

Valve Positioners and Accessories



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About YTC

YTC's technique is based on our experience in control valve over twenty years. With our experience, YTC built first Korean made positioner, volume booster, and position transmitter. After 10 years of YTC establishment, we are now serving domestic and overseas customers in more than 55 countries.

To fulfill customers' expectations, YTC products are certified from domestic and international certifying institutions. Following ISO 9001 quality systems, each product is sophisticatedly manufactured with highest workmanship with finest materials. YTC simultaneously strives to develop newest product and technology to the industry to meet today's fast-paced technology.

We are confident that our customer will enjoy and be satisfied with our products.

YTC will continuously strive to develop leading technology product that can provide effective and efficient control solutions.

Sincerely,

CEO Myung-Geon Lee

History

2014.04	Acquired by Rotork PLC
2012.12	Certified KEPIC
2011.10	Awarded as " Star Company " from Korea Credit Guarantee Fund Association
2011.07	Awarded as " Export Small Giant 500 Company " from industrial Bank of Korea
2011.04	Recognized as " Main-Biz " for management innovation from Small and Medium Business Administration of Korea
2011.02	Expansion to New-built Young Tech.,Ltd factory building
2010.01	Certified ISO 9001:2008
2009.10	Produced the T/M type smart positioner YT-3300, YT-3400 series
2009.02	Certified and registered as Qualified spare parts supplier from Korea Hydro&Nuclear Power Co.,Ltd
2008.04	Produced the fail freeze type smart positioner YT-2500 series
2005.09	Selected as Approved Korea Hydro & Nuclear Power Co.,Ltd. Parts Vendor List
2004.12	Joined Fieldbus
2004.01	Established R&D lab
2003.02	Certified ISO 9001:2000
2002.07	Certified Export-oriented Small and Medium-sized company from Korean
2002.05	Joined in HART foundation
2002.02	Started to produce EA91, EA90 by OEM for Motoyama Eng. Works, Ltd.
2000.04	Certified Venture Business (from Korean Government)
2000.01	Certified ISO 9001:1994
1999.04	Produced the Smart positioner YT-2000L, R
1996.05	Produced the Electro-pneumatic positioner YT-1000L, R
1996.01	Established Young Tech Co., Ltd.



Certifications



TUV ISO 9001



CE



ATEX



IECEx



FM



CSA



INMETRO



GOST



NEPSI



KTL



SIL



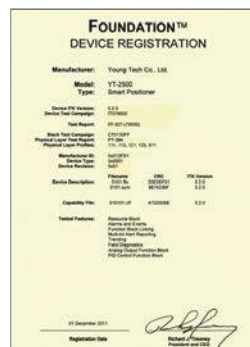
IP66



EMC



KEPIC



Foundation Device Reg



HART Membership

Certifications



Product Type	Model Number	Cert. Type	Rating
Electro-Pneumatic Positioner	YT-1000 /1050	ATEX	II 2G Ex db mb IIB T5 Gb
		IECEX	Ex db mb T5 Gb
	YT-1000	FM	XP-S/A/1/CD/T5 Ta=60°C; DIP/II,III/1/E FG/T5 Ta=60°C;Type 4X
		CSA	(Class I, Zone 1)Ex dm IIB T5
		NEPSI	Ex dmb IIC T6 Gb
		TIS	Ex dmb IIB T5
		TS	Ex db mb IIB T5 Gb X
		KCs	Ex dmb IIB T5
			Ex d IIC T5 IP66
			Ex ia IIB Gb
	YT-1050	KCs	Ex dmb IIB T5
Smart Positioner	YT-3300 /3350 /3303 /3301 /3400 /3450	SIL	SIL2 /SIL3
	YT-3300 /3350 /3303 /3301	ATEX	Ex ia IIC T5/T6 Gb, EX iaD IIIC T100°C/T85°C Db IP66
		IECEX	Ex ia IIC T5/T6 Gb, EX iaD IIIC T100°C/T85°C Db IP66
	YT-3300 /3350 /3303	FM	Class I, Div 1, Groups ABCD Class I, Zone 0 AEx ia IIC Class II/III, Div 1, Groups EFG Class I, II, III, Div 2, Groups ABCDEFG NEMA Type 4 IP66 AMBIENT TEMP: -40°C ~ 60°C (T5) / -40°C ~ 40°C (T6)
			Pending
	YT-3300 /3350 /3303 /3301	CSA	Pending
	YT-3300	NEPSI	Ex ia IIC T5/T6
		KCs	Ex ia IIC T5/T6, EX iaD IIIC T100°C/T85°C
	YT-3350	KCs	Ex ia IIC T5/T6, EX iaD IIIC T100°C/T85°C
	YT-3303	KCs	Ex ia IIC T5/T6 Gb, EX iaD IIIC T100°C/T85°C Db
	YT-3301	KCs	Ex ia IIC T5/T6, EX iaD IIIC T100°C/T85°C
	YT-3400 /3450	ATEX	Ex db IIC T5/T6, Ex tb IIIC T85°C/T100°C
		IECEX	Ex db IIC T5/T6, Ex tb IIIC T85°C/T100°C
		FM	XP/A/1/ABCD/T6 Ta= -40°C to +70°C, T5 Ta= -40°C to +80°C I/1/AEx db IIC/T6 Ta= -40°C to +70°C, T5 Ta= -40°C to +80°C DIP/II, III/1/E FG/T6 Ta= -40°C to +70°C, T5 Ta= -40°C to +80°C 21/AEx tb IIIC/T85°C Ta= -40°C to +70°C, T100°C Ta= -40°C to +80°C; IP66
	YT-3400 /3450	CSA	Ex db IIC T5 or T6 Class I, Zone 1, AEx db IIC T5 or T6, Class II, Division 1, Groups E, F and G; Ex tb IIC T85°C/T100°C AEx tb IIIC T85°C/T100°C
		NEPSI	Ex db IIC T5/T6, DIP A21 TA, T5/T6
	YT-3400	KCs	Ex d IIC T5/T6 IP66
	YT-3450	KCs	Ex d IIC T5/T6, Ex tb IIIC T85°C/T100°C
	YT-2500 /2550 /2501	ATEX	Ex ia IIC T5/T6 Gb, Ex iaD IIC T85°C/T100°C IP6X
		IECEX	Ex ia IIC T5/T6 Gb, Ex iaD IIC T85°C/T100°C IP6X
	YT-2500	NEPSI	Ex ia IIC T5/T6
		KCs	Ex ia IIC T5/T6, EX iaD IIIC T100°C/T85°C
	YT-2550	KCs	Ex ia IIC T5/T6, EX iaD IIIC T100°C/T85°C
	YT-2501	KCs	Ex ia IIC T5/T6, EX iaD IIIC T100°C/T85°C
	YT-2600	ATEX	Ex db IIC T5/T6, Ex tb IIIC T85°C/T100°C
		IECEX	Ex db IIC T5/T6, Ex tb IIIC T85°C/T100°C
		KCs	Ex d IIC T5/T6 IP66
	YT-2700	KCs	Ex ia IIC T5
IP Converter	YT-930	ATEX	Ex ia IIC T5/T6 Gb, Ex ia IIIC T100°C/T85°C Db
		IECEX	Ex ia IIC T5/T6 Gb, Ex ia IIIC T100°C/T85°C Db
	YT-940	FM	Class I Division 1, Groups A, B, C, D; T6 Ta= -40°C to +75°C, T5 Ta= -40°C to +85°C; Type 4X, IP66 Class II, III Division 1, Groups E, F, G; T6 Ta= -40°C to +75°C, T5 Ta= -40°C to +85°C; Type 4X, IP66 Class I, Zone 1, AEx d IIC T6 Ta= -40°C to +75°C, T5 Ta= -40°C to +85°C, Type 4X, IP66 Zone 21 AEx tb IIIC T85°C Ta= -40°C to +75°C, T100°C Ta= -40°C to +85°C, Type 4X, IP66
		CSA	Pending
		KCs	Ex d IIC T5/T6
Solenoid Valve	YT-720	KCs	Ex d IIC T6
Position Transmitter	SPTM-5V	KCs	Ex ia IIC T5
	SPTM-6V	KCs	Ex d IIC T6 IP67
	SPTM-65V	KCs	Ex d IIC T6 IP67
Limit Switch	YT-870 /875	ATEX	Ex db IIC T6, Ex tb IIIC T85°C
		IECEX	Ex db IIC T6, Ex tb IIIC T85°C
		CSA	Ex db IIC T6 Class I, Zone 1, AEx db IIC T6 Class II, Division 1, Groups E, F and G, Ex tb IIIC T85°C Zone 21, AEx tb IIIC T85°C
	YT-870	KCs	Ex db IIC T6
	YT-875	KCs	Ex d IIC T6
Volume Booster	YT-300 /305 /320 /325 /310 /315	SIL	SIL3

Smart Positioner YT-3300 / YT-3350

Model	Motion Type	Acting Type	Explosion Protection	Lever Type		Conduit - Air Connection *2	Communication	Option	Operating Temp
				Linear *1	Rotary				
YT-3300	L Linear	S Single	N Non-Explosion	0 10~40mm	1 M6×34L	1 G1/2 - PT1/4	0 NONE	0 NONE	S -30℃~ 85℃
YT-3350	R Rotary	D Double	I ATEX, IECEx, NEPSI, KCs	1 20~100mm	2 M6×63L	2 G1/2 - NPT1/4	2 + HART	1 + PTM	L -40℃~ 85℃
				2 90~150mm	3 M8×34L	3 G1/2 - G1/4		2 + L/S(Mechanical Type)	
				3 16~30mm	4 M8×63L	4 M20 - NPT1/4 *3		3 + L/S(Proximity Type)	
				4 16~60mm	5 NAMUR	5 NPT1/2 - NPT1/4		4 + PTM+L/S(Mechanical Type)	
				5 16~100mm				5 + PTM+L/S(Proximity Type)	
				6 90~150mm					

*1 Lever 3~6 is adapter lever type.

*2 YT-3350 is available for No.2 ONLY.

*3 M20 adapter is attached to conduit entry



SIL2 / SIL3



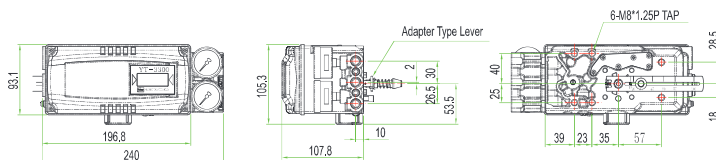
YT-3300



YT-3300+L/S



YT-3350



Item · Type		YT-3300	YT-3350
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.500Ω @ 20mA DC	
Air Connection		PT(NPT,G)1/4	NPT 1/4
Gauge Connection		PT(NPT)1/8	NPT 1/8
Conduit		G(PF,NPT)1/2,M20	G(PF)1/2
Operating Temp	Standard Type.	-30℃ ~ 85℃ (-22~185° F)	
	Low Temp. Type.	-40℃ ~ 85℃ (-40~185° F)	
LCD Operating Temp.		-30℃ ~ 85℃ (-22~185° F)	
Ambient Temp. of Explosion Proof		-40~60℃(T5) / -40~40℃(T6)	
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
Ingress Protection		IP66	
Explosion Protection Type		ATEX, IECEx Ex ia IIC T5/T6 Gb, Ex iaD IIC T100℃/T85℃ Db IP66	
		NEPSI Ex ia IIC T5/ T6	
		KCs Ex ia IIC T5/T6, Ex iaD IIC T100℃/T85℃	
		CSA Pending	
		FM Class I, Div 1, Groups ABCD Class I, Zone 0 AEx ia IIC Class III, Div 1, Groups EFG Class I, II, Div 2, Groups ABCDEFG NEMA Type 4 IP66 AMBIENT TEMP: -40℃ ~ 60℃ (T5) / -40℃ ~ 40℃ (T6)	
Communication(Optional)		HART(ver.7)	
L/S	Mechanical Type(Omron)	AC 125V, 3A DC 30V, 2A	
	Proximity Type(P&F)	DC 8.2V 8.2mA	
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
- LCD display
- Feedback signal
- Auto/Manual switch
- PID control
- Limit switch
- HART communication
- 4 buttons for local control

Smart Positioner YT-3303

Model	Motion Type	Acting Type	Explosion Protection	Lever Type		Conduit - Air Connection	Communication	Option	Operating Temp
				Linear	Rotary				
YT-3303	L Linear	S Single	N Non-Explosion	1 10~40mm	1 M6 × 34L	1 G1/2 - PT1/4	0 NONE	0 NONE	S -30°C ~ 85°C
	R Rotary	D Double	I ATEX, IECEx, NEPSI, KCs	2 20~70mm	2 M6 × 63L	2 G1/2 - NPT1/4	2 + HART	1 + PTM	L -40°C ~ 85°C
			A CSA, FM	3 50~100mm	3 M8 × 34L	3 G1/2 - G1/4			
				4 100~150mm	4 M8 × 63L	4 M20 - NPT1/4 *1			
					5 NAMUR	5 NPT1/2 - NPT1/4 *2			

*1 M20 adapter is attached to conduit entry

*2 NPT 1/2 adapter is attached to conduit entry.



SIL2 / SIL3



YT-3303

Item · Type		YT-3303
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.500Ω @ 20mA DC
Air Connection		PT(NPT,G)1/4
Gauge Connection		PT(NPT)1/8
Conduit		G(PF,NPT)1/2, M20
Operating Temp	Standard Type.	-30°C ~ 85°C (-22~185° F)
	Low Temp. Type.	-40°C ~ 85°C (-40~185° F)
LCD Operating Temp.		-30°C ~ 85°C (-22~185° F)
Ambient Temp. of Explosion Proof		-40~60°C(T5) / -40~40°C(T6)
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
Ingress Protection		IP66
Explosion Protection Type		ATEX, IECEx Ex ia IIC T5/T6 Gb, Ex iaD IIC T100°C/T85°C Db IP66
		NEPSI Ex ia IIC T5/ T6
		KCs Ex ia IIC T5/T6 Gb, Ex iaD IIC T100°C/T85°C Db
		CSA Pending
Explosion Protection Type		FM Class I, Div 1, Groups ABCD Class I, Zone 0 AEx ia IIC Class III, Div 1, Groups EFG Class I, II, III, Div 2, Groups ABCDEFG NEMA Type 4 IP66 AMBIENT TEMP: -40°C ~ 60°C (T5)/-40°C ~ 40°C (T6)
Communication(Optional)		HART(ver.7)
Weight		2kg (4.4lb)

YT-3303 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

Smart Positioner

YT-3301

Model	Motion Type	Acting Type	Explosion Protection	Lever Type		Conduit - Air Connection	Communication	Option	Operating Temp	Cable Length
YT-3301	L Linear	S Single	N Non-Explosion	1 10~40mm	5 NAMUR	1 G1/2 - PT1/4	0 NONE	0 NONE	S -30°C ~ 85°C	1 5m
	R Rotary	D Double	I ATEX, IECEx, NEPSI, KCs	2 20~70mm		2 G1/2 - NPT1/4	2 + HART	1 + PTM	L -40°C ~ 85°C	2 10m
			A CSA, FM	3 50~100mm		3 G1/2 - G1/4				3 15m
				4 100~150mm		4 M20 - NPT1/4 *1				4 20m
						5 NPT1/2 - NPT1/4				

*1 M20 is adapter type

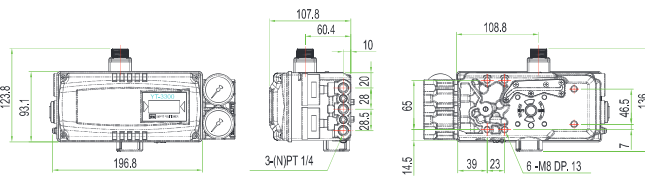


YT-3301R Sensor

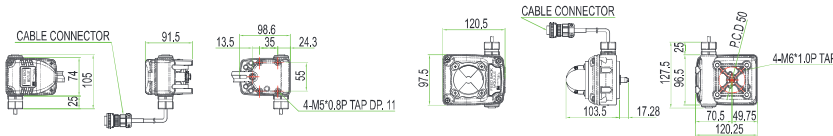


YT-3301L Sensor

YT-3301 Body



YT-3301 Body



YT-3301L Sensor

YT-3301R Sensor



SIL2 / SIL3



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 @ 20mA DC	
Air Connection	PT(NPT,G)1/4	
Gauge Connection	PT(NPT)1/8	
Conduit	G(PF,NPT)1/2, M20	
Operating Temp	Sensor Operating Temp.	-40°C ~ 120°C(-40~248°F)
	Body Operating Temp.	-30°C ~ 85°C(-22~185°F)
LCD Operating Temp.	-30°C ~ 85°C(-22~185°F)	
Ambient Temp. of Explosion Proof	-40~60°C(T5) / -40~40°C(T6)	
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	
Ingress Protection	IP66	
Explosion Protection Type	ATEX, IECEx Ex ia IIC T5/T6 Gb, Ex iaD IIIC T100°C/T85°C Db IP66 NEPSI Ex ia IIC T5/T6 KCs Ex ia IIC T5/T6, EX iaD IIIC T100°C/T85°C CSA Pending FM Class I, Div 1, Groups ABCD Class I, Zone 0 AEx ia IIC Class III, Div 1, Groups EFG Class I, II, III, Div 2, Groups ABCDEFG NEMA Type 4 IP66 AMBIENT TEMP: -40°C ~ 60°C (T5) / -40°C ~ 40°C (T6)	
Communication(Optional)	HART(ver.7)	
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

Smart Positioner

YT-3400 / YT-3450

Model	Motion Type	Acting Type	Explosion Protection	Lever Type		Conduit - Air Connection *1	Communication	Option *3	Operating Temp
				Linear	Rotary				
YT-3400	L Linear	S Single	C ATEX, IECEx, NEPSI, KCs	1 10~40mm	1 M6×34L	1 G1/2 - PT1/4	0 NONE	0 NONE	S -30℃~ 85℃
YT-3450	R Rotary	D Double	A CSA, FM	2 20~70mm	2 M6×63L	2 G1/2 - NPT1/4	2 + HART	1 +PTM	L -40℃~ 85℃
				3 50~100mm	3 M8×34L	3 G1/2 - G1/4		2 +L/S	
				4 100~150mm	4 M8×63L	4 M20 - NPT1/4 *2		3 +PTM+L/S	
					5 NAMUR	5 NPT1/2 - NPT1/4			

*1 YT-3450 is available for No.2 ONLY.

*2 M20 adapter is attached to conduit entry

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



SIL2 / SIL3



YT-3400



YT-3450

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,G)1/4	NPT 1/4
Gauge Connection		PT(NPT)1/8	NPT 1/8
Conduit		G(PF,NPT)1/2, M20	G(PF)1/2
Operating Temp	Standard Type.	-30°C ~ 85°C (-22~185° F)	
	Low Temp Type.	-40°C ~ 85°C (-40~185° F)	
LCD Operating Temp.		-30°C ~ 85°C (-22~185° F)	
Ambient Temp. of Explosion Proof		-40~80°C(T5) / -40~70°C(T6)	
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
Ingress protection		IP66	
Explosion Protection Type		ATEX, IECEx Ex db IIC T5/T6, Ex tb IIC T85°C/T100°C	
		NEPSI Ex db IIC T5/T6, DIP A21 TA, T5/T6	
		KCs Ex d IIC T5/T6 IP66	
		CSA Ex db IIC T5 or T6 Class I, Zone 1, AEx db IIC T5 or T6, Class II, Division 1, Groups E, F and G, Ex tb IIC T85°C/T100°C AEx tb IIC T85°C/T100°C	
		FM XP/II/1/ABCD/T6 Ta= -40°C to +70°C, T5 Ta= -40°C to +80°C I/1/AEx db IIC/T6 Ta= -40°C to +70°C, T5 Ta= -40°C to +80°C DIP/II, III/1/EF/G/T6 Ta= -40°C to +70°C, T5 Ta= -40°C to +80°C 21/AEx tb IIC/T85°C Ta= -40°C to +70°C, T100°C Ta= -40°C to +80°C; IP66	
Communication(Optional)		HART(ver.7)	
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
- Auto/Manual switch
- LCD display
- PID control
- Feedback signal
- Limit switch
- HART communication
- 4 buttons for local control

Smart Positioner YT-2500 / YT2550

Model	Motion Type	Acting Type	Explosion Protection	Lever Type		Conduit - Air Connection *1	Communication	Option	Fail Option
				Linear	Rotary				
YT-2500	L Linear	S Single	N Non-Explosion	1 10~40mm	1 M6×34L	1 G1/2 - PT1/4	0 NONE	0 NONE	F Fail Freeze
YT-2550	R Rotary	D Double	I ATEX, IECEx, NEPSI, KCs	2 20~70mm	2 M6×63L	2 G1/2 - NPT1/4	2 + HART	1 + PTM	S Fail Safe
				3 50~100mm	3 M8×34L	3 G1/2 - G1/4		2 + L/S(Mechanical Type)	
				4 100~150mm	4 M8×63L	4 M20 - NPT1/4 *2		3 + L/S(Proximity Type)	
					5 NAMUR	5 NPT1/2 - NPT1/4		4 + PTM+L/S(Mechanical Type)	
								5 + PTM+L/S(Proximity Type)	

*1 YT-2550 is available for No.2 ONLY.

*2 M20 adapter is attached to conduit entry



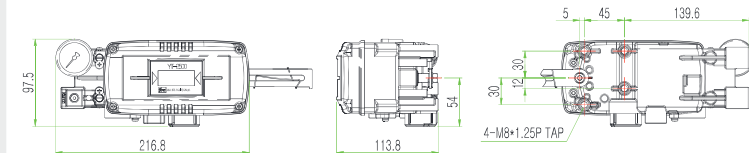
YT-2500



YT-2550



Item · Type		YT-2500	YT-2550
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.500Ω @ 20mA DC	
Air Connection		PT(NPT,G)1/4	NPT 1/4
Gauge Connection		PT(NPT)1/8	NPT 1/8
Conduit		G(PF,NPT)1/2, M20	G(PF)1/2
Operating Temp.	Operating Temp.	-30°C ~ 80°C (-22~176 ° 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.	
Repeatability		± 0.3% F.S.	
Air Consumption	Fail Freeze	0.01LPM(sup=0.14MPa)	
	Fail Safe	6 LPM(sup=0.14MPa)	
Flow Capacity	Fail Freeze	60 LPM(sup=0.14MPa)	
	Fail Safe	40 LPM(sup=0.14MPa)	
Output Characteristics		Linear, EQ%, Quick Open user set (16 Point)	
Material		Aluminum Diecasting	Stainless steel 316
Ingress Protection		IP66	
Explosion Protection Type		ATEX, IECEx Ex ia IIC T5/T6 Gb, Ex iaD IIC T85°C/T100°C IP6X NEPSI Ex ia IIC T5/T6 KCs ia IIC T5/T6, EX iaD IIC T100°C/T85°C	
Communication(Optional)		HART(ver.5)	
L/S	Mechanical Type(Omron)	AC 125V, 3A DC 30V, 2A	
Rating	Proximity Type(P&F)	DC 8.2V 8.2mA	
Weight		1.5kg (3.3lb)	2.9kg (6.4lb)



YT-2500 Smart Valve Positioner accurately controls valve stroke, according to input signal of 4-20mA being delivered from controller.

- Fail freeze function
- Auto calibration
- LCD display
- Near zero air consumption level
- PD control
- Feedback signal
- HART communication
- 4 buttons for local control
- Limit switch

Smart Positioner YT-2501

Model	Motion Type	Acting Type	Explosion Protection	Lever Type		Conduit - Air Connection	Communication	Option	Fail Option	Cable Length
				Linear	Rotary					
YT-2501	L Linear	S Single	N Non-Explosion	1 10~40mm	5 NAMUR	1 G1/2 - PT1/4	0 NONE	0 NONE	F Fail Freeze	1 5m
	R Rotary	D Double	I ATEX, IECEx, KCs	2 20~70mm		2 G1/2 - NPT1/4	2 + HART	1 +PTM	S Fail Safe	2 10m
				3 50~100mm		3 G1/2 - G1/4				3 15m
				4 100~150mm		4 M20 - NPT1/4 *1				4 20m
						5 NPT1/2 - NPT1/4				

*1 M20 adapter is attached to conduit entry

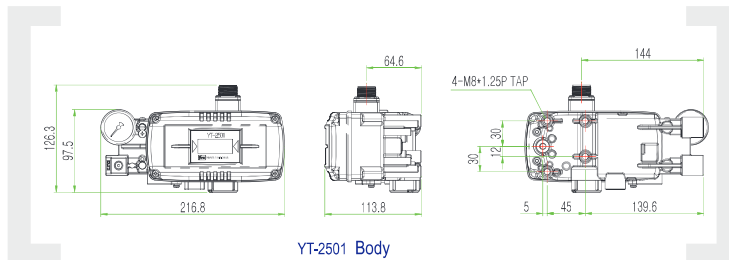


YT-2501R Sensor

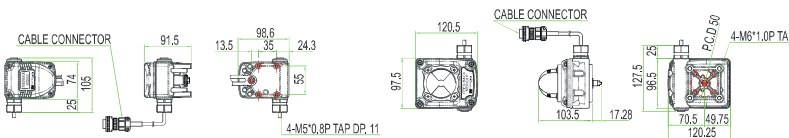


YT-2501L Sensor

YT-2501 Body



YT-2501 Body



YT-2501L Sensor

YT-2501R Sensor



Item · Type		YT-2501L	YT-2501R
Input Signal		4~20mA DC	
Supply Pressure		0.14~0.7MPa(1.4~7 bar)	
Stroke		10~150mm	0 ~ 90°
Impedance		Max.500Ω @ 20mA DC	
Air Connection		PT(NPT,G)1/4	
Gauge Connection		PT(NPT)1/8	
Conduit		G(PF,NPT)1/2, M20	
Operating Temp	Sensor Operating Temp.	-40°C ~ 120°C(-40~248°F)	
	Body Operating Temp.	-30°C ~ 80°C(-22~176°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.	
Repeatability		±0.3% F.S.	
Air	Fail Freeze	0.01LPM (sup=0.14MPa)	
Consumption	Fail Safe	6 LPM (sup=0.14MPa)	
Flow	Fail Freeze	60 LPM (sup=0.14MPa)	
Capacity	Fail Safe	40 LPM (sup=0.14MPa)	
Output Characteristics		Linear, EQ%, Quick Open user set (16 Point)	
Material		Aluminum Diecasting	
Ingress Protection		IP66	
Explosion Protection Type		ATEX, IECEx Ex ia IIC T5/T6 Gb, Ex iaD IIC T85°C/T100°C IP6X KCs Ex ia IIC T5/T6, EX iaD IIC T100°C/T85°C	
Communication(Optional)		HART(ver.5)	
Weight	Body	1.5kg (3.3lb)	
	Sensor	0.6kg (1.3lb)	0.9kg (2.0lb)

YT-2501 Smart Positioner supplies remote functions and higher liabilities in **high temperature and vibration environment**.

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

Smart Positioner YT-2600

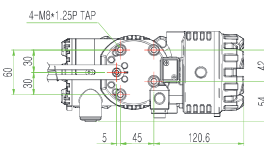
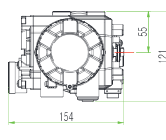
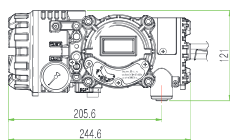
Model	Motion Type	Acting Type	Explosion Protection	Lever Type		Conduit - Air Connection	Communication	Option *1	Fail Option
				Linear	Rotary				
YT-2600	L Linear	S Single	C ATEX, IECEx, KCs	1 10~40mm	1 M6×34L	1 G1/2 - PT1/4	0 NONE	0 NONE	F Fail Freeze
	R Rotary	D Double		2 20~70mm	2 M6×63L	2 G1/2 - NPT1/4	2 + HART	1 + PTM	S Fail Safe
				3 50~100mm	3 M8×34L	3 G1/2 - G1/4		2 + L/S	
				4 100~150mm	4 M8×63L	4 M20 - NPT1/4 *1		3 + PTM+L/S	
					5 NAMUR	5 NPT1/2 - NPT1/4			

*1 M20 adapter is attached to conduit entry

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



YT-2600



Item · Type		YT-2600L	YT-2600R
Input Signal		4~20mA DC	
Supply Pressure		0.14~0.7MPa(1.4~7 bar)	
Stroke		10~150mm	0 ~ 90°
Impedance		Max.460Ω @ 20mA DC	
Air Connection		PT(NPT,G)1/4	
Gauge Connection		PT(NPT)1/8	
Conduit		G(PF,NPT)1/2, M20	
Operating Temp	Operating Temp.	-30℃ ~ 80℃ (-22~176° F)	
	Explosion Temp.	-40~80℃(T5) / -40~70℃(T6)	
Linearity		±0.5% F.S.	
Hysteresis		±0.5% F.S.	
Sensitivity		±0.2% F.S.	
Repeatability		±0.3% F.S.	
Air Consumption	Fail Freeze	0.01LPM (sup=0.14MPa)	
	Fail Safe	6 LPM (sup=0.14MPa)	
Flow Capacity	Fail Freeze	50LPM (sup=0.14MPa)	
	Fail Safe	40LPM (sup=0.14MPa)	
Output Characteristics		Linear, EQ%, Quick Open user set (16 Point)	
Material		Aluminum Diecasting	
Ingress Protection		IP66	
Explosion Protection Type		ATEX, IECEx Ex db IIC T5/T6, Ex tb IIC T85℃/T100℃ KCs Ex d IIC T5/T6 IP66	
Communication(Optional)		HART(ver.5)	
Weight		3.0kg (6.61lb)	

YT-2600 Smart Valve Positioner accurately controls valve stroke, according to input signal of 4-20mA being delivered from controller.

- Fail freeze function
- Auto calibration
- LCD display
- Near zero air consumption level
- PD control
- Feedback signal
- HART communication
- 4 buttons for local control
- Limit switch

Smart Positioner YT-2700

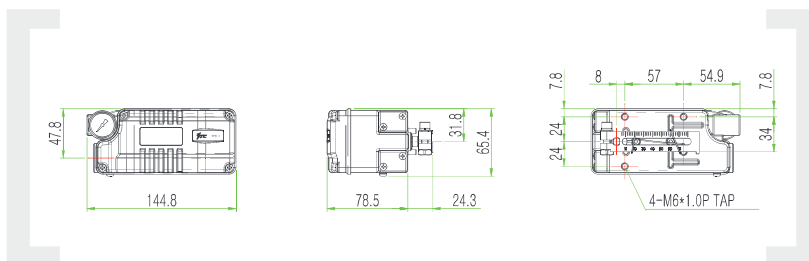
Model	Motion Type	Acting Type	Explosion Protection	Lever Type		Conduit-Air Connection	Communication	Option	Fail Option
				Linear	Rotary				
YT-2700	L Linear	S Single	N Non-Explosion	1 5~35mm	1 M6×34L	1 G1/2 - PT1/4	0 NONE	0 NONE	F Fail Freeze
	R Rotary	I KCs			2 M6×63L	2 G1/2 - NPT1/4	2 + HART	1 + PTM	S Fail Safe
					3 M8×34L				
					4 M8×63L				
					5 NAMUR				



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.450Ω @ 20mA DC	
Air Connection		PT(NPT)1/4	
Gauge Connection		PT(NPT)1/8	
Conduit		G1/2 (PF1/2)	
Operating Temp	Operating Temp.	-30℃ ~ 80℃ (-22~176 °F)	
	Explosion Temp.	-40~60℃(T5) / -40~40℃(T6)	
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	
Ingress Protection		IP66	
Explosion Protection Type		KCs Ex ia IIC T5	
Communication(Optional)		HART(ver.5)	
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.

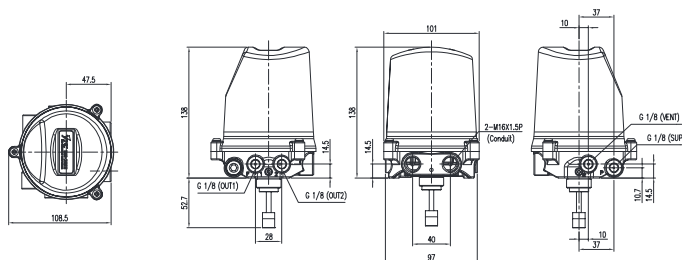
- Fail freeze function
- LCD display
- Feedback signal
- Near zero air consumption level
- PD control
- Auto calibration
- HART communication
- 4 buttons for local control
- Single acting only

■ **Smart Positioner** TMP-3000

Model	Acting Type	Explosion Protection	Conduit-Air Connection	Flow Capacity	Option	Fail Option
TMP-3000	S Single	N Non-Explosion	G M16X1.5 - G1/8	1 20LPM	0 NONE	F Fail Freeze
	D Double			2 50LPM	1 + PTM	S Fail Safe



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)
Operating Temp	-10 ~ 60 °C
Supply Pressure	0 ~ 0.7 MPa (0 ~ 7 bar)
Air Consumption	0 LPM
Flow Capacity	20 / 50 LPM
Filtrirng Size	5 micron
Acting Type	Single 2 solenoid valves Double 4 solenoid valves
Stroke	5 ~ 40mm
Air Connection	G1/8 (Ø6mm tube)
Conduit	M16x1.5 (with screw terminals)
Ingress Protection	IP67
Body Material	PPS
Cover Material	PC
Weight	820g (1.8lb)



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

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

Electro-Pneumatic Positioner YT-1000L

Model	Acting Type	Explosion Protection	Lever Type	Orifice Type	Conduit - Air Connection	Operating Temp	Option *2
YT-1000L	S Single	N Non-Explosion	1 10 ~ 40mm	1 ϕ 1	1 G1/2 - PT1/4	S -20°C ~ 60°C	0 NONE
	D Double	M ATEX, IECEx, TS, KCs	2 30 ~ 70mm	2 ϕ 2	2 G1/2 - NPT1/4	H -20°C ~ 120°C	2 + SPTM (Smart type)
		A CSA, FM	3 60 ~ 100mm	3 None	3 G1/2 - G1/4	L -40°C ~ 70°C	3 + SPTM with LCD(Smart type)
		C KCs, NEPSI	4 100 ~ 150mm		4 M20 - NPT1/4 *1		
		I KCs			5 NPT1/2 - NPT1/4		
		X TIIS					

*1 M20 adapter is attached to conduit entry

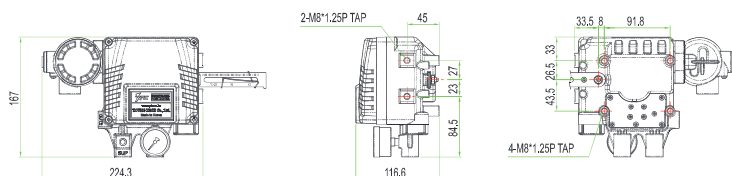
*2 With high-low temp and/or internal SPTM option, positioner must be non-explosion type .



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 Protection Type	ATEX (II 2 G)Ex dmb IIB T5 IECEx (II 2 G)EEx md IIB T5 KCs Ex dmb IIB T5/Ex d IIC T5 IP66/Ex ia IIB T6 Gb TS Ex dmb IIB T5 Gb X CSA (Class I, Zone 1)Ex dmb IIB T5 FM XP-S/II/1/CD/T5 Ta=60°C; DIP/II, III/1/EF/G/T5 Ta=60°C ;Type 4X NEPSI Ex dmb IIC T6 Gb TIIS Ex dmb IIB T5	
Ingress Protection	IP66	
Operating 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.25.

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

Model	Acting Type	Explosion Protection	Lever Type	Orifice Type	Conduit - Air Connection	Operating Temp *2	Option1	Option2 *2
YT-1000R	S Single	N Non-Explosion	1 M6 × 34L	1 φ 1	1 G1/2 - PT1/4	S -20°C ~ 60°C	0 NONE (St'd)	0 NONE
	D Double	M ATEX, IECEx, TS, KCs	2 M6 × 63L	2 φ 2	2 G1/2 - NPT1/4	H -20°C ~ 120°C	1 Dome Cover	1 + SPTM (Internal)
		A CSA, FM	3 M8 × 34L	3 None	3 G1/2 - G1/4	L -40°C ~ 70°C		2 + SPTM (External)
		C KCs, NEPSI	4 M8 × 63L		4 M20 - NPT1/4 *1			3 + L/S (Internal)
		I KCs	5 NAMUR		5 NPT1/2 - NPT1/4			4 + L/S (External)
		X TIIS						5 + SPTM + L/S (Internal)
								6 + SPTM + L/S (External)

*1 M20 adapter is attached to conduit entry

*2 With high-low temp and/or internal external 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)

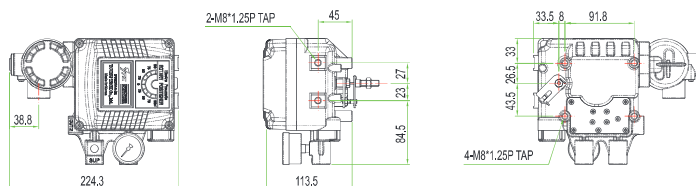


YT-1000R+SPTM(ext)



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 Protection Type		ATEX (II 2 G)Ex dmb IIB T5 IECEx (II 2 G)Ex md IIB T5 KCs Ex dmb IIB T5/Ex d IIC T5 IP66/Ex ia IIB T6 Gb TS Ex db mb IIB T5 Gb X CSA (Class I, Zone 1)Ex dm IIB T5 FM XP-S/II/1/CD/T5 Ta=60°C; DIP/III/1/EF/G/T5 Ta=60°C; Type 4X NEPSI Ex dmb IIC T6 Gb TIIS Ex dmb IIB T5	
Ingress Protection		IP66	
Operating 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. 25, 27 (Internal) and 26, 28 (External).



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 13)

Electro-Pneumatic Positioner YT-1050

Model	Motion Type	Acting Type	Explosion Protection	Lever Type		Orifice Type	Conduit - Air Connection	Operating Temp *1
				Linear	Rotary			
YT-1050	L Linear	S Single	N Non-Explosion	1 10 ~ 40mm	1 M6 × 34L	1 φ 1	2 G1/2 - NPT1/4	S -20°C ~ 60°C
	R Rotary	D Double	M ATEX, KCs	2 30 ~ 70mm	2 M6 × 63L	2 φ 2	3 None	H -20°C ~ 120°C
				3 60 ~ 100mm	3 M8 × 34L	3 None		L -40°C ~ 70°C
				4 100 ~ 150mm	4 M8 × 63L	4 M8 × 63L		
					5 NAMUR			

*1 With high-low temp positioner, must be non-explosion type.

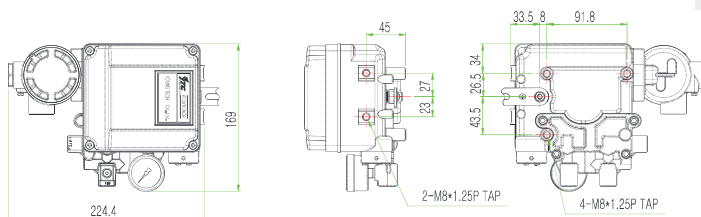


YT-1050R



YT-1050L

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	0 ~ 90°
Air Connection		NPT 1/4	
Gauge Connection		NPT 1/8	
Conduit		G 1/2 (PF 1/2)	
Explosion Protection Type		ATEX (II 2 G) Ex dmb IIB T5 KCs Ex dmb IIB T5	
Ingress Protection		IP66	
Operating 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		Stainless steel 316	
Weight		5.71kg (12.6lb)	



YT-1050, the Electro-Pneumatic Positioner is used for operation of pneumatic 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

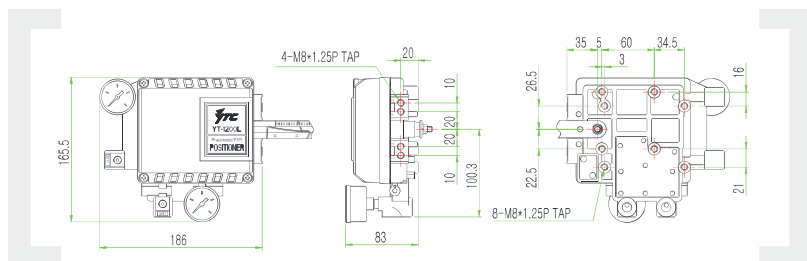
Pneumatic-Pneumatic Positioner YT-1200L

Model	Acting Type	Lever Type	Orifice Type	Connection Type	Operating Temp
YT-1200L	S Single	1 10 ~ 40mm	1 ϕ 1	1 PT	S -20℃ ~ 70℃
	D Double	2 30 ~ 70mm	2 ϕ 2	2 NPT	H -20℃ ~ 120℃
		3 60 ~ 100mm	3 None		L -40℃ ~ 70℃
		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	
Ingress Protection	IP66	
Operating Temp (Standard Type)	-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

Model	Acting Type	Lever Type	Orifice Type	Connection Type	Operating Temp	Option
YT-1200R	S Single	1 M6 × 34L	1 Φ 1	1 PT 1/4	S -20°C ~ 70°C	0 NONE
	D Double	2 M6 × 63L	2 Φ 2	2 NPT 1/4	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



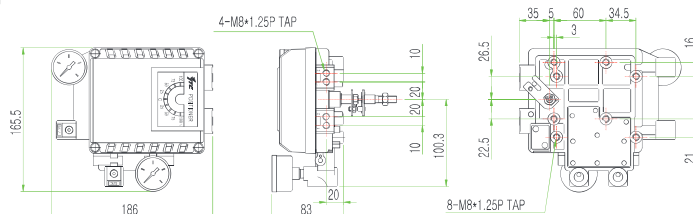
YT-1200R+SPTM-6VR



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	
Ingress Protection	IP66	
Operating Temp (Standard Type)	-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. 25, 27(Internal) and 26, 28(External).



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.

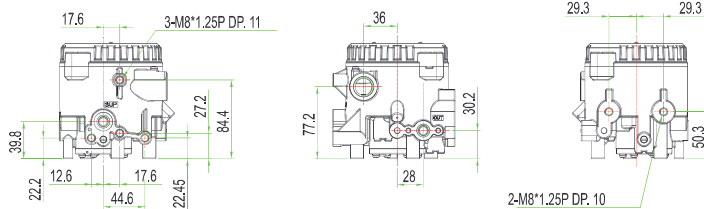
- Simple zero and span adjustment
- No resonance between 5-200Hz
- Auto/Manual switch
- RA v.s. DA action and 1/2 split range setting by simple adjustment

IP Converter YT-930

Model	Explosion Protection	Output Pressure	Conduit-Air Connection	Operating Temp	Option	Gauge
YT-930	N Non-Explosion	1 0.02 ~ 0.1MPa	1 G1/2 - PT1/4	S -30°C ~ 80°C	0 NONE	0 NONE
	I ATEX, IECEx	2 0.00 ~ 0.12MPa	2 G1/2 - NPT1/4		1 +Feedback Signal (4~20mA DC)	1 0~0.2MPa
		3 0.04 ~ 0.2MPa				2 0~0.4MPa
		4 0.00 ~ 0.23MPa				



YT-930



Item · Type		YT-930
Input Signal		4 ~ 20mA DC
Output Signal	Standard	0.02 ~ 0.1 MPa (0.2 ~ 1.0 bar)
	Multirange	0 ~ 0.12 MPa (0 ~ 1.2 bar)
		0.04 ~ 0.2 MPa (0.4 ~ 2.0 bar)
		0 ~ 0.23 MPa (0 ~ 2.3 bar)
Supply Pressure	Standard	0.12 ~ 0.16 MPa (1.2 ~ 1.6 bar)
	Minimum	0.2 bar graeter than the maximum calibrated output pressure
	Maximum	0.24 MPa (2.4 bar)
Air consumption		Below 2LPM (sup=0.14MPa)
Flow Capacity		70LPM (sup=0.14MPa)
Explosion Temp.		-40~60°C(T5) / -40~40°C(T6)
Operating Temp.		-30~85°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 Connection		(N)PT 1/4
Conduit		PF 1/2 (G 1/2)
Ingress Protection		IP66
Explosion Protection Type		ATEX, IECEx Ex ia IIC T5/T6 Gb, Ex ia IIIC T100°C/T85°C Db
Required Operating Voltage	Min. 6.0 V (at 4 mA)	
	Max. 7.2 V (at 20 mA)	
Material		Aluminum Diecasting
Weitght		1.6kg (3.53 lb)

YT-930 IP Converter accurately provides equipments with relevant air pressure, according to input signal of 4~20mA being delivered from the controller.

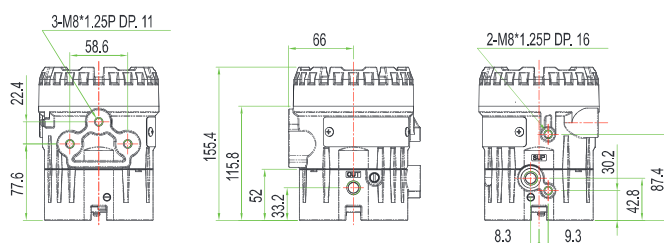
- High accuracy and sensitivity
- Simple zero and span adjustment
- Feedback Signal (Option)
- Analog PID Control
- Tubeless connection of YT-200, Air Regulator
- No effect from mounting orientation

IP Converter YT-940

Model	Explosion Protection	Output Pressure	Conduit-Air Connection	Operating Temp	Option	Gauge
YT-940	C KCs	1 0.02 ~ 0.1MPa	1 G1/2-PT1/4	S -30°C ~ 80°C	0 NONE	0 NONE
	A FM	2 0.00 ~ 0.12MPa	2 G1/2-NPT1/4	L -40°C ~ 85°C	1 +Feedback Signal (4~20mA DC)	1 0~0.2MPa
		3 0.04 ~ 0.2MPa				2 0~0.4MPa
		4 0.00 ~ 0.23MPa				



YT-940



Item · Type		YT-940
Input Signal		4 ~ 20mA DC
Output Signal	Standard	0.02 ~ 0.1 MPa (0.2 ~ 1.0 bar)
	Multirange	0 ~ 0.12 MPa (0 ~ 1.2 bar)
		0.04 ~ 0.2 MPa (0.4 ~ 2.0 bar)
		0 ~ 0.23 MPa (0 ~ 2.3 bar)
Supply Pressure	Standard	0.12 ~ 0.16 MPa (1.2 ~ 1.6 bar)
	Minimum	0.2 bar graeter than the maximum calibrated output pressure
	Maximum	0.24 MPa (2.4 bar)
Explosion Protection Type		FM Class I Division 1, Groups A, B, C, D; T6 Ta= -40°C to +75°C, T5 Ta= -40°C to +85°C, Type 4X, IP66 Class II,III Division 1, Groups E, F, G; T6 Ta= -40°C to +75°C, T5 Ta= -40°C to +85°C, Type 4X, IP66 Class I, Zone 1, AEx d IIC T6 Ta= -40°C to +75°C, T5 Ta= -40°C to +85°C, Type 4X, IP66 Zone 21 AEx tb IIC T85°C Ta= -40°C to +75°C, T100°C Ta= -40°C to +85°C, Type 4X, IP66 KCs Ex d IIC T5/T6
Air consumption		Below 2LPM (sup=0.14MPa)
Flow Capacity		70LPM (sup=0.14MPa)
Explosion Temp.		-40~85°C(T5) / -40~75°C(T6)
Operating Temp. (Standard)		-30~85°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 Connection		(N)PT 1/4
Conduit		PF 1/2 (G 1/2)
Ingress Protection		Type 4X, IP66
Required Operating Voltage		Min. 6.0 V (at 4 mA)
		Max. 7.2 V (at 20 mA)
Material		Aluminum Diecasting
Weight		3kg (6.61 lb)

YT-940 IP Converter accurately provides equipments with relevant air pressure, according to input signal of 4~20mA being delivered from the controller.

- High accuracy and sensitivity
- Simple zero and span adjustment
- Feedback Signal (Option)
- Analog PID Control
- Tubeless connection of YT-200, Air Regulator
- Explosion Proof Type
- No effect from mounting orientation

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

Model	Adjustable Range	Connection Type *1	Gauge	Operating 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 *2	1 Auto drain
YT-220			2 0~1.0MPa	3 -40~70°C *2	
YT-225					

*1 YT-205, YT-225 is available for NPT connection type ONLY

*2 Manual drain only

Manual drain



YT-200



YT-205



YT-220



YT-225

Auto drain



YT-200



YT-205

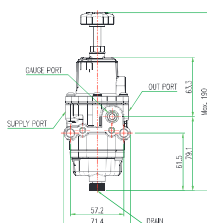
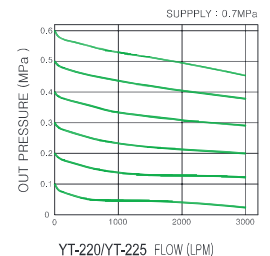
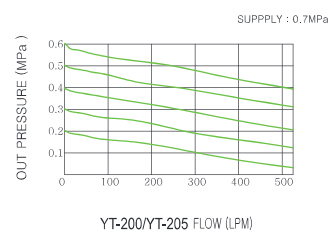


YT-220

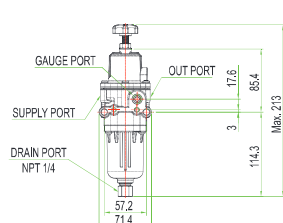


YT-225

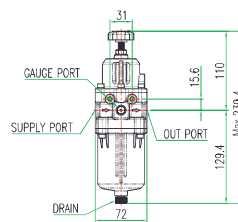
Item · Type	YT-200	YT-220	YT-205	YT-225
Max. Supply Pressure	1.7MPa (17 bar)			
Max. Output Pressure	0.42MPa (A Type) , 0.84MPa (B Type)			
Air Connection	PT (NPT) 1/4	PT (NPT) 1/2	NPT 1/4	NPT 1/2
Gauge Connection	PT (NPT) 1/4	PT (NPT) 1/4	NPT 1/4	NPT 1/4
Operating Temp	-20~70°C (-4~158°F) (Standard 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)



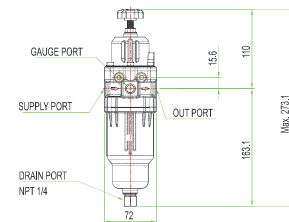
YT-200/YT-205(Manual drain)



YT-200/YT-205(Auto drain)



YT-220/YT-225(Manual drain)



YT-220/YT-225(Auto drain)

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

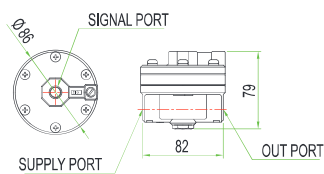
Volume Booster YT-300 / YT-305 / YT-310 / YT-315 / YT-320 / YT-325

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

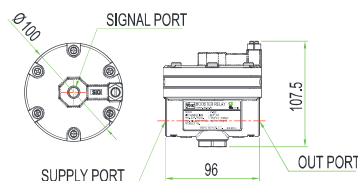
*1 YT-305, 310, 315, 325
is available for
NPT connection type ONLY.



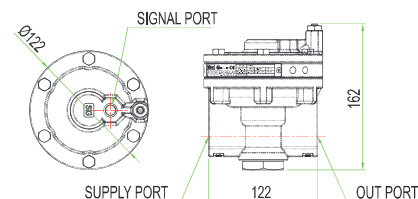
Item · Type			YT-300 YT-305	YT-320 YT-325	YT-310 YT-315	
Max. Supply Pressure			1MPa (10bar)			
Max.Signal/Output Pressure			0.7MPa (7bar)			
Signal/Output Pressure Ratio			1 : 1			
Flow Capacity (Cv)	exhaust	1.32	2.08	5.24		
	output	1.19	2.72	4.91		
Supply/Output Connection			PT(NPT)1/4	PT(NPT)1/2	NPT 3/4	
Signal Connection			PT (NPT) 1/4		NPT 1/4	
Linearity			± 1% F.S.			
Operating Temp			-20℃ ~ 70℃ (-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

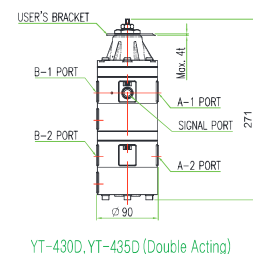
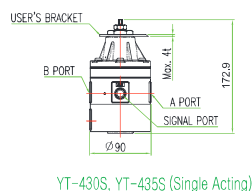
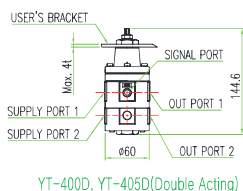
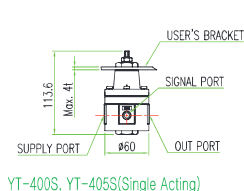
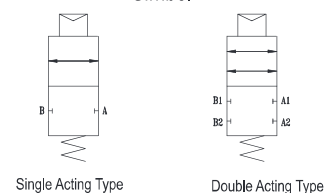
YT-400 / YT-405 / YT-430 / YT-435

Model	Acting Type	Connection Type *1	Operating 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	*1 YT-405, YT-430, YT-435 is available for NPT connection type ONLY.		



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)			
Operating 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)

Symbol



Lock-up valve YT-400, YT-405, YT-430, YT-435 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.

Snap Acting Relay YT-520 / YT-525 / YT-530 / YT-535

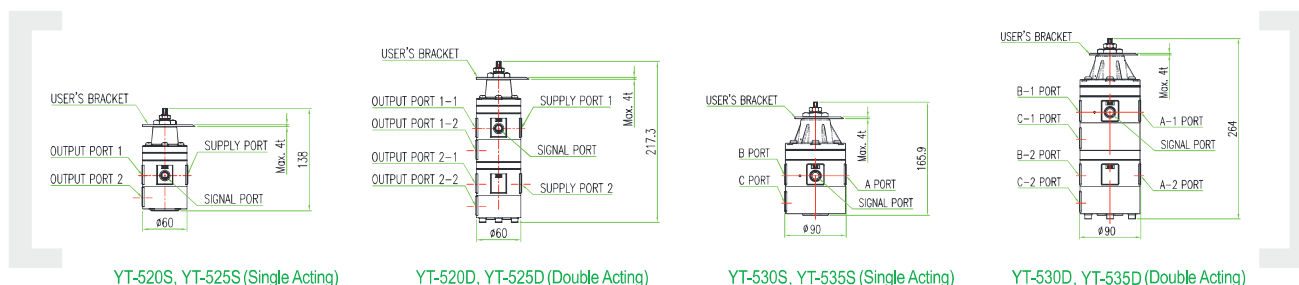
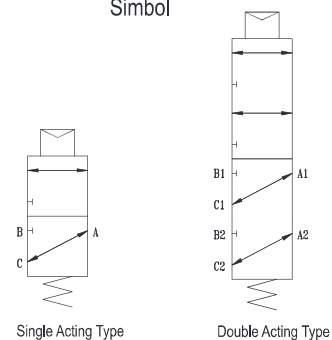
Model	Acting Type	Connection Type	Operating Temp
YT-520	S Single	2 NPT	1 -20~70°C
YT-525	D Double		2 -20~120°C
YT-530			3 -40~70°C
YT-535			



Item · Type	YT-520	YT-525	YT-530	YT-535
Signal Pressure	0.14~0.7MPa (1.4~7 bar)			
Max. Supply Pressure	1MPa (10bar)			
Operating Temp	-20~70°C (-4~158°F) (Standard type)			
Signal Connection	NPT1/4			
In / Output Connection	NPT1/4		NPT 3/8	
Flow Capacity (Cv)	0.9		1.8	
Material	Aluminum Diecasting	Stainless Steel 316	Aluminum Diecasting	Stainless Steel 316
Weight	Single	0.73kg (1.8lb)	1.66kg (3.7lb)	1.3kg (2.2lb)
	Double	1.2kg (2.7lb)	3.1kg (6.3lb)	2.3kg (5.1lb)



Symbol



YT-520, YT-525, YT-530, YT-535 change the direction of air flow rate from one output port to the another when it senses low air pressure.

- Switches pressure flows when abnormal pressure detected
- Able to lock actuator in its position
- Stem can be extended and connected

Solenoid Valve YT-720

Model	Valve Type	Connection Type	Power Source	Pressure
YT-720	S 3way	P PT	1 AC 110V	1 0~0.4MPa (3way)
	D 4way	N NPT	2 AC 220V	2 0~0.7MPa (3way)
			3 DC 24V	3 0.1~1MPa (4way)

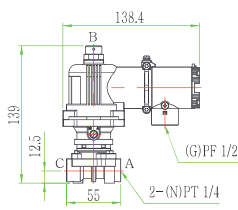


YT-720S(3WAY)

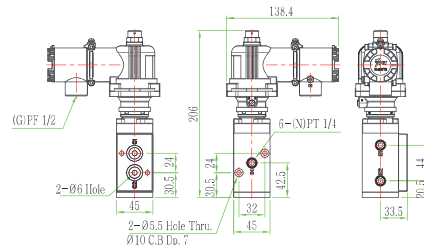


YT-720D(4WAY)

Item · Type		YT-720	
		3 way	4 way
Max. Supply Pressure		0~0.4MPa 0~0.7MPa	0.1~1MPa
Flow Capacity (Cv)	Output	0.2(φ3)at 0.4MPa 0.084(φ1.6)at 0.7MPa	0.75
	Exhaust	0.093	N/A
Rating Current	AC 220V	60mA (11w)	
	AC 110V	130mA (12w)	
	DC 24V	580mA (14w)	
Frequency		50~60Hz	
Explosion Protection Type		Ex d IIC T6	
Connection Type		PT (NPT) 1/4	
Conduit		PF 1/2 (G1/2)	
Coil Insulation Grade		Class F	
Operating Temp	Operating	-20~70 °C (-4~158 °F)	
	Explosion	-20~50 °C (-4~122 °F)	
Weight		0.8kg (1.8lb)	1.2kg(2.6lb)

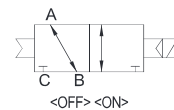


YT-720S(3WAY)



YT-720D(4WAY)

Symbol



YT-720S(3WAY)



YT-720D(4WAY)

Solenoid valve YT-720 opens and shuts by electrical signal of AC or DC, It is built as explosion-proof structure.

- O-ring shapes: less lubrication required
- Balance spool type: no require of backing spring
- Interchangeable of AC and DC coils
- Manual override switch
- Coil assembly can be rotated

Position Transmitter SPTM-5V

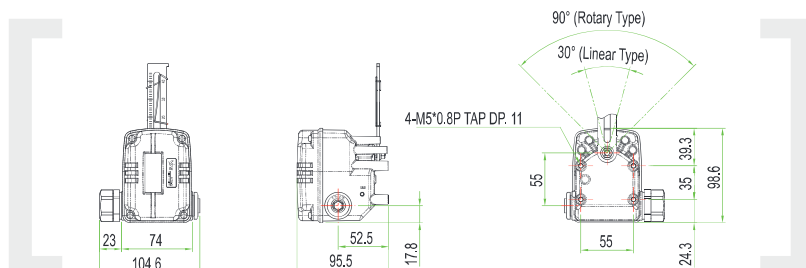
Model	Motion Type	Explosion Protection	Lever Type		Option
			Linear	Rotary	
SPTM-5V	L Linear	I Ex ia IIC T5	1 10~40mm	1 Standard	0 None
	R Rotary		2 20~70mm	2 NAMUR	1 With LCD
			3 50~100mm		
			4 100~150mm		



SPTM-5V



Item · Type		SPTM-5VL	SPTM-5VR
Input Type		2 Wire	
Input Signal		0~30°	0~90°
Output Signal		4~20mA DC	
Load Resistance		$R_L \leq \frac{V_s[V] - 9[V]}{I[mA]}$	
Supply Voltage		9~28V DC	
Noise Range		50mV p.p	
Conduit		PF 1/2 (G 1/2)	
Operating Temp	Operating	-40~85°C(-40~185°F)	
	Explosion	-40~60°C(-40~140°F)	
	LCD Operating	-30°C ~ 85°C (-22~185°F)	
Linearity		±1% F.S.	
Hysteresis		±0.2% F.S.	
Sensitivity		±0.2% F.S.	
Explosion Protection Type		Ex ia IIC T5	
Ingress Protection		IP 67	
Material		Aluminum Diecasting	
Weight		0.6kg (1.3lb)	



Electronic Position Transmitter SPTM-5V senses mechanical position change of stem being on the valve or similar device and converts to current signal of DC4~20mA outputs.

- Convenient wiring: 2 wire type
- High accuracy and reliability
- Simple change for RA v.s. DA action setting

Position Transmitter SPTM-6V / SPTM-65V

Model	Motion Type	Explosion Protection	Lever Type	
			Linear	Rotary
SPTM-6V	L Linear	C Ex d IIC T6	1 10~40mm	1 Standard
SPTM-65V	R Rotary		2 20~70mm	2 NAMUR
			3 50~100mm	
			4 100~150mm	

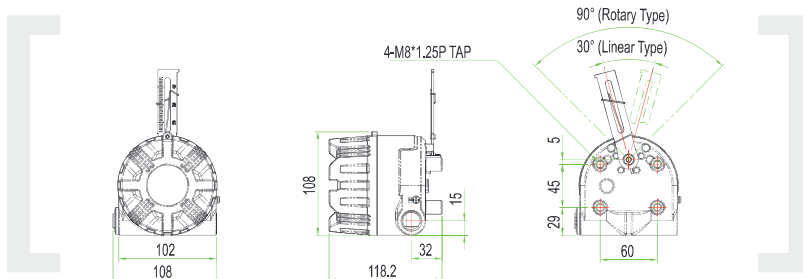


SPTM-6V



SPTM-65V

Item · Type		SPTM-6V	SPTM-65V
ConnectionType		2 Wire	
Input Signal	Linear	0~30°	
	Rotary	0~90°	
Output Signal		4~20mA DC	
Load Resistance		$R_L \leq \frac{V_s[V] - 9[V]}{I [mA]}$	
Supply Voltage		9~28V DC	
Noise Range		50mV p.p	
Conduit		PF 1/2 (G 1/2)	
Operating Temp	Operating	-40~85°C(-40~185°F)	
	Explosion	-40~60°C(-40~140°F)	
	LCD Operating	-30~85°C(-22~185°F)	
Linearity		±1% F.S.	
Hysteresis		±0.2% F.S.	
Sensitivity		±0.2% F.S.	
Explosion Protection Type		Ex d IIC T6	
Ingress Protection		IP67	
Material		Aluminum Diecasting	Stainless Steel 316
Weight		1.3kg(2.9lb)	2.8kg(6.17)



Flame type of Electronic Position Transmitter SPTM-6V / SPTM-65V senses mechanical position change of stem being on the valve or similar device and converts to current signal of DC4~20mA outputs.

- Convenient wiring: 2 wire type
- High accuracy and reliability
- Simple change for RA v.s. DA action setting

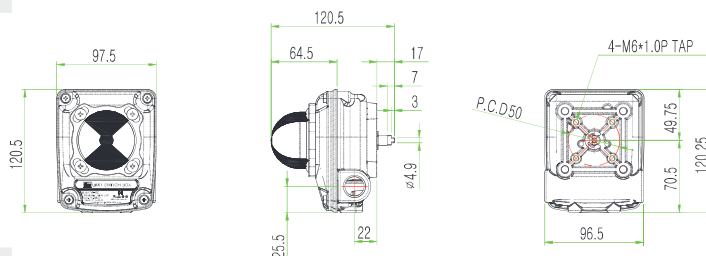
Limit Switch Box YT-850

Model	Switching Type	Conduit	Bracket Type	Operating Temp
YT-850	M Mechanical Type (2 x SPDT)	1 NPT1/2	0 NONE	1 -20°C ~ 80°C
	P Proximity Type	3 PF1/2	1 ST-1 (30*80,H20)	2 -20°C ~ 120°C
		4 M20	2 ST-2 (30*80,H30)	
			3 ST-3 (30*130,H30)	
			4 ST-4 (30*130,H50)	



YT-850

Item · Type		YT-850M		YT-850P	
Switch Type		Mechanical Switch(2xSPDT)		Inductive Proximity Sensor	
		SS5GL (Omron)	SS10GL (Omron)	PS17-5DNU (Autonics)	NJ2-V3-N (P&F)
Switch Rating	AC	250V 3A 125V 5A	250V 10.1A 125V 10.1A	-	-
	DC	250V 0.2A, 125V 0.4A, 30V 4A, 14V 5A, 8V 5A		12~24VDC	8VDC
Ingress Protection		IP67			
Operating Temp		-20°C~80°C (Standard)			
Conduit Entry		NPT1/2(PF1/2,M20)			
Terminal		8 Points			
Mounting Bracket		NAMUR VDI / VDE 3845, ISO 5211			
Material		Aluminum Diecasting			
Weight		880g (1 94b)			



- Visual position indicator
- 8 contacts of terminal ports
- Compatibility with any rotary motion actuator <ISO5211>
- Easy adjustment of cam position
- Dual conduit entries

Limit Switch Box YT-870 / YT-875

Model	Switching Type	Conduit *1	Bracket Type	Option
YT-870	M Mechanical Type (2 x SPDT)	1 NPT3/4	0 NONE	0 NONE
YT-875	P Proximity Type	2 PF3/4	1 ST-1 (30*80,H20)	1 +SPTM
	D Mechanical Type (2 x DPDT)	3 M20	2 ST-2 (30*80,H30)	
		4 NPT1/2	3 ST-3 (30*130,H30)	
			4 ST-4 (30*130,H50)	

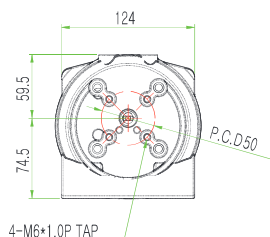
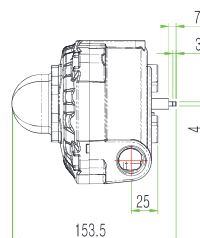
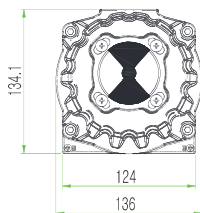
*1 YT-875 NPT3/4 ONLY



YT-870



YT-875



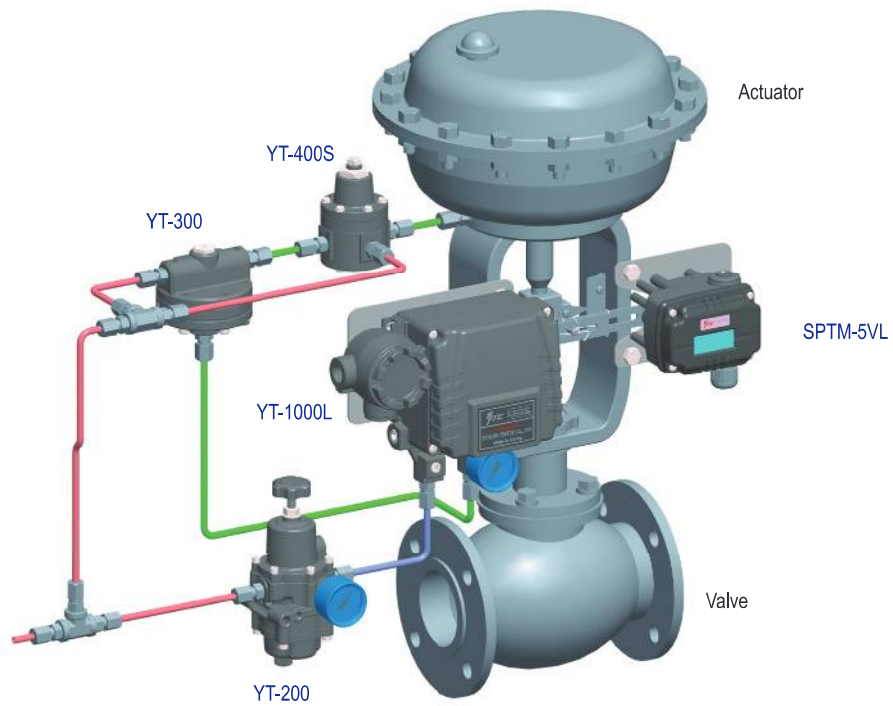
Item · Type		YT-870M YT-875M	YT-870P YT-875P	YT-870D YT-875D
Switch Type		Mechanical Type (2xSPDT)	Inductive Proximity Sensor	Mechanical Type (2xDPDT)
		SS5GL (Omron)	PS17-5DNU (Autonics)	DZ-10G-1B (Omron)
Switch Rating	AC	250V 3A 125V 3A	-	125 or 250VAC 10A 480VAC 2A
	DC	250V 0.2A, 125V 0.4A, 30V 4A, 14V 5A, 8V 5A	12~24VDC	125VDC 0.5A 250VDC 0.25A
Ingress Protection		IP67		
Explosion Protection Type		ATEX, IECEx Ex db IIC T6, Ex tb IIIC T85°C CSA Ex db IIC T6 Class I, Zone 1, AEx db IIC T6 Class II, Division 1, Groups E, F and G, Ex tb IIIC T85°C Zone 21, AEx tb IIIC T85°C KCs Ex d IIC T6		
Operating Temp		-20 °C~60 °C		
Conduit Entry		NPT3/4 (PF3/4, M20, NPT1/2)		
Terminal		8 Points		
Mounting Bracket		NAMUR VDI / VDE 3845, ISO 5211		
Material	YT-870	Aluminum Diecasting		
	YT-875	Stainless Steel 316		
Weight	YT-870	1.5kg (3.3lb)		
	YT-875	3.5kg (7.7lb)		

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

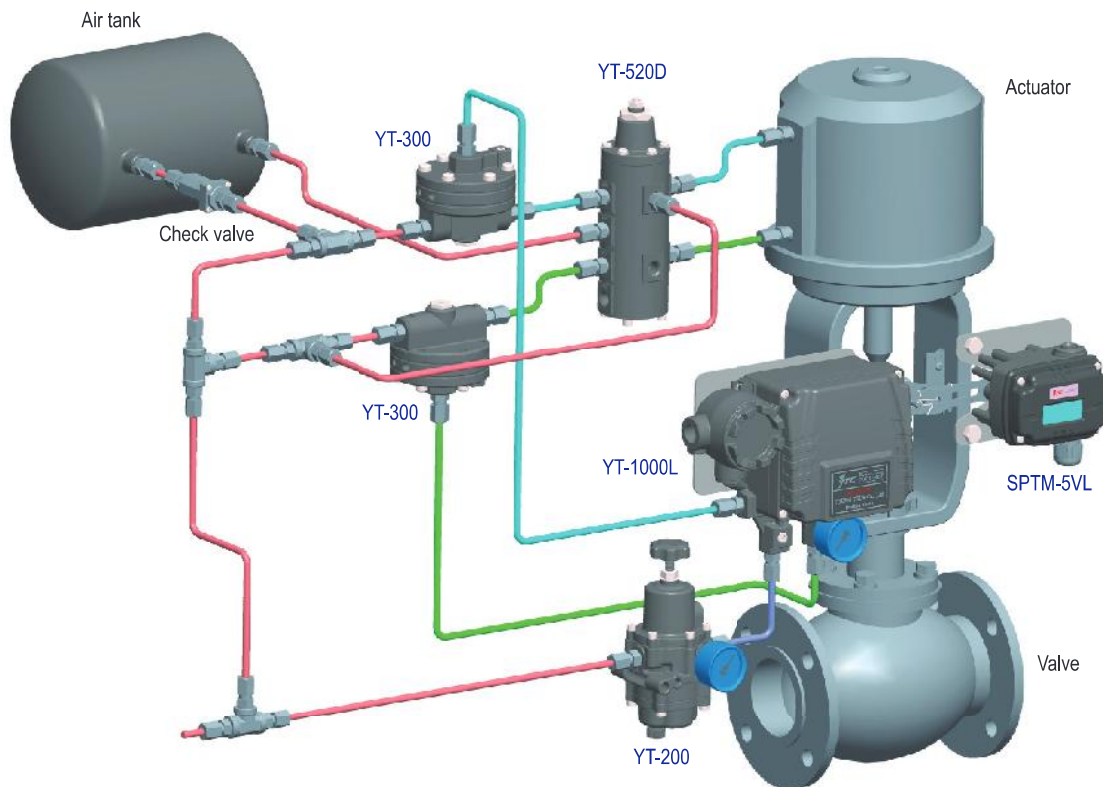
- Visual position indicator
- 8 contacts of terminal ports.
- Compatibility with any rotary motion actuator <ISO5211>

- Easy adjustment of cam position
- Dual conduit entries.

Examples for installation (Linear Type)

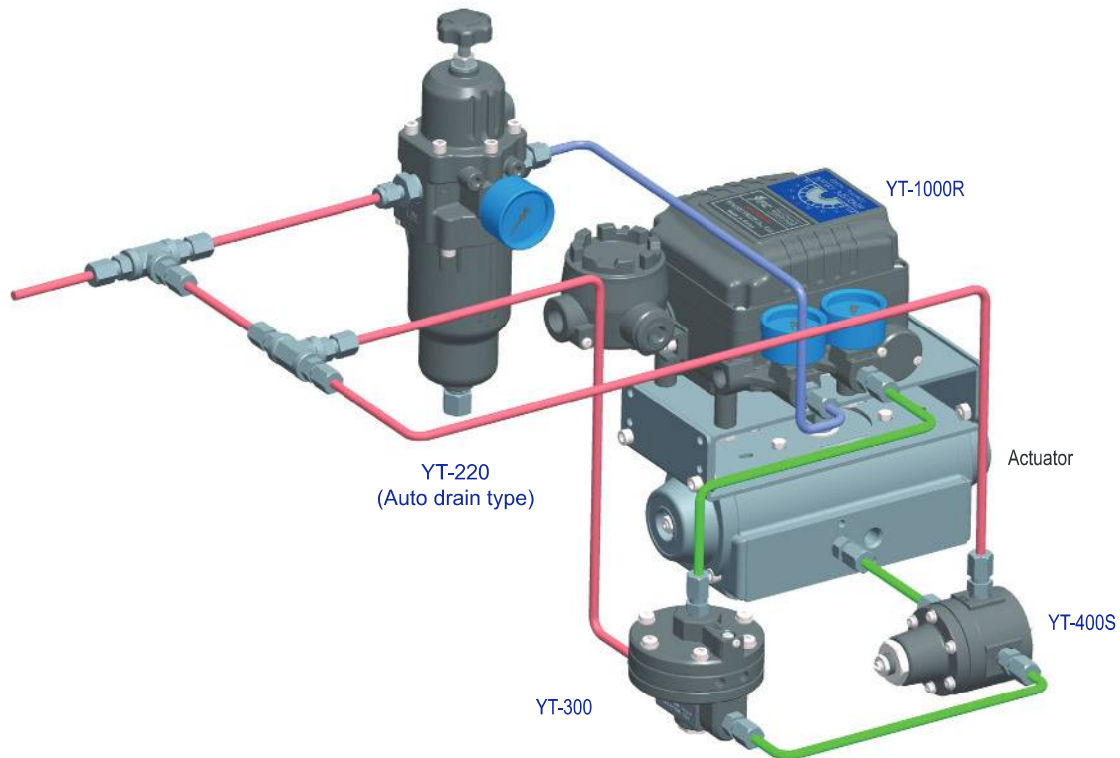


YT-1000L(Single type) Application Example

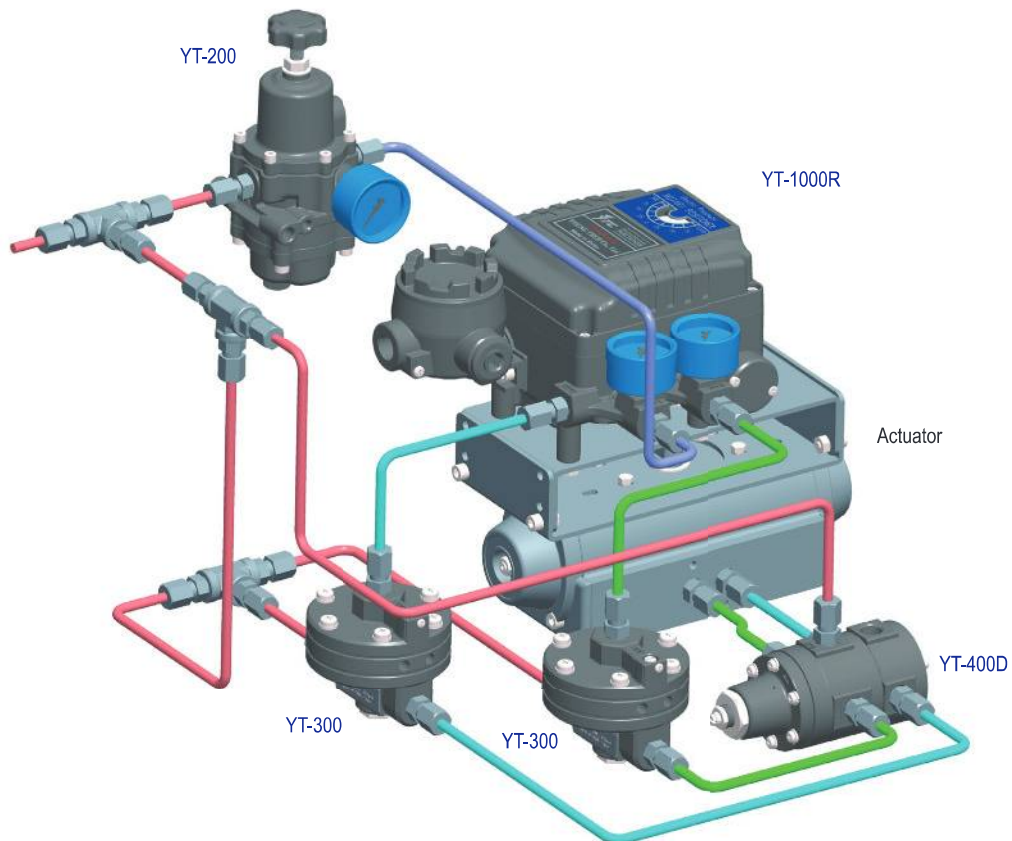


YT-1000L(Double type) Application Example

Examples for installation (Rotary Type)



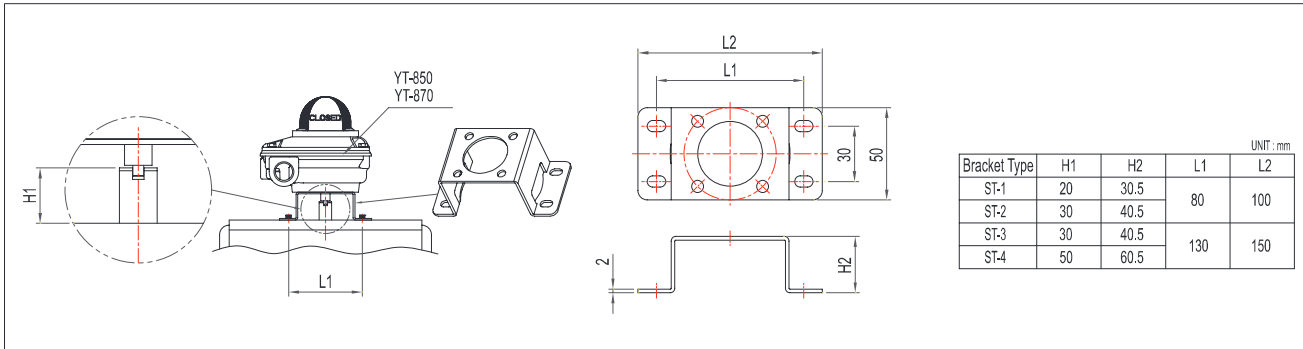
YT-1000R (Single type) Application Example



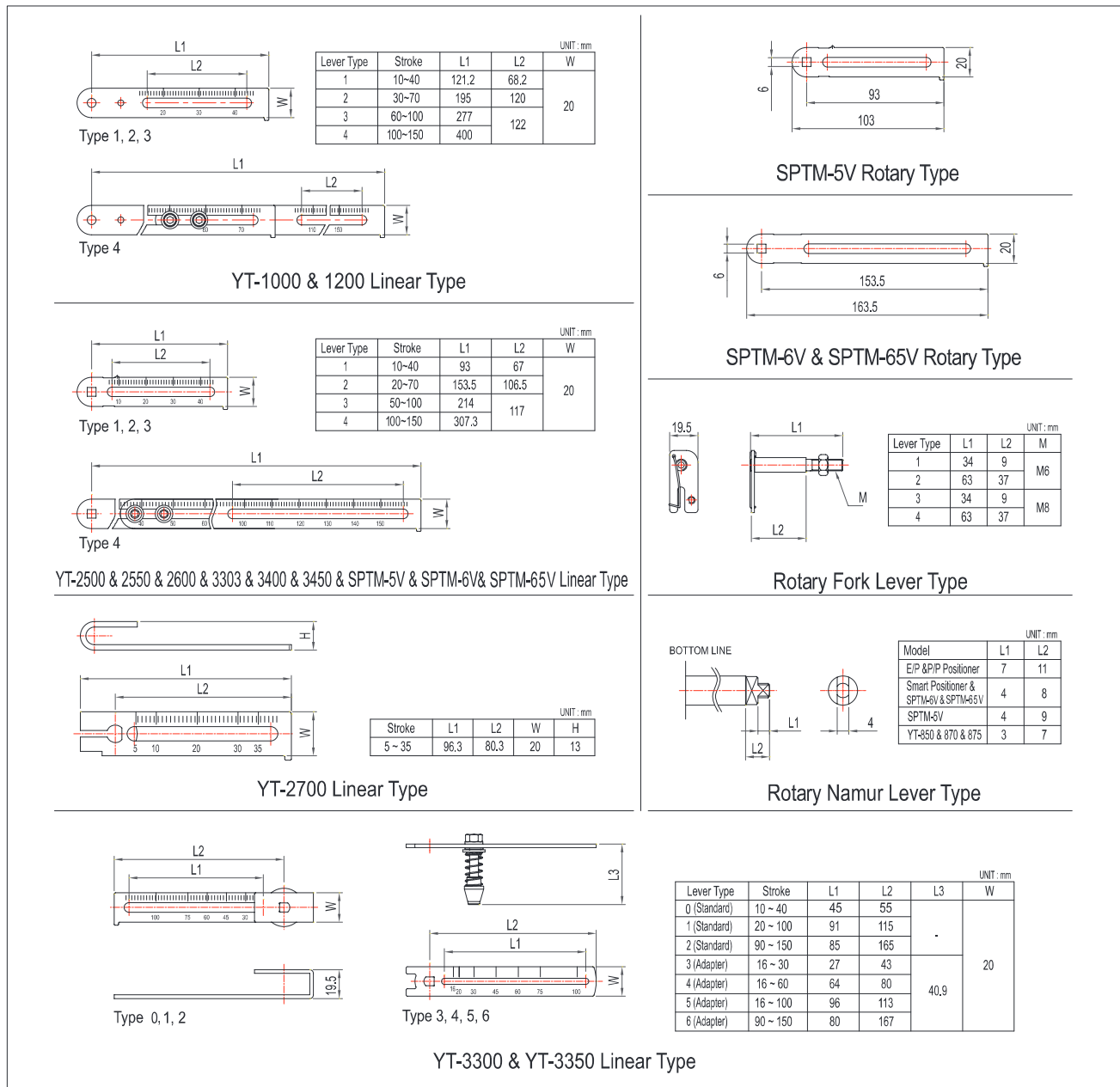
YT-1000R (Double type) Application Example

Bracket & Lever

YT-850 & 870 & 875 Bracket Series



Lever Series





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