

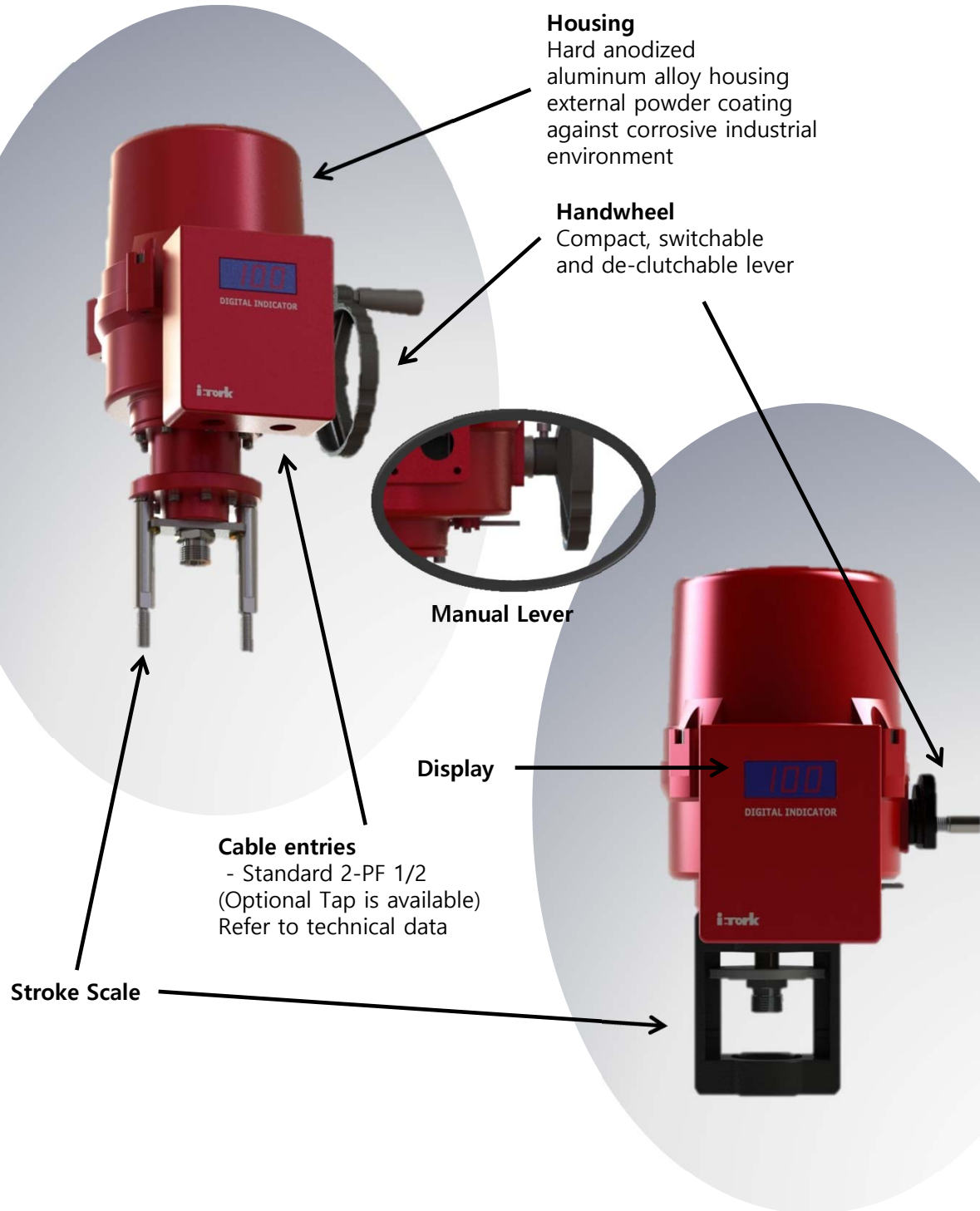
Electric Linear Actuator ITL Series



ITL ELECTRIC LINEAR ACTUATOR

I-tork controls designs, produces and provides high quality electric actuator and services related to industrial valve automation and controls.

ITL series linear actuator has been developed for a wide range of linear applications and to service reliable performance, long trouble free operation, more flexibility and maximized ability to integrate fully into sophisticated control system.



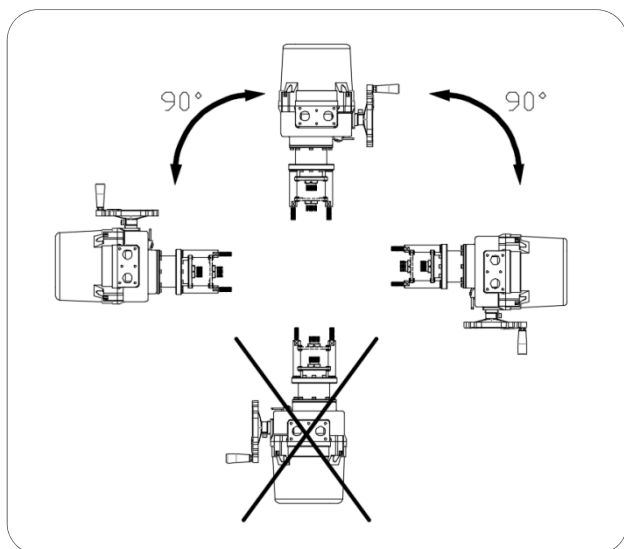
ITL ELECTRIC LINEAR ACTUATOR

Technical Data

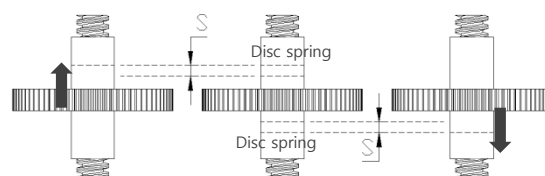
	ITL01	ITL02	ITL04	ITL06	REMARK
STROKE (mm)	20~30		20~50		
THRUST FORCE (KN)	1	2	4	6	
ACTUATOR SPEED (mm/sec)	0.95 (Option:1.28mm/s,1.59mm/s)				3-OPTION
POWER	AC110V , AC220V , DC24V				
FREQUENCY	50Hz / 60Hz				
POWER CONSUMPTION	90.2VA(AC220V), 88VA(AC110V)				
REGULAR LOAD (A)	0.41A (AC220V) 0.8A (AC110V)				
MOTOR SPEED (rpm)	1650rpm(60Hz)/1150rpm(50Hz)				
CONTROL INPUT SIGNAL	4~20mA(options:0~10VDC,2~10VDC)				
CONTROL OUTPUT SIGNAL	4~20mA(options:0~10VDC,2~10VDC)				
MOTOR INSULATION CLASS	B				
MOTOR PROTECTION	THERMAL PROTECT				
SPACE HEATER	5W (110V/220VAC) FOR ANDTI-CONDENSING				
LIMIT SWITCH	4 EA (FOR 2 OPEN / 2 CLOSE (SPDT 3A 250VAC RATING)				
FORCE SWITCH	2 EA (FOR OPEN / CLOSE (SPDT 3A 250VAC RATING)				
AMBIENT LIMITS TEMPERATURE	-20℃~+70℃				
MATERIALS	HOUSING : Aluminum Die Casting , GEAR : STEEL,				
HOUSING PROTECTION GRADE	WEATHERPROOF IP67				
CABLE GLAND	2-PF1/2 TAP (OPTION : M25x1.5, M20x1.5, NPT1/2, G1/2)				
WEIGHT(kgf)	4.7		5.2		

ITL ELECTRIC LINEAR ACTUATOR

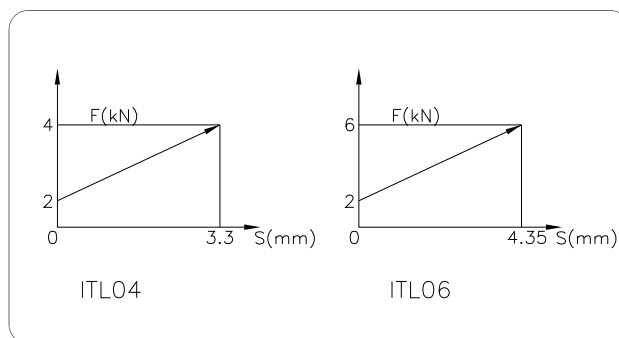
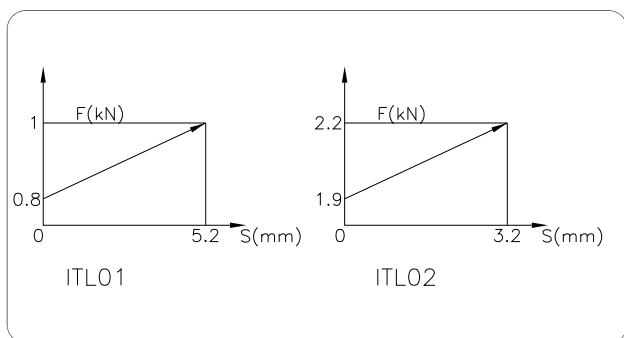
Correct mounting direction



Disc spring arrangement



Setting closing(opening) force

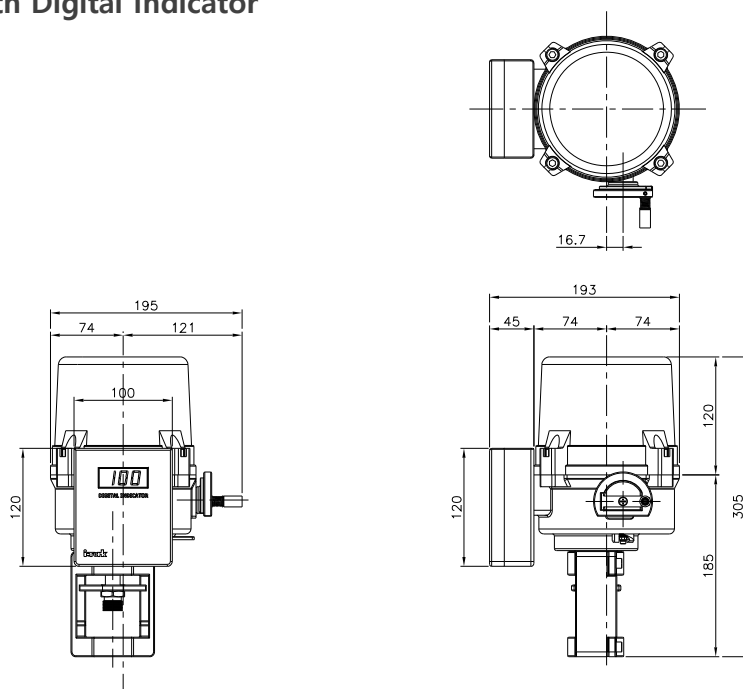


VLAVE STEM	$\Phi 12(\text{MAX})$	REMARK
VALVE MOUNTING	$\Phi 42$ (Assemble the hook) / STEM THREADS(mm) M20(MAX)	
MOUNTING DIRECTION	Any direction except for heading downward	
LINKAGE MATERIAL	Aluminum alloy hard anodized for anti-corrosion	ITL01/02
PILLAR MATERIAL	Non corrosive Material	ITL04/06

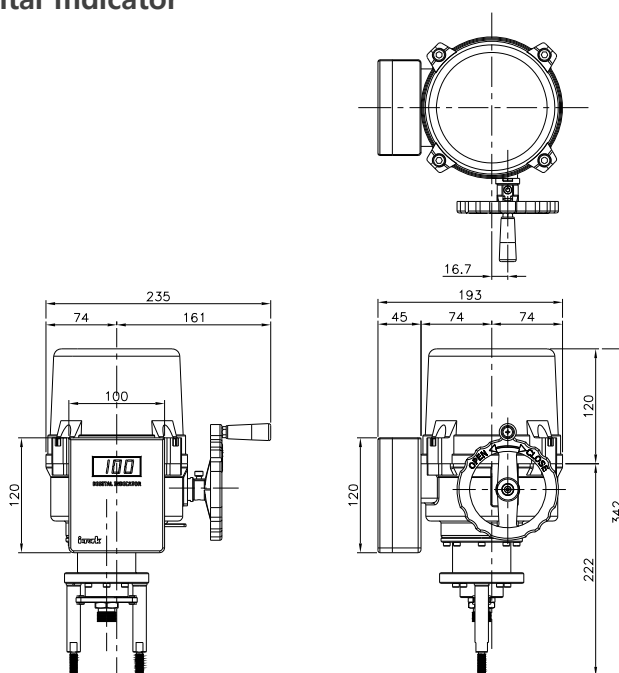
ITL ELECTRIC LINEAR ACTUATOR

Dimensions(mm)

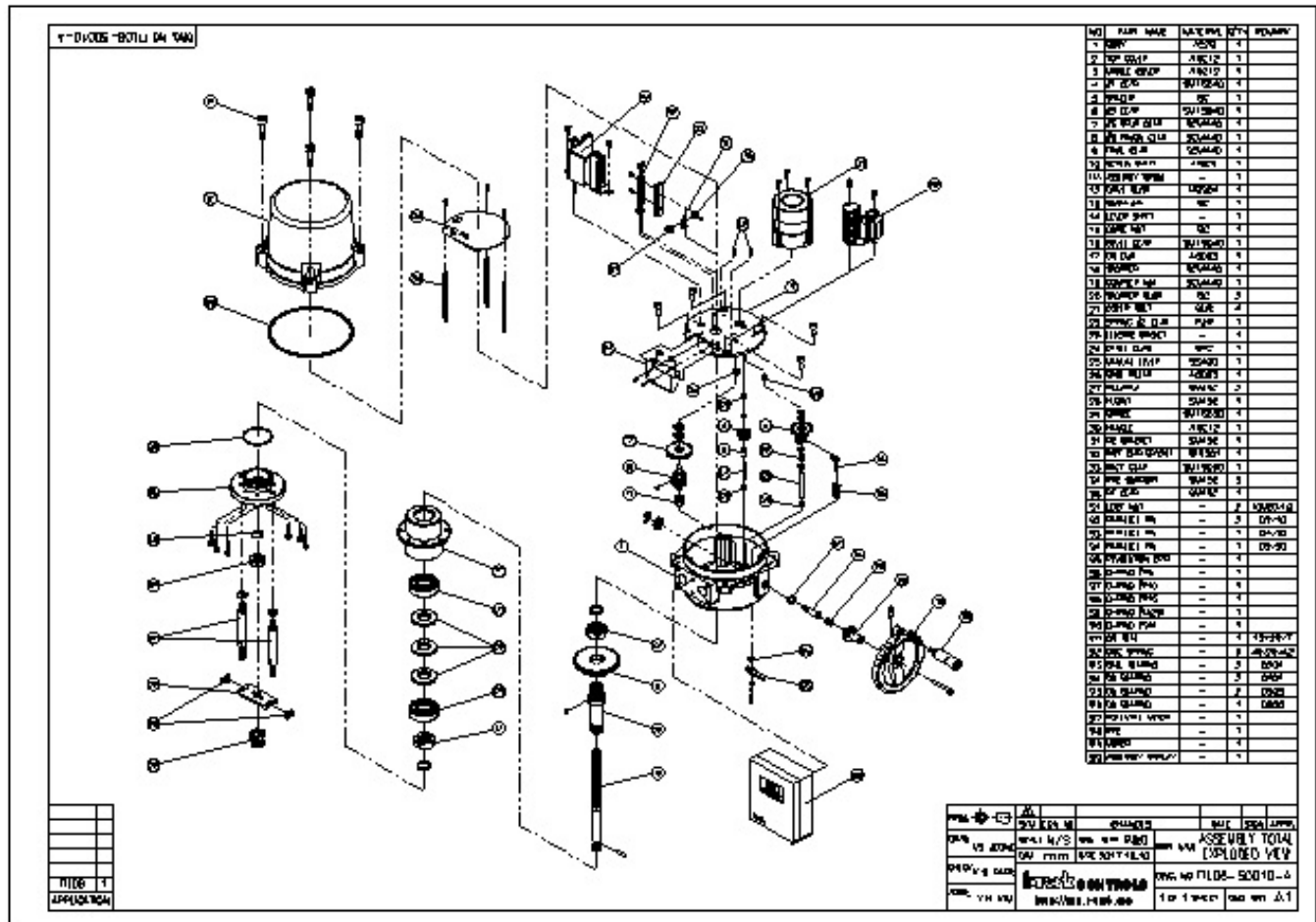
ITL01/02 with Digital Indicator



ITL04/06 with Digital Indicator



ITL ELECTRIC LINEAR ACTUATOR



Options available

- * Digital Indicator (Display for ON/OFF or RPC type)
- * CT (Current Transmitter 4-20mA with gearing)
- * RPC (with 3 option as below)
 - 1) Remote Position Controller for input only
 - 2) RPC1 : Relay type (4-20mA input/output) with gearing
 - 3) RPC2 : SSR type
- * Local Control (LP4),
- * Bus communication (Profibus, CANopen)

ITL ELECTRIC LINEAR ACTUATOR

Comparison Table for Specification

	i-Tork					
	ITL01/02	ITL04/06	IQL04	IQL06	IQL08	IQL10
STROKE (mm)	20~30	20~50	40	40	50	50
THRUST FORCE (KN)	1.0 / 2.0	4.0 / 6.0	4.0	6.0	8.0	10
SPEED (mm/sec)	0.95~1.59		0.83	0.90	0.80	0.80
POWER	AC110V, 220V, DC24V		AC110V, 220V, DC24V			
CONSUMPTION	88VA (110V) , 90.2VA (220V)		110 / 55VA	121/ 61.6VA	96.8 / 101.2VA	101.1/ 105.6VA
MOTOR SPEED	1650RPM		1650RPM		1650RPM	
SIGNAL INPUT	4~20mA (0~10V,2~10V option)		4~20mA (0~10V,2~10V option)		4~20mA (0~10V,2~10V option)	
SIGNAL OUTPUT	4~20mA (0~10V,2~10V option)		4~20mA(0~10V,2~10V option)		4~20mA(0~10V,2~10V option)	
LIMIT SWITCH	4ea (open:2/close:2)		2ea (open:1/close:1)		4ea (open:2/close:2)	
FORCE SWITCH	2ea (open:1/close:1)		NONE		2ea (open:1/close:1)	
AMBIENT LIMITS TEMP	-20~+70°C		-20~+70°C		-20~+70°C	
MOTOR INSULATION	B class (130°C) NEMA		F class (145°C) NEMA		F class (145°C) NEMA	
MATERIALS	Aluminum Die Casting		Aluminum Die Casting		Aluminum Die Casting	
ENCLOSURE	IP67		IP66		IP66	
CABLE ENTRIES	2-PF1/2 OPTION : M25x1.5 , M20x1.5 NPT1/2 , G1/2		2-PF3/4 OPTION : M25x1.5, M20x1.5 NPT3/4 , G3/4		2-PF3/4 OPTION : M25x1.5 , M20x1.5 NPT 3/4, G3/4	
WEIGHT(kgf)	4.7	5.2	7.0	8.0	15	16
MOUNTING DIRECTION	90°		90°		90°	
APPLICABLE VALVE	2WAY, 3WAY		2WAY, 3WAY		2WAY, 3WAY	
* SIZE	Φ148x305	Φ148x342	172x501		229x555	

* SIZE : except Handwheel

CERTIFICATION

Quality Management System



ISO9001



ISO14001



RANGE OF PRODUCTS



***Small Size Electric Quarter-turn
Actuator E-ITQ Series***



***Electric Quarter-turn
Actuator ITQ Series***



***Electric Linear
Actuator IQL Series***



***Multi-turn
Actuator ITM Series***



***Pneumatic Actuator PDS Series
Position Monitoring Switches
ITS Series***



***Heavy-Duty Pneumatic
Actuator IS & IC Series***

The details of this catalog are subject to change without prior notification.

i-TORK[®] CONTROLS Co., Ltd.

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