



Series 92 Electric Actuators

Standard Features (Sizes 1-1/2" – 8")

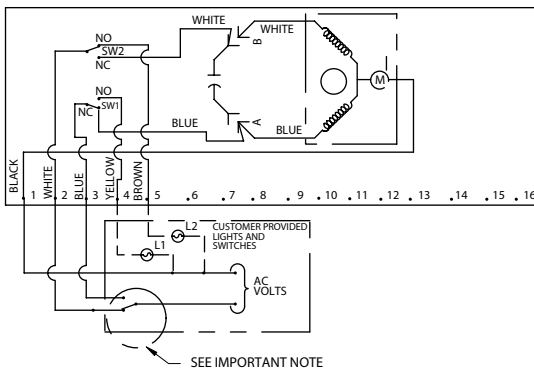
- Brushless, capacitor-run motors (AC models)
- Integral thermal overload protection with auto-reset (AC models)
- Permanently lubricated gear train
- Duty cycle 100% for high cycle applications
- Combination NEMA 4X, 7 and 9 enclosure with thermally bonded powder coating/304 ss trim
- ISO bolt circle
- Two 1/2" NPT conduit ports prevent interference between control and power signals
- Declutchable manual override
- Standard travel-stop limit switches can simultaneously be used for indicator lights
- Highly visible position indicator

Options

- Failsafe battery pack
- Extra limit switches
- Feedback potentiometer
- Heater and thermostat (to -40° F)
- Positioner: 4–20mA or 0–10Vdc input
- 4–20mA output position transmitter
- Voltages: 220 Vac, 24 Vac, 12 Vac, 24 Vdc, 12 Vdc
- Mechanical brake eliminates seating oscillation
- Bus systems

AC Wiring (For 115 Vac and 220 Vac only)

ACTUATOR SHOWN IN COUNTER-CLOCKWISE EXTREME OF TRAVEL, OR "OPEN" POSITION



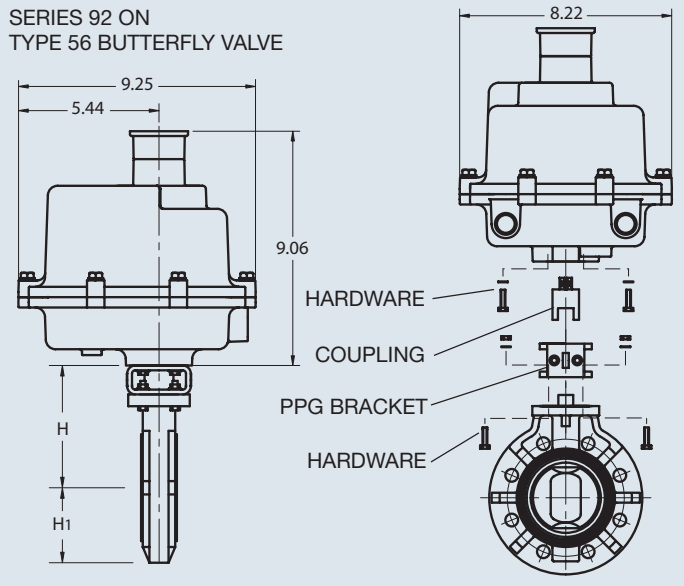
SEE IMPORTANT NOTE

Electric Actuators

Specifications

Series 92: Motor Type – Reversing, 1/4 turn single phase
 Models – S92, A92, B92, C92 for sizes 1-1/2" – 8";
 Contact factory for sizes 10" – 24"
 Torque – 400 – 2000 in.-lbs.
 Voltage – 120 Vac, 50/60 Hz
 Max Ambient Temp – 150° F
 Switches – Two single pole, double throw (15 Amp rating)

SERIES 92 ON TYPE 56 BUTTERFLY VALVE



Engineering Data

Duty cycle shown above is for 115 Vac at ambient temperature.

Actuator Model	Torque (in.-lbs.)	Duty Cycle	Cycle Time (sec.)	Weight (lbs.)	Amp Draw					
					115 Vac	220 Vac	24 Vac	12 Vac	24 Vdc	12 Vdc
S92	400	100	10	10.0	0.50	0.8	3.0	2.0	4.0	2.0
A92	700	75	10	10.0	0.75	0.8	3.0	2.0	4.0	2.0
B92	1100	100	25	11.0	0.50	0.6	3.0	2.0	4.0	2.0
C92	2000	50	25	21.0	1.00	0.6	3.0	2.0	4.0	2.0

(Contact factory for sizes above 8")

Dimensions/ Actuator Model

NOTE TO WIRING DIAGRAM:
 1. EACH ACTUATOR MUST BE POWERED THROUGH ITS OWN INDIVIDUAL SWITCH CONTACTS TO AVOID CROSS FEED.
 2. MOTOR LEADS "A" AND "B" ARE REVERSED FOR B92 & C92
 3. MOTOR HAS A THERMAL PROTECTOR AS SHOWN BY (M) IN DIAGRAM. (115 AND 220 VAC MODEL).
 4. IF 115 & 220 VAC MODELS ARE PLC DRIVEN, OUTPUT CONTACTS OF PLC SHOULD BE RATED AT A MINIMUM OF 1.5 TIMES REQUIRED INPUT VOLTAGE OF ACTUATOR.

NOMINAL SIZE		MODEL	H	H1
INCHES	mm			
1 1/2	40	S92	5.51	2.95
2	50	S92	5.75	3.27
2 1/2	65	S92	6.18	3.66
3	80	S92	6.46	3.94
4	100	S92	7.16	4.53
5	125	A92	8.46	5.00
6	150	B92	8.97	5.63
8	200	C92	11.25	6.70



Series 94 Electric Actuators

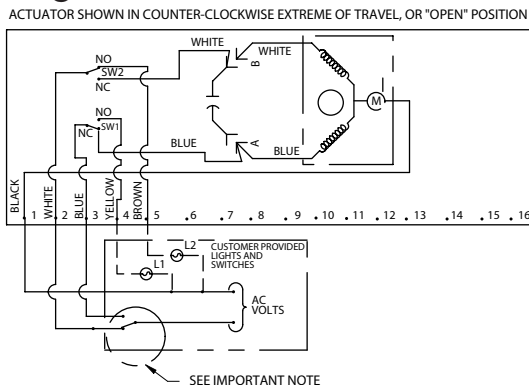
Standard Features (Sizes 1-1/2" - 4")

- Brushless, capacitor-run motors (AC models)
- Integral thermal overload protection with auto-reset (AC models)
- Permanently lubricated gear train
- Duty cycle 100% for high cycle applications
- Corrosion-proof/weatherproof NEMA 4X thermoplastic housing with stainless steel trim
- ISO bolt circle
- Two 1/2" NPT conduit ports prevent interference between control and power signals
- Low in cost
- Declutchable manual override
- Standard travel-stop limit switches can simultaneously be used for indicator lights
- Visible position indicator

Options

- Failsafe battery pack
- Extra limit switches
- Feedback potentiometer
- Heater and thermostat (to -40° F)
- Positioner: 4-20mA or 0-10 Vdc input signal
- 4-20mA output position transmitter
- Voltages: 220 Vac, 24 Vac, 12 Vac, 24 Vdc, 12 Vdc
- Mechanical brake eliminates seating oscillation

AC Wiring (For 115 Vac and 220 Vac only)

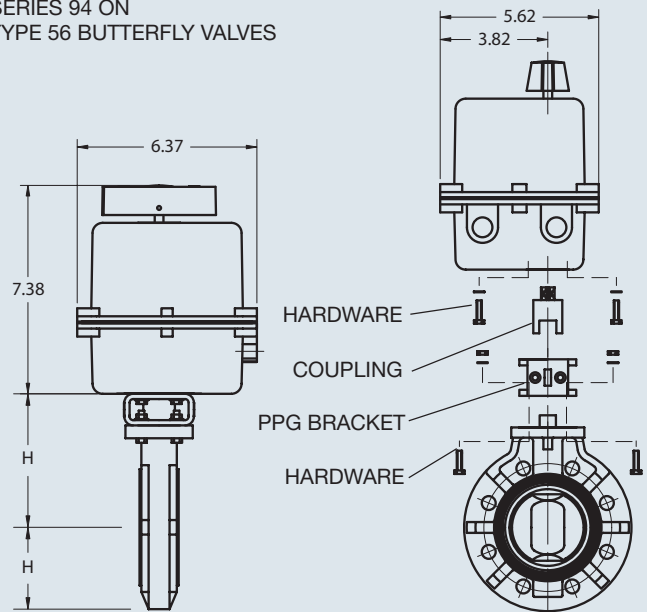


Electric Actuators

Specifications

- Series 94:** Motor Type – Reversing, 1/4 turn, single phase
 Sizes – A94 for sizes 1-1/2" – 2"
 B94 for sizes 2-1/2" – 4"
 Torque – 150 to 300 in-lbs
 Voltage – 120 Vac, 50/60 Hz
 Amp Draw – For A94: .5 Amps
 For B94: .75 Amps
 Max Ambient Temp – 150° F
 Switches – Two single pole, double throw (15 Amp rating)

SERIES 94 ON TYPE 56 BUTTERFLY VALVES



Engineering Data

Duty cycle shown above is for 115 Vac at ambient temperature.

Actuator Model	Torque (in-lbs)	Duty Cycle	Cycle Time (sec)	Weight (lbs)	Amp Draw					
					115 Vac	220 Vac	24 Vac	12 Vac	24 Vdc	12 Vdc
A94	150	100	5	3.5	0.50	0.8	4.0	2.0	4.0	2.0
B94	300	75	5	3.5	0.75	0.8	4.0	2.0	4.0	2.0

NOTE TO WIRING DIAGRAM:

1. EACH ACTUATOR MUST BE POWERED THROUGH ITS OWN INDIVIDUAL SWITCH CONTACTS TO AVOID CROSS FEED.
2. WIRING AS SHOWN IS FOR A94 AND B94 MOTOR.
3. MOTOR HAS A THERMAL PROTECTOR AS SHOWN BY (M) IN DIAGRAM. (115 AND 220 VAC MODEL).
4. IF 115 & 220 VAC MODELS ARE PLC DRIVEN, OUTPUT CONTACTS OF PLC SHOULD BE RATED AT A MINIMUM OF 1.5 TIMES REQUIRED INPUT VOLTAGE OF ACTUATOR.

Dimensions/ Actuator Model

NOMINAL SIZE		MODEL	H	H1
INCHES	mm			
1 1/2	40	A94	5.51	2.95
2	50	A94	5.75	3.27
2 1/2	65	B94	6.18	3.66
3	80	B94	6.46	3.94
4	100	B94	7.16	4.53