



- Simple zero and span adjustment
- Easy 1/2 split range setting
- Auto / Manual switch
- IP66 Weather proof



FLOU c o n t r o l s

Introduction

Jflow Controls is a professional brand of control valve accessories. We are trying to provide excellent quality of product through long-term field experience and manufacturing background of experience.

5700 Series is state-of-the-art electro-pneumatic positioner. It is designed for user-friendly and built-in type for convenience features and durability.

Product Description

5700 Series Electro-pneumatic positioner control valve stroke in response to input signal of 4-20mA from control panel, DCS, or calibrator.

Product Features

- Applied to various control valve system.
 Fast response time, durability, and excellent stability.
 Simple zero and span adjustment.
 IP 66 enclosure.
 Easy maintenance with replaceable modules.
 Resistant to vibrations and No resonance between 5 200 Hz.
 - By-pass valve (A/M switch) installed.











Product Specification

Itom Tuno		570)0L	5700R				
Item.Type		Single	Double	Single	Double			
Input Signal		4~20mA DC						
Impedance		250						
Supply Pressure		20 to 102 PSI						
Stroke		10~150mm 0~90°						
Air Connection		1/4" NPT						
Gauge Connection		1/4" NPT						
Conduit		1/2" NPT						
		Non-Explosion						
Explosion Pro	Explosion Proof		Ex dmb IIB T5/T6					
			Ex dmb IIC T5/T6					
			Ex ia IIC T5/T6					
Enclosure		IP66						
Ambient	Operating Temp.	-20°C~70°C (Standard)						
Temp.		-40°C~70°C(Low Temp), -20°C~120°C (High Temp)						
iemp.	Explosion Temp.	-40~60°C(T5) / -40~40°C(T6)						
Linearity	Linearity		±2.0% F.S	±1.0% F.S	±2.0% F.S			
Sensitivity		±0.2% F.S	±0.5% F.S	±0.2% F.S	±0.5% F.S			
Hysteresis		±1.0% F.S						
Repeatability		±0.5% F.S						
Air Consumption		Blow 0.09 CFM (Sup=20 PSI)						
Flow Capacity		Over 2.9 CFM (Sup=20 PSI)						
Material		Aluminum Diecasting						
Weight		6.2 lbs						

- Tested under ambient temperature of 20°C, absolute pressure of 760mmHg, and humidity of 65%.

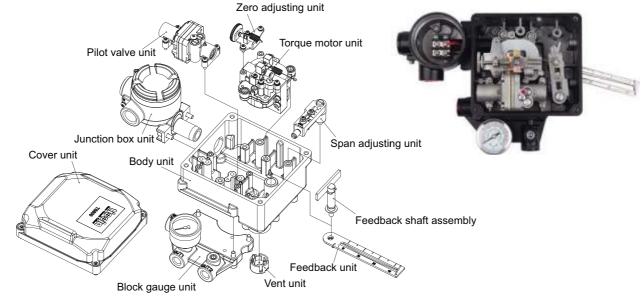
- Please contact Jflow Controls for detailed testing specification.





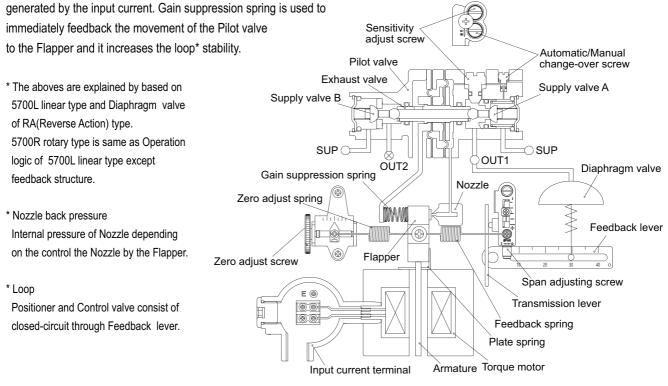


Parts and Assembly



Operation Logic

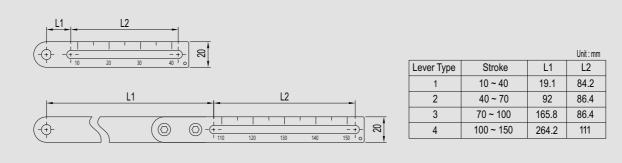
When the input current (4-20mA) increases, Armature receives counter-clockwise rotating torque as a magnetic field strength of Torque motor and Flapper moves to left as the center of Plate Spring. When the space between Flapper and Nozzle opens, the Nozzle back pressure* decreases. As a result, Exhaust valve of Pilot valve moves to right. At the same time, Supply valve A of OUT1 moves to right and opens Supply valve. Air supply through OUT1 increases air pressure of diaphragm and diaphragm valve moves downward. The movement of diaphragm valves acts on Feedback spring through Feedback lever and Flapper increases torque to the left pull. The diaphragm valve is balanced at the position between the above spring torque and magnetic field strength



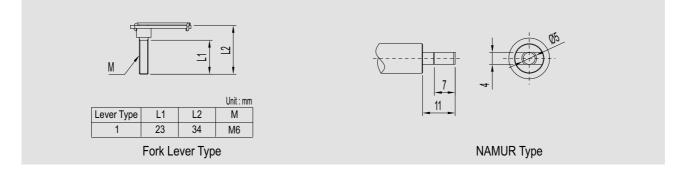


Lever & Bracket

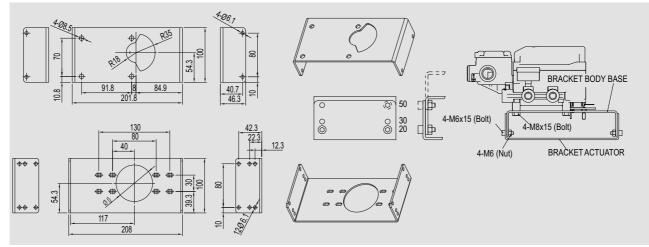
5700L Lever Dimension



5700R Lever Dimension

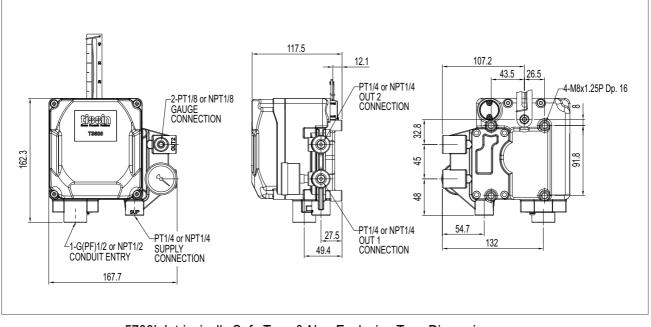


5700R Bracket Dimensions

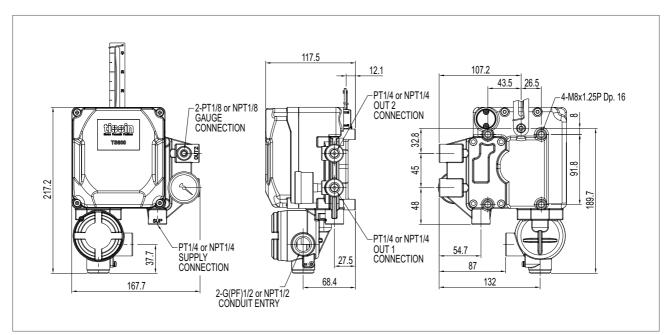




5700L Dimension

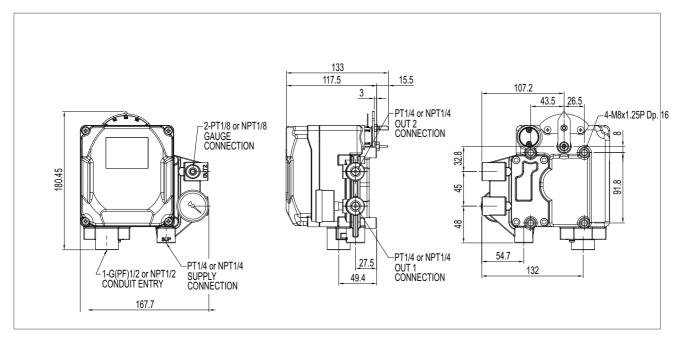


<5700L Intrinsically Safe Type & Non-Explosion Type Dimension>

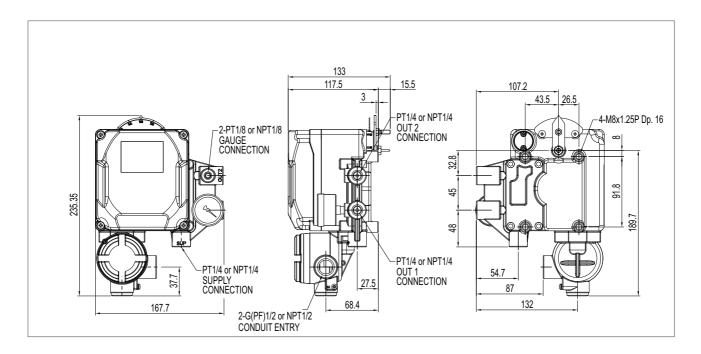


<5700L Flame Proof Type Dimension>

5700R Dimension



<5700R Intrinsically Safe Type & Non-Explosion Type Dimension>



<5700R Flame Proof Type Dimension>

Product Number

Model		5700						
Motion Type	Linear type		L					
	Rotary type		R					
Explosion Proof Type	Non-Explosion Type			N				
	Ex dmb IIB T5/T6			В				
	Ex dmb IIC T5/T6			С				
	Ex ia IIC T5/T6			А				
Connection	Conduit Entry	Air Connection						
	G(PF)1/2	PT1/4			1			
	G(PF)1/2	NPT1/4			2			
	NPT1/2	NPT1/4			3			
Linear Lever Type	10 ~ 40mm					1		
	40 ~ 70mm					2		
	70~100mm					3		
	100~150mm					4		
Rotary Lever Type	M6 x 34L					1		
	NAMUR Type					5		
Ambient Temp	-20°C~70°C						S	
	-20°C~120°C*						Н	
	-40°C~70°C						L	
Option	None							0
	4~20mA Feedba						1	
	Limit Switch Included (2xSPDT)						2	
	4~20mA Feedback Signal with Limit Switch (2xSPDT)							

* Note. With high temp positioner must be Non-Explosion type.

* Option is available for rotary type ONLY.



4665 Interstate Drive