

Schedule - 1

Material Code: **SP4001603188**

Description: **PILOT VALVE FOR YTC-1000 POSITIONER**

Equipment: E/P Positioner

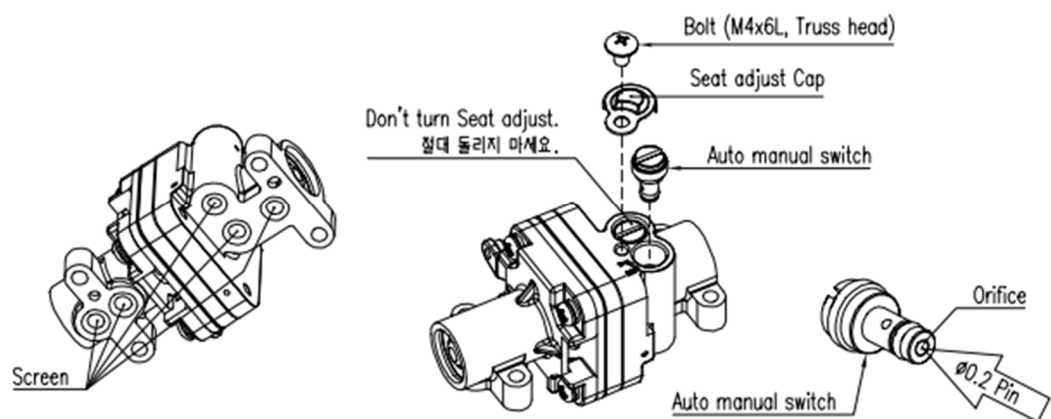
Make: YTC(Young Tech Co., Ltd.)

Model Number: YT-1000 LSh132S0

Input Signal: 4 – 20 mA DC

Ambient Temperature: -20 to 70°C

Supply Pressure: 0.14 to 0.7 MPa (1.4 to 7 bar)



The above picture is only representational. The pilot valve shall be supplied corresponding to the model number of the positioner.

Electro-pneumatic positioners YT-1000 / YT-1050

Item type		YT-1000	YT-1050
Input signal		4-20 mA DC	
Impedance		250 ± 15 Ω	
Supply pressure		0.14 to 0.7 MPa = 1.4 to 7 bar = 20 to 102 psi	
Stroke	Linear type	10 to 150 mm (0.4 to 6")	
	Rotary type	55 to 100°	
Air connection		Rc ¼, ¼ NPT, G ¼	¼ NPT
Gauge connection		⅛ NPT	
Conduit		G(NPT) ½, M20	G ½, ½ NPT
Explosion protection type		ATEX / IECEx (II 2 G) Ex dmb IIB T5, Ex ia IIC T6 (YT-1000 only)	
		INMETRO (II 2 G) Ex dmb IIB T5	
		UKEX II 2G Ex db mb IIB T5 Gb, NEMA 4X	
		KCs Ex dmb IIB T5/T4 / Ex dmb IIC T5 / Ex ia IIB T6 Gb	KCs Ex dmb IIB T5
		CSA (Class I, Zone 1) Ex dm IIB T5	
		FM CL I, Div 1, Groups C, D T5; CL II, III, Div 1, Groups E, F, G T5; Type 4X	
		CCC, NEPSI Ex db mb IIB T5 Gb Ex db mb IIC T6 Gb Ex ia IIC T6 Gb	CCC Ex d mb IIB T5 Gb
		TIIS Ex dmb IIB T5	
		NEPSI Ex d mb IIB T5 Gb Ex d mb IIC T6 Gb Ex ia IIC T6 Ga	NEPSI Ex d mb IIB T5 Gb
		PESO Ex db mb IIB T5 Gb Ex ia IIC T6 Gb	PESO Ex db mb IIB T5 Gb
Ingress protection		YT-1000: IP66, TYPE 4X (FM) YT-1050: IP66 (excluding the pressure gauges)	
Linearity	Single	± 1% F.S.	
	Double	± 2% F.S.	
Hysteresis		± 1% F.S.	
Sensitivity	Single	± 0.2% F.S.	
	Double	± 0.5% F.S.	
Repeatability		± 0.5% F.S.	
Air consumption		2.5 LPM (sup = 0.14 MPa) 0.8 CFM (sup = 20 psi)	
Flow capacity		80 LPM (sup = 0.14 MPa) 2.83 CFM (sup = 20 psi)	
Material		Aluminium diecasting	Stainless steel 316
Weight		YT-1000L: 2.7 kg (6.1 lb) YT-1000R: 2.8 kg (6.2 lb) YT-1050: 5.71 kg (12.6 lb)	

Product code

YT-1000 - R - S - N - 1 - 1 - 4 - S - 0 - (0)

Model

YT-1000 = Aluminium

YT-1050 = STS316

Motion type

L = Linear R = Rotary

Acting type

S = Single D = Double

Explosion protection¹

N = Non-explosionproof

M² = Ex db mb IIB T5 Gb: ATEX, IECEx,
KCs, NEPSI (YT-1000 only), UKEX, PESO

A = Ex d m IIB T5: CSA (YT-1000 only)

C = Ex d mb IIC T5: KCs (YT-1000 only)

X = Ex dmb IIB T5: TIIS (YT-1000 only)

i = Ex ia IIC T6 Gb (YT-1000 only): ATEX/IECEx,
KCs, UKEX, PESO

T = Ex db mb IIB T5 Gb: INMETRO

Z = Ex db mb IIB T5 Gb: CCC, NEPSI

B = Ex db mb IIC T6 Gb: CCC, NEPSI (YT-1000 only)

G = Ex ia IIC T6 Gb: CCC, NEPSI (YT-1000 only)

F = FM (YT-1000 only)

Lever type

Linear	Rotary
1 = 10 to 40 mm	1 = M6 X 34L
2 = 30 to 70 mm	2 = M6 X 63L
3 = 60 to 100 mm	3 = M8 X 34L
4 = 100 to 150 mm	4 = M8 X 63L
	5 = NAMUR

Orifice type

1 = Ø1 2 = Ø2 3 = None

Conduit & air connection

YT-1000	YT-1050
1 = G ½ - Rc ¼	2 = G ½ - ¼ NPT
2 = G ½ - ¼ NPT	(N/A for CCC)
3 = G ½ - G ¼	5 = ½ NPT - ¼ NPT
4 = M20 - ¼ NPT	(CCC only)
5 = ½ NPT - ¼ NPT	

Operating temp. (non-explosionproof)³

S = -20 to +70 °C (-4 to +158 °F)

H = -20 to +120 °C (-4 to +248 °F)

L = -40 to +70 °C (-40 to +158 °F)

Option 1

YT-1000L	YT-1000R
0 = None	0 = None (std)
2 ⁴ = 4-20 mA Analogue Output (internal)	1 = Dome cover
3 ⁴ = 4-20 mA Analogue Output with LCD (internal)	

Option 2 (YT-1000R only)

- 0 = None
- 1 = 4-20 mA Analogue Output (internal - only for non-explosion area protection)
- 2 = 4-20 mA Analogue Output (external, SPTM-6V, explosionproof)
- 3 = Limit switch (2ea, internal - only for non-explosion area protection)
- 4 = Limit switch (2ea, external, YT-850 (non-explosion) or YT-870 (explosionproof))
- 5 = 4-20 mA Analogue Output + limit switch (2ea) (internal - only for non-explosion area protection)
- 6 = SPTM + limit switch (2ea, external, YT-870, explosionproof)

Notes:

1. Only S of operating temperature is available for M (except KCs), T, F, X, Z, B, G, i
- Only S, H of operating temperature are available for M (only KCs)
- Only S, L of operating temperature are available for A and C
2. Please put the name of the certificate in a purchase order.
3. This option is just the normal operating temperature of the product and is not related to explosion protection temperature. See certificates for explosion protection temperature.
4. Non-explosionproof.