C) for

chilled water applications; maximum temperature reduces to 90°F (32°C) when media temperature is 366°F

(186°C)

Operating Humidity 15% to 95% RH non-condensing Enclosure Rating NEMA 2 (IP54) if both conduit

connectors used, otherwise NEMA 1

(IP40)

Dimensions

Tall U-Bolt Style 9.5"H x 6.3"W x 4.6"D (24.2 x 16.0 x

11.7 cm)

Screw Mount 6.4"H x 6.3"W x 4.6"D (16.3 x 16.0 x

11.7 cm)

Weight 3.9 lb (1.8 Kg)
Approvals C-tick, CE
Warranty 1 year

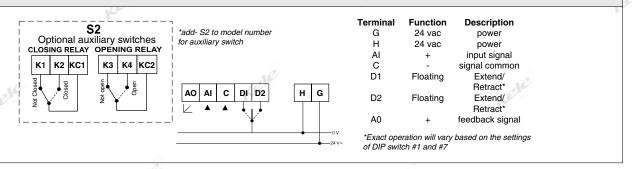
Note: Screw version actuators designed for VB-7XXX only.

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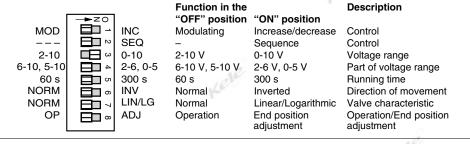
GLOBE VALVE ACTUATORS

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WIRING



DIP SWITCH SETTINGS



COMPATIBILITY

VB-7000 Bronze Valve (AV-821 linkage required for M400A, M800A, M1500A)

	Valve size	M400A/ M400A-VB (90 lbf)	M800A/ M800A-VB (180 lbf)	M1500A/ M1500A-VB (337 lbf)
	1/2"	✓		
V.	3/4"	✓	✓	
	1"	✓	✓	
	1-1/4"	✓	✓	
	1-1/2"	✓	✓	√
	2"	✓	✓	✓

VB-8000/9000 Flanged Iron Valve

(AV-822 linkage required)

Valve size	M400A (90 lbf)	M800A (180 lbf)	M1500A (337 lbf)
2-1/2"	4	√ *	✓
3"	ale	√ *	✓
4"		✓*	√
5"			✓
6"			✓
* VB-9313 only			

ORDERING INFORMATION

MODEL	DESCRIPTION
M400A	90 lbf, NSR, proportional/floating control, U-bolt mount actuator (requires AV-81x linkage)
M400A-S2	90 lbf, NSR, proportional/floating control, U-bolt mount actuator, auxiliary switch (requires AV-81x linkage)
M400A-S2-VB	90 lbf, NSR, proportional/floating control, screw-mount, U-bolt mount actuator, auxiliary switch (VB-7XXX only)
M400A-VB	90 lbf, NSR, proportional/floating control, screw-mount (VB-7XXX only)
M800A	180 lbf, NSR, proportional/floating control, U-bolt mount actuator (requires AV-81x linkage)
M800A-S2	180 lbf, NSR, proportional/floating control, U-bolt mount actuator, auxiliary switch (requires AV-81X linkage)
M800A-S2-VB	180 lbf, NSR, proportional/floating control, screw-mount, auxiliary switch (VB-7XXX only)
M800A-VB	180 lbf, NSR, proportional/floating control, screw-mount
M1500A	337 lbf, NSR, proportional/floating control, U-bolt mount actuator (requires AV-81x linkage)
M1500A-S2	337 lbf, NSR, proportional/floating control, U-bolt mount actuator, auxiliary switch (requires AV-81x linkage)
M1500A-S2-VB	337 lbf, NSR, proportional/floating control, screw-mount, auxiliary switch (VB-7XXX only)
M1500A-VB	337 lbf, NSR, proportional/floating control, screw-mount

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AV-821 Linkage for VB-7xxx valves (required for U-bolt mount actuator) **AV-822** Linkage for VB-8xxx & VB-9xxx valves (required for U-bolt mount actuator)