



- Compact design
- High sensitivity
- Enhanced reliability
- Various options
- Vibration-Proof



Electro-Pneumatic Positioner YT-1300 Series

Rev. 1300-02

Electro – Pneumatic Positioner YT-1300 Series (Intrinsically Safe Type)

Product Description

YT-1300 E/P Positioner controls valve stroke accurately by 4-20mA current signal being input from controller. It has built-in electronic circuit and P, D control circuit to prevent hunting. And Position transmitter and Limit switch are easily added optionally, which is time and cost-effective when it is applied in the field.

Features

- It endures severe vibration and so it can be applied to almost every lines.
- Most suitable accuracy and dynamic characteristics are available by PD control.
- Valve system is stabilized by outputting analog feedback with option.
- The variable orifice makes to settle the problems easily which can be solved by attaching speed control valve.
- Limit switch is added with ease.

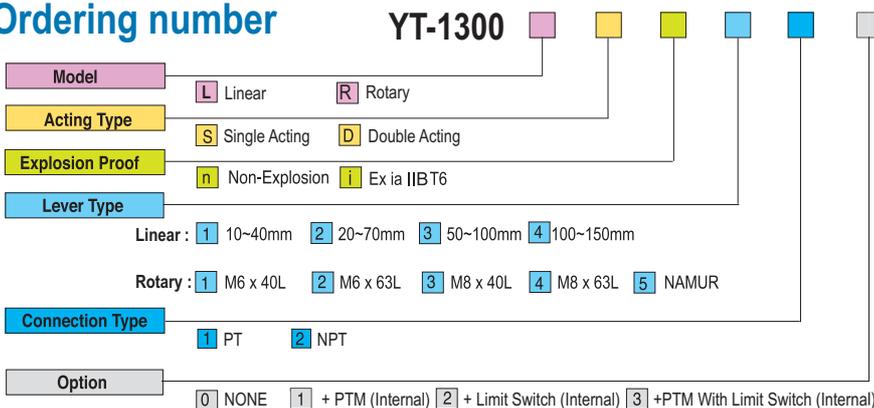
Specification

Model	YT-1300L		YT-1300R	
	Single	Double	Single	Double
Acting Type	Single	Double	Single	Double
Input Signal	4~20 mA DC			
Supply Pressure	1.4~7kgf/cm ² (0.14~0.7 MPa)			
Stroke	10 - 150 mm		0 - 90°	
Impedance	Max.10V / 20mA DC			
Air Connection	PT 1/4, NPT 1/4			
Gauge Connection	PT 1/8, NPT 1/8			
Conduit Entry	PF 1/2(Standard), NPT1/2(Option)			
Explosion-Proof	Ex ia IIB T6			
Protection	IP66			
Ambient Temperature	Operating Temp: -30~85°C		Explosion temp: -20~60°C	
Linearity	± 0.5% F.S.			
Hysteresis	± 0.5% F.S.			
Sensitivity	± 0.2% F.S.			
Repeatability	± 0.3% F.S.			
Flow Capacity	70 LPM			
Air Consumption	Below 3 LPM (sup=1.4K)			
Vibration Effect	6G			
Humidity	5-95% RH at 40			
Feedback Signal (Option)	4-20mA (DC 10 - 30V, DC 10~28V at Intrinsically Safe Type)			
Limit Switch(Optional)	DC 24V			
Material	Aluminum Diecasting			
Weight	1.5 kg (3.3 lb)			
Painting	Epoxy Polyester Powder Coating			
Color	Blue or Black			

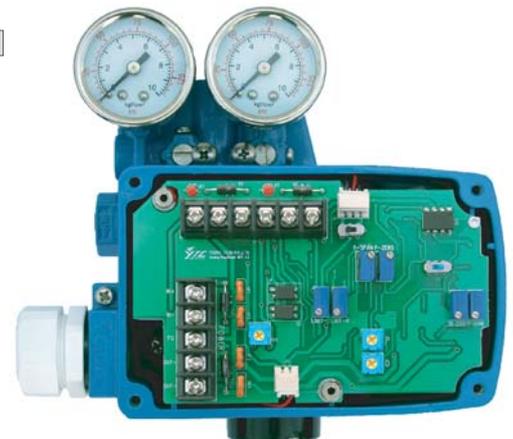
Based on temperature 20°C , absolute pressure 760mmHg and relative humidity 65%



Ordering number



Note : Limit Switch should be used in DC 24V.



Electro-Pneumatic Positioner YT-1300 / YT-1350 series (analog type)

Product Number: YT-1300 / 1350 (specify your requirement)

Model	Motion Type	Acting Type	Explosion Proof	Lever Type		Connection Type	Option
				Linear	Rotary		
YT-1300	L Linear	S Single	n Non-Explosion	1 10~40mm	1 M6×34L	1 PT	0 NONE
YT-1350	R Rotary	D Double	i Ex ia IIC T6/T5	2 20~70mm	2 M6×63L	2 NPT	1 +PTM
				3 50~100mm	3 M8×34L		2 +L/S
				4 100~150mm	4 M8×63L	3 +PTM + L/S	
					5 NAMUR		

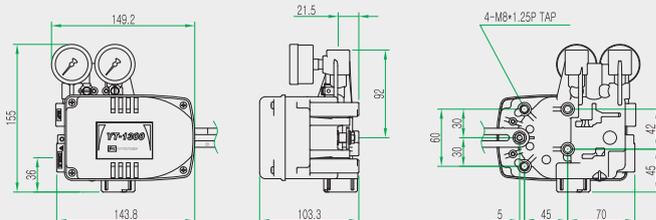


YT-1300L



YT-1350R

Item · Type	YT-1300	YT-1350
Input Signal	4-20mA DC	
Supply Pressure	1.4 ~ 7kgf / cm ² (20~100psi)	
Stroke	Linear Type	10 ~ 150mm
	Rotary Type	0 ~ 90°
Impedance	Max.430Ω / 20mA DC	
Air Connection	PT(NPT)1/4	
Gauge Connection	PT(NPT)1/8	
Conduit	PF1/2 (G1/2)	
Repeatability	±0.3% F.S.	
Ambient Temp.	Operating Temp.	-30°C ~ 85°C (-22~185° F)
	Explosion Temp.	-40~60°C(T5)/-40~40°C(T6)
Linearity	±0.5% F.S.	
Hysteresis	±0.5% F.S.	
Sensitivity	±0.2% F.S.	
Air Consumption	2 LPM (Sup=1.4kgf / cm ² , 20psi)	
	70 LPM (Sup=1.4kgf / cm ² , 20psi)	
Material	Aluminum Diecasting	Stainless steel 316
Explosion-Proof	Ex ia IIC T6/T5	
Protection	IP66	
Weight	1.5kg (3.3lb)	3.7kg(8.16lb)

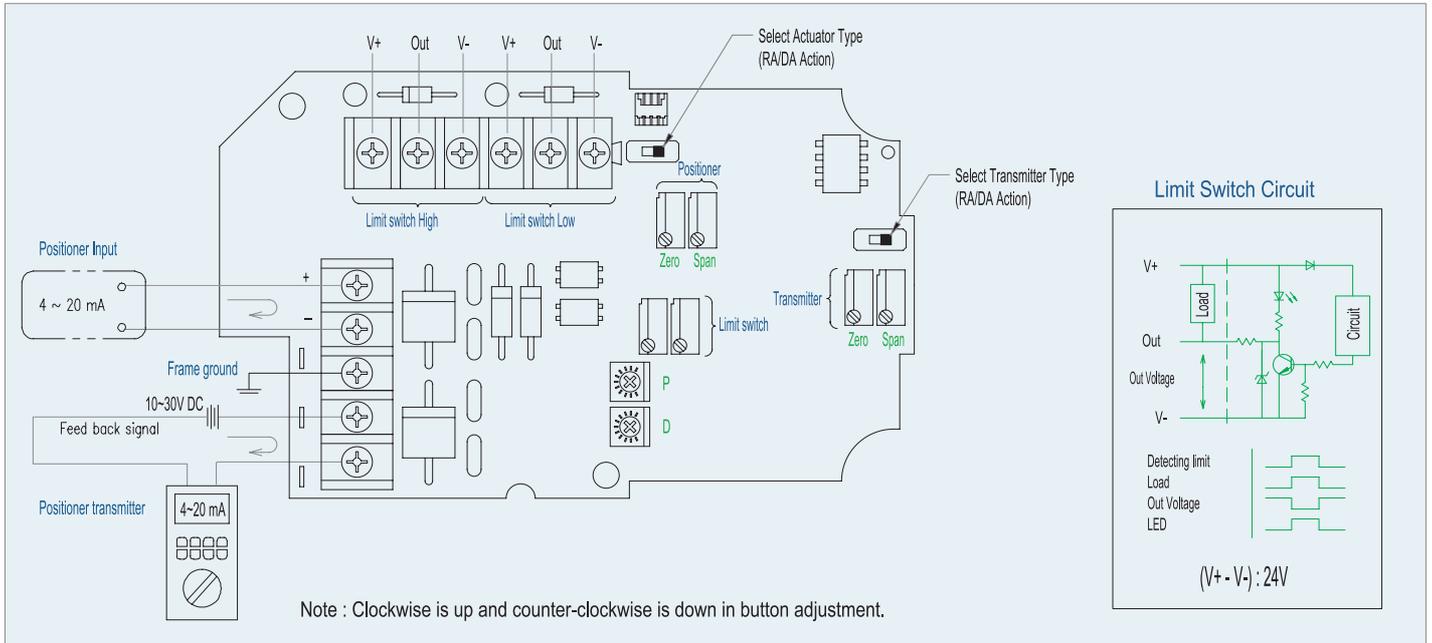


YT-1300/1350 E/P Positioner accurately controls valve stroke, according to input signal of 4-20mA being delivered from controller.

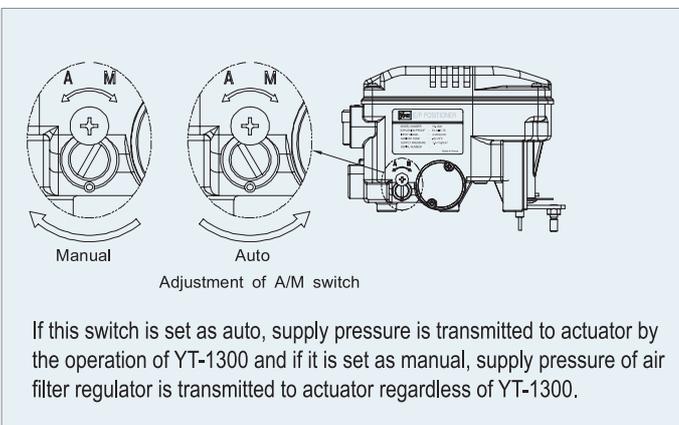
- PCB and P/D control circuit for accurate control
- Feedback signal
- Limit switches (option)

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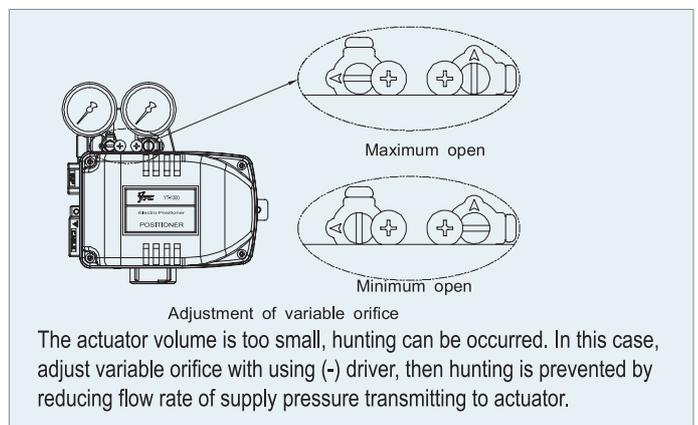
Structure



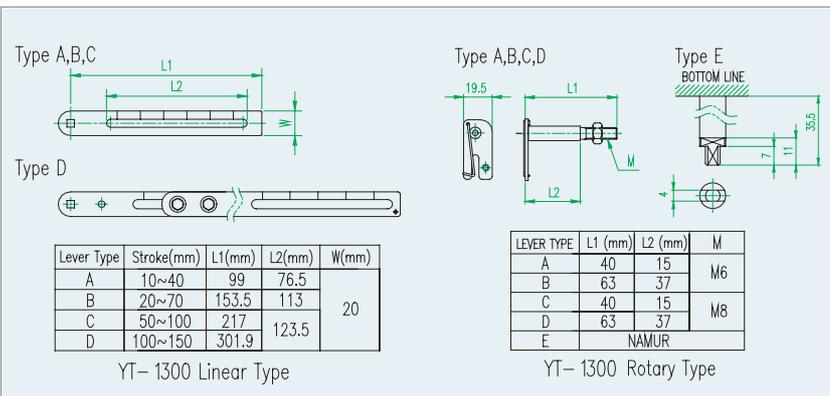
A/M Switch



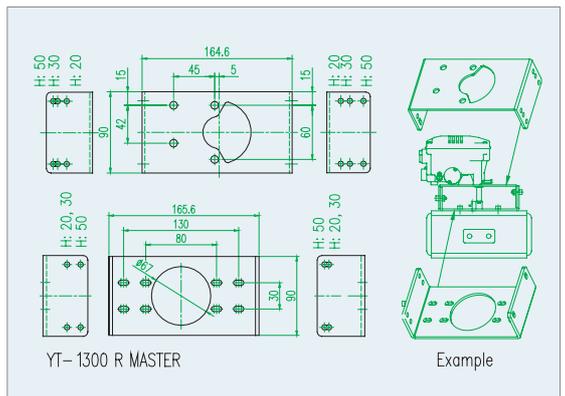
Variable orifice



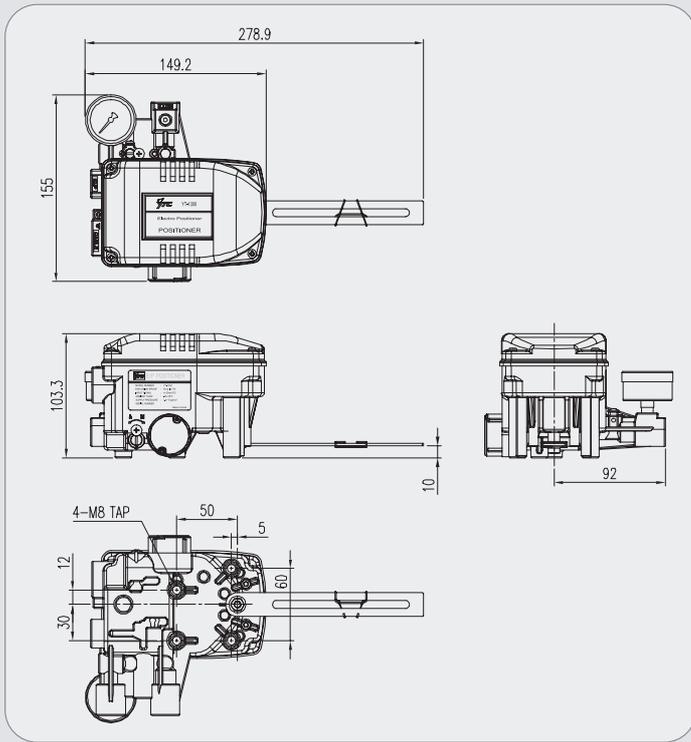
YT-1300 Lever series



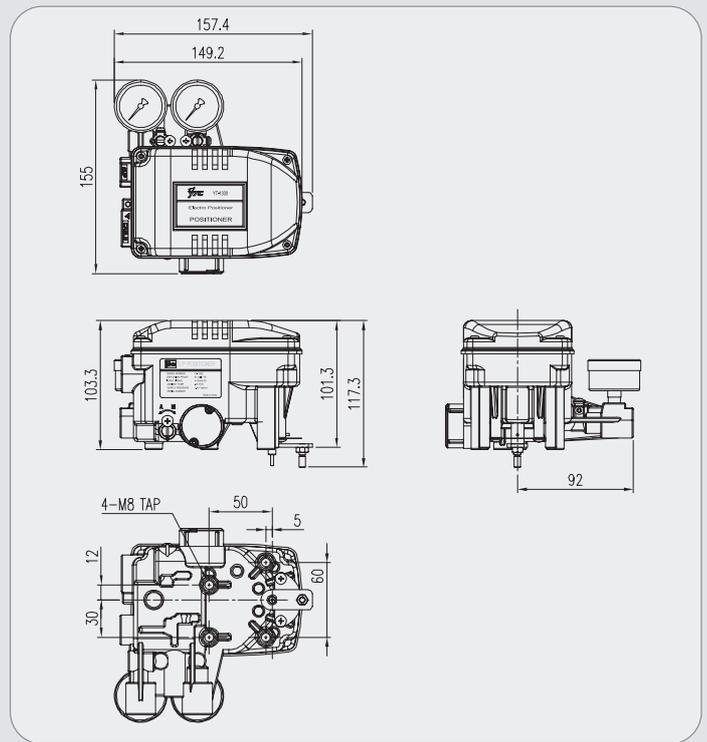
YT-1300R Bracket



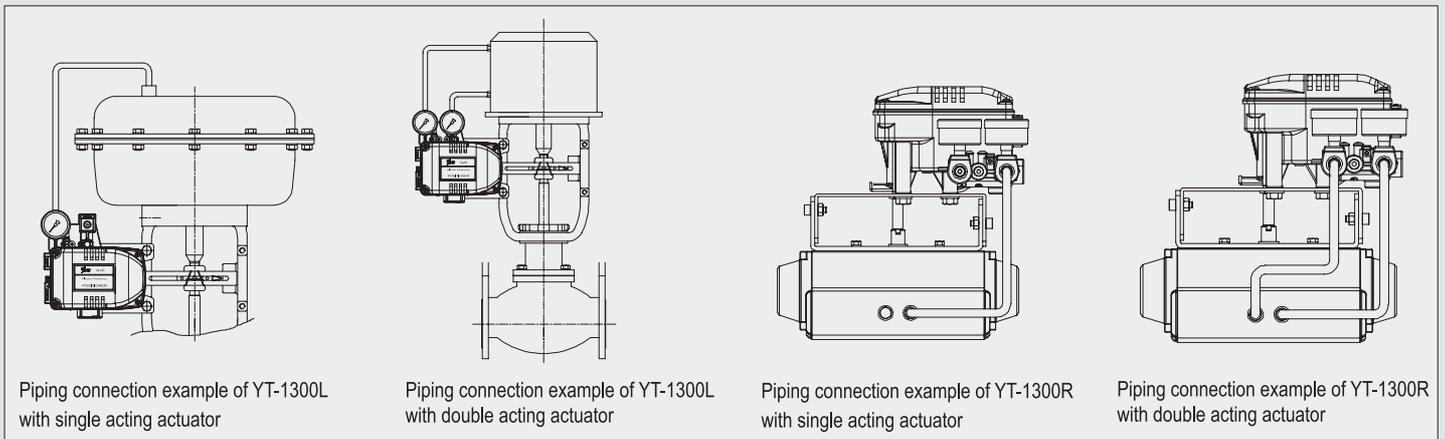
YT-1300L Drawing



YT-1300R Drawing



Piping connection with actuator



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