

Standard Specifi	cations		
Enclosure	IP68 Watertight (IP68 5m 120hr)	Travel Angle	90° ± 5°
Power Supply	110V & 250V (1PH) / 24VDC / 380V & 440V (3PH) ***	Casing Material	Aluminium Alloy, Dry Power Polyester Coated
Indicator	Dome Type Mechanical	Terminal Block	Push Button
Limit Switches	2 x Open / 2 x Close, SPDT, 250V AC *	Ambient Temp	-20 to +60°C
Inside Heater	(AC Only) 1PH 110/220V AC **	Mechanism	Scotch-Yoke (JV-E05 - Spur Gear Type)
* met eveileble en		evailable for IV/ E	10 00 40 50 00 8 400

* not available on JV-E02 ** not available on JV-E02, 04 & 05 ***Only available for JV-E16, 28, 40, 50, 80 & 120

Model	Ma	iximu	m	Op. Time		Rate	d Current (A	A)		Motor	Manual
No.	Torque Output		50 / 60Hz	AC (1PH)	AC (3PH)	DC	Insulation / output	Handle	
	0 °	45°	90 °	90° (sec.)	110V	110V 220V		440V	24V	(AC . DC)	Turns
JV-E02	20	20	20	17.5/14.5	0.29/0.25	0.12/0.1	N/A	N/A	1.5	E . B/10W . 10W	3
JVE-04	40	40	40	12/10	0.67/0.6	0.23/0.2	N/A	N/A	2	E . B/10W . 10W	3
JV-E05	50	50	50	13	(100-250V A	AC) 0.1-0.25	N/A	N/A	2	B . B/10W . 10W	18
JV-E10	100	65	100	22/18	0.82/0.75	0.42/0.40	N/A	N/A	2.5	F.B/10W.15W	15
JV-E16	160	107	160	28/23	0.94/0.85	0.50/0.46	0.47/0.37	0.62/0.49	4	F . B/15W . 15W	19
JV-E28	280	190	280	40/33	0.94/0.85	0.50/0.46	0.47/0.37	0.62/0.49	4	F . B/15W . 15W	23
JV-E40	400	270	400	40/33	1.09/1.23	0.54/0.58	0.16/0.15	0.18/0.16	5.5	F.B/25W.40W	23
JV-E50	500	350	500	40/33	1.55/1.75	0.72/0.90	0.30/0.28	0.40/0.30	N/A	F/40W	23
JV-E80	800	540	800	51/42	1.97/2.83	1.09/1.46	0.50/0.54	0.57/0.55	N/A	F/60W	77
JV-E120	1200	800	120	51/42	1.97/2.83	1.09/1.46	0.50/0.54	0.57/0.55	N/A	F/90W	77

(s) spanner operated



JV-E02

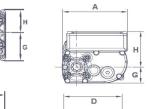


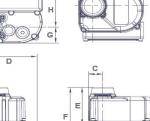
JV-E

Electric 1/4 Turn Johnson Valves Actuator 20Nm - 1200Nm

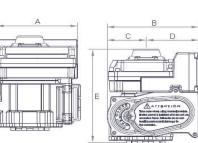


JV-E04

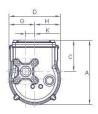




JV-E16 - JV-E50

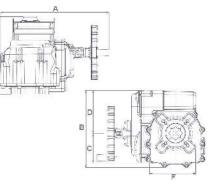


JV-E05



JV-E80 - JV-E120

F



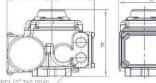
										Manual	Stem			ISO	5211			Cable	Weight
Model	Α	В	С	D	Е	F	G	н	κ	Operation	(mm)	F03	F05	F07	F10	F12	F14	Entry	(Kg)
JV-E02	105	81	25	74	52	104	41	33	-	5mm Spanner	11	\checkmark	\checkmark	×	×	×	×	Cable	0.9
JV-E04	108	84	24	97	70	120	31	67	-	5mm Spanner	14	\checkmark	\checkmark	\checkmark	×	×	×	1-PF1/2	1.5
JV-E05	124	64	60	98	70	125	49	49	18	5mm Hex Key	14	\checkmark	\checkmark	\checkmark	×	×	×	2-PF1/2	1.3
JV-E10	164	84	80	133	122	48	74	-	-	6mm Hex Key	17	×	\checkmark	\checkmark	×	х	×	2-PF1/2	3.0
JV-E16	157	172	74	99	190	-	-	-	-	6mm Hex Key	17	×	\checkmark	\checkmark	\checkmark	×	×	2-PF1/2	6.2
JV-E28	182	209	87	122	209	-	-	-	-	8mm Hex Key	27	×	×	\checkmark	\checkmark	\checkmark	×	2-PF1/2	9.4
JV-E40	182	209	87	122	209	-	-	-	-	8mm Hex Key	27	×	×	\checkmark	\checkmark	\checkmark	×	2-PF1/2	9.4
JV-E50	182	209	87	122	209	-	-	-	-	8mm Hex Key	27	×	×	\checkmark	\checkmark	\checkmark	×	2-PF1/2	9.4
JV-E80	395.3	281	107.5	156	282	168.7	-	-	-	Handwheel	36	×	×	×	\checkmark	\checkmark	\checkmark	2-PF1/2	26.0
JV-E120	395.3	281	107.5	156	282	168.7	-	-	-	Handwheel	36	×	×	×	\checkmark	\checkmark	\checkmark	2-PF1/2	26.0

OPTIONS

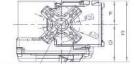
LC	Local Control (Only available for in 110VAC & 220VAC for JV-E16, JV-E28, JV-E40 & JV-E50)
МС	Modulating Input/Output 4-20mA (Only available for 110 & 220VAC)
SM	Super Modulating Input/Output 4-20mA, 0-1V, 2-10V, 0-5V & 1-5V all in one unit (Available for 24VDC, 110VAC & 220VAC)



 С











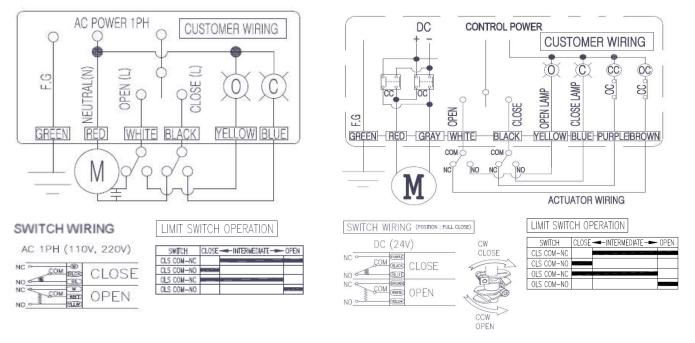
JV-E

Electric 1/4 Turn Johnson Valves Actuator 20Nm - 1200Nm

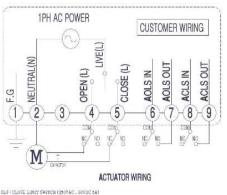


Wiring Diagrams JV-E02 (AC)

Wiring Diagrams JV-E02 (DC)



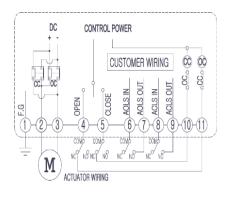
Wiring Diagrams JV-E04 (AC)



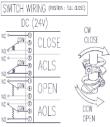
CLG : CLOSE LIRIY SWITCH (280VAC, SOVIC SA) DLS : DDEM LIMIT SWITCE (250VAC, SOVIC SA) DLS : DDEM LIMIT SWITCE (280VAC, SOVIC SA) ADLS : AUX, CLORE LIMIT SWITCE (280VAC, SOVIC SA)

LIMIT SWITCH OPERATION MICH GIVE HIP KILLEN - GPAN GIVEN - C ACCORD - C AC

Wiring Diagrams JV-E04 (DC)







CLS: CLOSE LIMIT SWITCH (250VAC, 30VDC 5A) OLS: OPEN LIMIT SWITCH (250VAC, 30VDC 5A) ACLS: AUX. CLOSE LIMIT SWITCH (250VAC, 30VDC 5A) AOLS: AUX. OPEN LIMIT SWITCH (250VAC, 30VDC 5A)







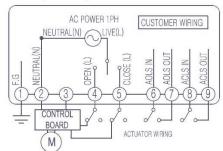
JV-E

Electric 1/4 Turn Johnson Valves Actuator 20Nm - 1200Nm

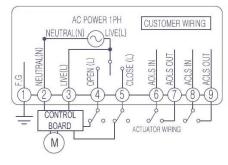


Wiring Diagrams JV-E05

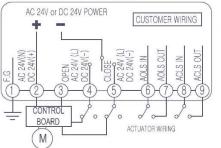
AC 1PH (110V. 220V) / 3 WIRE



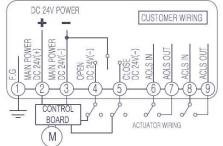
AC 1PH (110V. 220V) / 4 WIRE







24V DC / 4 WIRE

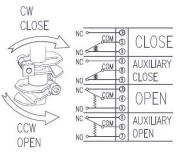


▶ DC 24V

M

ACTU

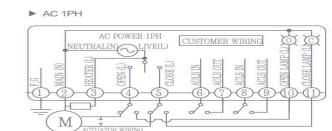
SWITCH WIRING



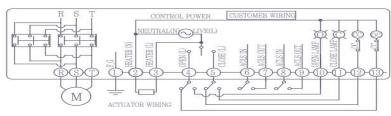
LIMIT SWITCH OPERATION

SWITCH	CLOSE
CLS COM-NC	
CLS COM-NO	
ACLS COM-NC	
ACLS COM-NO	
OLS COM-NC	
OLS COM-NO	and the second se
AOLS COM-NC	
AOLS COM-NO	

Wiring Diagrams JV-E10 - JV-E120



AC 3PH



► LIMIT SWITCH OPERATION

CUSTOMER WIRING

SWITCH	CLOSE	-IN	TERME	DIATE -	► OF	EN
CLS COM-NC		0				
CLS COM-NO						
ACLS COM-NC					_	
ACLS COM-NO	6					
OLS COM-NC		-				
OLS COM-NO						
AOLS COM-NC	b.					
AOLS COM-NO						





JV-E

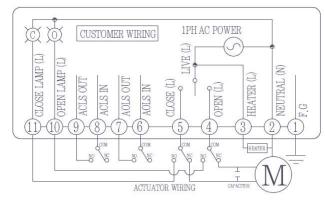
EXPLOSION PROOF Electric 1/4 Turn Johnson Valves Actuator 25Nm - 100Nm



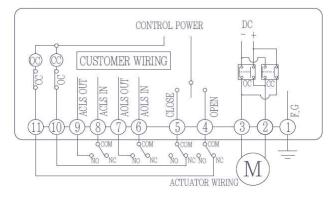
Standard Specifi	Standard Specifications										
Enclosure	Ex d IIB T4 IP67	Travel Angle	90° ± 5°								
Power Supply	110V & 220V (1PH) / 24VDC	Manual Operation	By Spanner 5mm								
Indicator	Flat type mechanical indicator (Dome type as option)	Cable Entries	2-PF1/2								
Limit Switches	2 x Open / 2 x Close 250VAC/5A	Ambient Temp	-20 to +70°C								

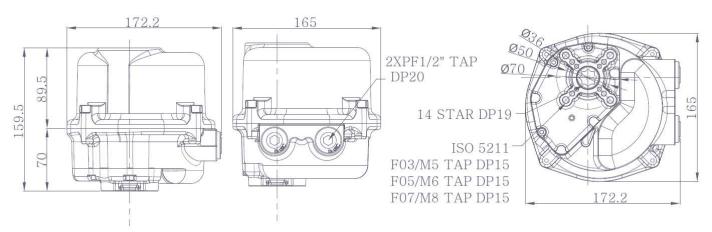
Model	Ма	aximu	m	Op. Time		Rate	d Current (/	۹)		Motor	Manual
No.	Torq	ue Ou	tput	50 / 60Hz	AC (AC (1PH)		AC (3PH)		Insulation / output	Handle
	0 °	45°	90 °	90° (sec.)	110V	220V	380V	440V	24V	(AC . DC)	Turns
JV-E25EXD	25	25	25	8/6.5	0.67/0.6	0.23/0.2	N/A	N/A	2	E . B/10W . 10W	6
JV-E60EXD	60	60	60	18/15	0.67/0.6	0.23/0.2	N/A	N/A	2	E . B/10W . 10W	6
JV-E80EXD	80	80	80	34/28	0.67/0.6	0.23/0.2	N/A	N/A	2	E . B/10W . 10W	6
JV-E100EXD	100	100	100	42/35	0.67/0.6	0.23/0.2	N/A	N/A	2	E . B/10W . 10W	6

AC 1PH



DC 24V









JV-E

Electric 1/4 Turn Johnson Valves Actuator c/w Local Control 160Nm - 1200Nm

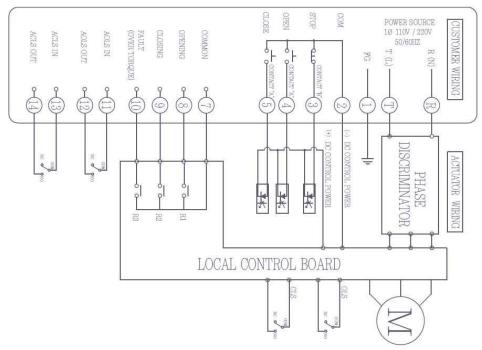


Standard Specif	ications		
Model Range	1PH & 3PH Local control 1PH & 3PH Local & Modulating control (with torque switch)	Travel Angle	90°±5°
Power Supply	110V & 220V (1PH) / 24VDC / 380V & 440V (3PH)	Manual Operation	JV-E16 By Spanner 5mm JV-E28, JV-E40 & JV-E50 By Spanner 8mm JV-E80 & JV-E120 By Handwheel
Indicator	Dome type mechanical indicator	Cable Entries	3-PF1/2
Limit Switches	2 x Open / 2 x Close 250VAC/5A	Ambient Temp	-20 to +60°C

Model	M	aximu	m	Op. Time		Rateo	d Current (A	N)		Motor	Manual
No.	Torque Output 50 / 60Hz		AC (1PH)	AC ((3PH) DC		Insulation / output	Handle		
	0 °	45°	90 °	90° (sec.)	110V 220V		380V	440V	24V	(AC . DC)	Turns
JV-E16	160	107	160	28/23	0.94/0.85	0.50/0.46	0.47/0.37	0.62/0.49	4	F . B/15W . 15W	19
JV-E28	280	190	280	40/33	0.94.0.85	0.50/0.46	0.47/0.37	0.62/0.49	4	F . B/15W . 15W	23
JV-E40	400	270	400	40/33	1.09/1.23	0.54/0.58	0.16/0.15	0.18/0.16	5.5	F . B/25W . 40W	23
JV-E50	500	350	500	40/33	1.55/1.75	0.72/0.90	0.30/0.28	0.40/0.30	N/A	F/40W	23
JV-E80	800	540	800	51/42	1.97/2.83	1.09/1.46	0.5/0.54	0.57/0.55	N/A	F/60W	77
JV-E120	1200	800	1200	51/42	1.97/2.83	1.09/1.46	0.5/0.54	0.57/0.55	N/A	F/90W	77

*Maximum current can be +30% from rated current.

Wiring for 1PH Local Control (JV-E16, JV-E28, JV-E40, JV-E50, JV-E80 & JV-E120)



STOP : REMOTE MODE ACTUATOR STOP OPEN : REMOTE MODE OPEN RUNNING CLOSE : REMOTE MODE CLOSE RUNNING R1 : OPENING MONITOR RELAY R2 : CLOSING MONITOR RELAY R3 : FAULT RELAY OLS : OPEN LIMIT SWITCH CLS : CLOSE LIMIT SWITCH