

Electro-Pneumatic Positioner YT-1000L

Product Number: YT-1000L (specify your requirement)

Model	Acting Type	Explosion Proof	Lever Type	Orifice Type	Conduit - Air Connection	Ambient Temp*	Option *
YT-1000L	S Single	m Ex dmb IIB T5 (KTL)	1 10 ~ 40mm	1 ϕ 1	1 G1/2 - PT1/4	S -20°C ~ 60°C	0 NONE
	D Double	C Ex dmb IIC T5 (KTL)	2 30 ~ 70mm	2 ϕ 2	2 G1/2 - NPT1/4	H -20°C ~ 120°C	2 + SPTM (Smart type)
		i Ex ia IIB T6 (KTL)	3 60 ~ 100mm	3 None	3 G1/2 - G1/4	L -40°C ~ 70°C	3 + SPTM with LCD(Smart type)
		n Non-Explosion	4 100 ~ 150mm		4 M20 - NPT1/4		
		f Ex dm IIB T5 (FM)			5 NPT1/2 - NPT1/4		
		p Ex ia IIC T6 (NEPSI)					
		H Ex dmb IIC T5/T6 (NEPSI)					

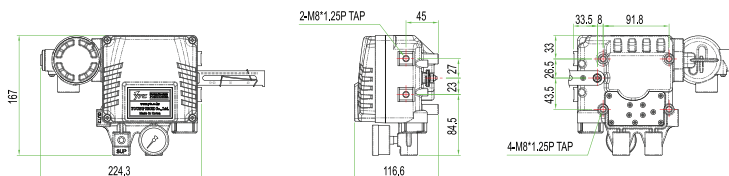
* With high temp and/or internal SPTM option, positioner must be non-explosion type.



YT-1000L



YT-1000L+SPTM(int.)



Item · Type		Single	Double
Input Signal		4-20mA DC	
Impedance		250 ± 15 Ω	
Supply Pressure		0.14~0.7MPa(1.4~7 bar)	
Stroke		10 ~150mm	
Air Connection		PT(NPT,G)1/4	
Gauge Connection		PT(NPT) 1/8	
Conduit		G(PF,NPT)1/2, M20	
Explosion Proof		Ex dmb IIB T5 (KTL) Ex dmb IIC T5 (KTL) Ex ia IIB T6 (KTL) Ex ia IIC T6 (NEPSI) Ex dmb IIC T5/T6 (NEPSI)	
Enclosure		IP66	
Ambient Temp.	Operating	-20°C~70°C(-4~158°F)	
	Explosion	-20°C~60°C(-4~140°F)	
Linearity		± 1% F.S. ± 2% F.S.	
Hysteresis		± 1% F.S.	
Sensitivity		± 0.2% F.S. ± 0.5% F.S.	
Repeatability		± 0.5% F.S.	
Air Consumption		2.5 LPM (sup=0.14MPa)	
Flow Capacity		80LPM (sup=0.14MPa)	
Material		Aluminum Diecasting	
Weight		2.7kg (6.1 lb)	

* For additional **SPTM** specification refer to p.26.

The Electro-Pneumatic Positioner YT-1000L is used for operation of pneumatic linear valve actuators by means of electrical controller or control system with an analog output signal of DC 4 to 20mA or split ranges.

- Simple zero and span adjustment
- No resonance between 5-200Hz
- Auto/Manual switch
- RA v.s. DA action and 1/2 split range setting by simple adjustment
- Internal feedback signal is available as an option (weather proof only)

Electro-Pneumatic Positioner YT-1000R

Product Number: YT-1000R (specify your requirement)

Model	Acting Type	Explosion Proof	Lever Type	Orifice Type	Conduit - Air Connection	Ambient Temp *	Option1	Option2 *
YT-1000R	S Single	m Ex dmb IIB T5 (KTL)	1 M6 × 34L	1 φ 1	1 G1/2 - PT1/4	S -20°C ~ 60°C	0 NONE (St'd)	0 NONE
	D Double	C Ex dmb IIC T5 (KTL)	2 M6 × 63L	2 φ 2	2 G1/2 - NPT1/4	H -20°C ~ 120°C	1 Dome Cover	1 + SPTM(Internal)
		i Ex ia IIB T6 (KTL)	3 M8 × 34L	3 None	3 G1/2 - G1/4	L -40°C ~ 70°C		2 + SPTM(External)
		n Non-Explosion	4 M8 × 63L		4 M20 - NPT1/4			3 + L / S(Internal)
		f Ex dm IIB T5 (FM)	5 NAMUR		5 NPT1/2 - NPT1/4			4 + L / S(External)
		P Ex ia IIC T6 (NEPSI)						5 + SPTM + L / S(Internal)
		H Ex dmb IIC T5/T6 (NEPSI)						6 + SPTM + L / S(External)

* With high temp and/or internal SPTM, L/S option, positioner must be non-explosion type.



YT-1000R



YT-1000R+SPTM(int)



YT-1000R+SPTM+L/S(int)



YT-1000R+DOME



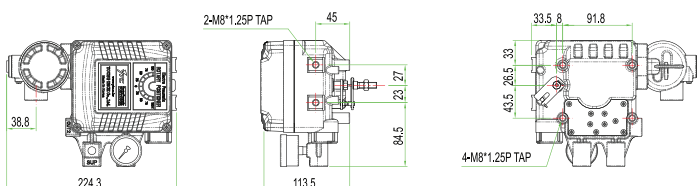
YT-1000R+L/S(ext)
YT-1000R+SPTM+L/S(ext)



YT-1000R+SPTM(ext)

Item · Type		Single	Double
Input Signal		4-20mA DC	
Impedance		250 ± 15 Ω	
Supply Pressure		0.14~0.7MPa(1.4~7 bar)	
Stroke		0 ~ 90°	
Air Connection		PT(NPT,G)1/4	
Gauge Connection		PT(NPT) 1/8	
Conduit		G(PF,NPT)1/2, M20	
Explosion Proof		Ex dmb IIB T5 (KTL) Ex dmb IIC T5 (KTL) Ex ia IIB T6 (KTL) Ex ia IIC T6 (NEPSI) Ex dmb IIC T5/T6 (NEPSI)	
Enclosure		IP66	
Ambient Temp	Operating	-20°C~70°C(-4~158°F)	
	Explosion	-20°C~60°C(-4~140°F)	
Linearity		± 1% F.S.	± 2% F.S.
Hysteresis		± 1% F.S.	
Sensitivity		± 0.2% F.S.	± 0.5% F.S.
Repeatability		± 0.5% F.S.	
Air Consumption		2.5LPM (sup=0.14MPa)	
Flow Capacity		80LPM (sup=0.14MPa)	
Material		Aluminum Diecasting	
Weight		2.8kg (6.2 lb)	

* For additional **SPTM, L/S** specification refer to p. 26,28(Int.) and 27,29(Ext.).



The Electro-Pneumatic Positioner YT-1000R is used for operation of pneumatic rotary valve actuators by means of electrical controller or control system with an analog output signal of DC 4 to 20mA or split ranges. (refer to YT-1000L, page 14)

■ Pneumatic-Pneumatic Positioner YT-1200L

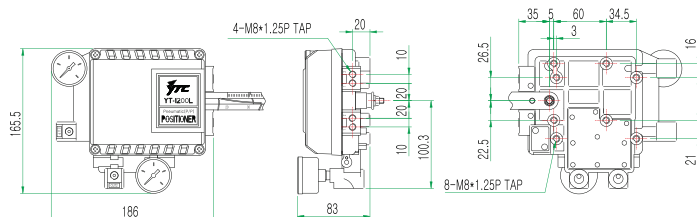
 Product Number: YT-1200L (specify your requirement)

Model	Acting Type	Lever Type	Orifice Type	Connection Type	Ambient Temp
YT-1200L	S Single	1 10 ~ 40mm	1 ϕ 1	1 PT	S -20°C ~ 70°C
	D Double	2 30 ~ 70mm	2 ϕ 2	2 NPT	H -20°C ~ 120°C
		3 60 ~ 100mm	3 None		L -40°C ~ 70°C
		4 100 ~ 150mm			



YT-1200L

Item · Type	Single	Double
Input Signal	0.02~0.1MPa(0.2~1 bar)	
Supply Pressure	0.14~0.7MPa(1.4~7 bar)	
Stroke	10 ~150mm	
Air Connection	PT(NPT) 1/4	
Gauge Connection	PT(NPT) 1/8	
Enclosure	IP66	
Ambient Temp.	-20°C~70°C(-4~158°F)	
Linearity	±1% F.S.	±2% F.S.
Hysteresis	±1% F.S.	
Sensitivity	±0.2% F.S.	±0.5% F.S.
Repeatability	±0.5% F.S.	
Air Consumption	2.5LPM (sup=0.14MPa)	
Flow Capacity	80LPM (sup=0.14MPa)	
Material	Aluminum Diecasting	
Weight	1.7kg (3.1 lb)	



The Pneumatic positioner YT-1200L is used for pneumatic linear valve actuators by means of pneumatic controller or control systems with an output signal of 3 to 5 psi or split ranges.

- Simple zero and span adjustment
- No resonance between 5-200Hz
- Auto/Manual switch
- RA v.s. DA action and 1/2 split range setting by simple adjustment

Pneumatic-Pneumatic Positioner YT-1200R

Product Number: YT-1200R ■ ■ ■ ■ ■ ■ (specify your requirement)

Model	Acting Type	Lever Type	Orifice Type	Connection Type	Ambient Temp	Option
YT-1200R	S Single	1 M6 × 34L	1 Φ 1	1 PT	S -20°C ~ 70°C	0 NONE
	D Double	2 M6 × 63L	2 Φ 2	2 NPT	H -20°C ~ 120°C	1 + Dome Cover
		3 M8 × 34L	3 None		L -40°C ~ 70°C	2 + SPTM-5VR
		4 M8 × 63L				3 + SPTM-6VR
		5 NAMUR				4 + L/S(YT-850)
						5 + L/S(YT-870)
						6 + SPTM+L/S(YT-870)



YT-1200R



YT-1200R+Dome



YT-1200R+YT-850



YT-1200R+SPTM-5VR



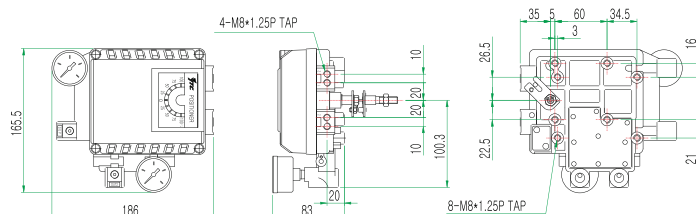
YT-1200R+SPTM-6VR



YT-1200R+YT-870

Item · Type	Single	Double
Input Signal	0.02~0.1MPa(0.2~1 bar)	
Supply Pressure	0.14~0.7MPa(1.4~7 bar)	
Stroke	0 ~ 90°	
Air Connection	PT(NPT) 1/4	
Gauge Connection	PT(NPT) 1/8	
Enclosure	IP66	
Ambient Temp.	-20°C~70°C(-4~158°F)	
Linearity	± 2% F.S.	
Hysteresis	± 1% F.S.	
Sensitivity	± 0.5% F.S.	
Repeatability	± 0.5% F.S.	
Air Consumption	2.5LPM (sup=0.14MPa)	
Flow Capacity	80LPM (sup=0.14MPa)	
Material	Aluminum Diecasting	
Weight	1.7kg (3.1 lb)	

* For additional **SPTM, L/S** specification refer to p. 26,28(Int.) and 27,29(Ext.).



The Pneumatic positioner YT-1200R is used for pneumatic rotary valve actuators by means of pneumatic controller or control systems with an output signal of 3 to 15 psi or split ranges.

- Simple zero and span adjustment
- No resonance between 5-200Hz
- Auto/Manual switch
- RA v.s. DA action and 1/2 split range setting by simple adjustment

Air Filter Regulator YT-200 / YT-205 / YT-220 / YT-225

Product Number: YT-200 / YT-205 / YT-220 / YT-225 (specify your requirement)

Model	Adjustable Range	Connection Type *	Gauge	Ambient Temp	Option
YT-200	A 0~0.42MPa	P PT	0 NONE	1 -20~70°C	0 Manual drain
YT-205	B 0~0.84MPa	N NPT	1 0~0.4MPa	2 -20~120°C	1 Auto drain
YT-220	*YT-205, YT-225 is available for NPT1/4 connection type ONLY.		2 0~1.0MPa	3 -40~70°C	
YT-225					

Manual drain



YT-200



YT-205



YT-220



YT-225

Auto drain



YT-200



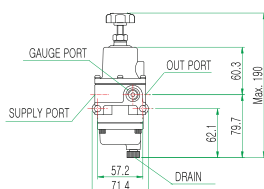
YT-205



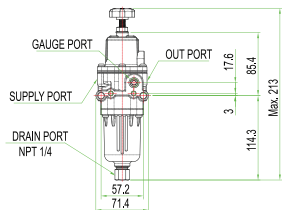
YT-220



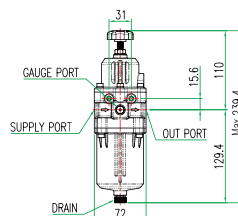
YT-225



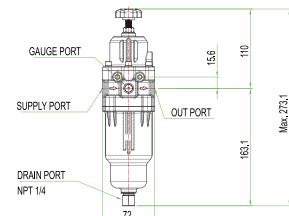
YT-200/YT-205(Manual drain)



YT-200/YT-205(Auto drain)

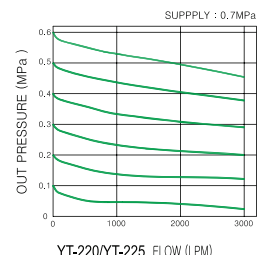
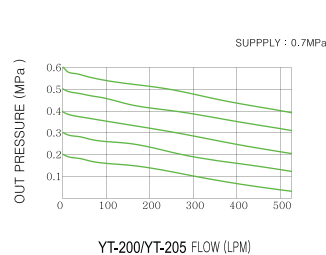


YT-220/YT-225(Manual drain)



YT-220/YT-225(Auto drain)

Item · Type	YT-200	YT-220	YT-205	YT-225
Max. Supply Pressure	1.7MPa (17 bar)			
Max. Output Pressure	0.42MPa (A Type) , 0.84MPa (B Type)			
Air Connection	PT (NPT) 1/4	PT (NPT) 1/2	NPT 1/4	NPT 1/2
Gauge Connection	PT (NPT) 1/4	PT (NPT) 1/4	NPT 1/4	NPT 1/4
Ambient Temp.	-20~70°C (-4~158°F) (Standard type)			
Min. Filtering Size	5 micron			
Material	Aluminum Diecasting		Stainless Steel 316	
Weight	0.6kg (1.7lb)	0.86kg (1.89lb)	1.4kg (3.0lb)	2.1kg(4.6lb)



Air filter regulator suitably reduce plant's main air supply pressure and supplies to valve positioner(s) or control device(s).

- Maintain stable outlet pressure
- Light weight and compact size
- 5 micron filter
- Relief function - discharge pressure if outer pressure is higher than set pressure

Volume Booster

YT-300 / YT-305 / YT-310 / YT-315 / YT-320 / YT-325

Product Number: YT-300 / YT-305 / YT-310 / YT-315 / YT-320/YT-325 (specify your requirement)

Model	Connection Type *	Ambient Temp
YT-300, YT-305	P PT	1 -20~70°C
YT-310, YT-315	N NPT	2 -20~120°C
YT-320, YT-325		3 -40~70°C

* YT-305, 310, 315, 325 is available for NPT connection type ONLY.



YT-300



YT-320



YT-310



YT-305



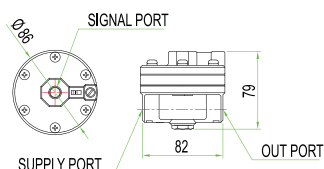
YT-325



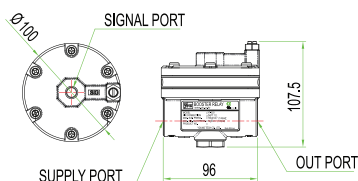
YT-315



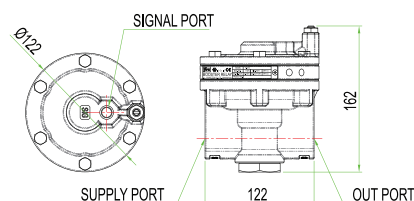
Item · Type		YT-300 YT-305	YT-320 YT-325	YT-310 YT-315
Max. Supply Pressure		1MPa (10bar)		
Max.Signal/Output Pressure		0.7MPa (7bar)		
Signal/Output Pressure Ratio		1 : 1		
Flow Capacity (Cv)	exhaust	1.32	2.08	5.24
	output	1.19	2.72	4.91
Supply/Output Connection		PT(NPT)1/4	NPT 1/2	NPT 3/4
Signal Connection		PT (NPT) 1/4		NPT 1/4
Linearity		±1% F.S.		
Ambient Temp.		-20°C ~ 70°C (-4 ~ 158°F) (Standard type)		
Material	YT-300, YT-320, YT-310	Aluminum Diecasting		
	YT-305, YT-325, YT-315	Stainless Steel 316		
Weight	YT-300 YT-320 YT-310	0,5kg (1.1lb)	0,76kg (1.7lb)	2,3kg (5.1lb)
	YT-305 YT-325 YT-315	1,3kg (2.9lb)	1,9kg (4.2lb)	5Kg (11lb)



YT-300/305



YT-320/325



YT-310/315

Volume booster YT-300, YT-310 and YT-320 boost the valve function's reaction speed by providing large air flow rate to actuator.

- Improves speed of valve movement
- Improves stability with by-pass control
- Reacts to sudden change in supply pressure
- Fixed deadband due to the seat-to-seat type of supply and exhaust pressure

Lock-up Valve YT-400 / YT-405 / YT-430 / YT-435

Product Number: YT-400 / YT-405 / YT-430 / YT-435 (specify your requirement)

Model	Acting Type	Connection Type *	Ambient Temp
YT-400	S Single	P PT	1 -20~70°C
YT-405	D Double	N NPT	2 -20~120°C
YT-430			3 -40~70°C
YT-435	* YT-405, YT-430, YT-435 is available for NPT connection type ONLY.		



YT-400S



YT-400D



YT-430S



YT-430D



YT-405S



YT-405D



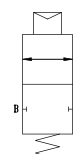
YT-435S



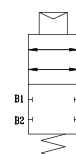
YT-435D

Item · Type	YT-400	YT-405	YT-430	YT-435
Signal Pressure	0.14~0.7MPa(1.4~7 bar)			
Max Supply Pressure	Max. 1MPa (10bar)			
Lock-Up Pressure	Max. 0.7MPa (7bar)			
Differential Pressure	Below 0.01MPa (0.1bar)			
Ambient Temp.	-20°C~70°C(-4~158°F) (Standard type)			
Flow Capacity (Cv)	0.9		1.8	
Air Connection	PT(NPT)1/4	NPT 1/4	NPT 3/8	
Signal Connection	PT(NPT)1/4	NPT 1/4	NPT 1/4	
Material	Aluminum Diecasting	Stainless Steel 316	Aluminum Diecasting	Stainless Steel 316
Weight	Single	0.45kg(1.0lb)	1.3kg(2.2lb)	1.3kg(2.2lb)
	Double	0.7kg(1.5lb)	1.5kg(3.3lb)	2.3kg(5.1lb)

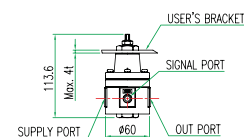
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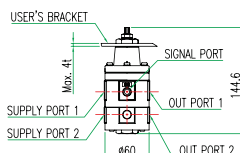
Single Acting Type



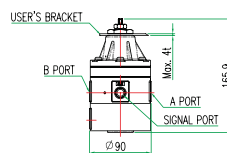
Double Acting Type



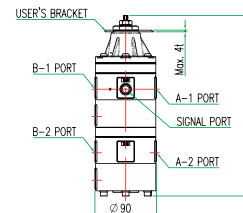
YT-400S, YT-405S(Single Acting)



YT-400D, YT-405D(Double Acting)



YT-430S, YT-435S (Single Acting)



YT-430D, YT-435D (Double Acting)

Lock-up valve YT-400 senses the main supply pressure and shuts down the air flow when the pressure is lower than setting.

- Compact size - NO bracket is required
- Detects small variation of the pressure - below 0.01MPa.