

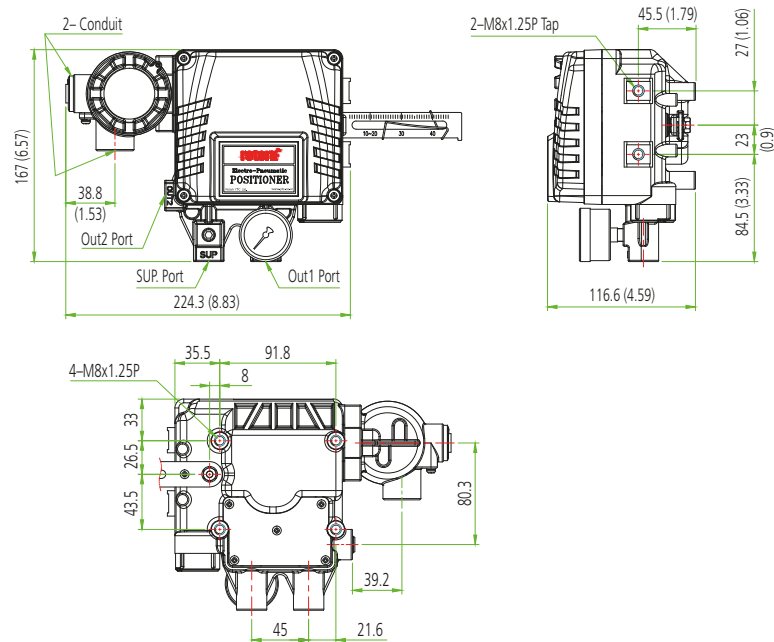
Electro-Pneumatic Positioners YT-1000 / YT-1050

Design features

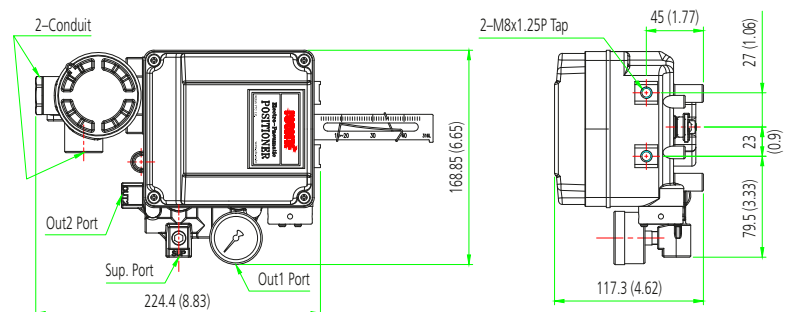
- **Simple zero and span adjustment.** Internal hand dials and locking screws for 4-20 mA range adjustments.
- **Reverse and direct acting settings.** Full and ½ split range setting by simple adjustment.
- **High vibration resistant.** No resonance between 5 to 200 Hz.
- **Internal feedback option.** Available on weatherproof model only.
- **Auto / manual switch.** Internal adjustment with lock screw safety.



YT-1000 Aluminium Enclosure



YT-1050 STS316 Enclosure



Dimensions: mm (Inches ")

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, ½ NPT, G ¼	¼ NPT
Gauge Connection	Rc ⅛, ½ NPT	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)	
	EAC 1Ex dmb IIB T5	
	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
	T5 Ex db mb IIB T5 Gb X	
	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 Ex d mb IIB T5 Gb Ex d 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	
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,
TS (YT-1000 only), 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)
E = 1Ex d mb IIB T5 Gb: EAC
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 (YT-1050 only)
B = Ex db mb IIC T6 Gb: CCC (YT-1000 only)
G = Ex ia IIC T6 Gb: CCC (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 = Φ1 2 = Φ2 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 - G¼	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 (St'd)
2 ⁴ = 4-20 mA feedback (Internal)	1 = Dome Cover
3 ⁴ = 4-20 mA feedback with LCD (Internal)	

Option 2 (YT-1000R only)

0 = None
1 = 4-20 mA feedback (Internal - only for non-explosion area protection)
2 = 4-20 mA feedback (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 feedback + Limit Switch (2ea)
(Internal - only for non-explosion area protection)
6 = SPTM + Limit Switch (2ea, External, YT-870, Explosionproof)

Notes:

- 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
Only L of Operating Temperature is available for E.
- Please put the name of the certificate in a purchase order.
- 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.
- Non-explosionproof.