

# Actuated Valves - Series 911E

## Electrically Actuated SS High Pressure Ball Valves



### Main Features :-

Valve Features:	Actuator Features:
Valve in SS 316	On Off, Failsafe, Modulating
Exotic Materials available	IP67 Housing
BSP or NPT ends	Manual Override
3K, 6K or 10,000 Psi rating	Limit Switches
UK made valves	100% Function Tested
ALCO Valve option	Quality Assembled Products



TYPE: 911E ELECTRIC

### Overview:-

We typically offer 3 options on electric actuators. We have 3 core brands that we offer depending on what the application demands. The brands we offer and stock are:



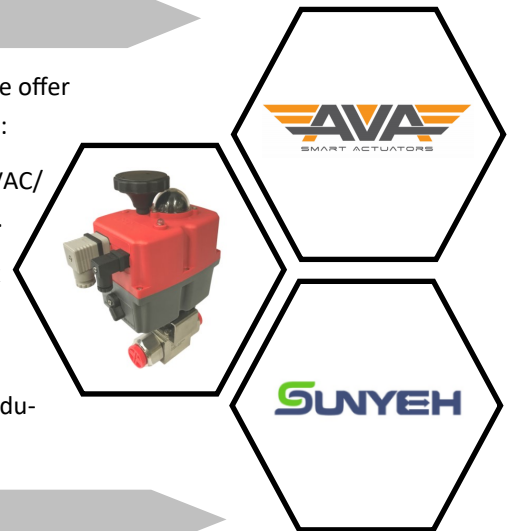
- a plastic housed electric actuator series offering multi voltage 24-240VAC/DC and on off, failsafe, modulating and modulating failsafe functionality.



- an aluminium housed quarter turn actuator with CSA and Nema 4x approval. Available on off and modulating.

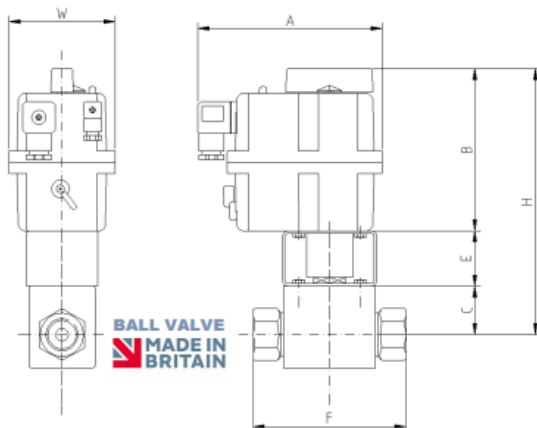


- A compact basic or smart series range offering a compact sized electric actuator but with big features including on off, modulating, failsafe, modulating failsafe, speed control and BUS communication.



### Key Dimensions:-

\* Note that the following dimensional drawing is a generic drawing for demonstration purposes only. The dimensions relevant to the different actuator are on the right hand side.



	J+J	Sun Yeh	AVA
Size	F	H	Kg
1/4"	Call	Call	Call
3/8"	Call	Call	Call
1/2"	Call	Call	Call
3/4"	Call	Call	Call
1"	Call	Call	Call
1 1/4"	Call	Call	Call
1 1/2"	Call	Call	Call
2"	Call	Call	Call

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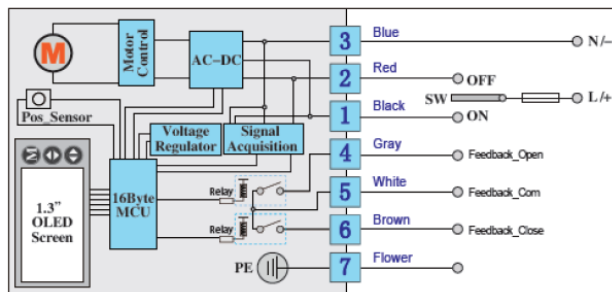
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All of our actuators are typically 3 wire actuators, offering a neutral and switchable live. See below for specific wiring options. Call if you have a specific requirement as in particular the Sun Yeh and AVA brands have multiple factory made options available. For example, the AVA units are available as a 2 wire option where replacing a solenoid valve for example.

### Wiring Options:- AVA Series



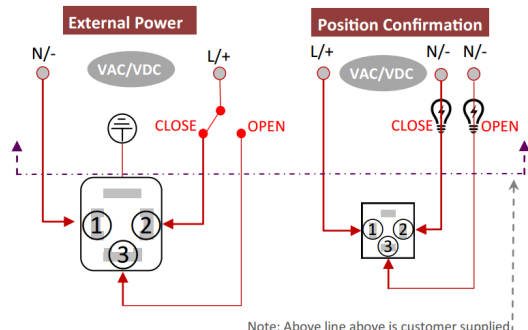
AVA electric actuators are supplied with a flying lead, models 20 only. Models 60 and above have terminal strip. No need to remove actuator housing to wire. See specific actuator model for exact wiring details.



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### Wiring Options:- J+J Series

J3CS ON-OFF & FAILSAFE WIRING (Same connection for either)

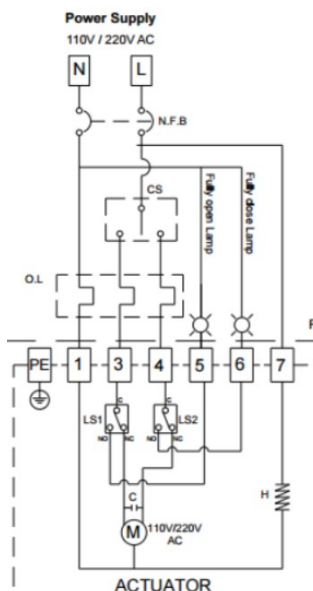
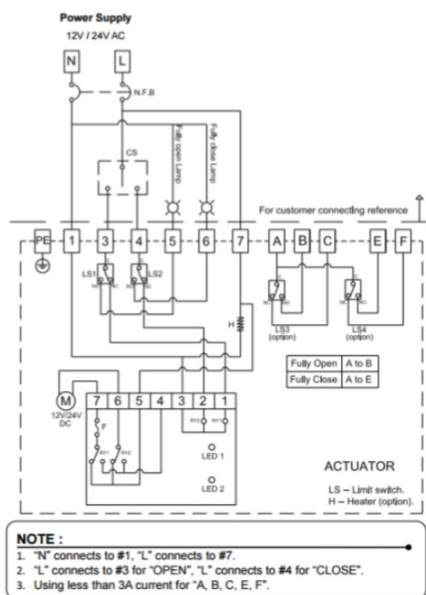


Note: Above line above is customer supplied

In J+J electric actuators, all electrical connections are made externally using the external DIN plugs supplied with the actuator. There is no need to remove the valve actuator's cover to connect electrically. See specific actuator model for exact wiring details.



### Wiring Options:- Sun Yeh Series



The Sun Yeh range of actuators requires the cover to be removed to wire the actuator electrically. All actuators from our stock have M20 conduit entry for cables (glands not included). See specific actuator model for exact wiring details.



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Valve Additional Information:-

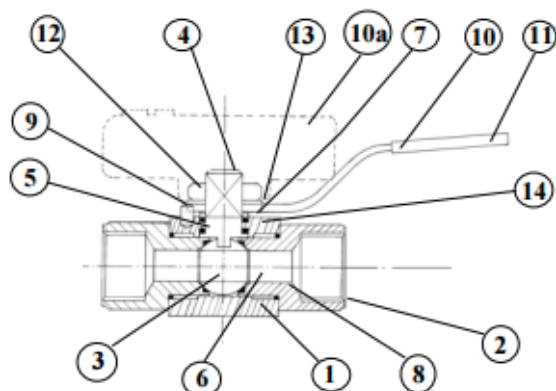
**1,000 psi [Pn 69] Rated 6,000 psi [Pn 414] Rated**

### DESIGN FEATURES

- \* Robust HIGH pressure design
- \* Internally loaded blow-out proof stem
- \* Floating ball for positive shut-off
- \* LOW operating torque
- \* Smooth 1/4 turn action
- \* Flexible 3 piece design
- \* 316 ss to NACE specification
- \* Wide range of end connections
- \* Replaceable seats & seals
- \* Ease of maintenance
- \* Full material traceability
- \* Choice of lever or pointer handles
- \* Panel mounting option
- \* Can be easily actuated
- \* Locking kit available



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ITEM	COMPONENT	MATERIAL
1	BODY	316 S 11 *
2	END CONNECTORS	316 S 11 *
3	BALL	316 S 11 *
4	STEM	316 S 11 *
5	STEM SEAL	RTFE
6	SEATS	PTFE / PVDF
7	TOP SEAL	RTFE
8	BODY SEAL	PTFE
9	PIN	STAINLESS STEEL
10	LEVER HANDLE	STAINLESS STEEL
10	POINTER HANDLE	MAZAK 3
11	HANDLE SLEEVE	PVC
12	NUT	A4 ss
13	WASHER	A4 ss
14	SPACER	316 SS

### Sample Part Number BHSP1015NFS-LK

1/2" NPT Female 316 St. St. Ball Valve, 10mm Bore - 6,000 psi/Pn 414 Rated fitted with Lever handle and Locking Kit.

### VALVE PART NUMBER and ORDERING TABLE

Valve Series	Bore	Size	Threads	* Material	Handle	Options
BHSA 1,000 psi/Pn 69	10	08 - 1/4" 10 - 3/8" 15 - 1/2"	NF - NPT Female NM - NPT Male PF - BSPP Female PM - BSPP Male TF - BSPT Female TM - BSPT Male	A - All-Bronze C - C/Steel D - 31803 Duplex H - Hastelloy I - Incoloy J - 6MO M - Monel S - 316 SS T - Titanium U - 32760 S.Duplex	-PH Pointer  -TH StSt 'T' Handle	-SR Spring Return -DA Double Acting -EA Electric -PM Panel Mount -Lk Locking -ACT Actuator use -EP Ends Pinned
* BHSP 6,000 psi/Pn414	13 19 25 32 38	20 - 3/4" 25 - 1" 32 - 1 1/4" 40 - 1 1/2" 50 - 2"				

All Valves have Stainless Steel Lever Handles as standard.

\* Note that valves above 1" are downrated i.e. 1 1/4" is 4,000psi, 1 1/2" & 2" are 3,000psi maximum.

Valve Part Number for FULL BORE - USE BORE size equal to thread size e.g. BHSA1925NFS becomes BHSA2525NFS.

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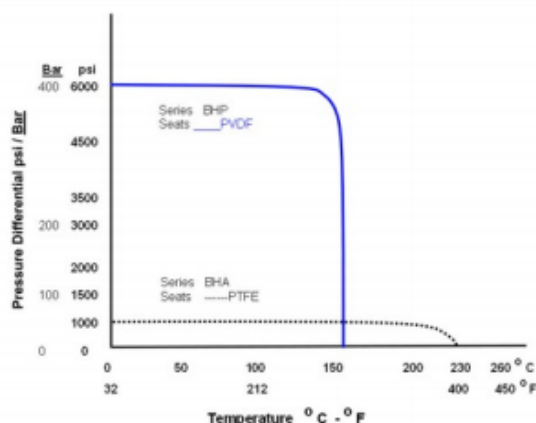
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Valve Additional Information:-

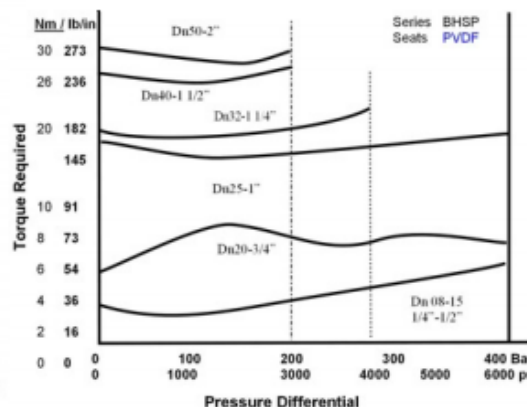


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**PRESSURE/TEMPERATURE GRAPH**

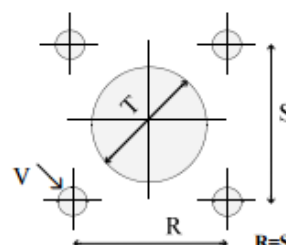
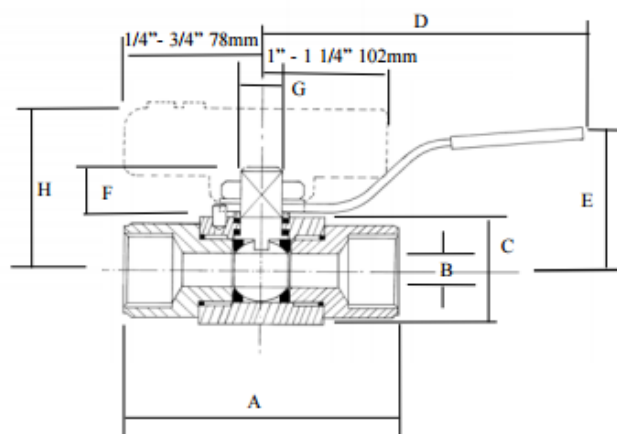


**TORQUE INFORMATION**



### PANEL MOUNT DETAILS \*

\* Option to be specified when ordering



1/4" - 1/2" VALVES ARE M4 x 6 mm DEEP  
3/4" VALVES ARE M5 x 6 mm DEEP  
1" - 1 1/4" VALVES ARE M6 x 8 mm DEEP  
1 1/2" - 2" VALVES ARE M8 x 8 mm DEEP

VALVE SIZES and DIMENSION TABLE										[Inch Dims rounded for clarity]				WEIGHT Kgs	CV US Gpm
Valve Size	A		B Ø	C Sq	D	E	F	G Øx A/F	H	Panel Mount Dimensions					
	BSPP	TAPER								R & S	ISO	T Ø	VØ		
08 - 1/4"	71	71	10	32	115	45	14	3/8"-7.0	49	25.5	N/A	30	4.5	0.45	7.5
10 - 3/8"	75	77	10	32	115	45	14	3/8"-7.0	49	25.5	N/A	30	4.5	0.46	7.5
15 - 1/2"	82	85	10	32	115	45	14	3/8"-7.0	49	25.5	N/A	30	4.5	0.50	7.5
20 - 3/4"	90	90	12.7	38	115	50	12	3/8"-7.0	52	25.5	F03	30	5.5	0.70	12.0
25 - 1"	109	111	20	50	165	60	22	12 x 9.0		35.4	F05	40	6.5	1.45	32.0
32-1 1/4"	117	121	25	63/60Ø	165	65	17	12 x 9.0		35.4	F05	44	6.5	1.75	46.0
40-1 1/2"	135	135	32	70 Ø	165	70	33	3/4"x14		49.5	F07	44	8.5	3.0	80.0
50 - 2"	160	160	38	82 Ø	165	76	27	3/4"x14		49.5	F07		8.5	3.5	105.0

We reserve the right to change specifications stated in this leaflet due to our continuing programme of development.  
For FULL BORE Valves, use the dimensions of the next larger size, ie for 1 1/4" Full Bore use 1 1/2" dimensions.  
Valve seats are tested at 10% above rated pressure [BS EN12266-1]. Using any higher test pressure will damage the seats.  
Use the valve half open on system tests above seat rated pressures. 1 1/2" and 2" valves are of 2 piece construction.  
Dimensions are the same for all pressure rating ie BHSA and BHSP Series.

BHSeries-09/09

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