

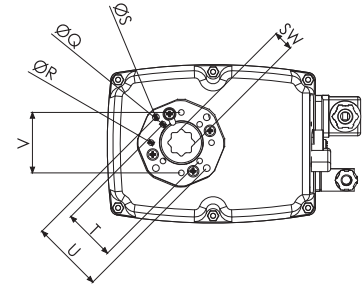
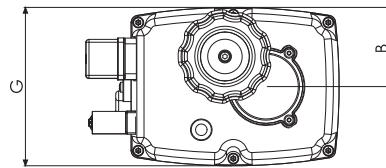
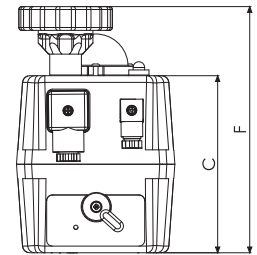
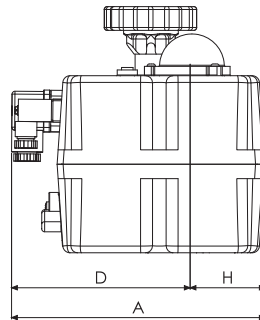


# + Electric Actuator

Specialist in Ball Valves



## J3C ELECTRIC ACTUATOR



### Technical data

- Housing: Anticorrosive polyamide (lid & body)
- Main external shaft: Anticorrosive polyamide
- External screws: stainless steel
- Gears: steel and polyamide
- Visual position indicator: Polyamide
- Dome: Polycarbonate
- Adjustable internal cams: Polyamide
- Electric motor: Single phase 24VDC
- Insulation: Class B

### Options

- J3C S20/S85 DPS 2015 digital positioner: 4-20mA, 0-20mA, 0-10V or 1-10V.
- J3C S20/S85 BSR 2015 emergency fail safe kit system by battery
- Digital potentiometer: 1K, 5K or 10K.
- 3 position actuator: 0°-45°-90° or 0°-90°-180°

### VALVE WITH ELECTRICAL ACTUATORS

TYPE	BALL VALVES	DN
J3C-20	GE-GHP-GN	06-10
J3C-35	GE-GHP-GN-GR-SB	13

### J3C ELECTRIC ACTUATOR

TYPE	VOLTAGE	ISO5211	A	B	C	D	F	G	H	Q	R	S	T	U	V	SW	Kg	ITEM CODE
J3C-S20	24 a 240 VAC/VDC	F03-F04-F05	181	55	123	130	169	110	51	M5	M5	M6	36	50	42	9 or 11 or 14	1,8	FAEJ3H2025HH
	12 VAC/VDC	F03-F04-F05	181	55	123	130	169	110	51	M5	M5	M6	36	50	42	9 or 11 or 14	1,8	FAEJ3L2025HH
J3C-S35	24 a 240 VAC/VDC	F03-F04-F05	181	55	123	130	169	110	51	M5	M5	M6	36	50	42	9 or 11 or 14	1,9	FAEJ3H3540HH
	12 VAC/VDC	F03-F04-F05	181	55	123	130	169	110	51	M5	M5	M6	36	50	42	9 or 11 or 14	1,9	FAEJ3L3540HH

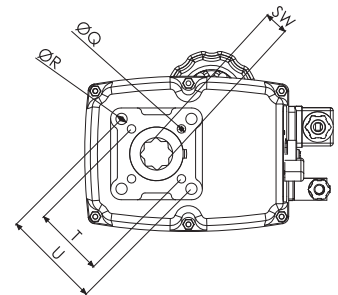
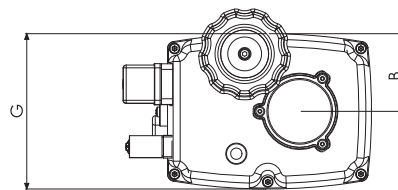
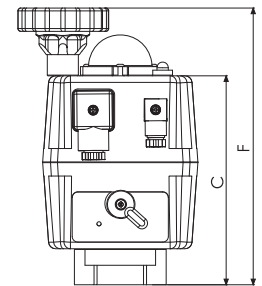
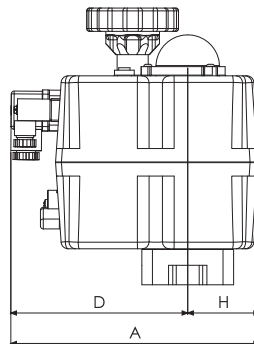
	J3C-S20	J3C-S35
Voltage	24 a 240 VAC/VDC -0/+5% 12 VDC/VAC 0/+5% Change the power supply PCB	24 a 240 VAC/VDC -0/+5% 12 VDC/VAC 0/+5% Change the power supply PCB
Operation time unload	10 Sec./90°	10 Sec./90°
Maximum torque break	25N/m	38N/m
Maximum operational torque	20N/m	35N/m
Duty rating %	75,00%	75,00%
Working angle	90° TO 270°	90° TO 270°
Limit switch	4 SPDT micro	4 SPDT micro
Heater	3,5W	3,5W
Plugs	EN175301-803	EN175301-803
IP rating	IP-67	IP-67
Temperature	-20°C+70°C	-20°C+70°C
Weight (Kg)	1,8 Kg	1,9 Kg

"The company reserves the right to operate dimensional changes without prior notice".



# + Electric Actuator

Specialist in Ball Valves



## Technical data

- Housing: Anticorrosive polyamide (lid & body)
- Main external shaft: stainless steel
- External screws: stainless steel
- Gears: Steel and polyamide
- Visual position indicator: Polyamide
- Dome: Polycarbonate
- Adjustable internal cams: Polyamide
- Electric motor: Single phase 24VDC
- Insulation: Class B

## Options

- J3C S20/S85 DPS 2015 digital positioner: 4-20mA, 0-20mA, 0-10V or 1-10V.
- J3C S20/S85 BSR 2015 emergency fail safe kit system by battery
- Digital potentiometer: 1K, 5K or 10K.
- 3 position actuator: 0°-45°-90° or 0°-90°-180°

## VALVE WITH ELECTRICAL ACTUATORS

TYPE	BALL VALVES	DN
J3C-55	GE-GHP-GN-GR-SB	20
J3C-85	GE-GHP-GN-GR-SB	25

## J3C ELECTRIC ACTUATOR

TYPE	VOLTAGE	ISO5211	A	B	C	D	F	G	H	Q	R	S	T	U	V	SW	Kg	ITEM CODE
J3C-S55	24 a 240 VAC/VDC	F05-F07	181	55	148	130	196	110	51	M6	M8	-	50	70	-	11 or 14 or 17	2.4	FAEJ3H5560HH
	12 VAC/VDC	F05-F07	181	55	148	130	196	110	51	M6	M8	-	50	70	-	11 or 14 or 17	2.4	FAEJ3L5560HH
J3C-S85	24 a 240 VAC/VDC	F05-F07	181	55	148	130	196	110	51	M6	M8	-	50	70	-	11 or 14 or 17	3	FAEJ3H8590HH
	12 VAC/VDC	F05-F07	181	55	148	130	196	110	51	M6	M8	-	50	70	-	11 or 14 or 17	3	FAEJ3L8590HH

	J3C-S55	J3C-S85
Voltage	24 a 240 VAC/VDC -0/+5% 12 VDC/VAC 0/+5% Change the power supply PCB	24 a 240 VAC/VDC -0/+5% 12 VDC/VAC 0/+5% Change the power supply PCB
Operation time unload	14 Sec./90°	30 Sec./90°
Maximum torque break	60N/m	90N/m
Maximum operational torque	55N/m	85N/m
Duty rating %	75,00%	75,00%
Working angle	90° TO 270°	90° TO 270°
Limit switch	4 SPDT micro	4 SPDT micro
Heater	3,5W	3,5W
Plugs	EN175301-803	EN175301-803
IP rating	IP-67	IP-67
Temperature	-20°C+70°C	-20°C+70°C
Weight (Kg)	2,4 Kg	3 Kg

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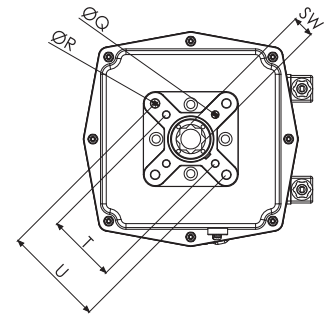
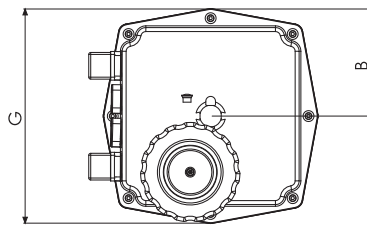
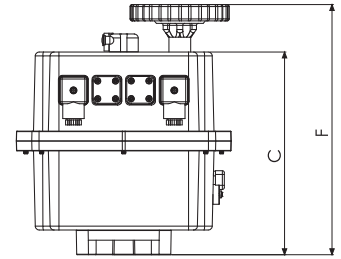
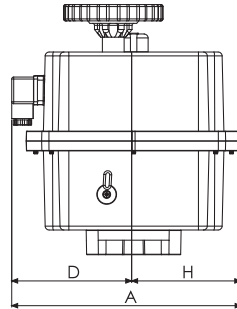
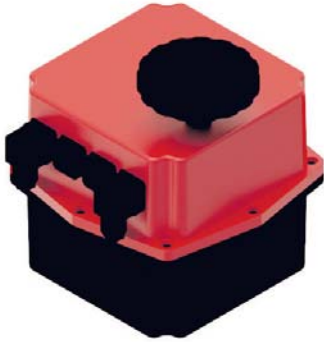
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J3C S20 Consumption		Unload		Max. Operational Torque 20Nm		Max. Torque Break 25Nm	
Voltage	A	W	A	W	A	W	
24 VDC	0,40	10,30	0,80	19,30	0,80	20,30	
48 VDC	0,20	10,20	0,40	18,00	0,40	18,50	
110 VDC	0,10	7,50	0,10	13,30	0,10	14,30	
24 VAC	0,60	14,20	1,10	25,80	1,20	27,60	
48 VAC	0,40	18,40	0,70	31,30	0,70	32,20	
110 VAC	0,20	16,50	0,30	27,60	0,30	27,60	
240 VAC	0,10	22,20	0,20	37,50	0,20	39,60	
J3C S35 Consumption		Unload		Max. Operational Torque 35Nm		Max. Torque Break 38Nm	
Voltage	A	W	A	W	A	W	
24 VDC	0,40	10,20	1,20	27,60	1,20	28,20	
48 VDC	0,20	9,30	0,50	24,40	0,50	25,40	
110 VDC	0,10	7,30	0,20	18,20	0,20	18,60	
24 VAC	0,60	14,10	1,50	36,40	1,60	38,10	
48 VAC	0,40	17,20	0,90	41,90	0,90	43,80	
110 VAC	0,10	15,20	0,30	37,30	0,30	38,00	
240 VAC	0,10	22,70	0,20	45,90	0,20	45,90	
J3C S55 Consumption		Unload		Max. Operational Torque 55Nm		Max. Torque Break 60Nm	
Voltage	A	W	A	W	A	W	
24 VDC	0,33	08,00	1,21	29,00	1,25	30,00	
48 VDC	0,18	08,40	0,56	27,00	0,59	28,30	
110 VDC	0,06	06,10	0,17	18,20	0,18	19,60	
24 VAC	0,47	11,20	1,69	40,70	1,73	41,60	
48 VAC	0,29	14,20	0,97	46,50	1,01	48,30	
110 VAC	0,12	13,60	0,36	39,20	0,37	40,70	
240 VAC	0,09	21,10	0,20	47,50	0,20	48,00	
J3C S85 Consumption		Unload		Max. Operational Torque -85Nm		Max. Torque Break -90Nm	
Voltage	A	W	A	W	A	W	
24 VDC	0,33	7,90	0,88	21,20	0,90	21,20	
48 VDC	0,17	8,10	0,44	21,20	0,48	23,20	
110 VDC	0,05	5,80	0,13	14,80	0,15	16,50	
24 VAC	0,45	10,80	1,16	27,70	1,17	28,00	
48 VAC	0,28	13,30	0,28	33,10	0,71	34,10	
110 VAC	0,11	12,30	0,26	29,00	0,27	29,50	
240 VAC	0,08	18,50	0,16	38,00	0,16	38,00	

# + Electric Actuator

Specialist in Ball Valves



## Technical data

- Housing:  
Body and cover: anticorrosive polyamide  
Main external shaft: stainless steel
- Fastening: stainless steel
- Gears: steel and polyamide
- Indicator: polyamide + glass filled
- Internal cams: polyamide + glass filled
- Electric motor: single phase
- Insulation: class B
- Service S4
- Duty range: 75%

## All models options

- DPS2005 digital positioner: 0÷20mA, 4÷20mA o 0÷10V
- Digital potentiometer kit: 1K, 5K and 10K
- BSR battery fail safe kit
- 3 positions: 0° 45° 90° / 0° 90° 180°

## VALVE WITH ELECTRICAL ACTUATORS

TYPE	BALL VALVES	DN
J3-140	GB-GHP-GN-GR-SB	32-40
J3-300	GB-GHP-GN-GR-SB	50

## J3C ELECTRIC ACTUATOR

TYPE	VOLTAGE	ISO5211	A	B	C	D	F	G	H	Q	R	S	T	U	V	SW	Kg	ITEM CODE
J3-L140	24 VAC/VDC	F07-F10	235	107	205	128	254	214	107	M6	M8	-	70	102	-	17 or 22	5,2	FAEJ3L140170HH
J3-H140	85-240 VAC/VDC	F07-F10	235	107	205	128	254	214	107	M6	M8	-	70	102	-	17 or 22	5,2	FAEJ3H140170HH
J3-L300	24 VAC/VDC	F07-F10	235	107	205	128	254	214	107	M6	M8	-	70	102	-	17 or 22	5,2	FAEJ3L300350HH
J3-H300	85-240 VAC/VDC	F07-F10	235	107	205	128	254	214	107	M6	M8	-	70	102	-	17 or 22	5,2	FAEJ3H300350HH

	J2-L140	J2-H140	J2-L300	J2-H300
Voltage	24 VAC/VDC -0/+5%	85-240 VAC/VDC	24 VAC/VDC -0/+5%	85-240 VAC/VDC
Operation time unload	34 sec	34 sec	58 sec	58 sec
Maximum torque break	140N/m	140N/m	300N/m	300N/m
Maximum operational torque	170N/m	170N/m	350N/m	350N/m
Duty rating %	75,00%	75,00%	75,00%	75,00%
Working angle	90° to 270°	90° to 270°	90° to 270°	90° to 270°
Limit switch	4 SPDT micro	4 SPDT micro	4 SPDT micro	4 SPDT micro
Heater	3,5W	3,5W	3,5W	3,5W
Plugs	DIN43650 ISO440&C192	DIN43650 ISO440&C192	DIN43650 ISO440&C192	DIN43650 ISO440&C192
IP rating	IP-67	IP-67	IP-67	IP-67
Temperature	-20°C+70°C	-20°C+70°C	-20°C+70°C	-20°C+70°C

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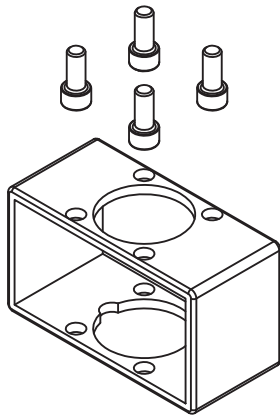
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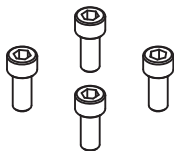
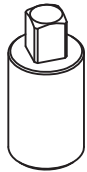
CURRENT (+/- 10%)	VOLTAGE	J3C H140 (A)	J3C H140 (W)	J3C L140 (A)	J3C L140 (W)	J3C H300 (A)	J3C H300 (W)	J3C L300 (A)	J3C L300 (W)
CURRENT (UNLOAD)	220 VAC	0,24	53,0			0,24	52,0		
	110 VAC	0,33	36,4			0,32	34,8		
	110 VDC	0,17	18,3			0,17	18,5		
	24 VAC			1,41	33,9			1,36	32,6
	24 VDC			1,13	27,1			1,11	26,7
CURRENT AT MAXIMUM RUN TORQUE	220 VAC	0,30	65,6			0,34	75,0		
	110 VAC	0,50	55,1			0,57	62,9		
	110 VDC	0,27	29,5			0,29	32,1		
	24 VAC			2,18	52,3			2,71	65,1
	24 VDC			1,78	42,8			2,09	50,2
CURRENT AT MAXIMUM BREAK TORQUE	220 VAC	0,31	68,2			0,36	79,4		
	110 VAC	0,52	57,6			0,61	66,7		
	110 VDC	0,29	31,6			0,31	34,6		
	24 VAC			2,29	55,0			2,80	67,2
	24 VDC			1,89	45,5			2,28	54,6

# + Electric Actuator

Specialist in Ball Valves



KITS WASHER  
ONLY FOR GN-GB VALVES -KIT ACTUATOR



## ACTUATORS KITS

TYPE	BALL VALVES	DN	MATERIAL	ISO5211	WHEIGHT Kg	ITEM CODE
AK65	SB	65-80	CARBON STEEL	F05 F07-F05	0,74	KOC00AK651X
AK32	SB	32-40	CARBON STEEL	F05 F07-F05	0,60	KOC00AK321X
AK40	GB-GHP-GN-GR-SB	32-40	CARBON STEEL	F05 F07-F05	0,67	KOC00AK401X
AK20	GE-GB-GHP-GN-GR-SB	20-25	CARBON STEEL	F05 F07-F05	0,52	KOC00AK201X
AK6	GE-GHP-GN-GR-SB	06-10-13	CARBON STEEL	F03-F03	0,25	KOC00AK61X
AK13	GE-GHP-GN-GR	13	CARBON STEEL	F03-F05	0,31	KOC00AK131X
AK100	GR-SB	100-125	CARBON STEEL	F10 F12-F12	2,05	KOC00AK1001X
AK50	GB-GHP-GN-GR-SB	50	CARBON STEEL	F05 F07-F05	0,71	KOC00AK501X
AK6S	GN	06-10-13	CARBON STEEL	F03 F05-F03 F05	0,30	KOC00AK6S1X

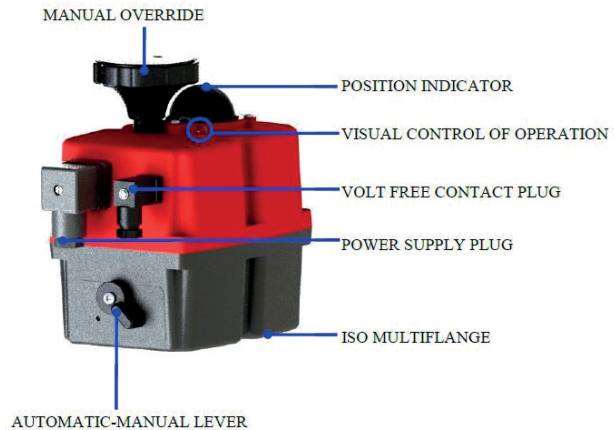
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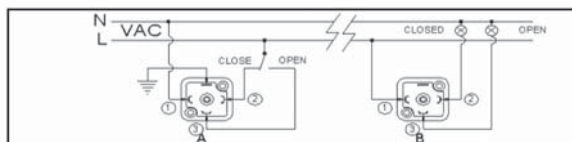
2017 - Edition 2

## Technical data

- The LED status Light provides visual communication between the actuator and the user
- The current operational status is shown by either solidly lit, or different flashing sequences of the LED light:
  - TIME 200 mSec X each digit of the configuration
  - Configuration digit 1 = LED on  
digit 0 = LED off
- The configuration is a repetitive sequence of 4 columns of 4 digits

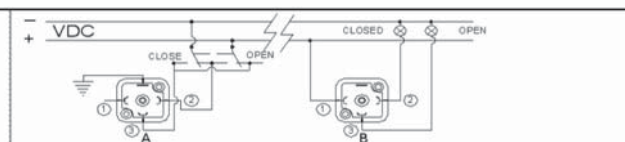


## EXTERNAL ELECTRIC WIRING ON-OFF

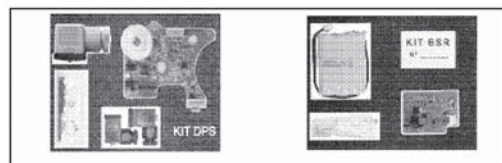
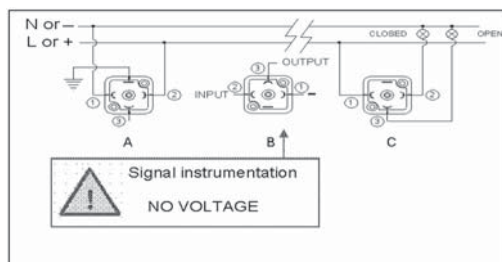


- A = power supply plug  
VAC 3 WIRES (grey plug)  
PIN 1 = Neutral + PIN 2= Phase = Close  
PIN 1 = Neutral + PIN 3 = Phase = Open
- B = Volt free contacts plug  
PIN 1 PIN 2 = Closed  
PIN 1 PIN 3 = Open

## EXTERNAL ELECTRIC WIRING ON-OFF



- A = power supply plug  
VAC 3 WIRES (grey plug)  
PIN 1 = Neutral + PIN 2= Phase = Close  
PIN 1 = Neutral + PIN 3 = Phase = Open
- B = Volt free contacts plug  
PIN 1 PIN 2 = Closed  
PIN 1 PIN 3 = Open



## UPON REQUEST

- EXTERNAL ELECTRIC WIRING POSITIONER
  - A = Power supply plug  
A = VAC 2 WIRES (grey plug)  
PIN 1 = neutral or (-) + PIN 2 or (+) = Power supply plug
  - B = Signal instrumentation  
B = input signal: 4/20mA or 0/10V  
output signal: 4/20mA or 0/10V  
PIN 1 = (-) Negative + PIN 2 = (+) positive = input signal  
PIN 1 = (-) Negative + PIN 3 = (+) positive = output signal
  - C = Volt free contacts plug  
C = PIN 1 / PIN 2 = closed  
PIN 1 / PIN 3 = open

FLASHING LED	TIME	CONFIGURATION
Actuator without power being supplied	100%	0000 0000 0000 0000
Actuator with power being supplied	100%	1111 1111 1111 1111
Actuator with torque limiter activated	200 mSeg	1010 1010 1010 1010
Actuator without power working with the BSR system Max 3 minutes	200 mSeg	1000 0000 0000 0000
Actuator in MANUAL mode	200 mSeg	1111 0111 1000 0000
Actuator in MANUAL mode but with an internal cam operating an internal switch	200 mSeg	1110 1111 1111 1110
Positioner malfunction	200 mSeg	1101 1011 0000 0000
Battery protection. Danger the battery needs recharging BSP blocked	200 mSeg	1010 1000 0000 0000

Actuators

