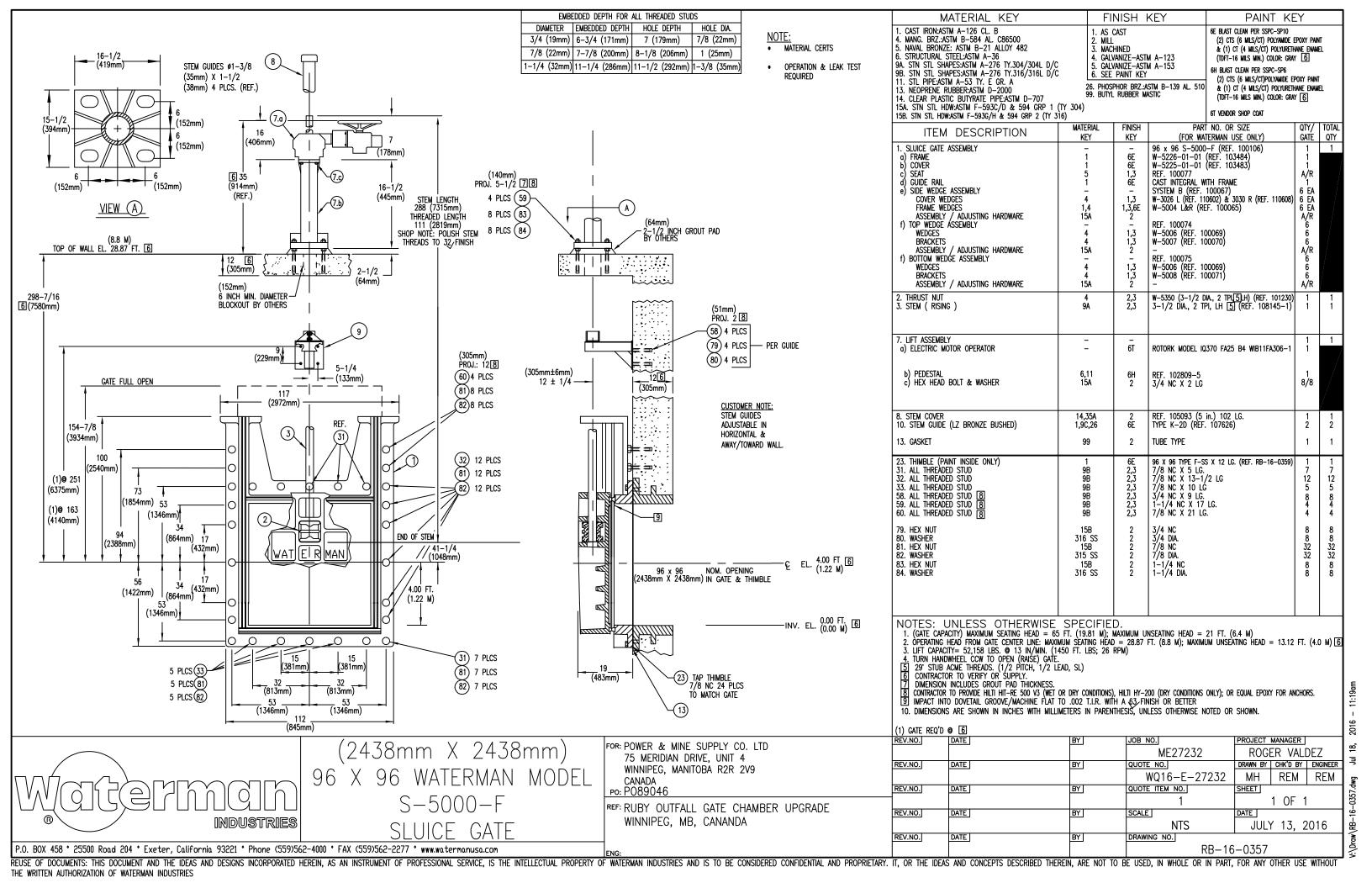
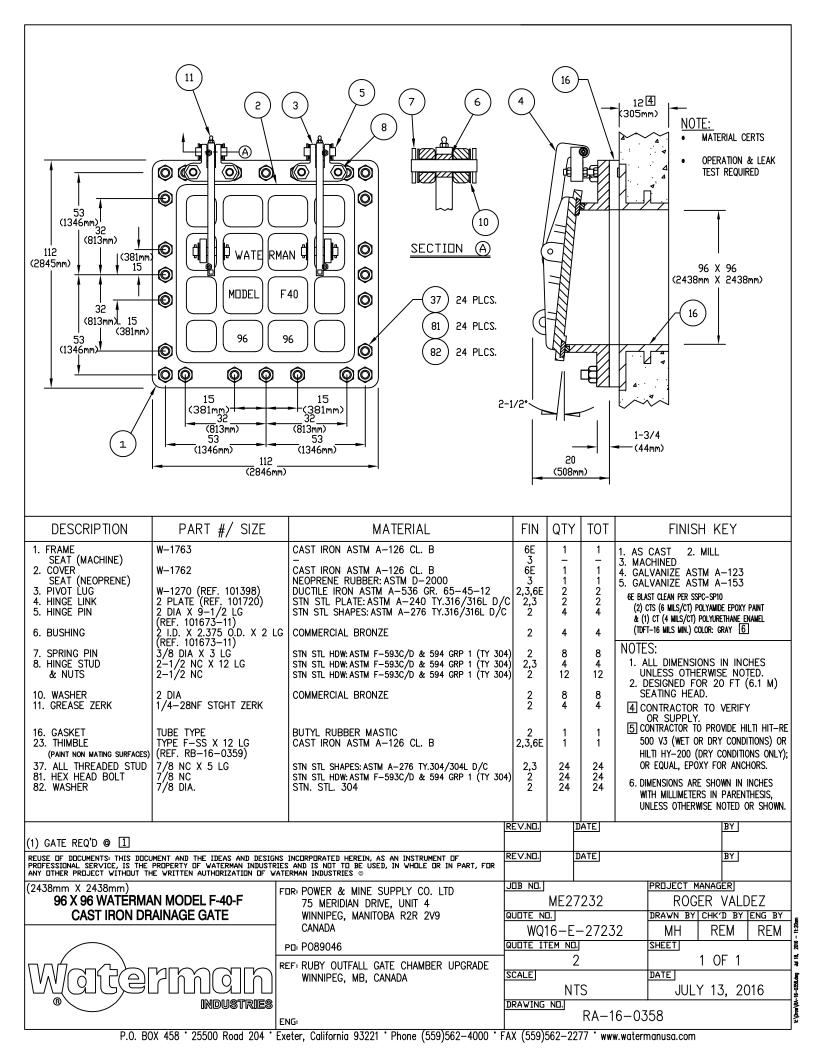
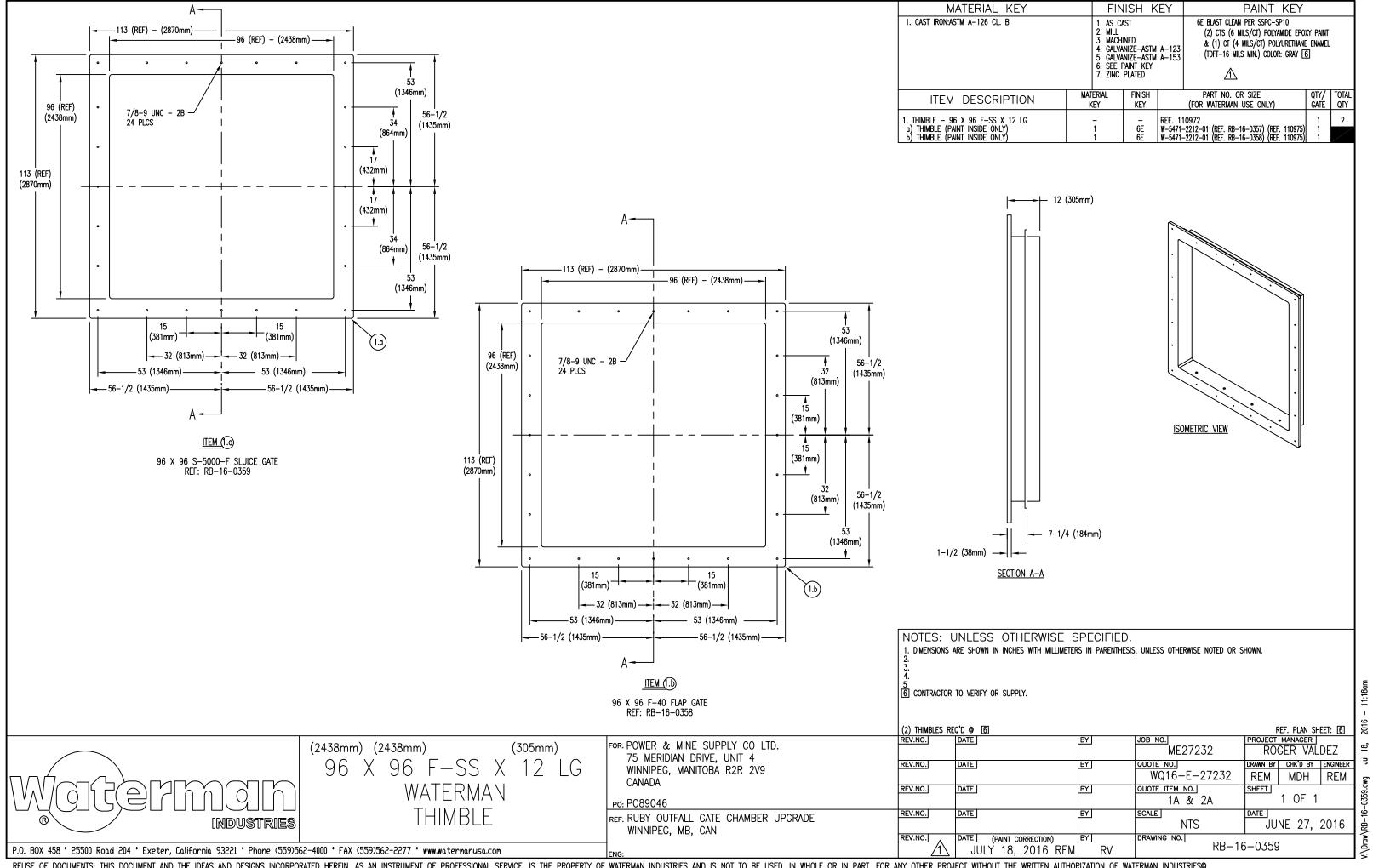
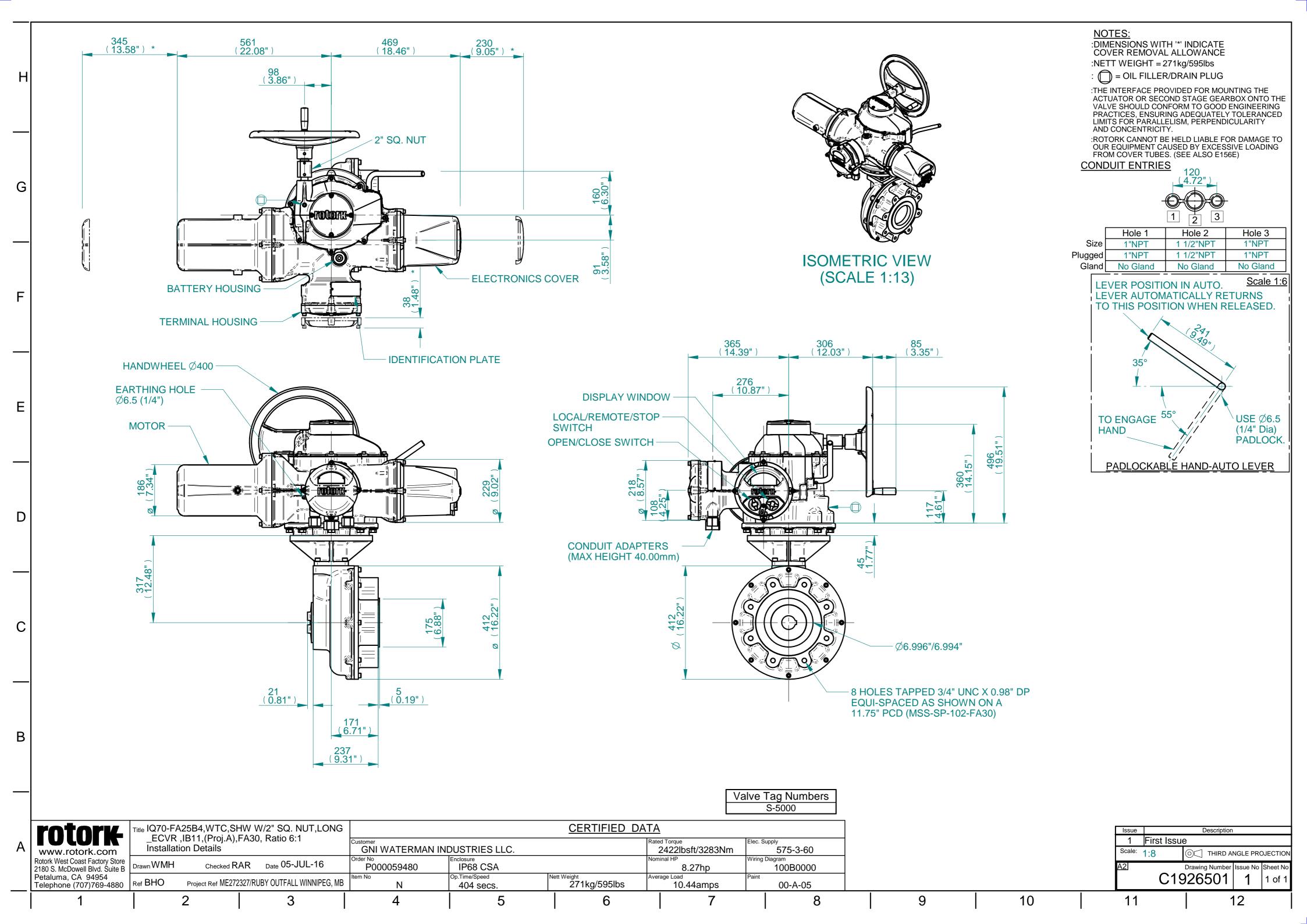
Template Version: C020130321- Main C

APPENDIX E CITY SUPPLIED SHOP DRAWINGS











C19265



LINE ITEM	UNIT QTY.	CUSTOMER PART No.	ACTUATOR MODEL No.	SERVICE	WIRING DIAGRAM	TAG(S)
1	1		IQ70FA25B4	Isolating	100B0000	S-5000



IQ Electric Motor Actuator Data Sheet



TQ ETECTIFC MOTOR ACTUATOR DATA SHEET

Job Number	C	19265 Line: 1							
Contract Eng.:			Date:	7/8/2016					
Project:	Project: ME272327 / RUBY OUTFALL Winnipeg, MB								
Consultant:									
MOV Tag No.'s:	OV Tag No.'s: S-5000								
Shop Drawing:	C192	26501							
CUSTOMER DAT	Α		VALVE DATA						
Name:		GNI WATERMAN INDUSTRIES LLC.	Make:						
P.O. No.:		P000059480	Size:						
P.O. Item:		N	Type:						
Cust. Part Number:	司		Class:						
ACTUATOR DAT	Α			•					
Model No.:		IQ70FA25B4	Handwheel Type:	30:1 SIDE					
Base:		FA25	Paint Spec.:	Polyester Powder Coating					
Actuator/Gear Weight:		595 lbs	Conduit 1 & 3:	ASA 1.0"					
Enclosure:		CSA 4	Conduit 2:	ASA 1.5"					
Rated Torque:		475 lbft	Conduit 4:	None					
Stall Torque Range:		665 - 1140 lbft	Lubrication:	SAE80EP					
Wiring Diagram:		100B0000	Operating Temp.:	-30C TO +70C					
Operating Time:		404 sec							
MOTOR DATA									
Locked Rotor Amps:		85	Supply V/Ph/Hz:	575V / 3Ph / 60Hz					
Rated Load Amps:		24	Insulation Class/Duty:	F / 15 min					
*Nominal Load Amps:		10.44 A	Service Factor	1					
*Nom. Motor HP:		8.27	Type:	Totally Enclosed Non-Ventilated					
*Nominal HP and Run Lo SECONDARY GE		nps are at 1/3 full rated torque output							
Model Number/Size:		IB11	Make:	EXS					
Ratio:		6:1'	Lubrication:	Grease					
Combined Torque:		2422 lbft	Gearbox Base:	FA30					

Document Title: STANDARD IQ REMOTE CONTROL CIRCUITRY (24VDC)

THE BLUETOOTH® SETTING TOOL ENABLES ALL CONFIGURABLE ACTUATOR SETTINGS TO BE MADE.

BEFORE PUTTING THE ACTUATOR INTO SERVICE, IT MUST BE INSTALLED AND COMMISSIONED IN ACCORDANCE WITH PUBLICATION PUB002-039 INSTALLATION AND MAINTENANCE INSTRUCTIONS.

UNLESS SPECIFIED WITH ORDER, THE ACTUATOR IS DESPATCHED WITH DEFAULT SETTINGS AS LISTED IN PUBLICATION PUB002-040.

FOR IQ CONTROL AND MONITORING FACILITIES, REFER TO PUBLICATION PUB002-041.

NOTE

ACTUATOR REMOTE CONTROL SIGNALS MAY BE INTERNALLY OR EXTERNALLY SUPPLIED.

INTERNALLY SUPPLIED:

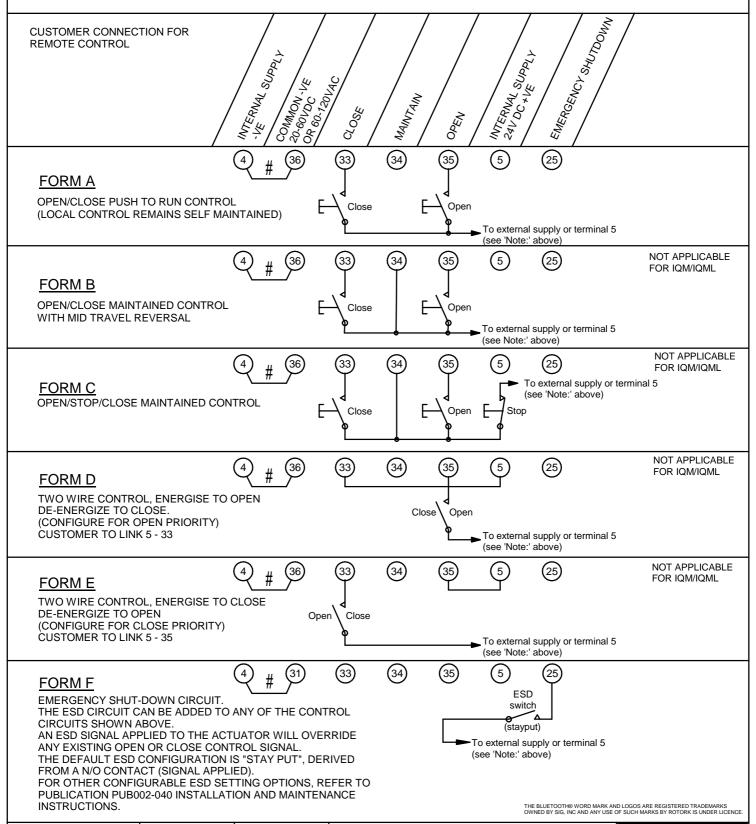
FIT LINK '#' AS SHOWN AND CONNECT REMOTE CONTROL CONTACTS TO INTERNAL SUPPLY ON TERMINAL 5.

EXTERNALLY SUPPLIED:

CONNECT CONTROL CONTACTS TO EXTERNAL SUPPLY LIVE/+VE. CONNECT SUPPLY ZERO/-VE

TO TERMINAL 36 & 31 FOR SUPPLIES 20-60VDC OR 60-120VAC

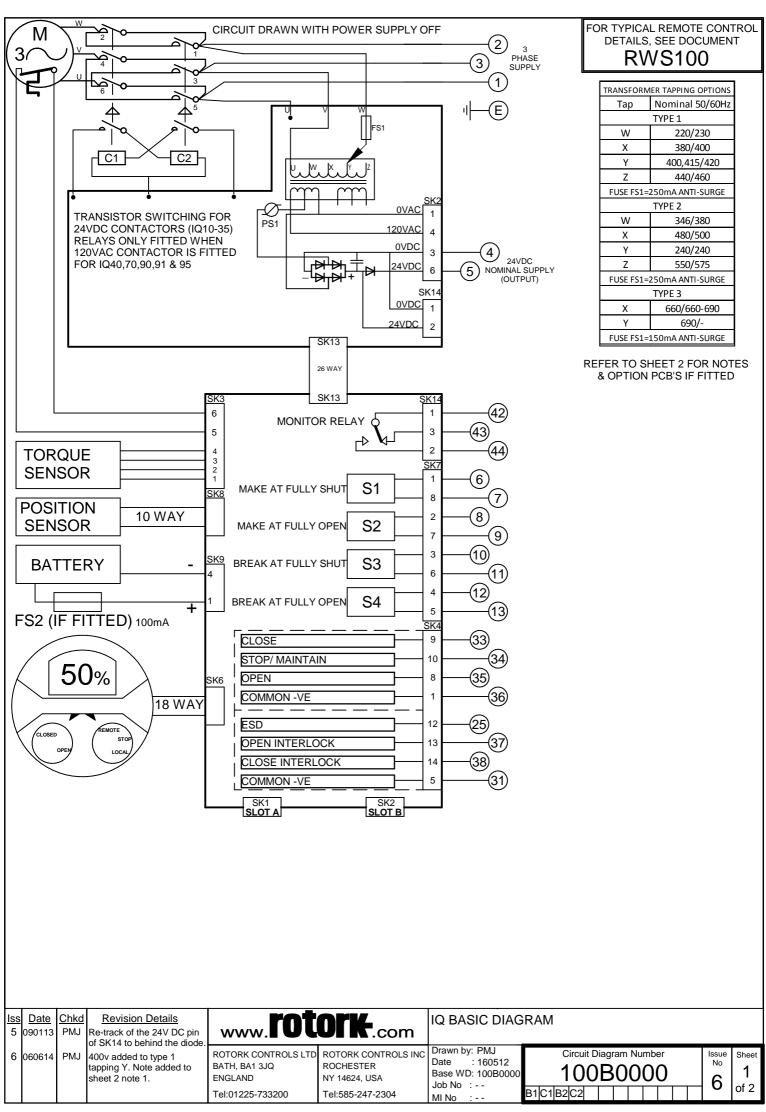
FOR CONTROL FORMS D & E, LINK '#' MUST BE FITTED. CONNECT ZERO/-VE AS INDICATED ABOVE.



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This is an Associative Document that needs to be read in conjunction with the appropriate Rotork Wiring Diagram.

RWS100 3



IQ3

NOTES

1.FUSES:

- -PS1 is a self-resetting fuse.
- -Refer to publication PUB002-039 for approved fuses FS1 and FS2.
- -Actuator rated voltage specified on nameplate. Voltage tolerance +/-10%, applies for rated torque performance; duty cycle is not gauaranteed.

2.REMOTE CONTROL:

- -For typical remote control circuits refer to:
- -RWS indicated or PUB002-041.
- -For DC and AC control, connect -ve/0V to terminal 36.
- -(For negative switch / positive common, refer to RWS indicated).
- -Control signal threshold voltages:
- -DC: "on" ≥16Vdc / "off" ≤8Vdc, max 60Vdc. -AC: "on" ≥60Vac / "off" ≤40Vac, max 120Vac.
- -Control signal duration to be 300ms minimum.
- -Maximum current drawn from remote control signals is:
- -8mA at 24Vdc or 12mA at 120Vac. -Supply provided on terminals 4 & 5:
- -Intended for remote control.
- -Max external load 5W at 24Vdc / 5VA at 120Vac

3.INDICATION:

- -For typical position, status and alarm indication see PUB002-041. -"S" contacts are user configurable and are shown in their default
- -Refer to PUB002-040 for functions and configuration instructions.
- -Monitor Relay indicates actuator availability for remote control (shown "unavailable"). It can be configured to exclude local/remote selection. -Refer to PUB002-040 for monitored functions and configuration
- instructions.
- -Voltage applied to indication contacts must not exceed 150Vac -Individual Switch current must not exceed 3.5A inductive, 5A resistive and no more than 8A in total for all 4 contacts.

4.BATTERY:

- -Battery maintains local and remote "S" contact indication only.
- -Refer to installation manual for approved replacement battery types.

Circuit Diagram Number 100B0000 6