

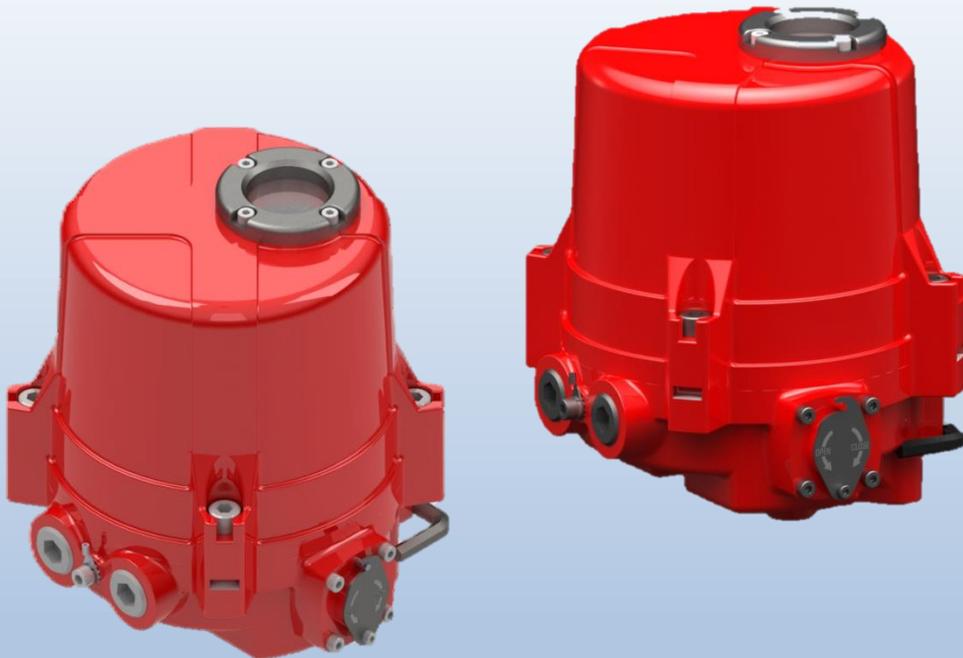


i-Tork Controls design, produces and provide high quality actuators

Electric Actuator

ITX0080 Explosion Proof

NEW



i-tork[®]

<http://www.i-tork.com>

Introduction

The new **ITX0080 Explosion Proof** from i-Tork Controls has been developed for a wide range of applications with many years of experience with ITQ explosion proof actuators used in various Valve Automation Field and to service reliable performance, long trouble free operation, more flexibility and maximized ability to integrate fully into sophisticated Explosion proof circumstances and hazardous area.



Advantage (Why use i-Tork?)



Product Features (What are different?)

- Over Torque limiting by PCB
(To Prevent damage from excessive force)
- Over Torque warning can be checked on customer's PLC
by sending signal from PCB
- Self-Locking Gear System
- Free Voltage (AC100~240V) with BLDC motor
- Space heater on PCB
- Power ON LED on the PCB
- Built-in type Modulating card
- ISO 5211 Mounting Flange Size F05/F07
- Explosion proof : Ex d II C T4

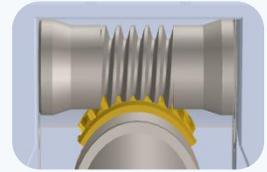
Inner structure



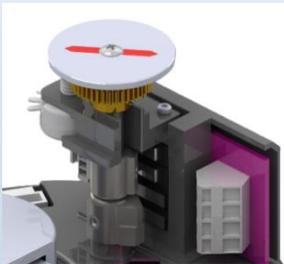
PCB with terminal blocks.
Torque limiting by PCB



Indicator



Worm Gear
(Self-Locking)



Limit switches



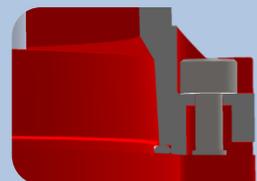
Manual operation
(with L-wrench)



Robust structures



ISO5211 Mounting Flange
(F05/F07)

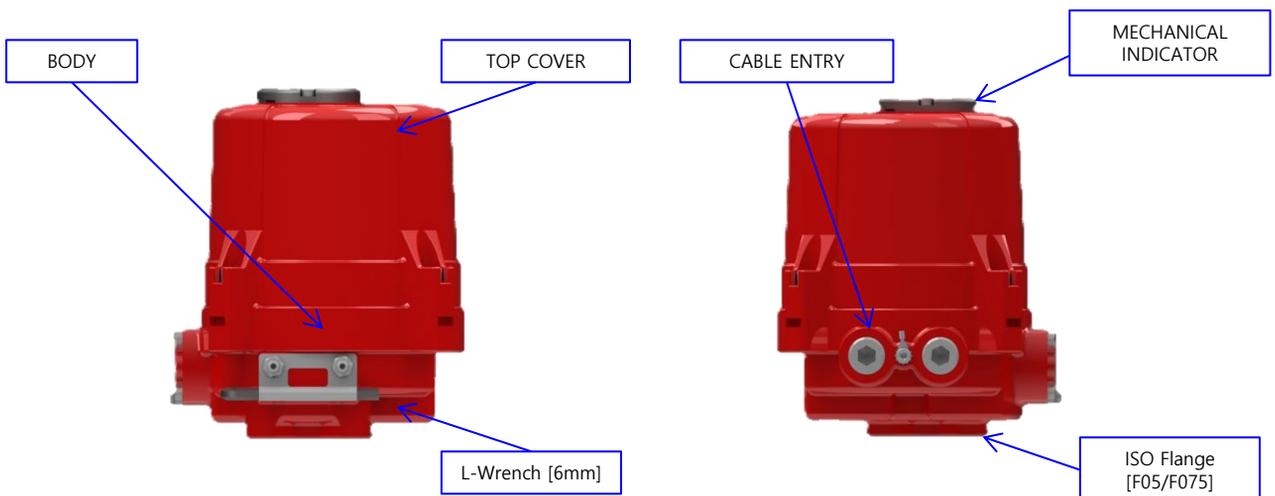


Explosion-proof structures

ITX0080 Explosion Proof

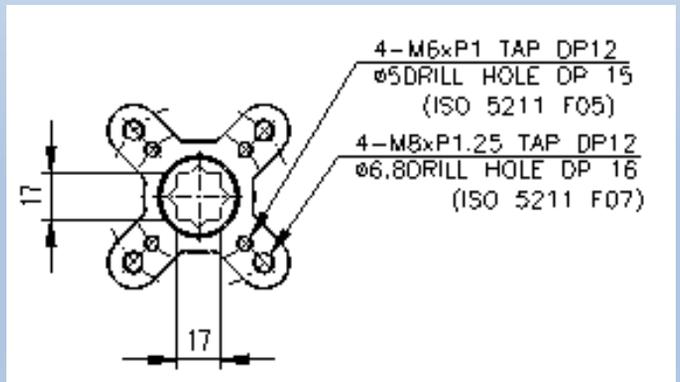
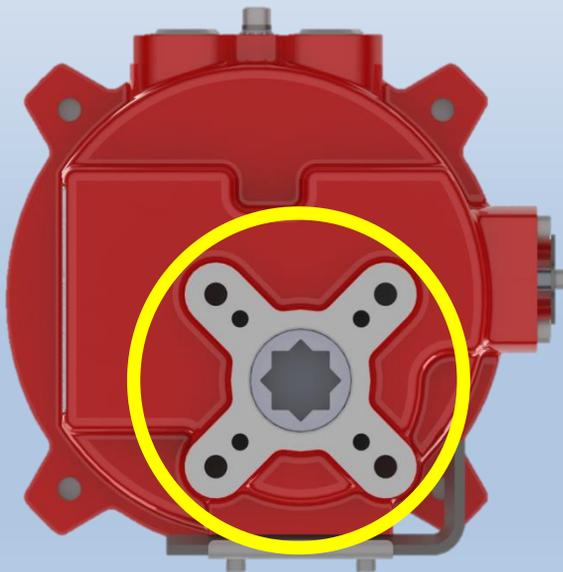
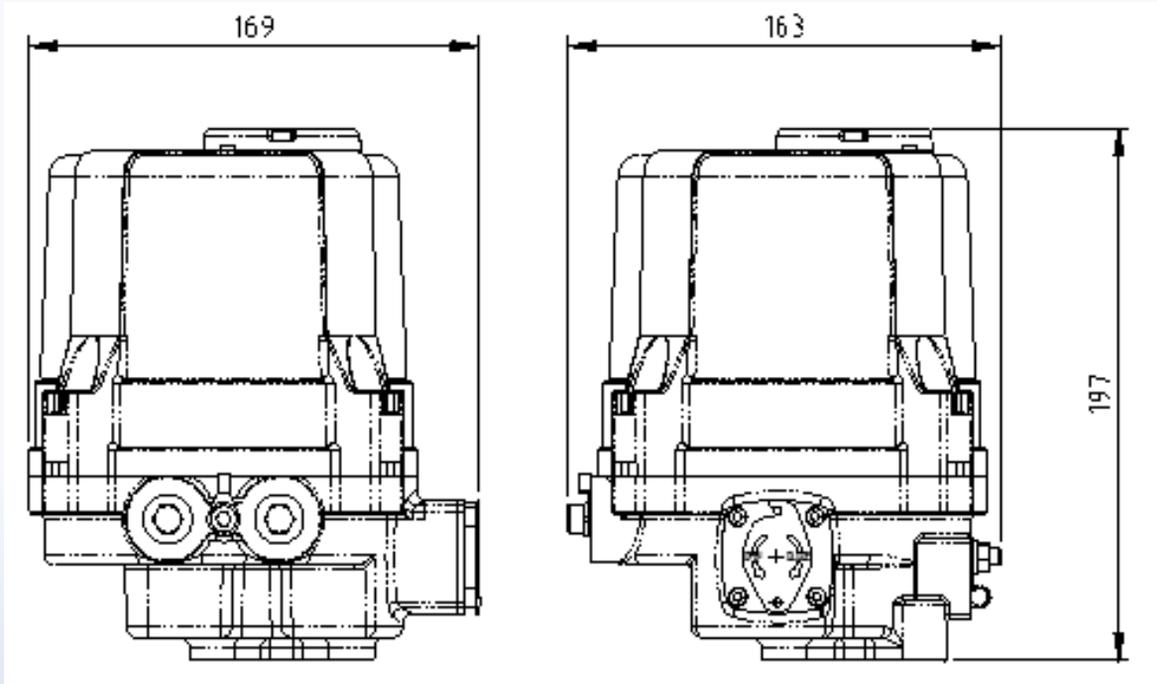
Standard Specification

	ITX0080	REMARK
TORQUE (Nm)	80 Nm	
OPERATING SPEED (sec)	20 sec	
MAIN POWER SUPPLY	AC 100 ~ 240 V (Free Voltage) AC/DC 24V	BLDC MOTOR
DUTY CYCLE (ON/OFF)	S2 : 30min	
DUTY CYCLE (MODULATING)	S4 : 50%	
CONTROL SIGNAL(MODULATING)	4~20mA / 4~20mA (Option : 0~10VDC, 0~5VDC, 1~5VDC, 2~10VDC)	Input / Output
SPACE HEATER	2W	
LIMIT SWITCH	2ea Open, Close	
AUX. LIMIT SWITCH	2ea Open, Close	
AMBIENT TEMPERATURE	-20°C~+60°C	
AMBIENT HUMIDITY	90%RH MAX(NON-CONDENSING)	
ENCLOSURE	IP 67 (OPTION : IP68)	
EXPLOSION PROOF	Ex d II C T4	
CABLE ENTRY	2-M20x1.5	
WEIGHT(kg)	3.5	



ITX0080 Explosion Proof

Dimension (mm) [is subject to change]



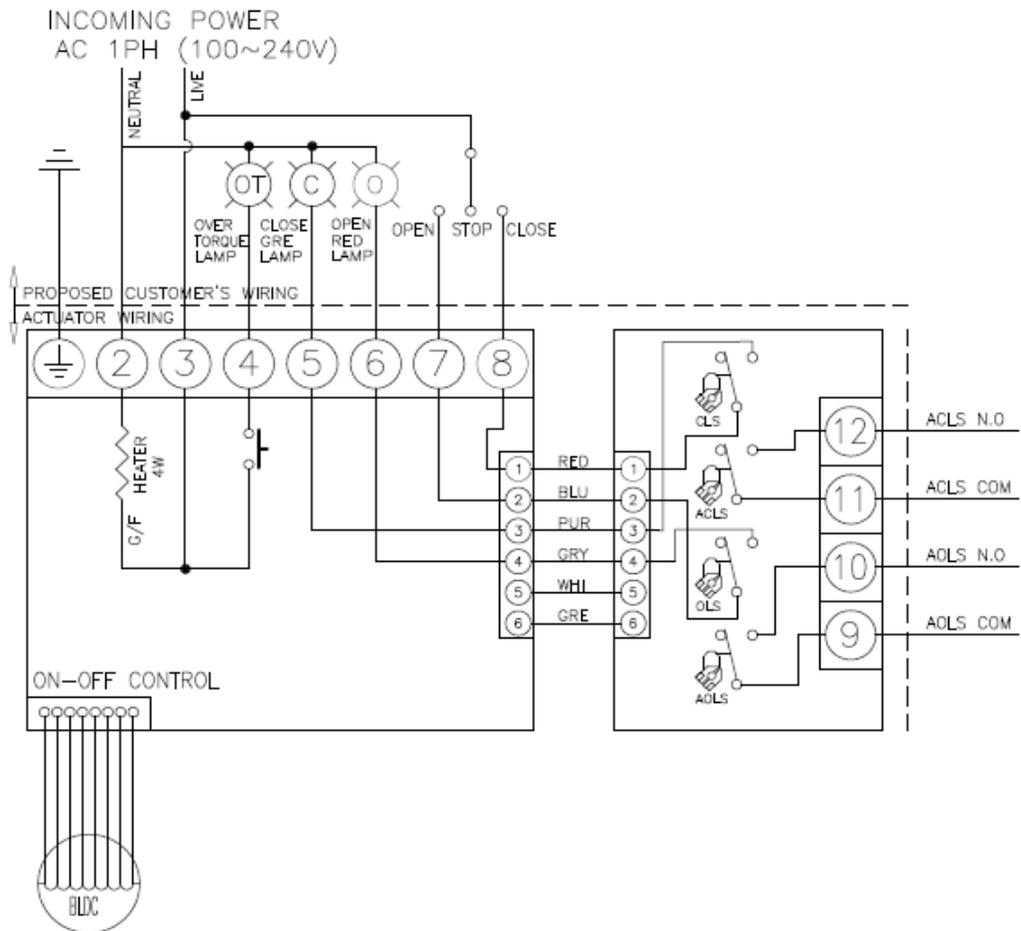
Wiring Diagram

CLS : CLOSE LIMIT SWITCH (250VAC 3A)

OLS : OPEN LIMIT SWITCH (250VAC 3A)

*EACH ACTUATOR SHOULD BE POWERED THROUGH ITS OWN INDIVIDUAL SWITCH OR RELAY CONTACTS TO PREVENT CROSS FEED BETWEEN TWO OR MORE ACTUATORS.

SWITCH	LIMIT SWITCHES OPERATION	
	CLOSE ←	INTERMEDIATE → OPEN
CLS 1-2		
CLS 1-3		
OLS 1-2		
OLS 1-3		
ACLS 1-3		
AOLS 1-3		

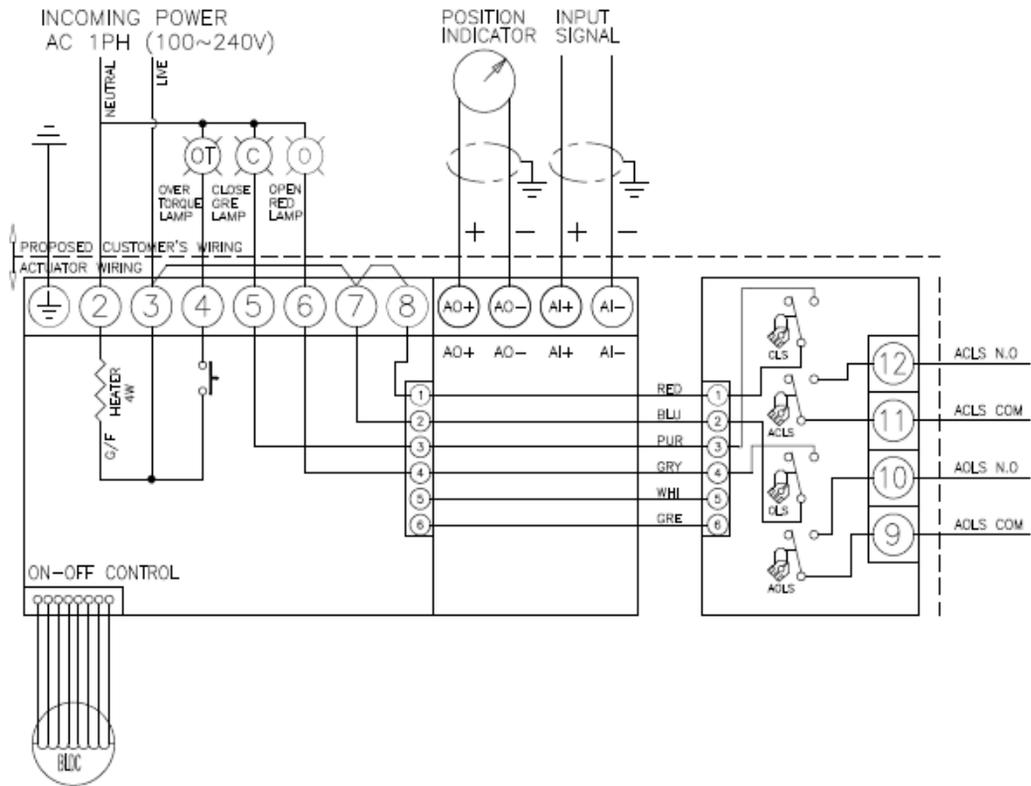


	 http://www.i-tork.com	DRAWN	DESIGN	CHECKED	APPROVER
		K.S.PARK2			K.S.PARK2
	PART NAME	ISSU. DEPT.	DATE	SIZE	PROGRAM
	1PH WIRING DIAGRAM	ITCDR	2024.11.12	A4	AUTOCAD LT 2010
	OPTION NAME	WIR No.			
	STANDARD	ITX0080-70000-A			
ITX-0080					
APP'L FILE					

Wiring Diagram

CLS : CLOSE LIMIT SWITCH (250VAC 3A)
 OLS : OPEN LIMIT SWITCH (250VAC 3A)
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LIMIT SWITCHES OPERATION			
SWITCH	CLOSE ←	INTERMEDIATE	→ OPEN
CLS 1-2			
CLS 1-3			
OLS 1-2			
OLS 1-3			
ACLS 1-3			
AOLS 1-3			



	 http://www.i-tork.com	DRAWN	DESIGN	CHECKED	APPROVER
		K.S.PARK2			K.S.PARK2
	PART NAME	ISSU. DEPT.	DATE	SIZE	PROGRAM
	1PH WIRING DIAGRAM	ITCDR	2024.11.12	A4	AUTOCAD LT 2010
	OPTION NAME	WIR No.			
ITX-0080	RPC	ITX0080-70500-A			
APP'L FILE					

ITX Explosion Proof Series

Standard Specification

	ITX0050	ITX0080	REMARK
TORQUE (Nm)	50 Nm	80 Nm	
OPERATING SPEED (sec)	13 sec	20 sec	
MAIN POWER SUPPLY	AC 100 ~ 240 V (Free Voltage) AC/DC 24V		
DUTY CYCLE (ON/OFF)	S2 : 30min		
DUTY CYCLE (MODULATING)	S4 : 50%		
CONTROL SIGNAL(MODULATING)	4~20mA / 4~20mA (Option : 0~10VDC, 0~5VDC, 1~5VDC, 2~10VDC)		Input / Output
SPACE HEATER	4W	2W	
LIMIT SWITCH	2ea Open, Close		
AUX. LIMIT SWITCH	2ea Open, Close		
AMBIENT TEMPERATURE	-20°C~+60°C		
AMBIENT HUMIDITY	90%RH MAX(NON-CONDENSING)		
ENCLOSURE	IP 67 (OPTION : IP68)		
EXPLOSION PROOF	Ex d II C T4		
CABLE ENTRY	2-M20x1.5		
WEIGHT(kg)	3	3.5	



ITX0050



ITX0080

E - ITQ & ITX Explosion proof series
Quarter Turn Actuators for butterfly and ball valves



ITQ0020

ITQ0040

ITQ0080

ITX0050

ITX0080



I-TORK CONTROLS
PERFECT SOLUTION IN VALVE AUTOMATION!

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