

# SMART POSITIONER



*Stainless Steel 316# Body*

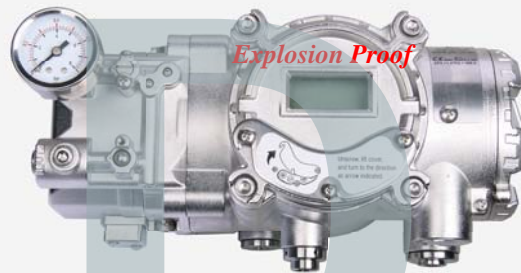


*MINI TYPE (Linear & Rotary)*

*Stainless Steel 316# Body*



*Explosion Proof*



*Explosion Proof*



**Certifications**



**TUV ISO 9001**



**CE**



**ATEX**



**IECEx**



**FM**



**CSA**



**INMETRO**



**GOST**



**NEPSI**



**KTL**



**KOSHA**



**SIL**



**EMC**



**KEPIC**



**Foundation Device Reg**



**HART Membership**

# Smart Positioner

YT-3300 / YT-3350

Product Number: YT-3300 / YT-3350        (specify your requirement)

Model	Motion Type	Acting Type	Explosion Proof	Lever Type		Connection Type	Communication	Option	Ambient Temp
				Linear*	Rotary				
YT-3300	<span style="border: 1px solid black; padding: 1px;">L</span> Linear	<span style="border: 1px solid black; padding: 1px;">S</span> Single	<span style="border: 1px solid black; padding: 1px;">n</span> Non-Explosion	<span style="border: 1px solid black; padding: 1px;">0</span> 10~40mm	<span style="border: 1px solid black; padding: 1px;">1</span> M6 × 34L	<span style="border: 1px solid black; padding: 1px;">1</span> PT	<span style="border: 1px solid black; padding: 1px;">0</span> NONE	<span style="border: 1px solid black; padding: 1px;">0</span> NONE	<span style="border: 1px solid black; padding: 1px;">S</span> -30°C ~ 85°C
YT-3350	<span style="border: 1px solid black; padding: 1px;">R</span> Rotary	<span style="border: 1px solid black; padding: 1px;">D</span> Double	<span style="border: 1px solid black; padding: 1px;">i</span> Ex ia IIC T5/T6	<span style="border: 1px solid black; padding: 1px;">1</span> 20~100mm	<span style="border: 1px solid black; padding: 1px;">2</span> M6 × 63L	<span style="border: 1px solid black; padding: 1px;">2</span> NPT	<span style="border: 1px solid black; padding: 1px;">2</span> +HART	<span style="border: 1px solid black; padding: 1px;">1</span> +PTM	<span style="border: 1px solid black; padding: 1px;">L</span> -40°C ~ 85°C
				<span style="border: 1px solid black; padding: 1px;">2</span> 90~150mm	<span style="border: 1px solid black; padding: 1px;">3</span> M8 × 34L			<span style="border: 1px solid black; padding: 1px;">2</span> +L/S(Mechanical Type)	
				<span style="border: 1px solid black; padding: 1px;">3</span> 16~30mm	<span style="border: 1px solid black; padding: 1px;">4</span> M8 × 63L			<span style="border: 1px solid black; padding: 1px;">3</span> +L/S(Proximity Type)	
				<span style="border: 1px solid black; padding: 1px;">4</span> 16~60mm	<span style="border: 1px solid black; padding: 1px;">5</span> NAMUR			<span style="border: 1px solid black; padding: 1px;">4</span> +PTM+L/S(Mechanical Type)	
				<span style="border: 1px solid black; padding: 1px;">5</span> 16~100mm				<span style="border: 1px solid black; padding: 1px;">5</span> +PTM+L/S(Proximity Type)	
				<span style="border: 1px solid black; padding: 1px;">6</span> 90~150mm					

\*Lever 3~6 is adapter type.

\*YT-3350 is available for NPT connection type ONLY.



YT-3300R

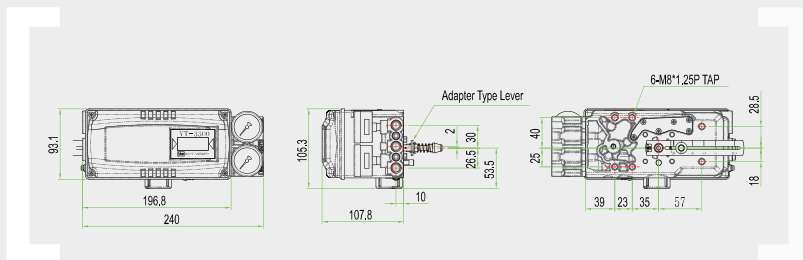


YT-3300R+L/S

*Stainless Steel 316# Body*



YT-3350R



Item · Type	YT-3300	YT-3350
Input Signal	4~20mA DC	
Supply Pressure	0.14~0.7MPa(1.4~7 bar)	
Stroke	Linear Type Rotary type	10~150mm 0 ~ 90°
Impedance	Max.50Ω @ 20mA DC	
Air Connection	PT(NPT)1/4	NPT 1/4
Gauge Connection	PT(NPT)1/8	NPT 1/8
Conduit	PF1/2 (G1/2)	
Ambient Temp.	Standard Type .	-30°C ~ 85°C (-22~185° F)
	Low Temp Type.	-40°C ~ 85°C (-40~185° F)
	Explosion Temp.	-40~60°C(T5) / -40~40°C(T6)
	LCD Operating Temp.	-30°C ~ 85°C (-22~185° F)
Linearity	±0.5% F.S.	
Hysteresis	±0.5% F.S.	
Sensitivity	±0.2% F.S.	
Repeatability	±0.3% F.S.	
Air Consumption	Below 2LPM (sup=0.14MPa)	
Flow Capacity	70LPM (sup=0.14MPa)	
Output Characteristics	Linear, EQ%, Quick Open user set (16 Point)	
Material	Aluminum Diecasting	Stainless Steel 316
Enclosure	IP66	
Explosion Proof type	Ex ia IIC T5/ T6	
Weight	2kg (4.4lb)	5.1kg(11.2lb)

YT-3300 Smart Valve Positioner accurately controls valve stroke, according to input signal of 4-20mA being delivered from controller.

- Auto calibration
- Auto/Manual switch
- HART communication
- LCD display
- PID control
- 4 buttons for local control
- Feedback signal
- Limit switches

**Agent : [www.autovalve.tw](http://www.autovalve.tw)**

# Smart Positioner YT-3301 ( Single Split Type )

Product Number: YT-3301      (specify your requirement)

Model	Motion Type	Acting Type	Explosion Proof	Lever Type		Connection Type	Communication	Option	Ambient Temp	Cable Length *
				Linear	Rotary					
YT-3301	<span style="border: 1px solid black; padding: 1px;">L</span> Linear	<span style="border: 1px solid black; padding: 1px;">S</span> Single	<span style="border: 1px solid black; padding: 1px;">n</span> Non-Explosion	<span style="border: 1px solid black; padding: 1px;">1</span> 10~40mm	<span style="border: 1px solid black; padding: 1px;">5</span> NAMUR	<span style="border: 1px solid black; padding: 1px;">1</span> PT	<span style="border: 1px solid black; padding: 1px;">0</span> NONE	<span style="border: 1px solid black; padding: 1px;">0</span> NONE	<span style="border: 1px solid black; padding: 1px;">S</span> -30°C~ 85°C	<span style="border: 1px solid black; padding: 1px;">1</span> 5m
	<span style="border: 1px solid black; padding: 1px;">R</span> Rotary	<span style="border: 1px solid black; padding: 1px;">D</span> Double	<span style="border: 1px solid black; padding: 1px;">i</span> Ex ia IIC T5/T6	<span style="border: 1px solid black; padding: 1px;">2</span> 20~70mm		<span style="border: 1px solid black; padding: 1px;">2</span> NPT	<span style="border: 1px solid black; padding: 1px;">2</span> + HART	<span style="border: 1px solid black; padding: 1px;">1</span> +PTM	<span style="border: 1px solid black; padding: 1px;">L</span> -40°C~ 85°C	<span style="border: 1px solid black; padding: 1px;">2</span> 10m
				<span style="border: 1px solid black; padding: 1px;">3</span> 50~100mm						<span style="border: 1px solid black; padding: 1px;">3</span> 15m
				<span style="border: 1px solid black; padding: 1px;">4</span> 100~150mm						<span style="border: 1px solid black; padding: 1px;">4</span> 20m

\* Maximum cable length is 20m.

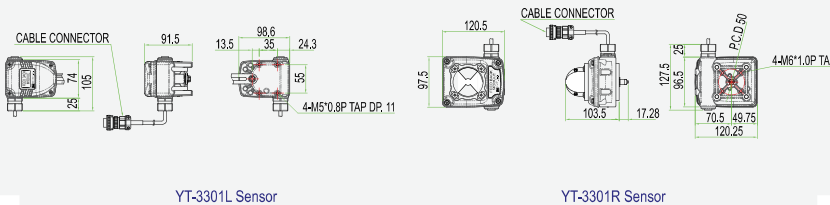
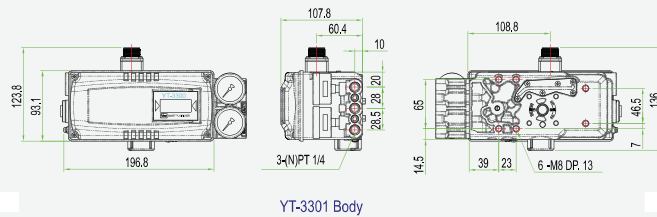
## Single Split Type : Thermal Stability + High Temperature Resistant , Anti-Seismic , Easy Maintenance



\* Maximum cable length is 20m.



Item · Type		YT-3301L	YT-3301R
Input Signal		4~20mA DC	
Supply Pressure		0.14~0.7MPa(1.4~7 bar)	
Stroke		10~150mm	0 ~ 90°
Impedance		Max.500Ω @ 20mADC	
Air Connection		PT(NPT)1/4	
Gauge Connection		PT(NPT)1/8	
Conduit		PF1/2 (G1/2)	
Ambient Temp.	Sensor Operating Temp.	-40°C ~ 120°C(-40~248°F)	
	Body Operating Temp.	-30°C ~ 85°C(-22~185°F)	
	Explosion Temp.	-40~60°C(T5) / -40~40°C(T6)	
	LCD Operating Temp.	-30°C ~ 85°C(-22~185°F)	
Linearity		±0.5% F.S.	
Hysteresis		±0.5% F.S.	
Sensitivity		±0.2% F.S.	
Repeatability		±0.3% F.S.	
Air Consumption		Below 2LPM (sup=0.14MPa)	
Flow Capacity		70LPM(sup=0.14MPa)	
Output Characteristics		Linear, EQ%, Quick Open user set (16 Point)	
Material		Aluminum Diecasting	
Enclosure		IP66	
Explosion Proof type		Ex ia IIC T5/ T6	
Weight	Body	2kg (4.4lb)	
	Sensor	0.6kg (1.3lb)	0.9kg (2.0lb)



YT-3301 Smart Valve Positioner accurately controls valve stroke, according to input signal of 4-20mA being delivered from controller.

- Separated feedback module
- Auto/Manual switch
- HART communication
- Auto calibration
- PID control
- 4 buttons for local control
- LCD display
- Feedback signal

**Agent : [www.autovalve.tw](http://www.autovalve.tw)**

**Smart Positioner** YT-2700 (compact size) **( MINI TYPE )**

Product Number: YT-2700 S S S S S S S (specify your requirement)

Model	Motion Type	Acting Type	Explosion Proof	Lever Type		Connection Type	Communication	Option	Fail Option
				Linear	Rotary				
YT-2700	<span style="border: 1px solid black; padding: 1px;">L</span> Linear	<span style="border: 1px solid black; padding: 1px;">S</span> Single	<span style="border: 1px solid black; padding: 1px;">n</span> Non-Explosion	<span style="border: 1px solid black; padding: 1px;">1</span> 5~35mm	<span style="border: 1px solid black; padding: 1px;">1</span> M6×34L	<span style="border: 1px solid black; padding: 1px;">1</span> PT	<span style="border: 1px solid black; padding: 1px;">0</span> NONE	<span style="border: 1px solid black; padding: 1px;">0</span> NONE	<span style="border: 1px solid black; padding: 1px;">F</span> Fail Freeze
	<span style="border: 1px solid black; padding: 1px;">R</span> Rotary		<span style="border: 1px solid black; padding: 1px;">i</span> Ex ia IIC T6/T5		<span style="border: 1px solid black; padding: 1px;">2</span> M6×63L	<span style="border: 1px solid black; padding: 1px;">2</span> NPT	<span style="border: 1px solid black; padding: 1px;">2</span> + HART	<span style="border: 1px solid black; padding: 1px;">1</span> + PTM	<span style="border: 1px solid black; padding: 1px;">S</span> Fail Safe
					<span style="border: 1px solid black; padding: 1px;">3</span> M8×34L				
					<span style="border: 1px solid black; padding: 1px;">4</span> M8×63L				
					<span style="border: 1px solid black; padding: 1px;">5</span> NAMUR				



**MINI TYPE (Linear & Rotary)**



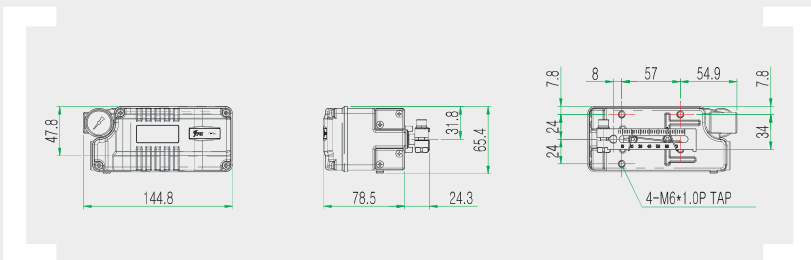
YT-2700



compact size



Item · Type	YT-2700L	YT-2700R
Input Signal	4~20mA DC	
Supply Pressure	0.14~0.7MPa(1.4~7 bar)	
Stroke	5~35mm	0 ~ 90°
Impedance	Max.460Ω @ 20mA DC	
Air Connection	PT(NPT)1/4	
Gauge Connection	PT(NPT)1/8	
Conduit	PF1/2 (G1/2)	
Ambient Temp.	Operating Temp.	-30℃ ~ 80℃ (-22~176 ° F)
	Explosion Temp.	-40~40℃(T6) / -40~60℃(T5)
Linearity	±0.5% F.S.	
Hysteresis	±0.5% F.S.	
Sensitivity	±0.2% F.S.	
Repeatability	±0.3% F.S.	
Air Consumption	0.01LPM (sup=0.14MPa)	
Flow Capacity	9LPM(sup=0.14MPa)	
Output Characteristics	Linear, EQ%, Quick Open user set (16 Point)	
Material	Aluminum Diecasting	
Enclosure	IP66	
Explosion Proof type	Ex ia IIC T6 / T5	
Weight	0.82kg (1.8lb)	



YT-2700 Compact smart valve positioner accurately controls valve stroke, according to input signal of 4-20mA being delivered from controller.

- Fail freeze function
- Near zero air consumption level
- HART communication
- Fail safe function
- PD control
- 4 buttons for local control
- LCD display
- Feedback signal
- Auto calibration
- Single acting only

# Smart Positioner YT-3400 / YT-3450

Product Number: YT-3400 / YT-3450               (specify your requirement)

Model	Motion Type	Acting Type	Explosion Proof	Lever Type		Connection Type *	Communication	Option *	Ambient Temp
				Linear	Rotary				
YT-3400	<span style="border: 1px solid black; padding: 0 2px;">L</span> Linear	<span style="border: 1px solid black; padding: 0 2px;">S</span> Single	<span style="border: 1px solid black; padding: 0 2px;">C</span> Ex d IIC T6	<span style="border: 1px solid black; padding: 0 2px;">1</span> 10~40mm	<span style="border: 1px solid black; padding: 0 2px;">1</span> M6×34L	<span style="border: 1px solid black; padding: 0 2px;">1</span> PT	<span style="border: 1px solid black; padding: 0 2px;">0</span> NONE	<span style="border: 1px solid black; padding: 0 2px;">0</span> NONE	<span style="border: 1px solid black; padding: 0 2px;">S</span> -30°C~85°C
YT-3450	<span style="border: 1px solid black; padding: 0 2px;">R</span> Rotary	<span style="border: 1px solid black; padding: 0 2px;">D</span> Double		<span style="border: 1px solid black; padding: 0 2px;">2</span> 20~70mm	<span style="border: 1px solid black; padding: 0 2px;">2</span> M6×63L	* YT-3450 is available for NPT1/4 connection type ONLY.	<span style="border: 1px solid black; padding: 0 2px;">2</span> +HART	<span style="border: 1px solid black; padding: 0 2px;">1</span> +PTM <span style="border: 1px solid black; padding: 0 2px;">2</span> +L/S <span style="border: 1px solid black; padding: 0 2px;">3</span> +PTM+L/S	<span style="border: 1px solid black; padding: 0 2px;">L</span> -40°C~85°C
				<span style="border: 1px solid black; padding: 0 2px;">3</span> 50~100mm	<span style="border: 1px solid black; padding: 0 2px;">3</span> M8×34L				
				<span style="border: 1px solid black; padding: 0 2px;">4</span> 100~150mm	<span style="border: 1px solid black; padding: 0 2px;">4</span> M8×63L				
					<span style="border: 1px solid black; padding: 0 2px;">5</span> NAMUR				

\* L/S: DC24V and Transistor Type Switch.

## Explosion Proof : ExdIIC T6 (Rotary & Linear Type)



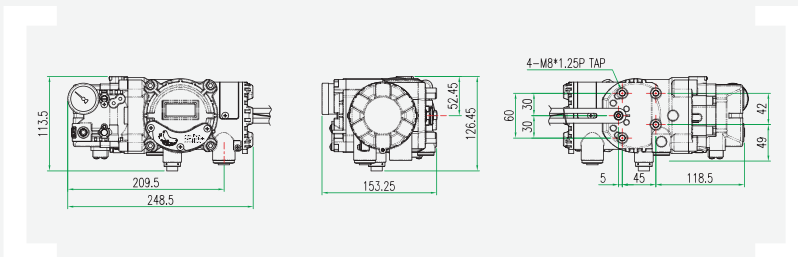
YT-3400R

## Stainless Steel 316# Body



YT-3450R

Item · Type	YT-3400	YT-3450
Input Signal	4~20mA DC	
Supply Pressure	0.14~0.7MPa(1.4~7 bar)	
Stroke	Linear Type	10~150mm
	Rotary type	0 ~ 90°
Impedance	Max.450Ω @ 20mA DC	
Air Connection	PT(NPT)1/4	NPT 1/4
Gauge Connection	PT(NPT)1/8	NPT 1/8
Conduit	PF1/2 (G1/2)	
Ambient Temp.	Standard Type.	-30°C~85°C (-22~185° F)
	Low Temp Type.	-40°C~85°C (-40~185° F)
	Explosion Temp.	-40~80°C(T5) / -40~70°C(T6)
	LCD Operating Temp.	-30°C ~ 85°C (-22~185° F)
Linearity	±0.5% F.S.	
Hysteresis	±0.5% F.S.	
Sensitivity	±0.2% F.S.	
Repeatability	±0.3% F.S.	
Air Consumption	Below 2LPM (sup=0.14MPa)	
Flow Capacity	70LPM (sup=0.14MPa)	
Output Characteristics	Linear, EQ%, Quick Open user set (16 Point)	
Material	Aluminum Diecasting	Stainless Steel 316
	Enclosure	IP66
Explosion Proof type	Ex ia IIC T5/ T6	
Weight	3.4kg (7.5lb)	7.0kg(15.4lb)



YT-3400 Smart Valve Positioner accurately controls valve stroke, according to input signal of 4-20mA being delivered from controller.

- Auto calibration
- PID control
- HART communication
- Auto/Manual switch
- Feedback signal
- 4 buttons for local control
- LCD display
- Limit switches

**Agent : [www.autovalve.tw](http://www.autovalve.tw)**

# Smart Positioner YT-2701

Product Number: YT-2701 L S               (specify your requirement)

Model	Motion Type	Acting Type	Explosion Proof	Lever Type	Connection Type	Communication	Option	Fail Option	Cable Length*
YT-2701	<span style="border: 1px solid black; padding: 0 2px;">L</span> Linear	<span style="border: 1px solid black; padding: 0 2px;">S</span> Single	<span style="border: 1px solid black; padding: 0 2px;">n</span> Non-Explosion <span style="border: 1px solid black; padding: 0 2px;">i</span> Ex ia IIC T5/T6 (Certification is in progress)	<span style="border: 1px solid black; padding: 0 2px;">1</span> 5~50mm	<span style="border: 1px solid black; padding: 0 2px;">1</span> PT <span style="border: 1px solid black; padding: 0 2px;">2</span> NPT	<span style="border: 1px solid black; padding: 0 2px;">0</span> NONE <span style="border: 1px solid black; padding: 0 2px;">2</span> +HART	<span style="border: 1px solid black; padding: 0 2px;">0</span> NONE <span style="border: 1px solid black; padding: 0 2px;">1</span> +PTM	<span style="border: 1px solid black; padding: 0 2px;">F</span> Fail Freeze <span style="border: 1px solid black; padding: 0 2px;">S</span> Fail Safe	<span style="border: 1px solid black; padding: 0 2px;">1</span> 5m <span style="border: 1px solid black; padding: 0 2px;">2</span> 10m <span style="border: 1px solid black; padding: 0 2px;">3</span> 15m <span style="border: 1px solid black; padding: 0 2px;">4</span> 20m

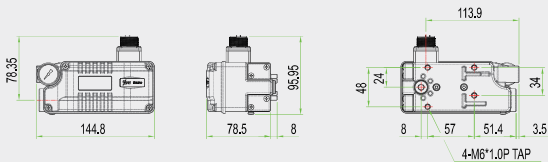
\* Maximum cable length is 20m.



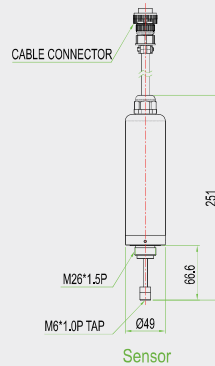
YT-2701



Item · Type	YT-2701
Input Signal	4~20mA DC
Supply Pressure	0.14~0.7MPa(1.4~7 bar)
Stroke	5~50mm
Impedance	Max.500Ω @ 20mA DC
Air Connection	PT(NPT)1/4
Gauge Connection	PT(NPT)1/8
Conduit	PF1/2 (G1/2)
Ambient Temp.	-30°C ~ 80°C (-22~176 ° F)
Linearity	±0.5% F.S.
Hysteresis	±0.5% F.S.
Sensitivity	±0.2% F.S.
Repeatability	±0.3% F.S.
Air Consumption	0.01LPM (sup=0.14MPa)
Flow Capacity	9LPM(sup=0.14MPa)
Output Characteristics	Linear, EQ%, Quick Open user set (16 Point)
Material	Aluminum Diecasting
Enclosure	IP66
Explosion Proof type	Ex ia IIC T5/T6
Weight	0.82kg (1.8lb)



Body



Sensor

YT-2701 Compact smart valve positioner accurately controls valve stroke, according to input signal of 4-20mA being delivered from controller.

- Separated feedback module
- Near zero air consumption level
- HART communication
- Fail freeze function
- PD control
- 4 buttons for local control
- LCD display
- Feedback signal
- Auto calibration
- Single acting only

**Agent : [www.autovalve.tw](http://www.autovalve.tw)**

# Smart Positioner TMP-3000

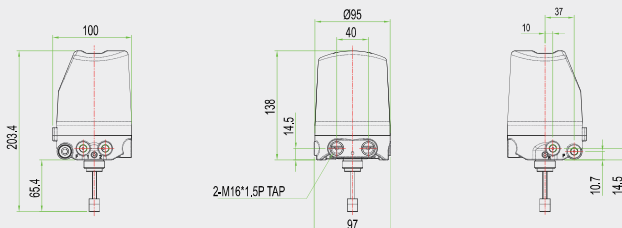
Product Number: TMP-3000 n G 1 0 F (specify your requirement)

Model	Acting Type	Explosion Proof	Connection Type	Flow Capacity	Option	Fail Option
TMP-3000	<span style="background-color: yellow; border: 1px solid black; padding: 0 2px;">S</span> Single	<span style="background-color: yellow; border: 1px solid black; padding: 0 2px;">n</span> Non-Explosion	<span style="background-color: cyan; border: 1px solid black; padding: 0 2px;">G</span> G1/8	<span style="background-color: green; border: 1px solid black; padding: 0 2px;">1</span> 20LPM	<span style="border: 1px solid black; padding: 0 2px;">0</span> NONE	<span style="background-color: pink; border: 1px solid black; padding: 0 2px;">F</span> Fail Freeze
	<span style="background-color: yellow; border: 1px solid black; padding: 0 2px;">D</span> Double			<span style="background-color: green; border: 1px solid black; padding: 0 2px;">2</span> 50LPM	<span style="border: 1px solid black; padding: 0 2px;">1</span> + PTM	<span style="background-color: pink; border: 1px solid black; padding: 0 2px;">S</span> Fail Safe



TMP-3000

Item.Type	TMP-3000
Power Supply	24VDC ± 10%
Input Signal	0/4 ... 20mA, 0 ... 5/10V
Residual Ripple	10%, Not industrial DC
Power Consumption	< 4W
Output	4 ~ 20mA
Output Characteristics	Linear, EQ%, Quick Open user set (16 point)
Ambient Temp.	-10 ~ 60 °C
Supply Pressure	0 ~ 0.7 MPa (0 ~ 7 bar)
Air Consumption	0 LPM
Flow Capacity	20 / 50 LPM
Filtering Size	5 micron
Acting Type	Single 2 solenoid valves Double 4 solenoid valves
Stroke	5 ~ 50mm
Air Connection	G1/8 (Ø6mm tube)
Conduit	2- M16x1.5 (with screw terminals)
Enclosure	IP66
Body Material	PPS
Cover Material	PC
Weight	520 g



TMP-3000 valve stroke, according to input signal of 4-20mA being delivered from controller.

- Interchangeable fail action
- Near zero consumption level
- HART communication
- PD control
- 4 buttons for local control
- LCD display with backlight
- Feedback signal
- Auto calibration
- Simple mounting

**Agent : [www.autovalve.tw](http://www.autovalve.tw)**