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OMNI® TYPE-27 BALL VALVE WITH SERIES 19 COM PACK® ON/OFF ELECTRIC ACTUATOR



Standard Features (Sizes 3/8" - 2")

- Compact: Compact and lightweight actuated valve package that is ideal for OEMs
- Multi-voltage: 95 VAC to 265 VAC or 24 VAC/VDC
- Motor: Reversing, brushless DC motor
- Gear Train: Permanently lubricated solid gears
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- ISO mounting configuration
- Electrical Connection: NEMA 4X cable gland with two-meter cable
- Position Indication: Highly visible dome position indicator
- LED Position Indication: RED closed, GREEN open
- Manual Override: Manually cycle valve via electroless nickel-plated hex key
- Auxiliary Contacts: Open and closed dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC
- **Space Heater**: A two-watt heater is internally wired to limit condensation
- QR Code: Links to user manual; includes wiring schematic
- **CE Compliant:** All actuators are CE labeled
- 75% Duty Cycle: Extended duty cycles are ideal for high cycling applications



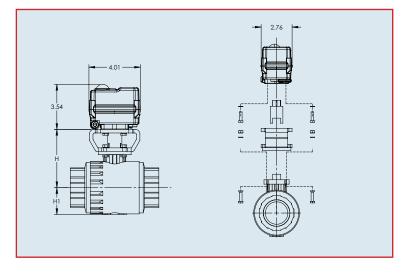
Specifications

Motor Type: Reversing, brushless DC Sizes: C20 for 3/8" - 2" valves

Torque: 177 in-lbs

Voltage: 95 VAC to 265 VAC multi-voltage

Amp Draw:0.18 AmpMax Ambient Temp:150° FEnclosure:NEMA 4X



Dimensions (inch)

Size	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Н	2.85	2.85	3.13	3.40	3.76	4.09	4.54
H1	0.81	0.81	1.00	1.18	1.38	1.66	2.09
Model	C20	C20	C20	C20	C20	C20	C20

Weight (lbs)

Size	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Weight	2.5	2.5	2.6	2.7	3.2	3.8	4.9

Engineering Data

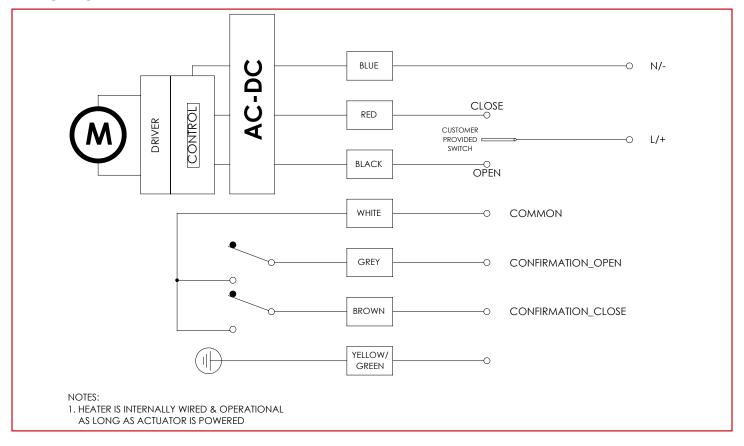
	95 - 265 VAC		24 VAC/VDC		12 VDC		Cycle time	
Model	Torque (in-lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	per 90 degrees (seconds)*
C20	177	0.18	75%	0.96	75%	1.5	75%	10

Amp draw is considered locked rotor

*Cycle times are approximate

OMNI® TYPE-27 BALL VALVE WITH SERIES 19 COM PACK® ON/OFF ELECTRIC ACTUATOR

Wiring Diagram



Sample Specifications

All Series 19 CAV on/off electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Standard features shall include a heater, one set of dry contacts for PLC confirmation, an LED indicator, and a QR code that links to its user manual and wiring schematic.

Series 19 Actuator Selection Guide

Valve	Valve Size	C20	S20	S50	S110
Omni® Type-27 Ball Valves	3/8" - 2"	Х			
	1/2" - 2"	Х	Х		
Type-21/21a SST Ball Valves	2-1/2" - 3"			Х	
24 Y4.195	4"				Х
T 00	1/2" - 2"	Х	Х		
Type-23 Multiport® Valves	3"			Х	
ividisport valves	4"				Х
	1-1/2" - 2-1/2"		Х		
Type-57P Butterfly Valves	3" - 4"			Х	
, , , , , , , , , , , , , , , , ,	5" - 6"				Х



TYPE-21 AND TYPE-23 MULTIPORT® BALL VALVE WITH SERIES 19 COM PACK® ON/OFF ELECTRIC ACTUATOR



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

- **Compact:** Compact and lightweight actuated valve package that is ideal for OEMs
- Multi-voltage: 95 VAC to 265 VAC or 24 VAC/VDC
- Motor: Reversing, brushless DC motor
- Gear Train: Permanently lubricated solid gears
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- ISO mounting configuration
- **Electrical Connection:** NEMA 4X cable gland with two-meter cable
- Position Indication: Highly visible dome position indicator
- LED Position Indication: RED closed, GREEN open
- Manual Override: Manually cycle valve via electroless nickel-plated hex key
- Auxiliary Contacts: Open and closed dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC
- **Space Heater**: A two-watt heater is internally wired to limit condensation
- QR Code: Links to user manual; includes wiring schematic
- **CE Compliant:** All actuators are CE labeled
- 75% Duty Cycle: Extended duty cycles are ideal for high cycling applications



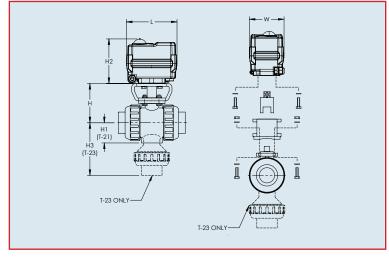
Specifications

Motor Type: Reversing, brushless DC Sizes: C20 for 1/2" - 2" valves

Torque: 177 in-lbs

Voltage: 95 VAC to 265 VAC multi-voltage

Amp Draw: 0.18 Amp
Max Ambient Temp: 150° F
Enclosure: NEMA 4X



Dimensions (inch)

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Н	2.76	3.01	3.29	3.64	3.98	4.43
H1	1.14	1.38	1.54	1.85	2.17	2.60
H2	3.54	3.54	3.54	3.54	3.54	3.54
НЗ	3.08	3.56	4.32	N/A	5.71	6.66
L	4.01	4.01	4.01	4.01	4.01	4.01
W	2.76	2.76	2.76	2.76	2.76	2.76
Model	C20	C20	C20	C20	C20	C20

Weight (lbs)

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Weight	2.7	2.9	3.4	3.8	4.9	6.7

Engineering Data

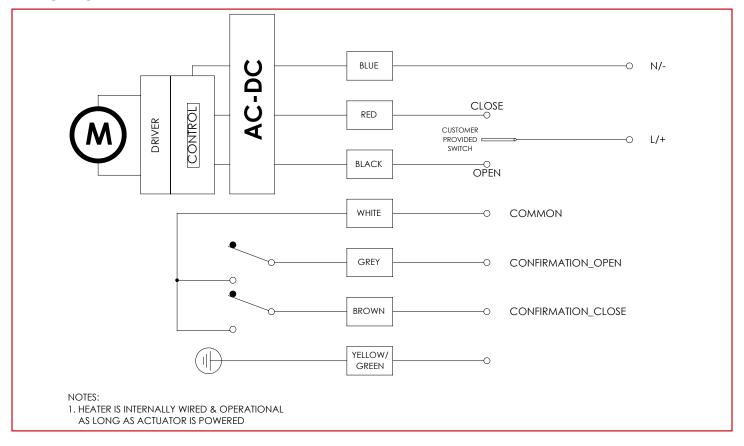
	_	95 - 26	55 VAC	24 VA	C/VDC	Cycle time	
Model	Torque (in-lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	per 90 degrees (seconds)*	
C20	177	0.18	75%	0.96	75%	10	

Amp draw is considered locked rotor

*Cycle times are approximate

TYPE-21 AND TYPE-23 MULTIPORT® BALL VALVE WITH SERIES 19 COM PACK® ON/OFF ELECTRIC ACTUATOR

Wiring Diagram



Sample Specifications

All Series 19 CAV on/off electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Standard features shall include a heater, one set of dry contacts for PLC confirmation, an LED indicator, and a QR code that links to its user manual and wiring schematic.

Series 19 Actuator Selection Guide

Valve	Valve Size	C20	S20	S50	S110
Omni® Type-27 Ball Valves	3/8" - 2"	Х			
	1/2" - 2"	Х	Х		
Type-21/21a SST Ball Valves	2-1/2" - 3"			Х	
	4"				Х
T 60	1/2" - 2"	Х	Х		
Type-23 Multiport® Valves	3"			Х	
ividisport valves	4"				Х
	1-1/2" - 2-1/2"		Х		
Type-57P Butterfly Valves	3" - 4"			Х	
,	5" - 6"				Х



OMNI® TYPE-27 BALL VALVE WITH SERIES 19 COM PACK® **FAILSAFE ELECTRIC ACTUATOR**



Standard Features (Sizes 3/8" - 2")

- Compact: Perfect for OEM and skid manufacturers with a footprint of 2.75" x 4" up to a 2" ball valve
- Multi-voltage: 95 VAC to 265 VAC or 24 VAC/VDC
- Motor: Reversing, brushless DC motor
- Capacitor Discharge System: A capacitor is used in place of batteries for failsafe mode
- Fail Position: Fail close is standard; fail as is, or fail open are options
- Gear Train: Permanently lubricated steel gears
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- **ISO** mounting configuration
- Electrical Connection: NEMA 4X cable gland with two-meter cable
- Position Indication: Highly visible beacon position
- LED Position Indication: RED closed, GREEN open
- Manual Override: Manually cycle valve via electroless nickel-plated hex key
- Auxiliary Contacts: Open and closed dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC
- Space Heater: Internally wired to limit condensation
- CE Compliant: All actuators are CE labeled and
- 75% Duty Cycle: Extended duty cycle is ideal for high cycling applications
- QR Code: Links to user manual; includes wiring
- Simple Wiring: Wiring technique is the same for all voltage units



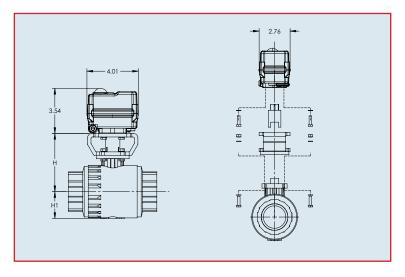
Specifications

Motor Type: Reversing, brushless DC Sizes: C20 for 3/8" - 2" valves

Torque: 177 in-lbs

95 VAC to 265 VAC multi-voltage Voltage:

Amp Draw: 0.18 Amp Max Ambient Temp: 150° F **Enclosure:** NEMA 4X



Dimensions (inch)

Size	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Н	2.85	2.85	3.13	3.40	3.76	4.09	4.54
H1	0.81	0.81	1.00	1.18	1.38	1.66	2.09
Model	C20	C20	C20	C20	C20	C20	C20

Weight (lbs)

Size	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Weight	2.5	2.5	2.6	2.7	3.2	3.8	4.9

Engineering Data

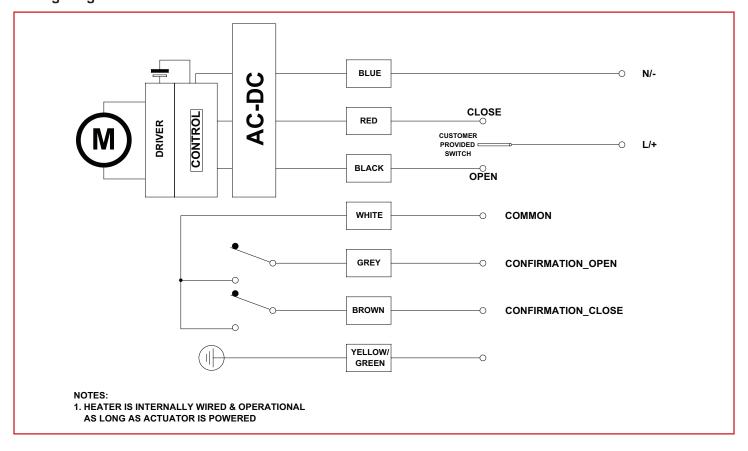
	95 - 26	55 VAC	24 VAC/VDC		12 VDC		Cycle time		
Model	Torque (in-lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	per 90 degrees (seconds)*	
C20	177	0.18	75%	0.96	75%	1.5	75%	10	

Amp draw is considered locked rotor

*Cycle times are approximate

OMNI® TYPE-27 BALL VALVE WITH SERIES 19 COM PACK® FAILSAFE ELECTRIC ACTUATOR

Wiring Diagram



Sample Specifications

All Series 19 CAV failsafe electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Actuator shall be of capacitor discharge design with no batteries, and be standard as fail close upon loss of supply power. Standard features shall include a heater, one set of dry contacts for PLC confirmation, LED position indicator, and a QR code that links to its user manual and wiring schematic.

Series 19 Actuator Selection Guide

Valve	Valve Size	C20	S20	S50	S110
Omni® Type-27 Ball Valves	3/8" - 2"	Х			
	1/2" - 2"	Х	Х		
Type-21/21a SST Ball Valves	2-1/2" - 3"			Х	
Dai: 14:100	4"				Х
T 60	1/2" - 2"	Х	Х		
Type-23 Multiport® Valves	3"			Х	
ividisport valves	4"				Х
	1-1/2" - 2-1/2"		Х		
Type-57P Butterfly Valves	3" - 4"			Х	
, , , , , , , , , , , , , , , , ,	5" - 6"				Х



TYPE-21 AND TYPE-23 MULTIPORT® BALL VALVE WITH SERIES 19 COM PACK® FAILSAFE ELECTRIC ACTUATOR



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

- **Compact:** Perfect for OEM and skid manufacturers with a footprint of 2.75" x 4" up to a 2" ball valve
- Multi-voltage: 95 VAC to 265 VAC or 24 VAC/VDC
- Motor: Reversing, brushless DC motor
- Capacitor Discharge System: A capacitor is used in place of batteries for failsafe mode
- Fail Position: Fail close is standard; fail open is an option
- Gear Train: Permanently lubricated steel gears
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- **ISO** mounting configuration
- **Electrical Connection:** NEMA 4X cable gland with two-meter cable
- Position Indication: Highly visible beacon position indicator
- LED Position Indication: RED closed, GREEN open
- Manual Override: Manually cycle valve via electroless nickel-plated hex key
- Auxiliary Contacts: Open and closed dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC
- Space Heater: Internally wired to limit condensation
- CE Compliant: All actuators are CE labeled and compliant
- 75% Duty Cycle: Extended duty cycle is ideal for high cycling applications
- QR Code: Links to user manual; includes wiring schematic
- Simple Wiring: Wiring technique is the same for all voltage units



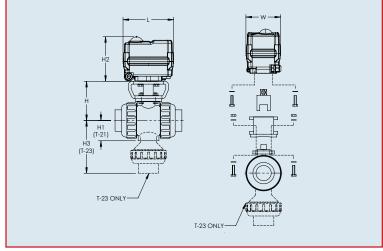
Specifications

Motor Type: Reversing, brushless DC Sizes: C20 for 1/2" - 2" valves

Torque: 177 in-lbs

Voltage: 95 VAC to 265 VAC multi-voltage

Amp Draw: 0.18 Amp Max Ambient Temp: 150° F Enclosure: NEMA 4X



Dimensions (inch)

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Н	2.76	3.01	3.29	3.64	3.98	4.43
H1	1.14	1.38	1.54	1.85	2.17	2.60
H2	3.54	3.54	3.54	3.54	3.54	3.54
H3	3.08	3.56	4.32	N/A	5.71	6.66
L	4.01	4.01	4.01	4.01	4.01	4.01
W	2.76	2.76	2.76	2.76	2.76	2.76
Model	C20	C20	C20	C20	C20	C20

Weight (lbs)

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Weight	2.7	2.9	3.4	3.8	4.9	6.7

Engineering Data

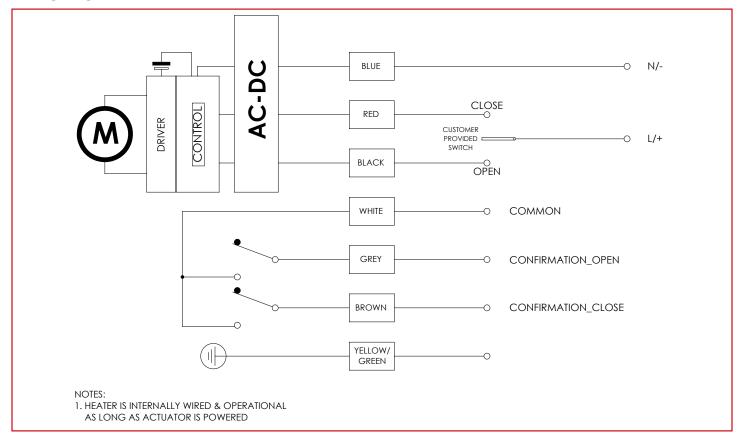
	_	95 - 26	55 VAC	24 VA	C/VDC	Cycle time
Model	Torque (in-lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	per 90 degrees (seconds)*
C20	177	0.18	75%	0.96	75%	10

Amp draw is considered locked rotor

*Cycle times are approximate

TYPE-21 AND TYPE-23 MULTIPORT® BALL VALVE WITH SERIES 19 COM PACK® FAILSAFE ELECTRIC ACTUATOR

Wiring Diagram



Sample Specifications

All Series 19 CAV failsafe electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Actuator shall be of capacitor discharge design with no batteries, and be standard as fail close upon loss of supply power. Standard features shall include a heater, one set of dry contacts for PLC confirmation, LED position indicator, and a QR code that links to its user manual and wiring schematic.

Series 19 Actuator Selection Guide

Valve	Valve Size	C20	S20	S50	S110
Omni® Type-27 Ball Valves	3/8" - 2"	Х			
	1/2" - 2"	Х	Х		
Type-21/21a SST Ball Valves	2-1/2" - 3"			Х	
Dai: 14:100	4"				Х
T 60	1/2" - 2"	Х	Х		
Type-23 Multiport® Valves	3"			Х	
ividisport valves	4"				Х
	1-1/2" - 2-1/2"		Х		
Type-57P Butterfly Valves	3" - 4"			Х	
, , , , , , , , , , , , , , , , ,	5" - 6"				Х



TYPE-21/21a BALL VALVE WITH SERIES 19 SMART ON/OFF ELECTRIC ACTUATOR





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

- Compact: Perfect for OEM and skid manufacturers
- OLED Screen: Displays valve position, alarms (such as an over torque condition)
- Push Buttons: Used to calibrate/adjust end positions, local controls
- Multi-voltage: 95 VAC to 265 VAC or 24 VAC/VDC
- Motor: Reversing, brushless DC motor
- Gear Train: Permanently lubricated steel gears
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- ISO mounting configuration
- Electrical Connection: NEMA 4X cable gland with two-meter cable
- Position Indication: Highly visible beacon position indicator
- LED Position Indication: RED closed, GREEN open, BLUE fault
- Manual Override: Manually cycle valve via electroless nickel-plated hex key
- Auxiliary Contacts: Open and closed dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC
- Alarm Contacts: Dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC for alarm status (over torque, as an example)
- QR Code: Links to user manual; includes wiring schematic
- Space Heater: Internally wired to limit condensation
- CE Compliant: All actuators are CE labeled and compliant
- 75% Duty Cycle: Extended duty cycle is ideal for high cycling applications
- Output Torque: Series 19 electric actuators have an output torque range from 177 in-lbs to 973 in-lbs
- Simple Wiring: Wiring technique is the same for all voltage units
- Local Controls: Used with OLED and push buttons, a user can locally open or close units via password

Specifications

Motor Type: Reversing, brushless DC

Sizes: S20 for 1/2" - 2" ball valves

S50 for 2-1/2" - 3" ball valves

\$110 for 4" ball valves

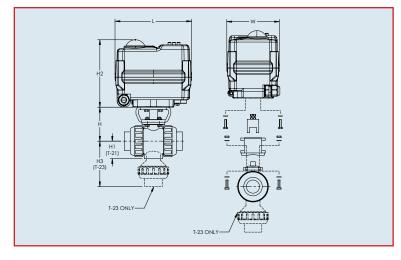
Torque: 177 in-lbs to 973 in-lbs

Voltage: 95 VAC to 265 VAC multi-voltage

Amp Draw: 0.18 Amp for S20 0.24 Amp for S50

0.84 Amp for S110

Max Ambient Temp: 150° F



Dimensions (inch)

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
L	4.01	4.01	4.01	4.01	4.01	4.01	5.12	5.12	6.69
W	2.76	2.76	2.76	2.76	2.76	2.76	4.33	4.33	4.52
Н	2.76	3.01	3.29	3.64	3.98	4.43	5.12	5.47	6.97
H1	1.14	1.38	1.54	1.85	2.17	2.60	2.83	3.35	4.33
H2	3.54	3.54	3.54	3.54	3.54	3.54	4.72	4.72	4.80
Model	S20	S20	S20	S20	S20	S20	S50	S50	S110

Weight (lbs)

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Weight	2.7	2.9	3.4	3.8	4.9	6.7	10.2	13.7	29.6

Engineering Data

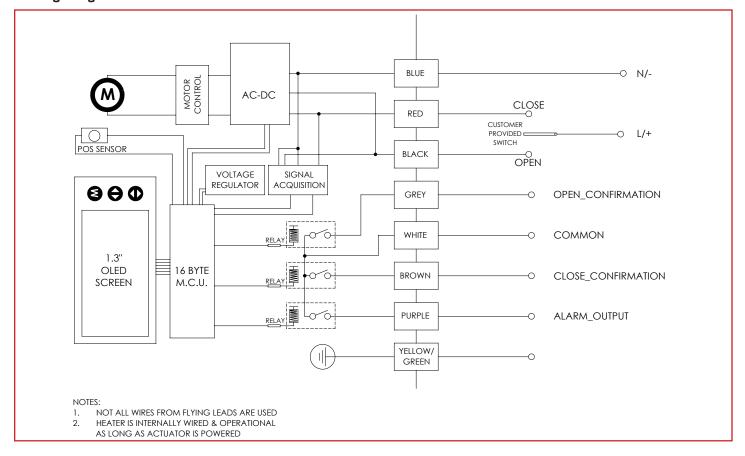
	_	95-265 VAC		24 VA	C/VDC	Cycle time
Model	Torque (in-lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	per 90 degrees (seconds)*
S20	177	0.18	75%	0.96	75%	10
S50	442	0.24	75%	1.20	75%	10
S110	973	0.84	75%	4.80	75%	10

Amp draw is considered locked rotor

^{*}Cycle times are approximate

TYPE-21/21a BALL VALVE WITH SERIES 19 SMART ON/OFF ELECTRIC ACTUATOR

Wiring Diagram



Sample Specifications

All Series 19 SAV smart on/off electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Standard features shall include a heater, one set of dry contacts for PLC confirmation, one set of dry contacts for alarm reporting, LED indicator for position and alarm conditions, an OLED screen with push buttons, local controls, and a QR code that links to its user manual and wiring schematic.

Series 19 Actuator Selection Guide

Valve	Valve Size	C20	S20	S50	S110
Omni® Type-27 Ball Valves	3/8" - 2"	Х			
	1/2" - 2"	Х	Х		
Type-21/21a SST Ball Valves	2-1/2" - 3"			Х	
	4"				Х
T 00	1/2" - 2"	Х	Х		
Type-23 Multiport® Valves	3"			Х	
Waldisport Valves	4"				Х
	1-1/2" - 2-1/2"		Х		
Type-57P Butterfly Valves	3" - 4"			Х	
, valves	5" - 6"				Х



TYPE-23 MULTIPORT® BALL VALVE WITH SERIES 19 SMART ON/OFF ELECTRIC ACTUATOR





Standard Features (1/2" - 4")

- Compact: Perfect for OEM and skid manufacturers
- **OLED Screen:** Displays valve position, alarms (such as an over torque condition)
- Push Buttons: Used to calibrate / adjust end positions, local controls
- Multi-voltage: 95 VAC to 265 VAC or 24 VAC/VDC
- Motor: Reversing, brushless DC motor
- Gear Train: Permanently lubricated steel gears
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- **ISO** mounting configuration
- **Electrical Connection:** NEMA 4X cable gland with two-meter cable
- Position Indication: Highly visible beacon position indicator
- LED Position Indication: RED closed, GREEN open, BLUE fault
- Manual Override: Manually cycle valve via electroless nickel-plated hex key
- Auxiliary Contacts: Open and closed dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC
- Alarm Contacts: Dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC for alarm status (over torque, as an example)
- Space Heater: Internally wired to limit condensation
- CE Compliant: All actuators are CE labeled and compliant.
- 75% Duty Cycle: Extended duty cycle is ideal for high cycling applications
- Output Torque: Series 19 electric actuators have an output torque range from 177 in-lbs to 973 in-lbs
- **QR Code:** Links to user manual; includes wiring schematic
- **Simple Wiring:** Wiring technique is the same for all voltage units
- Local Controls: Used with OLED and push buttons, a user can locally open or close units via password

Specifications

Motor Type: Reversing, brushless DC

Sizes: S20 for 1/2" - 2" 3-way ball valves

S50 for 3" three-way ball valves S110 for 4" three-way ball valves

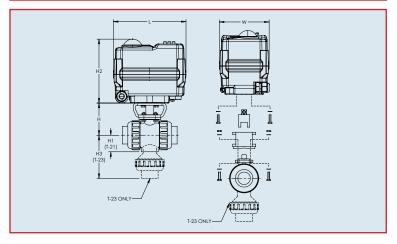
Torque: 177 in-lbs to 973 in-lbs

Voltage: 95 VAC to 265 VAC multi-voltage

Amp Draw: 0.18 Amp for S20

0.24 Amp for S50 0.84 Amp for S110

Max Ambient Temp: 150° F



Dimensions (inch)

Size	1/2"	3/4"	1"	1-1/2"	2"	3"	4"
L	4.01	4.01	4.01	4.01	4.01	5.12	6.69
W	2.76	2.76	2.76	2.76	2.76	4.33	4.52
Н	2.76	3.01	3.29	3.98	4.43	5.47	6.97
H1	1.14	1.38	1.54	2.17	2.60	3.35	4.33
H2	3.54	3.54	3.54	3.54	3.54	4.72	4.80
Model	S20	S20	S20	S20	S20	S50	S110

Weight (lbs)

Size	1/2"	3/4"	1"	1-1/2"	2"	3"	4"
Weight	2.9	3.4	4.1	6.48	8.1	19.4	40.9

Engineering Data

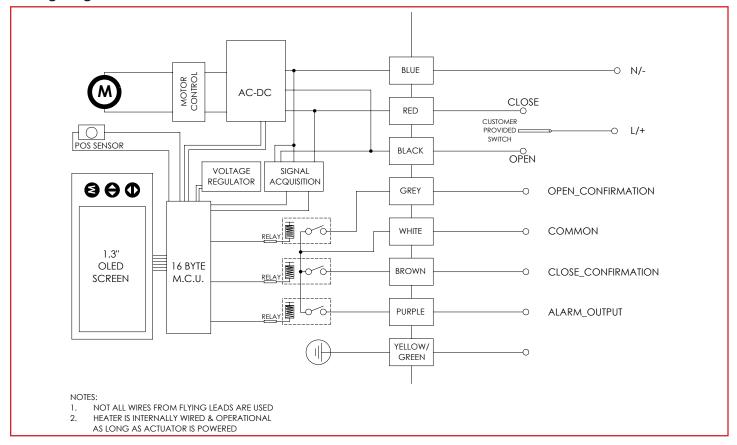
	_	95-265 VAC 24 VAC/VDC		Cycle time			
Model	Torque (in-lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	per 180 degrees (seconds)*	
S20	177	0.18	75%	0.96	75%	20	
S50	442	0.24	75%	1.20	75%	20	
S110	973	0.84	75%	4.80	75%	20	

Amp draw is considered locked rotor

^{*}Cycle times are approximate

TYPE-23 MULTIPORT® BALL VALVE WITH SERIES 19 SMART ON/OFF ELECTRIC ACTUATOR

Wiring Diagram



Sample Specifications

All Series 19 SAV smart on/off electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Standard features shall include a heater, one set of dry contacts for PLC confirmation, one set of dry contacts for alarm reporting, LED indicator for position and alarm conditions, an OLED screen with push buttons, local controls, and a QR code that links to its user manual and wiring schematic.

Series 19 Actuator Selection Guide

Valve	Valve Size	C20	S20	S50	S110
Omni® Type-27 Ball Valves	3/8" - 2"	Х			
	1/2" - 2"	Х	Х		
Type-21/21a SST Ball Valves	2-1/2" - 3"			Х	
24 74.1755	4"				Х
T 00	1/2" - 2"	Х	Х		
Type-23 Multiport® Valves	3"			Х	
ividiaport valves	4"				Х
	1-1/2" - 2-1/2"		Х		
Type-57P Butterfly Valves	3" - 4"			Х	
, value	5" - 6"				Х



TYPE-57P BUTTERFLY VALVE WITH SERIES 19 SMART ON/OFF ELECTRIC ACTUATOR





Standard Features (Sizes 1-1/2" - 6")

- Compact: Perfect for OEM and skid manufacturers
- OLED Screen: Displays valve position, alarms (such as an over torque condition)
- Push Buttons: Used to calibrate/adjust end positions, local controls
- Multi-voltage: 95 VAC to 265 VAC or 24 VAC/VDC
- Motor: Reversing, brushless DC motor
- Gear Train: Permanently lubricated steel gears
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- **ISO** mounting configuration
- **Electrical Connection:** NEMA 4X cable gland with two-meter cable
- Position Indication: Highly visible beacon position indicator
- **LED Position Indication:** RED closed, GREEN open, BLUE fault
- Manual Override: Manually cycle valve via electroless nickel-plated hex key
- Auxiliary Contacts: Open and closed dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC
- Alarm Contacts: Dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC for alarm status (over torque, as an example)
- Space Heater: Internally wired to limit condensation
- CE Compliant: All actuators are CE labeled and compliant
- 75% Duty Cycle: Extended duty cycle is ideal for high cycling applications
- Output Torque: Series 19 electric actuators have an output torque range from 177 in-lbs to 973 in-lbs
- QR Code: Links to user manual; includes wiring schematic
- **Simple Wiring:** Wiring technique is the same for all voltage units
- Local Controls: Used with OLED and push buttons, a user can locally open or close units via password

Specifications

Motor Type: Reversing, brushless DC

Sizes: S20 for 1-1/2" – 2-1/2" butterfly

valves

S50 for 3" – 4" butterfly valves S110 for 5" – 6" butterfly valves

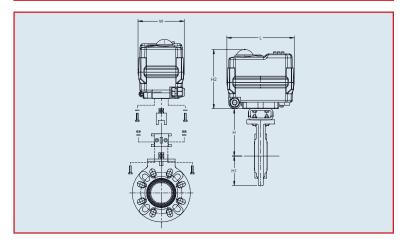
Torque: 177 in-lbs to 973 in-lbs

Voltage: 95 VAC to 265 VAC multi-voltage

Amp Draw: 0.18 Amp for S20

0.24 Amp for S50 0.84 Amp for S110

Max Ambient Temp: 150° F



Dimensions (inch)

Size	1-1/2"	2"	2-1/2"	3"	4"	5"	6"
Н	5.51	5.75	6.18	6.46	7.16	8.46	8.97
H1	2.95	3.27	3.66	3.94	4.53	5.00	5.63
H2	3.54	3.54	3.54	4.72	4.72	4.80	4.80
L	4.01	4.01	4.01	5.12	5.12	6.69	6.69
W	2.76	2.76	2.76	4.33	4.33	4.52	4.52
Model	S20	S20	S20	S50	S50	S110	S110

Weight (lbs)

Size	1-1/2"	2"	2-1/2"	3"	4"	5"	6"
Weight	5.2	5.6	6.1	8.2	9.5	15.9	17.9

Engineering Data

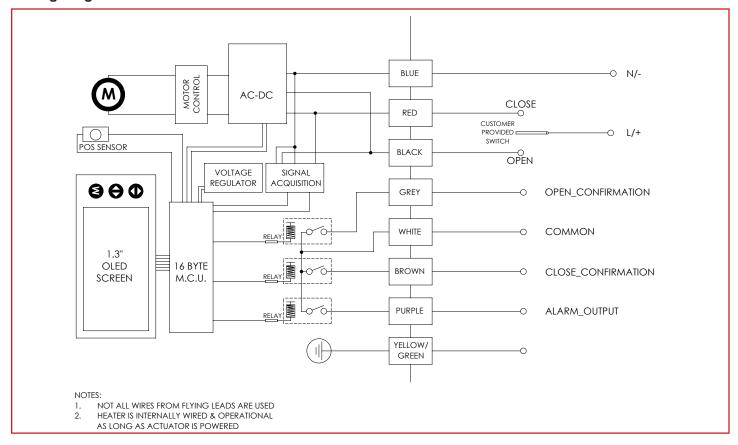
	_	95-265 VAC		24 VA	C/VDC	Cycle time	
Model	Torque (in-lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	per 90 degrees (seconds)*	
S20	177	0.18	75%	0.96	75%	10	
S50	442	0.24	75%	1.20	75%	10	
S110	973	0.84	75%	4.80	75%	10	

Amp draw is considered locked rotor

^{*}Cycle times are approximate

TYPE-57P BUTTERFLY VALVE WITH SERIES 19 SMART ON/OFF ELECTRIC ACTUATOR

Wiring Diagram



Sample Specification

All Series 19 SAV smart on/off electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Standard features shall include a heater, one set of dry contacts for PLC confirmation, one set of dry contacts for alarm reporting, LED indicator for position and alarm conditions, an OLED screen with push buttons, local controls, and a QR code that links to its user manual and wiring schematic.

Series 19 Actuator Selection Guide

Valve	Valve Size	C20	S20	S50	S110
Omni® Type-27 Ball Valves	3/8" - 2"	Х			
	1/2" - 2"	Х	Х		
Type-21/21a SST Ball Valves	2-1/2" - 3"			Х	
Da.: 14:155	4"				Х
T 00	1/2" - 2"		Х		
Type-23 Multiport® Valves	3"			Х	
ividisport valves	4"				Х
	1-1/2" - 2-1/2"	Х	Х		
Type-57P Butterfly Valves	3" - 4"			Х	
,	5" - 6"				Х



SERIES 19 SMART ON/OFF ELECTRIC ACTUATOR



Standard Features (All Sizes)

- **Compact:** Perfect for OEM and skid manufacturers
- **OLED Screen:** Displays valve position, alarms (such as an over torque condition)
- Push Buttons: Used to calibrate/adjust end positions, local controls
- Multi-voltage: 95 VAC to 265 VAC or 24 VAC/VDC
- Motor: Reversing, brushless DC motor
- Gear Train: Permanently lubricated steel gears
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- **ISO** mounting configuration
- Electrical Connection: NEMA 4X cable gland with two-meter cable
- Position Indication: Highly visible beacon position indicator
- LED Position Indication: RED closed, GREEN open, **BLUE** fault
- Manual Override: Manually cycle valve via electroless nickel-plated hex key
- Auxiliary Contacts: Open and closed dry contacts rated 0.1Amp @ 250 VAC, 0.5 Amp @ 30 VDC
- Alarm Contacts: Dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC for alarm status (over torque, as an example)
- **Space Heater:** Internally wired to limit condensation
- CE Compliant: All actuators are CE labeled and
- 75% Duty Cycle: Extended duty cycle is ideal for high cycling applications
- Output Torque: Series 19 electric actuators have an output torque range from 177 in-lbs to 973 in-lbs
- QR Code: Links to user manual; includes wiring schematic
- Simple Wiring: Wiring technique is the same for all voltage units
- Local Controls: Used with OLED and push buttons, a user can locally open or close units via password

Specifications

Sizes: S20, S50, S110 Torque: 177 in-lbs to 973 in-lbs Voltage: 95 VAC to 265 VAC 1 Ph 50/60 Hz

0.18 Amp for S20

Amp Draw: 0.24 Amp for S50

0.84 Amp for S110

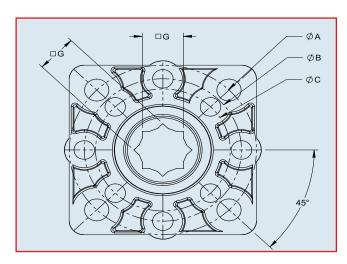
Electrical Connection: NEMA 4X cable gland with

two-meter color-coded cable

Max Ambient Temp: 150° F

Cycle Time: Per 90 degrees: 10 seconds

Enclosure: NEMA 4X



Output Dimensions

Size	Α	В	С	G
S20	F05 (M6)	F04 F03 (M5) (M5)		14MM
S50	F07 (M8)	F05 (M6)	N/A	14MM
S110	F07 (M8)	F05 (M6)	N/A	17MM

Weight (lbs)

Size	Size S20		S110
Weight	1.7	3.5	4.8

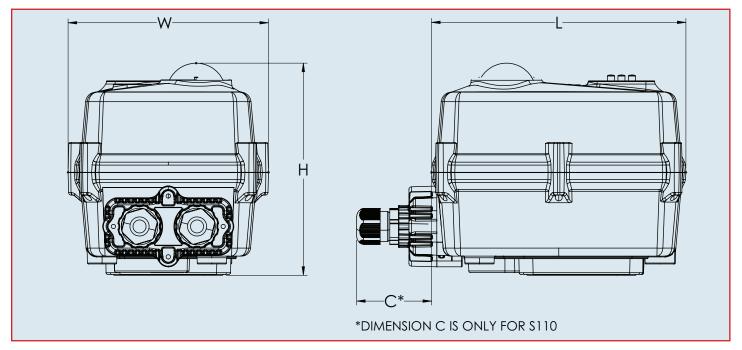
Engineering Data

_	_					
	Torque	95-26	5 VAC	24 VA	C/VDC	Cycle time per 90
Model	(in-lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	degrees (seconds)*
S20	177	0.18	75%	0.96	75%	10
S50	442	0.24	75%	1.20	75%	10
S110	973	0.84	75%	4.80	75%	10

Amp draw is considered locked rotor

^{*}Cycle times are approximate

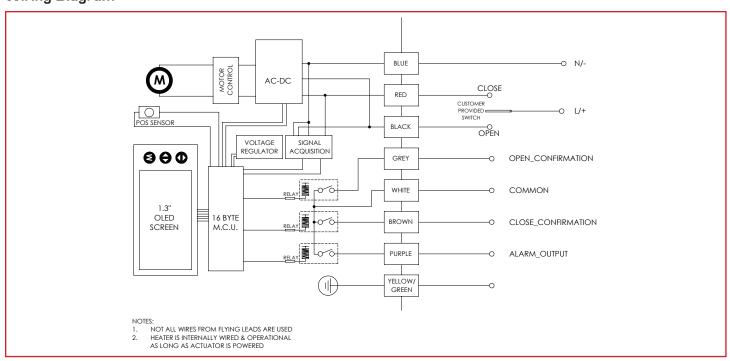
SERIES 19 SMART ON/OFF ELECTRIC ACTUATOR



Dimensions (inch)

Size	L	w	Н	С
S20	4.01	2.76	3.54	N/A
S50	5.13	4.33	4.72	N/A
S110	5.75	4.53	4.80	1.69

Wiring Diagram



Sample Specification

All Series 19 SAV smart on/off electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Standard features shall include a heater, one set of dry contacts for PLC confirmation, one set of dry contacts for alarm reporting, LED indicator for position and alarm conditions, an OLED screen with push buttons, local controls, and a QR code that links to its user manual and wiring schematic.

TYPE-21/21a BALL VALVE WITH SMART FAILSAFE ELECTRIC ACTUATOR





Standard Features (1/2" - 4")

- **Compact:** Perfect for OEM and skid manufacturers
- **OLED Screen:** Displays valve position, alarms
- Push Buttons: Used to calibrate/adjust end positions, local controls
- Multi-voltage: 95 VAC to 265 VAC or 24 VAC/VDC
- Motor: Reversing, brushless DC motor
- Capacitor Discharge System: A capacitor is used in place of batteries for failsafe mode
- Selectable Fail Position: Fail close is standard; fail as is or fail open are options
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- Electrical Connection: NEMA 4X cable gland with two-meter cable
- LED Position Indication: RED closed, GREEN open, BLUE fault.
- Manual Override: Manually cycle valve via electroless nickel-plated hex key
- Auxiliary Contacts: Open and closed dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC
- Alarm Contacts: Dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC for alarm status (over torque, as an example)
- Space Heater: Internally wired to limit condensation
- CE Compliant: All actuators are CE labeled and compliant
- 75% Duty Cycle: Ideal for high cycling applications
- **Output Torque:** Series 19 electric actuators have an output torque range from 177 in-lbs to 442 in-lbs
- QR Code: Links to user manual; includes wiring schematic
- Simple Wiring: Wiring technique is the same for all voltage units
- Local Controls: Used with OLED and push buttons, a user can locally open or close units via password

Specifications

Motor Type: Reversing, brushless DC

Sizes: S20 for 1/2" - 2" ball valves

S50 for 2 1/2" - 3" ball valves

S50 for 2-1/2" – 3" ball valves

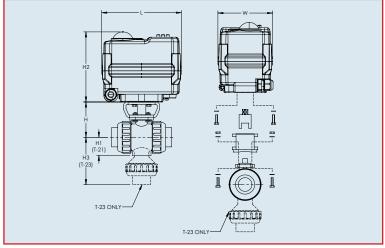
S110 for 4" ball valves 177 in-lbs to 973 in-lbs

Torque: 177 in-lbs to 973 in-lbs **Voltage:** 95 VAC to 265 VAC multi-voltage

Amp Draw: 0.18 Amp for S20

0.24 Amp for S50 0.90 Amp for S110

Max Ambient Temp: 150° F



Dimensions (inch)

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
L	4.01	4.01	4.01	4.01	4.01	4.01	5.12	5.12	6.69
W	2.76	2.76	2.76	2.76	2.76	2.76	4.33	4.33	4.52
Н	2.76	3.01	3.29	3.64	3.98	4.43	5.12	5.47	6.97
H1	1.14	1.38	1.54	1.85	2.17	2.60	2.83	3.35	4.33
H2	3.54	3.54	3.54	3.54	3.54	3.54	4.72	4.72	4.80
Model	S20	S20	S20	S20	S20	S20	S50	S50	S110

Weight (lbs)

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Weight	2.7	2.9	3.4	3.8	4.9	6.7	10.2	13.7	29.6

Engineering Data

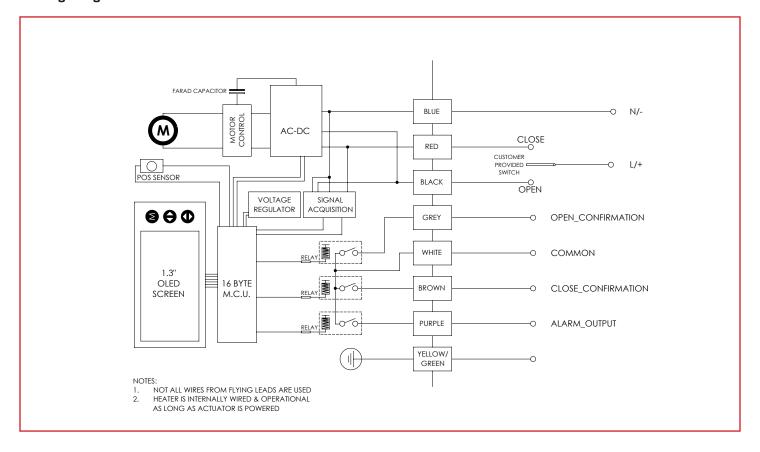
	_	95-265 VAC		24 VA	C/VDC	Cycle time	
Model	Torque (in-lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	per 90 degrees (seconds)*	
S20	177	0.18	75%	0.96	75%	10	
S50	442	0.24	75%	1.20	75%	10	
S110	973	0.90	75%	4.80	75%	10	

Amp draw is considered locked rotor

^{*}Cycle times are approximate

TYPE-21/21a BALL VALVE WITH SMART FAILSAFE ELECTRIC ACTUATOR

Wiring Diagram



Sample Specification

All Series 19 SAV smart failsafe electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Actuator shall be of capacitor discharge design with no batteries, and be selectable as fail as is, fail open, or fail close upon loss of supply power. Standard features shall include a heater, one set of dry contacts for PLC confirmation, field selection of fail position, one set of dry contacts for alarm reporting, LED indicator for position and alarm conditions, an OLED screen with push buttons, local controls, and a QR code that links to its user manual and wiring schematic.

Series 19 Actuator Selection Guide

Valve	Valve Size	C20	S20	S50	S110
Omni® Type-27 Ball Valves	3/8" - 2"	Х			
	1/2" - 2"	Х	Х		
Type-21/21a SST Ball Valves	2-1/2" - 3"			Х	
Bail Valves	4"				Х
T 00	1/2" - 2"	Х	Х		
Type-23 Multiport® Valves	3"			Х	
ividiaport valves	4"				Х
	1-1/2" - 2-1/2"		Х		
Type-57P Butterfly Valves	3" - 4"			Х	
, , , , , , , , , , , , , , , , ,	5" - 6"				Х



TYPE-23 MULTIPORT® BALL VALVE WITH SMART FAILSAFE ELECTRIC ACTUATOR





Standard Features (1/2" - 4")

- Compact: Perfect for OEM and skid manufacturers
- OLED Screen: Displays valve position, alarms
- Push Buttons: Used to calibrate/adjust end positions, local controls
- Multi-voltage: 95 VAC to 265 VAC or 24 VAC/VDC
- Motor: Reversing, brushless DC motor
- Capacitor Discharge System: A capacitor is used in place of batteries for failsafe mode
- Selectable Fail Position: Fail left is standard; fail as is or fail right are options
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- Electrical Connection: NEMA 4X cable gland with two-meter cable
- LED Position Indication: RED closed, GREEN open, BLUE fault.
- Manual Override: Manually cycle valve via electroless nickel-plated hex key
- Auxiliary Contacts: Open and closed dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC
- Alarm Contacts: Dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC for alarm status (over torque, as an example)
- Space Heater: Internally wired to limit condensation
- **CE Compliant:** All actuators are CE labeled and compliant
- 75% Duty Cycle: Ideal for high cycling applications
- **Output Torque:** Series 19 electric actuators have an output torque range from 177 in-lbs to 442 in-lbs
- QR Code: Links to user manual; includes wiring schematic
- Simple Wiring: Wiring technique is the same for all voltage units
- Local Controls: Used with OLED and push buttons, a user can locally open or close units via password

Specifications

Motor Type: Reversing, brushless DC

Sizes: S20 for 1/2" - 2" three-way ball

valves

S50 for 3" three-way ball valves S110 for 4" three-way ball valves

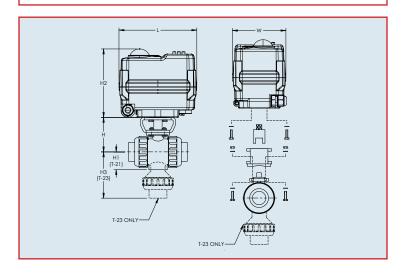
Torque: 177 in-lbs to 973 in-lbs

Voltage: 95 VAC to 265 VAC multi-voltage

Amp Draw: 0.18 Amp for S20 0.24 Amp for S50

0.90 Amp for S110

Max Ambient Temp: 150° F



Dimensions (inch)

Size	1/2"	3/4"	1"	1-1/2"	2"	3"	4"
L	4.01	4.01	4.01	4.01	4.01	5.12	6.69
W	2.76	2.76	2.76	2.76	2.76	4.33	4.52
Н	2.76	3.01	3.29	3.98	4.43	5.47	6.97
H1	1.14	1.38	1.54	2.17	2.60	3.35	4.33
H2	3.54	3.54	3.54	3.54	3.54	4.72	4.80
Model	S20	S20	S20	S20	S20	S50	S110

Weight (lbs)

Size	1/2"	3/4"	1"	1-1/2"	2"	3"	4"
Weight	2.9	3.4	4.1	6.48	8.1	19.4	40.9

Engineering Data

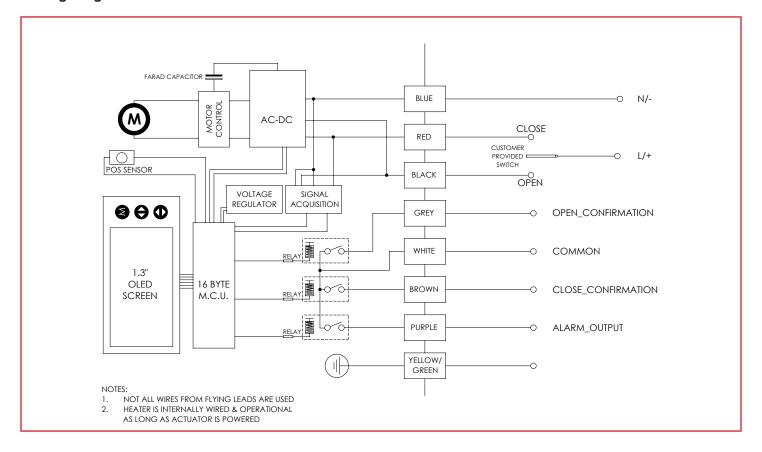
	_	95-265 VAC		24 VAC/VDC		Cycle time	
Model	Torque (in-lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	per 90 degrees (seconds)*	
S20	177	0.18	75%	0.96	75%	10	
S50	442	0.24	75%	1.20	75%	10	
S110	973	0.90	75%	4.80	75%	10	

Amp draw is considered locked rotor

^{*}Cycle times are approximate

TYPE-23 MULTIPORT® BALL VALVE WITH SMART FAILSAFE ELECTRIC ACTUATOR

Wiring Diagram



Sample Specification

All Series 19 SAV smart failsafe electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Actuator shall be of capacitor discharge design with no batteries, and be selectable as fail as is, fail open, or fail close upon loss of supply power. Standard features shall include a heater, one set of dry contacts for PLC confirmation, field selection of fail position, one set of dry contacts for alarm reporting, LED indicator for position and alarm conditions, an OLED screen with push buttons, local controls, and a QR code that links to its user manual and wiring schematic.

Series 19 Actuator Selection Guide

Valve	Valve Size	C20	S20	S50	S110
Omni® Type-27 Ball Valves	3/8" - 2"	Х			
	1/2" - 2"	Χ	Х		
Type-21/21a SST Ball Valves	2-1/2" - 3"			Х	
Ball Valvos	4"				Х
T 00	1/2" - 2"	Х	Х		
Type-23 Multiport® Valves	3"			Х	
ividisport valves	4"				Х
	1-1/2" - 2-1/2"		Х		
Type-57P Butterfly Valves	3" - 4"			Х	
,	5" - 6"				Х



TYPE-57P BUTTERFLY VALVE WITH SMART FAILSAFE ELECTRIC ACTUATOR





Standard Features (1-1/2" - 6")

- Compact: Perfect for OEM and skid manufacturers
- OLED Screen: Displays valve position, alarms
- Push Buttons: Used to calibrate/adjust end positions, local controls
- Multi-voltage: 95 VAC to 265 VAC or 24 VAC/VDC
- Motor: Reversing, brushless DC motor
- Capacitor Discharge System: A capacitor is used in place of batteries for failsafe mode
- Selectable Fail Position: Fail close is standard; fail as is or fail open are options
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- Electrical Connection: NEMA 4X cable gland with two-meter cable
- LED Position Indication: RED closed, GREEN open, BLUE fault
- Manual Override: Manually cycle valve via electroless nickel-plated hex key
- Auxiliary Contacts: Open and closed dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC
- Alarm Contacts: Dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC for alarm status (over torque, as an example)
- Space Heater: Internally wired to limit condensation
- CE Compliant: All actuators are CE labeled and compliant
- 75% Duty Cycle: Ideal for high cycling applications
- Output Torque: Series 19 electric actuators have an output torque range from 177 in-lbs to 442 in-lbs
- QR Code: Links to user manual; includes wiring schematic
- Simple Wiring: Wiring technique is the same for all voltage units
- Local Controls: Used with OLED and push buttons, a user can locally open or close units via password

Specifications

Motor Type: Reversing, brushless DC

Sizes: S20 for 1-1/2" – 2-1/2" butterfly

valves

S50 for 3" - 4" butterfly valves S110 for 6" butterfly valves

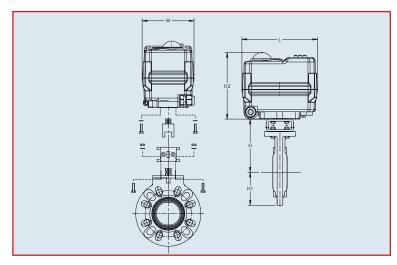
Torque: 177 in-lbs to 973 in-lbs

Voltage: 95 VAC to 265 VAC multi-voltage
Amp Draw: 0.18 Amp for S20

0.24 Amp for S50

0.90 Amp for S110

Max Ambient Temp: 150° F



Dimensions (inch)

Size	1-1/2"	2"	2-1/2"	3"	4"	5"	6"
Н	5.51	5.75	6.18	6.46	7.16	8.46	8.97
H1	2.95	3.27	3.66	3.94	4.53	5.00	5.63
H2	3.54	3.54	3.54	4.72	4.72	4.80	4.80
L	4.01	4.01	4.01	5.12	5.12	6.69	6.69
W	2.76	2.76	2.76	4.33	4.33	4.52	4.52
Model	S20	S20	S20	S50	S50	S110	S110

Weight (lbs)

Size	1-1/2"	2"	2-1/2"	3"	4"	5"	6"
Weight	5.2	5.6	6.1	8.2	9.5	15.9	17.9

Engineering Data

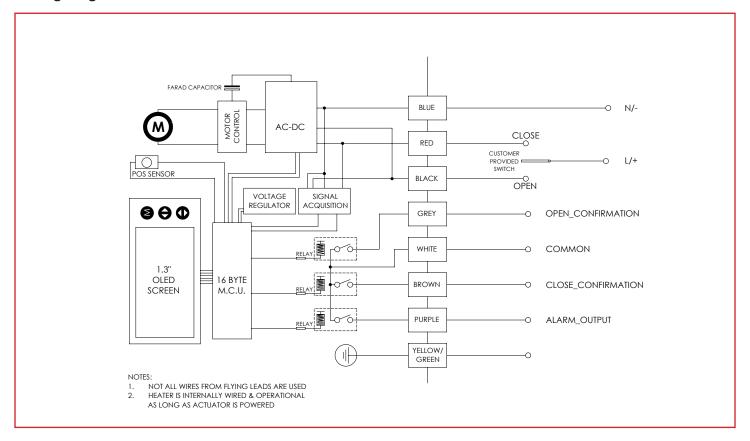
	_	95-265 VAC		24 VA	C/VDC	Cycle time	
Model	Torque (in-lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	per 90 degrees (seconds)*	
S20	177	0.18	75%	0.96	75%	10	
S50	442	0.24	75%	1.20	75%	10	
S110	973	0.90	75%	4.80	75%	10	

Amp draw is considered locked rotor

*Cycle times are approximate

TYPE-57P BUTTERFLY VALVE WITH SMART FAILSAFE ELECTRIC ACTUATOR

Wiring Diagram



Sample Specification

All Series 19 SAV smart failsafe electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Actuator shall be of capacitor discharge design with no batteries, and be selectable as fail as is, fail open, or fail close upon loss of supply power. Standard features shall include a heater, one set of dry contacts for PLC confirmation, field selection of fail position, one set of dry contacts for alarm reporting, LED indicator for position and alarm conditions, an OLED screen with push buttons, local controls, and a QR code that links to its user manual and wiring schematic.

Series 19 Actuator Selection Guide

Valve	Valve Size	C20	S20	S50	S110
Omni® Type-27 Ball Valves	3/8" - 2"	Х			
	1/2" - 2"	Х	Х		
Type-21/21a SST Ball Valves	2-1/2" - 3"			Х	
San Vanes	4"				Х
T 00	1/2" - 2"	Х	Х		
Type-23 Multiport® Valves	3"			Х	
ividiaport valves	4"				Х
	1-1/2" - 2-1/2"		Х		
Type-57P Butterfly Valves	3" - 4"			Х	
,	5" - 6"				Х



SERIES 19 SMART FAILSAFE ELECTRIC ACTUATOR



Standard Features (All Sizes)

- Compact: Perfect for OEM and skid manufacturers
- **OLED Screen:** Displays valve position, alarms (such as an over torque condition)
- Push Buttons: Used to calibrate/adjust end positions, local controls
- Multi-voltage: 95 VAC to 265 VAC or 24 VAC/VDC
- Motor: Reversing, brushless DC motor
- Capacitor Discharge System: A capacitor is used in place of batteries for failsafe mode
- Selectable Fail Position: Fail close is standard; fail as is or fail open are options
- Gear Train: Permanently lubricated steel gears
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- **ISO** mounting configuration
- Electrical Connection: NEMA 4X cable gland with two-meter cable
- Position Indication: Highly visible beacon position indicator
- **LED Position Indication:** RED closed, GREEN open, BLUE fault
- Manual Override: Manually cycle valve via electroless nickel-plated hex key
- Auxiliary Contacts: Open and closed dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC
- Alarm Contacts: Dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC for alarm status (over torque, as an example)
- Space Heater: Internally wired to limit condensation
- CE Compliant: All actuators are CE labeled and compliant
- 75% Duty Cycle: Extended duty cycle is ideal for high cycling applications
- Output Torque: Series 19 electric actuators have an output torque range from 177 in-lbs to 442 in-lbs
- QR Code: Links to user manual; includes wiring schematic
- Simple Wiring: Wiring technique is the same for all voltage units
- Local Controls: Used with OLED and push buttons, a user can locally open or close units via password

Specifications

 Sizes:
 \$20FS, \$50FS, \$110FS

 Torque:
 177 in-lbs to 973 in-lbs

Voltage: 95 VAC to 265 VAC 1 Ph 50/60 Hz

Amp Draw: 0.18 Amp for S20 0.24 Amp for S50

0.90 Amp for \$110

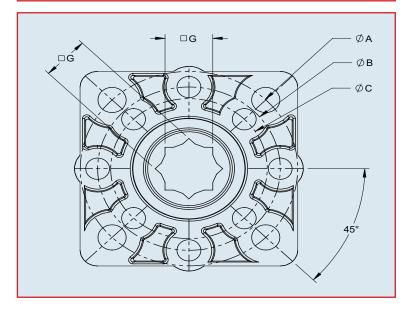
Electrical Connection: NEMA 4X cable gland with two-meter

color coded-cable

Max Ambient Temp: 150° F

Cycle Time per: Per 90 degrees: 10 seconds

Enclosure: NEMA 4X



Output Dimensions

Size	Α	В	С	G
S20	F05 (M6)	FO4 (M5)	F03 (M5)	14MM
S50	F07 (M8)	F05 (M6)	N/A	14MM
S110	F07 (M8)	F05 (M6)	N/A	17MM

Weight (lbs)

Size	S20	S50	S110	
Weight	1.7	3.5	4.8	

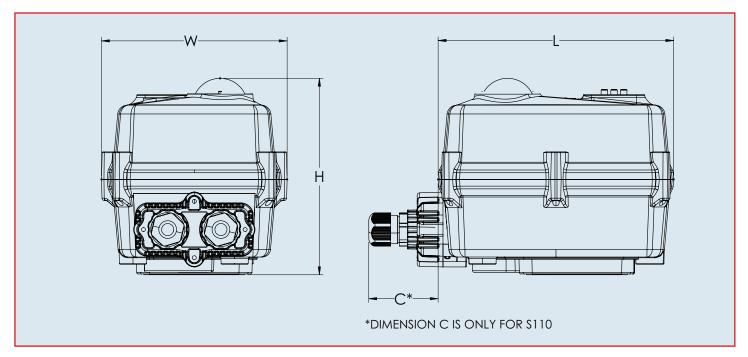
Engineering Data

	Torque	95-26	5 VAC	24 VA	C/VDC	Cycle time per 90	
Model	(in-lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	degrees (seconds)*	
S20FS	177	0.18	75%	0.96	75%	10	
S50FS	442	0.24	75%	1.20	75%	10	
S110FS	973	0.90	75%	4.80	75%	10	

Amp draw is considered locked rotor

^{*}Cvcle times are approximate

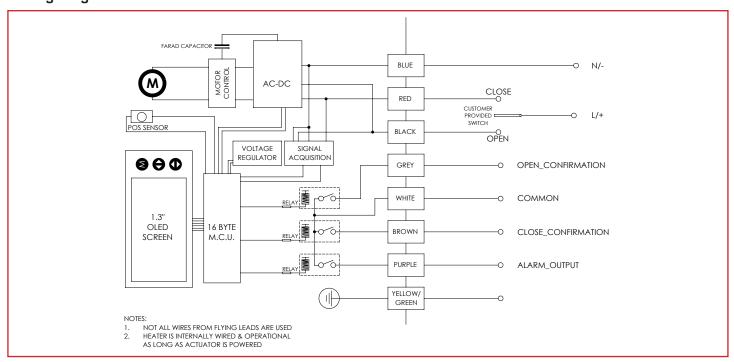
SERIES 19 SMART FAILSAFE ELECTRIC ACTUATOR



Dimensions (inch)

Size	L	W	Н	С
S20	4.01	2.76	3.54	N/A
S50	5.13	4.33	4.72	N/A
S110	5.75	4.53	4.80	1.69

Wiring Diagram



Sample Specification

All Series 19 SAV smart failsafe electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Actuator shall be of capacitor discharge design with no batteries, and be selectable as fail as is, fail open, or fail close upon loss of supply power. Standard features shall include a heater, one set of dry contacts for PLC confirmation, field selection of fail position, one set of dry contacts for alarm reporting, LED indicator for position and alarm conditions, an OLED screen with push buttons, local controls, and a QR code that links to its user manual and wiring schematic.

TYPE-21/21a BALL VALVE WITH SERIES 19 SMART MODULATING ELECTRIC ACTUATOR





Standard Features (1/2" - 4")

- Compact: Perfect for OEM and skid manufacturers•
- OLED Screen: Displays input command, position status, alert conditions
- Push Buttons: Used to calibrate/adjust end positions, local controls
- Multi-voltage: 95 VAC to 265 VAC or 24 VAC/VDC
- Motor: Reversing, brushless DC motor
- Gear Train: Permanently lubricated steel gears
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- **ISO** mounting configuration
- Electrical Connection: NEMA 4X cable gland with twometer cable
- Position Indication: Highly visible beacon position indicator
- LED Alarm Indication: RED closed, GREEN open, BLUE fault
- Manual Override: Manually cycle valve via electroless nickel-plated hex key
- Selectable Control Signal: User can select 4-20 mA, 0-20 mA, 0-10 VDC, 2-10 VDC, or 1-5 VDC (size 20 is specifically a current control signal or a voltage control signal)
- Reverse Acting: User can select standard operation or reverse acting
- Selectable Fail Position: If control signal is lost, the unit can be calibrated to fail as is, fail open, or fail close
- Transmitter: Current or voltage transmitter (matching the control signal) is standard equipment
- Alarm Contacts: Dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC for alarm status (over torque, as an example)
- Space Heater: Internally wired to limit condensation
- CE Compliant: All actuators are CE labeled and compliant
- 75% Duty Cycle: Extended duty cycle is ideal for high cycling/modulating applications
- Output Torque: Series 19 electric actuators have an output torque range from 177 in-lbs to 973 in-lbs
- QR Code: Links to user manual; includes wiring schematic
- Simple Wiring: Wiring technique is the same for all voltage units
- Local Controls: Used with OLED and push buttons, a user can locally open or close units via password

Specifications

Motor Type: Reversing, brushless DC

Sizes: S20 for 1/2" - 2" ball valves

S50 for 2-1/2" - 3" ball valves

S50 for 2-1/2" - 3" ball va S110 for 4" ball valves

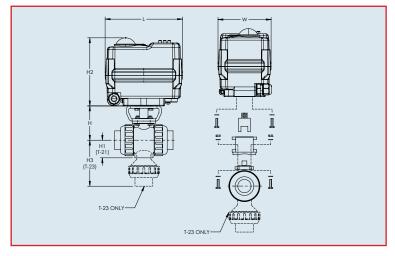
Torque: 177 in-lbs to 973 in-lbs

Voltage: 95 VAC to 265 VAC multi-voltage

Amp Draw: 0.18 Amp for S20 0.24 Amp for S50

0.84 Amp for S110

Max Ambient Temp: 150° F



Dimensions (inch)

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
L	4.01	4.01	4.01	4.01	4.01	4.01	5.12	5.12	6.69
W	2.76	2.76	2.76	2.76	2.76	2.76	4.33	4.33	4.52
Н	2.76	3.01	3.29	3.64	3.98	4.43	5.12	5.47	6.97
H1	1.14	1.38	1.54	1.85	2.17	2.60	2.83	3.35	4.33
H2	3.54	3.54	3.54	3.54	3.54	3.54	4.72	4.72	4.80
Model	S20	S20	S20	S20	S20	S20	S50	S50	S110

Weight (lbs)

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Weight	2.7	2.9	3.4	3.8	4.9	6.7	10.2	13.7	29.6

Engineering Data

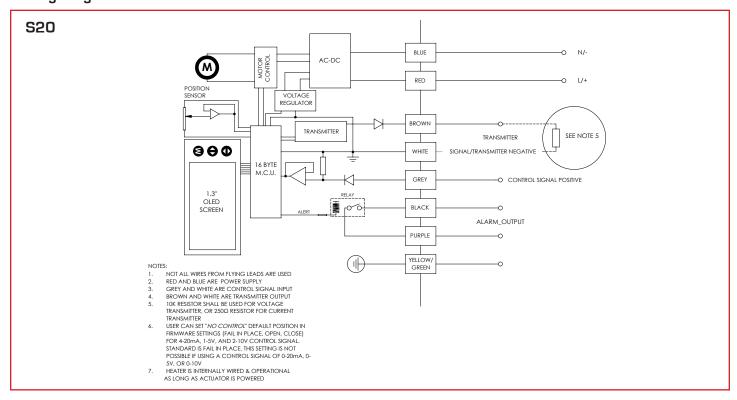
	_	95-26	5 VAC	24 VA	C/VDC	Cycle time
Model	Torque (in-lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	per 90 degrees (seconds)*
S20	177	0.18	75%	0.96	75%	10
S50	442	0.24	75%	1.20	75%	10
S110	973	0.84	75%	4.80	75%	10

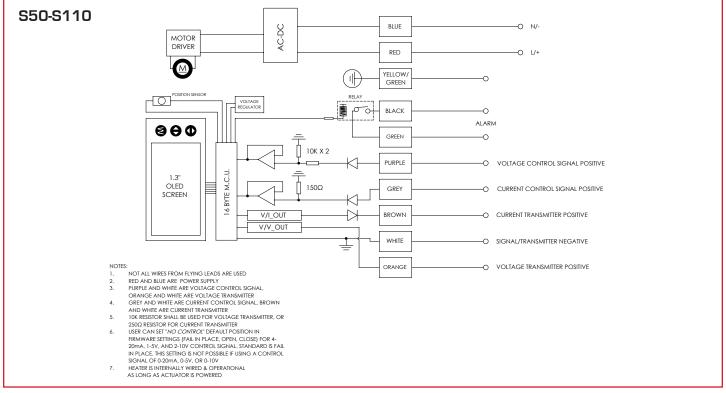
Amp draw is considered locked rotor

^{*}Cycle times are approximate

TYPE-21/21a BALL VALVE WITH SERIES 19 SMART MODULATING ELECTRIC ACTUATOR

Wiring Diagrams





Sample Specification

All Series 19 SAV smart modulating electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Standard features shall include a heater, transmitter, field selection of various control signals, field selection of fail position (upon loss of command signal), one set of dry contacts for alarm reporting, LED indicator for alarm conditions, an OLED screen with push buttons, local controls, and a QR code that links to its user manual and wiring schematic.

TYPE-21a SST BALL VALVE WITH SERIES 19 SMART MODULATING ELECTRIC ACTUATOR





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

- Compact: Perfect for OEM and skid manufacturers
- OLED Screen: Displays input command, position status, alert conditions
- Push Buttons: Used to calibrate/adjust end positions, local controls
- Multi-voltage: 95 VAC to 265 VAC or 24 VAC/VDC
- Motor: Reversing, brushless DC motor
- Gear Train: Permanently lubricated steel gears
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- **ISO** mounting configuration
- Electrical Connection: NEMA 4X cable gland with twometer cable
- Position Indication: Highly visible beacon position indicator
- LED Alarm Indication: RED closed, GREEN open, BLUE fault
- Manual Override: Manually cycle valve via electroless nickel-plated hex key
- Control Signal: Size 20 is specifically a current control signal or a voltage control signal and must be specified at the time of order
- Reverse Acting: User can select standard operation or reverse acting
- Selectable Fail Position: If control signal is lost, the unit can be calibrated to fail as is, fail open, or fail close
- **Transmitter**: Current or voltage transmitter (matching the control signal) is standard equipment
- Alarm Contacts: Dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC for alarm status (over torque, as an example)
- Space Heater: Internally wired to limit condensation
- CE Compliant: All actuators are CE labeled and compliant
- 75% Duty Cycle: Extended duty cycle is ideal for high cycling/modulating applications
- Output Torque: Series 19 electric actuators have an output torque range from 177 in-lbs to 973 in-lbs
- QR Code: Links to user manual; includes wiring schematic
- Simple Wiring: Wiring technique is the same for all voltage units
- Local Controls: Used with OLED and push buttons, a user can locally open or close units via password

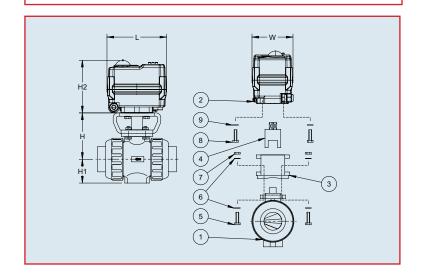
Specifications

Motor Type: Reversing, brushless DC
Size: S20 for 1/2" - 2" ball valves

Torque: 177 in-lbs

Voltage: 95 VAC to 265 VAC multi-voltage

Amp Draw: 0.18 Amp
Max Ambient Temp: 150° F



Dimensions (inch)

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
L	4.01	4.01	4.01	4.01	4.01	4.01
W	2.76	2.76	2.76	2.76	2.76	2.76
Н	2.76	3.01	3.29	3.64	3.98	4.43
H1	1.14	1.38	1.54	1.85	2.17	2.60
H2	3.54	3.54	3.54	3.54	3.54	3.54
Model	S20	S20	S20	S20	S20	S20

Weight (lbs)

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Weight	2.7	2.9	3.4	3.8	4.9	6.7

Engineering Data

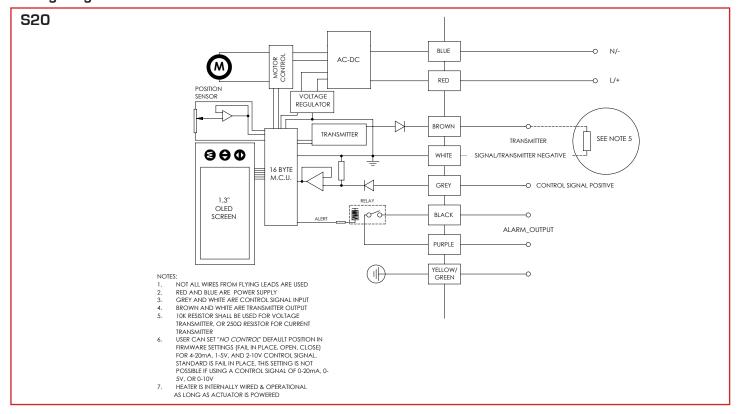
	_	95-26	5 VAC	24 VA	C/VDC	Cycle time
Model	Torque (in-lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	per 90 degrees (seconds)*
S20	177	0.18	75%	0.96	75%	10

Amp draw is considered locked rotor

^{*}Cycle times are approximate

TYPE-21a SST BALL VALVE WITH SERIES 19 SMART MODULATING ELECTRIC ACTUATOR

Wiring Diagrams



Sample Specification

All Series 19 SAV smart modulating electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Standard features shall include a heater, transmitter, field selection of fail position (upon loss of command signal), one set of dry contacts for alarm reporting, LED indicator for alarm conditions, an OLED screen with push buttons, local controls, and a QR code that links to its user manual and wiring schematic.

Series 19 Actuator Selection Guide

Valve	Valve Size	C20	S20	S50	S110
Omni® Type-27 Ball Valves	3/8" - 2"	Х			
	1/2" - 2"	Х	Х		
Type-21/21a SST Ball Valves	2-1/2" - 3"			Х	
Dan Yantoo	4"				Х
T 00	1/2"-2"	Х	Х		
Type-23 Multiport® Valves	3"			Х	
ividiaport valves	4"				Х
	1-1/2" - 2-1/2"		Х		
Type-57P Butterfly Valves	3" - 4"			Х	
,	5" - 6"				Х



TYPE-23 MULTIPORT® BALL VALVE WITH SMART MODULATING ELECTRIC ACTUATOR





Standard Features (1/2" - 4")

- Compact: Perfect for OEM and skid manufacturers
- OLED Screen: Displays input command, position status, alert conditions
- Push Buttons: Used to calibrate/adjust end positions, local controls
- Multi-voltage: 95 VAC to 265 VAC or 24 VAC/VDC
- Motor: Reversing, brushless DC motor
- Gear Train: Permanently lubricated steel gears
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- ISO mounting configuration
- Electrical Connection: NEMA 4X cable gland with two-meter cable
- Position Indication: Highly visible beacon position indicator
- LED Alarm Indication: RED closed, GREEN open, BLUE fault
- **Manual Override:** Manually cycle valve via electroless nickel-plated hex key
- Selectable Control Signal: User can select 4-20 mA, 0-20 mA, 0-10 VDC, 2-10 VDC, or 1-5 VDC (size 20 is specifically a current control signal or a voltage control signal)
- Reverse Acting: User can select standard operation or reverse acting
- Selectable Fail Position: If control signal is lost, the unit can be calibrated to fail as is, fail left, or fail right
- Transmitter: Current or voltage transmitter (matching the control signal) is standard equipment
- Alarm Contacts: Dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC for alarm status (over torque, as an example)
- Space Heater: Internally wired to limit condensation
- CE Compliant: All actuators are CE labeled and compliant
- **75% Duty Cycle**: Extended duty cycle is ideal for high cycling/modulating applications
- Output Torque: Series 19 electric actuators have an output torque range from 177 in-lbs to 973 in-lbs
- QR Code: Links to user manual; includes wiring schematic
- Simple Wiring: Wiring technique is the same for all voltage units
- Local Controls: Used with OLED and push buttons, a user can locally open or close units via password

Specifications

Motor Type: Reversing, brushless DC

Sizes: S20 for 1/2" - 2" three-way ball

valves

S50 for 3" three-way ball valves S110 for 4" three-way ball valves

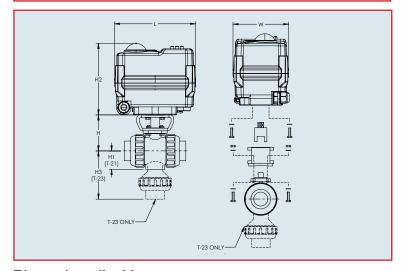
Torque: 177 in-lbs to 973 in-lbs

Voltage: 95 VAC to 265 VAC multi-voltage

Amp Draw: 0.18 Amp for S20

0.24 Amp for S50 0.84 Amp for S110

Max Ambient Temp: 150° F



Dimensions (inch)

Size	1/2"	3/4"	1"	1-1/2"	2"	3"	4"
L	4.01	4.01	4.01	4.01	4.01	5.12	6.69
W	2.76	2.76	2.76	2.76	2.76	4.33	4.52
Н	2.76	3.01	3.29	3.98	4.43	5.47	6.97
H1	1.14	1.38	1.54	2.17	2.60	3.35	4.33
H2	3.54	3.54	3.54	3.54	3.54	4.72	4.80
Model	S20	S20	S20	S20	S20	S50	S110

Weight (lbs)

Size	1/2"	3/4"	1"	1-1/2"	2"	3"	4"
Weight	2.9	3.4	4.1	6.48	8.1	19.4	40.9

Engineering Data

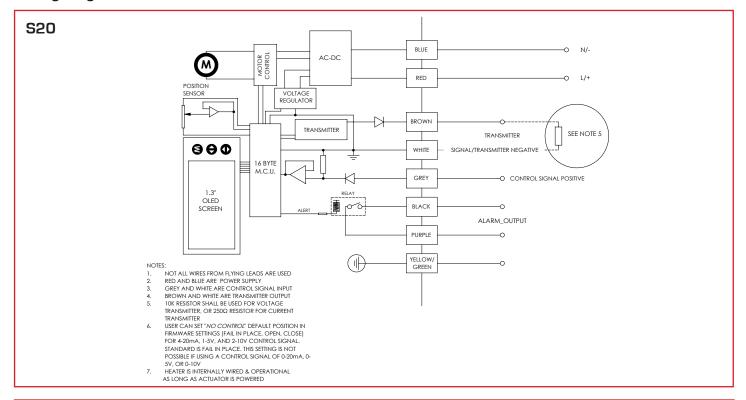
	_	95-265 VAC		24 VAC/VDC		Cycle time
Model	Torque (in-lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	per 180 degrees (seconds)*
S20	177	0.18	75%	0.96	75%	10
S50	442	0.24	75%	1.20	75%	10
S110	973	0.84	75%	4.80	75%	10

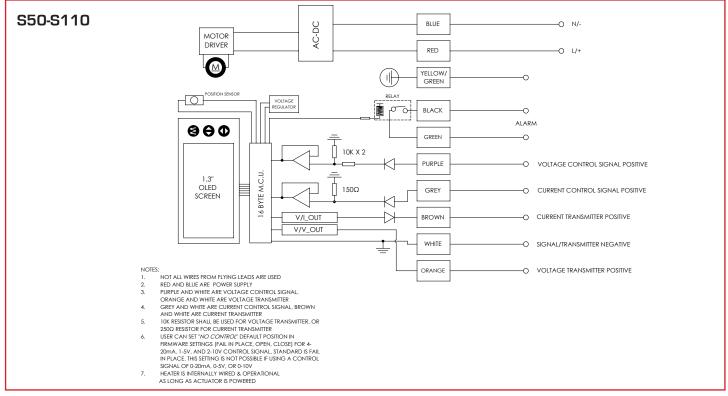
Amp draw is considered locked rotor

*Cycle times are approximate

TYPE-23 MULTIPORT® BALL VALVE WITH SMART MODULATING ELECTRIC ACTUATOR

Wiring Diagrams





Sample Specification

All Series 19 SAV smart modulating electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Standard features shall include a heater, transmitter, field selection of various control signals, field selection of fail position (upon loss of command signal), one set of dry contacts for alarm reporting, LED indicator for alarm conditions, an OLED screen with push buttons, local controls, and a QR code that links to its user manual and wiring schematic.

TYPE-57P BUTTERFLY VALVE WITH SERIES 19 SMART MODULATING ELECTRIC ACTUATOR





Standard Features (Sizes 1-1/2" - 6")

- Compact: Perfect for OEM and skid manufacturers
- **OLED Screen:** Displays input command, position status, alert conditions
- Push Buttons: Used to calibrate/adjust end positions, local controls
- Multi-voltage: 95 VAC to 265 VAC or 24 VAC/VDC
- Motor: Reversing, brushless DC motor
- Gear Train: Permanently lubricated steel gears
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- **ISO** mounting configuration
- Electrical Connection: NEMA 4X cable gland with twometer cable
- Position Indication: Highly visible beacon position indicator
- LED Alarm Indication: RED closed, GREEN open, BLUE fault
- Manual Override: Manually cycle valve via electroless nickel-plated hex key
- Selectable Control Signal: User can select 4-20 mA, 0-20 mA, 0-10 VDC, 2-10 VDC, or 1-5 VDC (size 20 is specifically a current control signal or a voltage control signal)
- Reverse Acting: User can select standard operation or reverse acting
- Selectable Fail Position: If control signal is lost, the unit can be calibrated to fail as is, fail open, or fail close
- Transmitter: Current or voltage transmitter (matching the control signal) is standard equipment
- Alarm Contacts: Dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC for alarm status (over torque, as an example)
- Space Heater: Internally wired to limit condensation
- CE Compliant: All actuators are CE labeled and compliant.
- 75% Duty Cycle: Extended duty cycle is ideal for high cycling/modulating applications
- Output Torque: Series 19 electric actuators have an output torque range from 177 in-lbs to 973 in-lbs
- **QR Code:** Links to user manual; includes wiring schematic
- Simple Wiring: Wiring technique is the same for all voltage units
- Local Controls: Used with OLED and push buttons, a user can locally open or close units via password

Specifications

Motor Type: Reversing, brushless DC

Sizes: S20 for 1-1/2" – 2-1/2" butterfly valves

S50 for 3" - 4" butterfly valves S110 for 5" - 6" butterfly valves

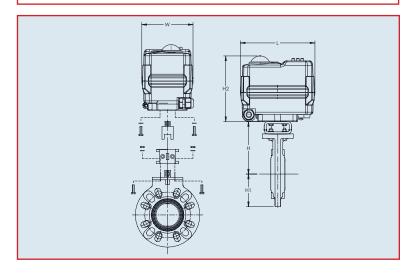
Torque: 177 in-lbs to 973 in-lbs

Voltage: 95 VAC to 265 VAC multi-voltage

Amp Draw: 0.18 Amp for S20 0.24 Amp for S50

0.84 Amp for S110

Max Ambient Temp: 150° F



Dimensions (inch)

Size	1-1/2"	2"	2-1/2"	3"	4"	5"	6"
Н	5.51	5.75	6.18	6.46	7.16	8.46	8.97
H1	2.95	3.27	3.66	3.94	4.53	5.00	5.63
H2	3.54	3.54	3.54	4.72	4.72	4.80	4.80
L	4.01	4.01	4.01	5.12	5.12	6.69	6.69
W	2.76	2.76	2.76	4.33	4.33	4.52	4.52
Model	S20	S20	S20	S50	S50	S110	S110

Weight (lbs)

Size	1-1/2"	2"	2-1/2"	3"	4"	5"	6"
Weight	5.2	5.6	6.1	8.2	9.5	15.9	17.9

Engineering Data

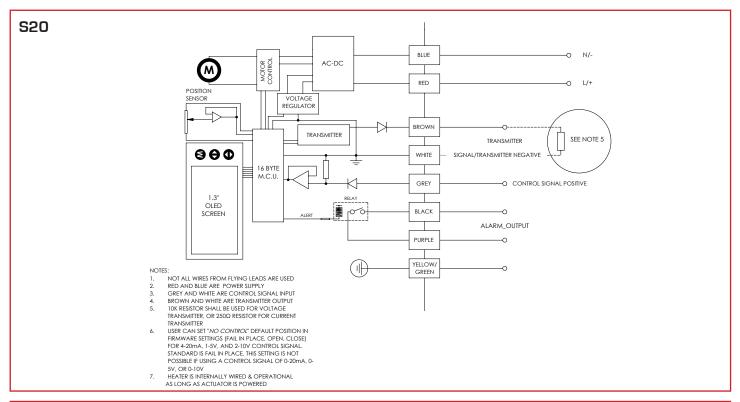
	_	95-265 VAC		24 VA	C/VDC	Cycle time
Model	Torque (in-lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	per 90 degrees (seconds)*
S20	177	0.18	75%	0.96	75%	10
S50	442	0.24	75%	1.20	75%	10
S110	973	0.84	75%	4.80	75%	10

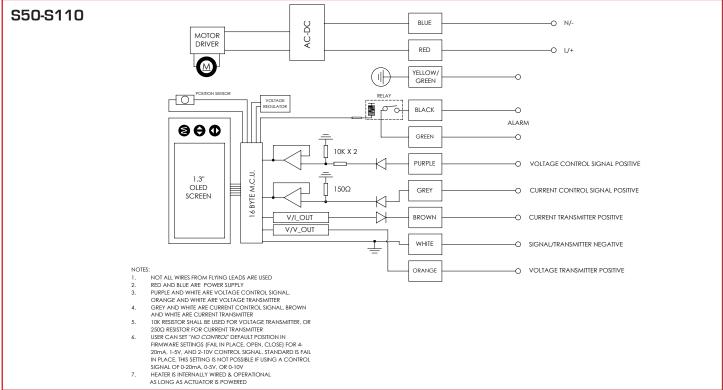
Amp draw is considered locked rotor

*Cycle times are approximate

TYPE-57P BUTTERFLY VALVE WITH SERIES 19 SMART MODULATING ELECTRIC ACTUATOR

Wiring Diagrams





Sample Specification

All Series 19 SAV smart modulating electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Standard features shall include a heater, transmitter, field selection of various control signals, field selection of fail position (upon loss of command signal), one set of dry contacts for alarm reporting, LED indicator for alarm conditions, an OLED screen with push buttons, local controls, and a QR code that links to its user manual and wiring schematic.

SERIES 19 SMART MODULATING ELECTRIC ACTUATOR



Standard Features (All Sizes)

- Compact: Perfect for OEM and skid manufacturers
- OLED Screen: Displays input command, position status, alert conditions
- Push Buttons: Used to calibrate/adjust end positions, local controls
- Multi-voltage: 95 VAC to 265 VAC or 24 VAC/VDC
- Motor: Reversing, brushless DC motor
- Gear Train: Permanently lubricated steel gears
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- **ISO** mounting configuration
- Electrical Connection: NEMA 4X cable gland with twometer cable
- Position Indication: Highly visible beacon position indicator
- LED Fault: RED closed, GREEN open, BLUE
- **Manual Override:** Manually cycle valve via electroless nickel-plated hex key
- Selectable Control Signal: User can select 4-20 mA, 0-20 mA, 0-10 VDC, 2-10 VDC, or 1-5 VDC (size 20 is specifically a current control signal or a voltage control signal)
- Reverse Acting: User can select standard operation or reverse acting
- Selectable Fail Position: If control signal is lost, the unit can be calibrated to fail as is, fail open, or fail close
- Transmitter: Current or voltage transmitter (matching the control signal) is standard equipment
- Alarm Contacts: Dry contacts rated 0.1 Amp @ 250 VAC, 0.5 Amp @ 30 VDC for alarm status (over torque, as an example)
- Space Heater: Internally wired to limit condensation
- CE Compliant: All actuators are CE labeled and compliant
- **75% Duty Cycle:** Extended duty cycle is ideal for high cycling/modulating applications
- **Output Torque:** Series 19 electric actuators have an output torque range from 177 in-lbs to 973 in-lbs
- QR Code: Links to user manual; includes wiring schematic
- **Simple Wiring:** Wiring technique is the same for all voltage units
- Local Controls: Used with OLED and push buttons, a user can locally open or close units via password

Specifications

Sizes: S20, S50, S110 **Torque:** 177 in-lbs to 973 in-lbs

Voltage: 95 VAC to 265 VAC 1Ph 50/60 Hz

Amp Draw: 0.18 Amp for S20

0.24 Amp for S50 0.84 Amp for S110

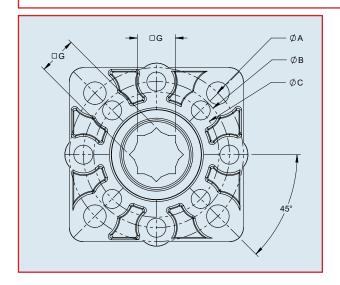
Electrical Connection: NEMA 4X cable gland with two-meter

color-coded cable

Max Ambient Temp: 150° F

Cycle Time: Per 90 degrees: 10 seconds

Enclosure: NEMA 4X



Output Dimensions

Size	Α	В	С	G
S20	F05 (M6)	FO4 (M5)	F03 (M5)	14MM
S50	F07 (M8)	F05 (M6)	N/A	14MM
S110	F07 (M8)	F05 (M6)	N/A	17MM

Weight (lbs)

Model	S20	S50	S110
Weight	1.7	3.5	4.8

Engineering Data

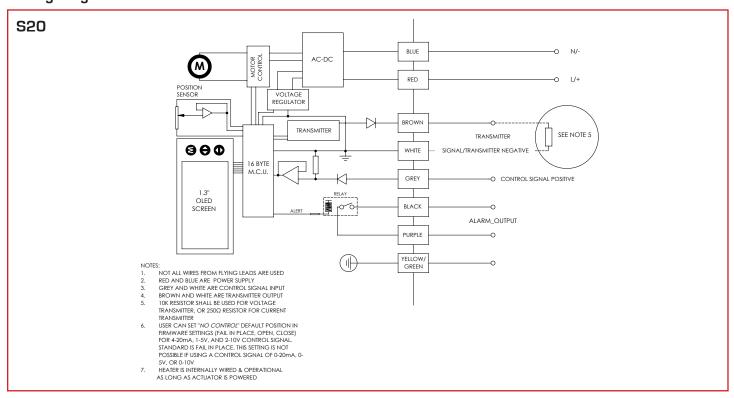
	Torque	95-265 VAC		24 VA	C/VDC	Cycle time
Model	(in-lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	degrees (seconds)*
S20	177	0.18	75%	0.96	75%	10
S50	442	0.24	75%	1.20	75%	10
S110	973	0.84	75%	4.80	75%	10

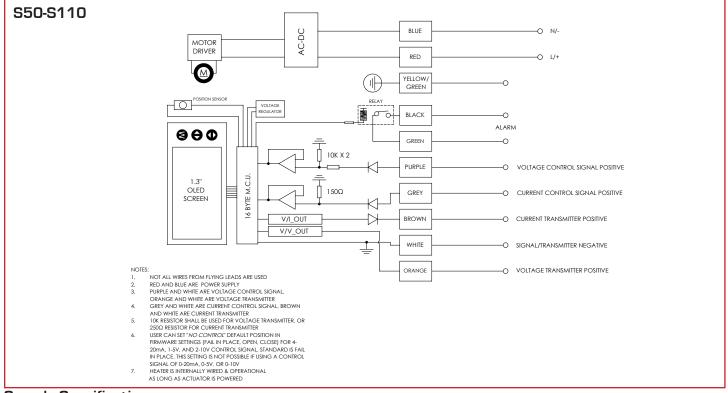
Amp draw is considered locked rotor

^{*}Cycle times are approximate

SERIES 19 SMART MODULATING ELECTRIC ACTUATOR

Wiring Diagrams





Sample Specification

All Series 19 SAV smart modulating electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Standard features shall include a heater, transmitter, field selection of various control signals, field selection of fail position (upon loss of command signal), one set of dry contacts for alarm reporting, LED indicator for alarm conditions, an OLED screen with push buttons, local controls, and a QR code that links to its user manual and wiring schematic.

TYPE-21/21a BALL VALVE WITH SERIES 19 SMART MODULATING FAILSAFE ELECTRIC ACTUATOR





Standard Features (1/2" - 4")

- Compact: Perfect for OEM and skid manufacturers
- OLED Screen: Displays input command, position status, alert conditions
- Push Buttons: Used to calibrate/adjust end positions, local controls
- Multi-voltage: 95 VAC to 265 VAC or 24 VAC/VDC
- Motor: Reversing, brushless DC motor
- Gear Train: Permanently lubricated steel gears
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- **ISO** mounting configuration
- Electrical Connection: NEMA 4X cable gland with twometer cable
- Position Indication: Highly visible beacon position indicator
- LED Alarm Indication: RED closed, GREEN open, BLUE fault.
- Manual Override: Manually cycle valve via electroless nickel-plated hex key
- Selectable Control Signal: User can select 4-20 mA, 0-20 mA, 0-10 VDC, 2-10 VDC, or 1-5 VDC (size 20 is specifically a current control signal or a voltage control signal)
- Reverse Acting: User can select standard operation or reverse acting
- Selectable Fail Position: If control signal is lost, the unit can be calibrated to fail as is, fail open, or fail close
- **Transmitter:** Current or voltage transmitter (matching the control signal) is standard equipment
- Space Heater: Internally wired to limit condensation
- CE Compliant: All actuators are CE labeled and compliant
- 75% Duty Cycle: Extended duty cycle is ideal for high cycling/modulating applications
- **Output Torque:** Series 19 electric actuators have an output torque range from 177 in-lbs to 442 in-lbs
- QR Code: Links to user manual; includes wiring schematic
- Simple Wiring: Wiring technique is the same for all voltage units
- Local Controls: Used with OLED and push buttons, a user can locally open or close units via password

Specifications

Motor Type: Reversing, brushless DC

Sizes: S20 for 1/2" - 2" ball valves

S50 for 2-1/2" - 3" ball valves

S50 for 2-1/2" – 3" ball valves

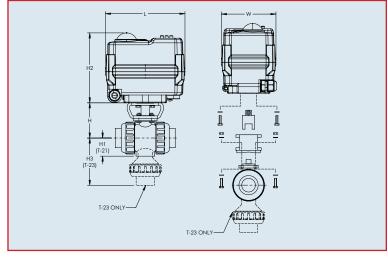
Torque: 177 in-lbs to 973 in-lbs

Voltage: 95 VAC to 265 VAC multi-voltage

Amp Draw: 0.18 Amp for S20 0.24 Amp for S50

0.90 Amp for S110

Max Ambient Temp: 150° F



Dimensions (inch)

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
L	4.01	4.01	4.01	4.01	4.01	4.01	5.12	5.12	6.69
W	2.76	2.76	2.76	2.76	2.76	2.76	4.33	4.33	4.52
Н	2.76	3.01	3.29	3.64	3.98	4.43	5.12	5.47	6.97
H1	1.14	1.38	1.54	1.85	2.17	2.60	2.83	3.35	4.33
H2	3.54	3.54	3.54	3.54	3.54	3.54	4.72	4.72	4.80
Model	S20	S20	S20	S20	S20	S20	S50	S50	S110

Weight (lbs)

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Weight	2.7	2.9	3.4	3.8	4.9	6.7	10.2	13.7	40.9

Engineering Data

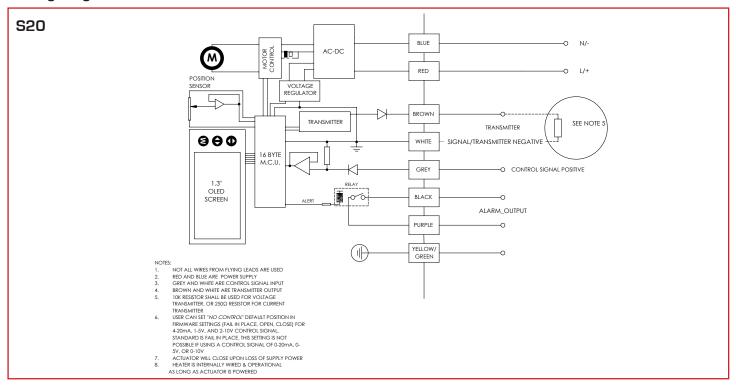
	_	95-265 VAC		24 VA	C/VDC	Cycle time	
Model	Torque (in-lbs)	in-lbs) Amp Duty Amp		Amp Draw	Duty Cycle	per 90 degrees (seconds)*	
S20	177	0.18	75%	0.96	75%	10	
S50	442	0.24	75%	1.20	75%	10	
S110	973	0.90	75%	4.80	75%	10	

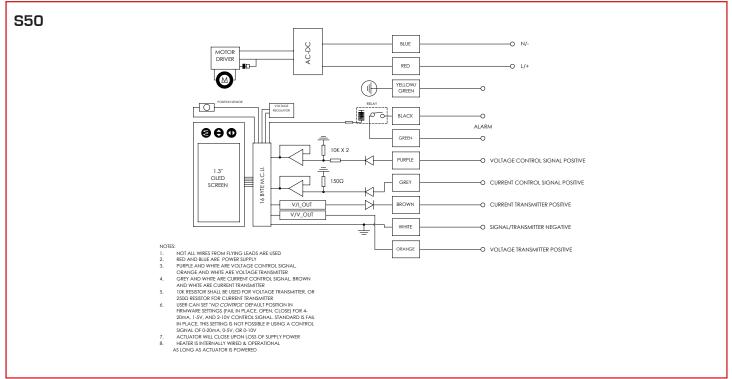
Amp draw is considered locked rotor

*Cycle times are approximate

TYPE-21/21a BALL VALVE WITH SERIES 19 SMART MODULATING FAILSAFE ELECTRIC ACTUATOR

Wiring Diagrams





Sample Specification

All Series 19 SAV smart modulating failsafe electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Actuator shall be of capacitor discharge design with no batteries, and be selectable as fail as is, fail open, or fail close upon loss of supply power. Standard features shall include a heater, transmitter, field selection of various control signals, field selection of fail position (upon loss of command signal), one set of dry contacts for alarm reporting, LED indicator for alarm conditions, an OLED screen with push buttons, local controls, and a QR code that links to its user manual and wiring schematic.

TYPE-23 MULTIPORT® BALL VALVE WITH SERIES 19 SMART MODULATING FAILSAFE ELECTRIC ACTUATOR





Standard Features (1/2" - 4")

- Compact: Perfect for OEM and skid manufacturers
- **OLED Screen:** Displays input command, position status, alert conditions
- Push Buttons: Used to calibrate/adjust end positions, local controls
- Multi-voltage: 95 VAC to 265 VAC or 24 VAC/VDC
- Motor: Reversing, brushless DC motor
- Gear Train: Permanently lubricated steel gears
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- **ISO** mounting configuration
- Electrical Connection: NEMA 4X cable gland with twometer cable
- **Position Indication:** Highly visible beacon position indicator
- LED Alarm Indication: RED closed, GREEN open, BLUE fault
- **Manual Override**: Manually cycle valve via electroless nickel-plated hex key
- Selectable Control Signal: User can select 4-20 mA, 0-20 mA, 0-10 VDC, 2-10 VDC, or 1-5 VDC (size 20 is specifically a current control signal or a voltage control signal)
- Reverse Acting: User can select standard operation or reverse acting
- Selectable Fail Position: If control signal is lost, the unit can be calibrated to fail as is, fail open, or fail close
- **Transmitter**: Current or voltage transmitter (matching the control signal) is standard equipment
- Space Heater: Internally wired to limit condensation
- CE Compliant: All actuators are CE labeled and compliant
- 75% Duty Cycle: Extended duty cycle is ideal for high cycling/modulating applications
- Output Torque: Series 19 electric actuators have an output torque range from 177 in-lbs to 442 in-lbs
- QR Code: Links to user manual; includes wiring schematic
- Simple Wiring: Wiring technique is the same for all voltage units
- Local Controls: Used with OLED and push buttons, a user can locally open or close units via password

Specifications

Motor Type: Reversing, brushless DC

Sizes: S20 for 1/2" - 2" three-way ball

valves

S50 for 3" three-way ball valves S110 for 4" three-way ball valves

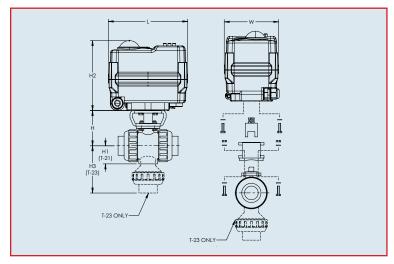
Torque: 177 in-lbs to 973 in-lbs

Voltage: 95 VAC to 265 VAC multi-voltage

Amp Draw: 0.18 Amp for S20

0.24 Amp for S50 0.90 Amp for S110

Max Ambient Temp: 150° F



Dimensions (inch)

Size	1/2"	3/4"	1"	1-1/2"	2"	3"	4"
L	4.01	4.01	4.01	4.01	4.01	5.12	6.69
W	2.76	2.76	2.76	2.76	2.76	4.33	4.52
Н	2.76	3.01	3.29	3.98	4.43	5.47	6.97
H1	1.14	1.38	1.54	2.17	2.60	3.35	4.33
H2	3.54	3.54	3.54	3.54	3.54	4.72	4.80
Model	S20	S20	S20	S20	S20	S50	S110

Weight (lbs)

Size	1/2"	3/4"	1"	1-1/2"	2"	3"	4"
Weight	2.9	3.4	4.1	6.48	8.1	19.4	40.9

Engineering Data

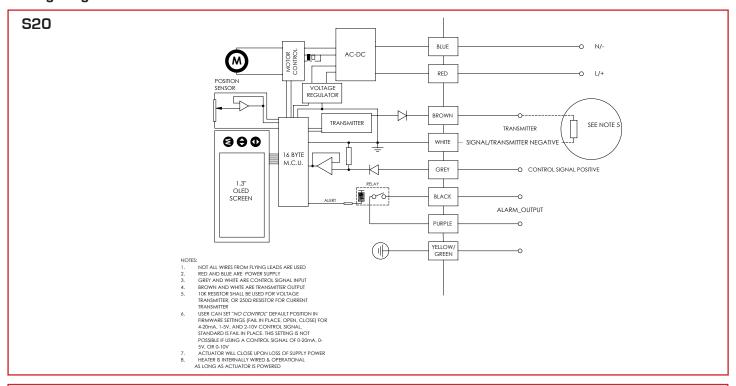
	_	95-265 VAC		24 VA	C/VDC	Cycle time
Model	Torque (in-lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	per 90 degrees (seconds)*
S20	177	0.18	75%	0.96	75%	10
S50	442	0.24	75%	1.20	75%	10
S110	973	0.90	75%	4.80	75%	10

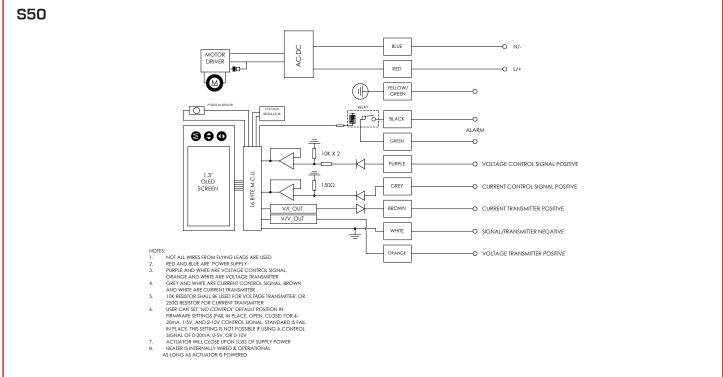
Amp draw is considered locked rotor

*Cycle times are approximate

TYPE-23 MULTIPORT® BALL VALVE WITH SERIES 19 SMART MODULATING FAILSAFE ELECTRIC ACTUATOR

Wiring Diagrams





Sample Specification

All Series 19 SAV smart modulating failsafe electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Actuator shall be of capacitor discharge design with no batteries, and be selectable as fail as is, fail open, or fail close upon loss of supply power. Standard features shall include a heater, transmitter, field selection of various control signals, field selection of fail position (upon loss of command signal), one set of dry contacts for alarm reporting, LED indicator for alarm conditions, an OLED screen with push buttons, local controls, and a QR code that links to its user manual and wiring schematic.

TYPE-57P BUTTERFLY VALVE WITH SERIES 19 SMART MODULATING FAILSAFE ELECTRIC ACTUATOR



Standard Features (1-1/2" - 6")

- Compact: Perfect for OEM and skid manufacturers
- OLED Screen: Displays input command, position status, alert conditions
- Push Buttons: Used to calibrate/adjust end positions, local controls
- Multi-voltage: 95 VAC to 265 VAC or 24 VAC/VDC
- Motor: Reversing, brushless DC motor
- Gear Train: Permanently lubricated steel gears
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- **ISO** mounting configuration
- **Electrical Connection:** NEMA 4X cable gland with twometer cable
- Position Indication: Highly visible beacon position indicator
- LED Alarm Indication: RED closed, GREEN open, BLUE fault
- Manual Override: Manually cycle valve via electroless nickel-plated hex key
- Selectable Control Signal: User can select 4-20 mA, 0-20 mA, 0-10 VDC, 2-10 VDC, or 1-5 VDC (size 20 is specifically a current control signal or a voltage control signal)
- Reverse Acting: User can select standard operation or reverse acting
- Selectable Fail Position: If control signal is lost, the unit can be calibrated to fail as is, fail open, or fail close
- Transmitter: Current or voltage transmitter (matching the control signal) is standard equipment
- Space Heater: Internally wired to limit condensation
- CE Compliant: All actuators are CE labeled and compliant
- 75% Duty Cycle: Extended duty cycle is ideal for high cycling/modulating applications
- **Output Torque:** Series 19 electric actuators have an output torque range from 177 in-lbs to 973 in-lbs
- QR Code: Links to user manual; includes wiring schematic
- Simple Wiring: Wiring technique is the same for all voltage units
- Local Controls: Used with OLED and push buttons, a user can locally open or close units via password

Specifications

Motor Type: Reversing, brushless DC

Sizes: S20 for 1-1/2" – 2-1/2" butterfly

valves

S50 for 3" - 4" butterfly valves S110 for 6" butterfly valves

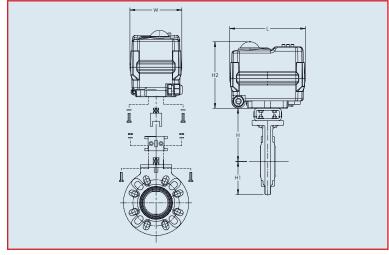
Torque: 177 in-lbs to 973 in-lbs

Voltage: 95 VAC to 265 VAC multi-voltage

Amp Draw: 0.18 Amp for S20

0.24 Amp for S50 0.90 Amp for S110

Max Ambient Temp: 150° F



Dimensions (inch)

Size	1-1/2"	2"	2-1/2"	3"	4"	5"	6"
Н	5.51	5.75	6.18	6.46	7.16	8.46	8.97
H1	2.95	3.27	3.66	3.94	4.53	5.00	5.63
H2	3.54	3.54	3.54	4.72	4.72	4.80	4.80
L	4.01	4.01	4.01	5.12	5.12	6.69	6.69
W	2.76	2.76	2.76	4.33	4.33	4.52	4.52
Model	S20	S20	S20	S50	S50	S110	S110

Weight (lbs)

Size	1-1/2"	2"	2-1/2"	3"	4"	5"	6"
Weight	5.2	5.6	6.1	8.2	9.5	15.9	17.9

Engineering Data

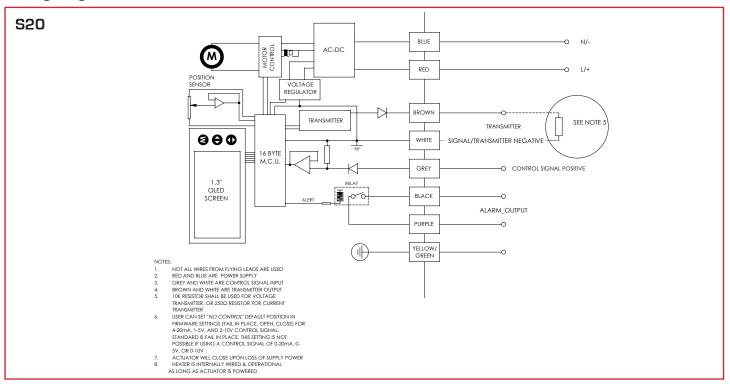
	_	95-265 VAC		24 VAC/VDC		Cycle time
Model	Torque (in-lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	per 90 degrees (seconds)*
S20	177	0.18	75%	0.96	75%	10
S50	442	0.24	75%	1.20	75%	10
S110	973	0.90	75%	4.80	75%	10

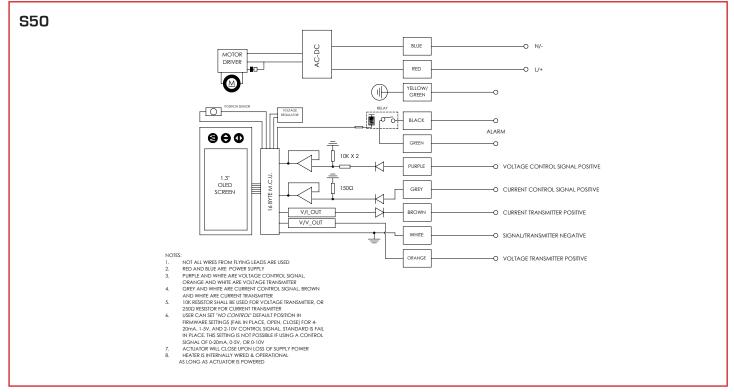
Amp draw is considered locked rotor

*Cycle times are approximate

TYPE-57P BUTTERFLY VALVE WITH SERIES 19 SMART MODULATING FAILSAFE ELECTRIC ACTUATOR

Wiring Diagrams





Sample Specification

All Series 19 SAV smart modulating failsafe electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Actuator shall be of capacitor discharge design with no batteries, and be selectable as fail as is, fail open, or fail close upon loss of supply power. Standard features shall include a heater, transmitter, field selection of various control signals, field selection of fail position (upon loss of command signal), one set of dry contacts for alarm reporting, LED indicator for alarm conditions, an OLED screen with push buttons, local controls, and a QR code that links to its user manual and wiring schematic.

SERIES 19 SMART MODULATING FAILSAFE ELECTRIC ACTUATOR



Standard Features (All Sizes)

- Compact: Perfect for OEM and skid manufacturers
- **OLED Screen**: Displays input command, position status, alert conditions
- Push Buttons: Used to calibrate/adjust end positions, local controls
- **Multi-voltage**: 95 VAC to 265 VAC or 24 VAC/VDC
- **Motor:** Reversing, brushless DC motor
- Gear Train: Permanently lubricated, steel gears
- Corrosion Resistant Enclosure: NEMA 4X PC/PET enclosure with stainless steel trim
- **ISO** mounting configuration
- **Electrical Connection:** NEMA 4X cable gland with two-meter cable
- Position Indication: Highly visible beacon position indicator
- LED Fault: RED closed, GREEN open, BLUE fault
- Manual Override: Manually cycle valve via electroless nickel-plated hex key
- Selectable Control Signal: User can select 4-20 mA, 0-20 mA, 0-10 VDC, 2-10 VDC, or 1-5 VDC (size 20 is specifically a current control signal or a voltage control signal)
- Reverse Acting: User can select standard operation or reverse acting
- Selectable Fail Position: If control signal is lost, the unit can be calibrated to fail as is, fail open, or fail close
- Transmitter: Current or voltage transmitter (matching the control signal) is standard equipment
- Space Heater: Internally wired to limit condensation
- **CE Compliant:** All actuators are CE labeled and compliant
- 75% Duty Cycle: Extended duty cycle is ideal for high cycling/modulating applications
- **Output Torque:** Series 19 electric actuators have an output torque range from 177 in-lbs to 442 in-lbs
- QR Code: Links to user manual; includes wiring schematic
- **Simple Wiring:** Wiring technique is the same for all voltage units
- Local Controls: Used with OLED and push buttons, a user can locally open or close units via password
- Capacitor Discharge System: A capacitor is used in place of batteries for failsafe mode

Specifications

Sizes: S20, S50, S110 **Torque:** 177 in-lbs to 973 in-lbs

Voltage: 95 VAC to 265 VAC 1Ph 50/60 Hz

Amp Draw: 0.18 Amp for \$20

0.24 Amp for S50 0.90 Amp for S110

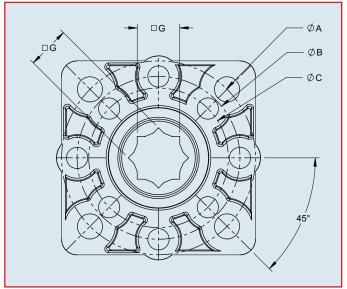
Electrical Connection: NEMA 4X cable gland with two-meter

color-coded cable

Max Ambient Temp: 150° F

Cycle: Per 90 degrees: 10 seconds

Enclosure: NEMA 4X



Output Dimensions

Size	Α	В	С	G
S20	F05 (M6)	FO4 (M5)	F03 (M5)	14MM
S50	F07 (M8)	F05 (M6)	N/A	14MM
S110	F07 (M8)	F05 (M6)	N/A	17MM

Weight (lbs)

Model	S20	S50	S110
Weight	1.7	3.5	4.8

Engineering Data

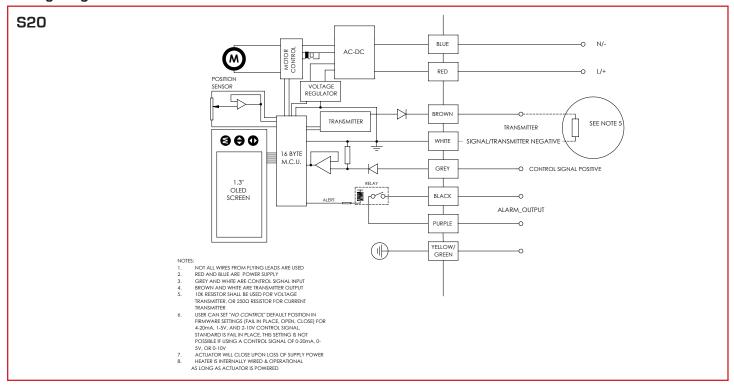
	Torque	95-265 VAC		24 VAC/VDC		Cycle time
Model	(in-lbs)	Amp Draw	Duty Cycle	Amp Draw	Duty Cycle	degrees (seconds)*
S20	177	0.18	75%	0.96	75%	10
S50	442	0.24	75%	1.20	75%	10
S110	973	0.90	75%	4.80	75%	10

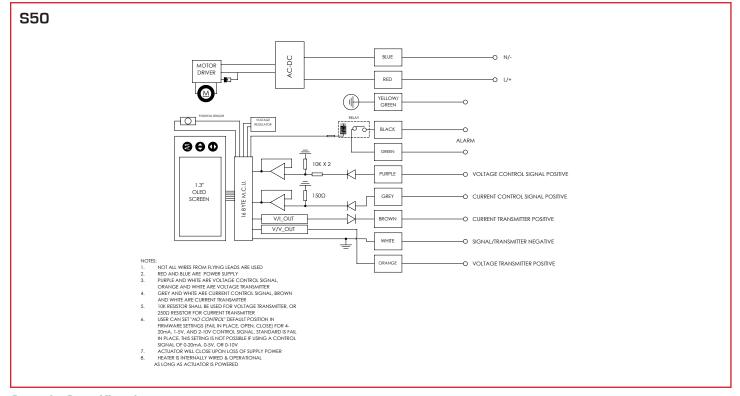
Amp draw is considered locked rotor

^{*}Cycle times are approximate

SERIES 19 SMART MODULATING FAILSAFE ELECTRIC ACTUATOR

Wiring Diagrams





Sample Specification

All Series 19 SAV smart modulating failsafe electric actuators shall have a brushless DC motor that accepts multiple voltages, permanently lubricated steel gears, NEMA 4X PC/PET enclosure with stainless steel trim, visual beacon indication, ISO 5211 valve mounting platform, manual override, and be CE compliant. Actuator shall be of capacitor discharge design with no batteries, and be selectable as fail as is, fail open, or fail close upon loss of supply power. Standard features shall include a heater, transmitter, field selection of various control signals, field selection of fail position (upon loss of command signal), one set of dry contacts for alarm reporting, LED indicator for alarm conditions, an OLED screen with push buttons, local controls, and a QR code that links to its user manual and wiring schematic.

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