



# Certificate of Compliance

**Certificate:** 2541710

**Master Contract:** 227951

**Project:** 80176115

**Date Issued:** 2023-07-18

**Issued To:** Rotork YTC Limited  
81, Hwanggeum-ro 89beon-gil,  
Yangchon-eup,  
Gimpo-si, Gyeonggi-do, 10048  
South Korea

**Attention:** Stan Przbylowicz

*The products listed below are eligible to bear the CSA Mark shown*



**Issued by:** *Alison Cheng*  
Alison Cheng

## **PRODUCTS**

CLASS 2258 02 – PROCESS CONTROL EQUIPMENT For Hazardous Locations

**Ex db IIC Gb T5 or T6**

**Class I, Division 1, Groups C and D;**

**Class II, Division 1, Groups E, F and G;**

**Ex tb IIIC Db T85°C/T100°C**

Smart Positioner YT-3400/YT-3450 series used for operation of pneumatic valve actuators by means of electrical controller or control systems with analogue output signal of 4 to 20 mA, (feedback options 9 to 28 Vdc 4-20mA). Ambient temperature rated -30 or -40°C to +70°C (T6) or -30 or -40°C to +80°C (T5), enclosure rating is Type 4, 4X, IP66.



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## NOMENCLATURE

YT-3400 / 3450 [a] [b] [c] [d] [e] [f] [g] [h]

**a. Motion Type**

L = Linear  
R = Rotary

**b. Acting Type**

S = Single Acting  
D = Double Acting

**c. Explosion Proof**

A = CSA  
AG = CSA + Tapped Exhaust

**d. Lever Type (Linear)**

1 = 10 – 40 mm  
2 = 20 – 70 mm  
3 = 50 – 100 mm  
4 = 100 – 150 mm

**Lever Type (Rotary)**

1 = M6 x 34L  
2 = M6 x 63L  
3 = M8 x 34L  
4 = M8 x 63L  
5 = NAMUR  
6 = NAMUR Standard (only YT-3400)

**e. Conduit Air Connection Type**

1 = G 1/2 – Rc 1/4 (N/A for YT-3450)  
2 = G 1/2 – 1/4 NPT  
3 = G 1/2 – G 1/4 (N/A for YT-3450)  
4 = M20x1.5P – 1/4 NPT (N/A for YT-3450)  
5 = 1/2 NPT – 1/4 NPT

**f. Communication**

0 = None  
2 = HART Communication  
5 = HART with Enhanced Diagnostic Capabilities & DI / DO)

**g. Options**

0 = None  
1 = 4-20mA feedback  
2 = Limit Switch  
3 = 4-20mA feedback and Limit Switch

**h. Operating Temp**

S = -30 °C ... 85 °C (-22 °F ... 185 °F) (NBR Gaskets)  
L = -40 °C ... 85 °C (-40 °F ... 185 °F) (Silicone Gaskets)



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### **Conditions of use:**

1. This equipment may only be powered by a power supply unit with a limited energy electric circuit in accordance with CAN/CSA C22.2 No. 61010-1-12 and ANSI/UL 61010-1, or Class 2 as defined in the Canadian Electrical Code C22.1, Section 16-200 and/or National Electrical Code (NFPA 70), article 725.121.
2. The ambient temperature range is from -30°C to +70° C for temperature class T6 (T85°C), or -30°C to +80°C for temperature class T5 (T100°C). With silicone gasket material the minimum ambient temperature can be extended to -40°C.
3. The powder coated external surfaces of this equipment may become a spark ignition hazard in the presence of static electricity. The enclosure shall be cleaned only with a damp cloth, and the equipment shall be mounted to avoid building static electric charge from nonconductive process flow, strong air currents, or other potential charging through friction.
4. YT-3400/YT-3450 series can use natural gas and methane (industrial) as the process medium.
5. This equipment shall not be used in hazardous locations where CARBON DISULFIDE might be present.

### **APPLICABLE REQUIREMENTS**

CAN/CSA C22.2 No. 94.2:20 <i>Third Edition</i>	Enclosures for Electrical Equipment, Environmental Considerations
CAN/CSA C22.2 No. 61010-1-12 <i>(May 2012)</i>	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use — Part 1: General Requirements
CSA C22.2 No. 30:20 <i>(R07/20)</i>	Explosion-proof equipment
CAN/CSA C22.2 No. 60079-0:19	Explosive atmospheres – Part 0: Equipment – General requirements
CAN/CSA C22.2 No. 60079-1:16 <i>(R2021)</i>	Explosive atmospheres — Part 1: Equipment protection by flameproof enclosures “d”
CAN/CSA-C22.2 No. 60079-31:12	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure “t”

### **MARKINGS**

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.



**Certificate:** 2541710  
**Project:** 80176115

**Master Contract:** 227951  
**Date Issued:** 2023-07-18

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark, without any adjacent indicators, indicating that products have been manufactured to the requirements of Canadian Standards.

The following markings are provided on a stainless steel or anodized aluminum nameplate secured with non-removable fasteners in blind bottomed holes directly on the housing.

Where space is limited, the markings may be reduced. The minimum marking on the equipment shall include the following:


- a) the name or registered trademark of the manufacturer, as specified below
- b) the manufacturer's type identification, as specified below
- c) the name or mark of the issuer of the certificate, and the number of the certificate, as specified below, and
- d) as much of the remaining marking information, as specified below, which can be accommodated.

The remainder of the marking required shall be included in the unit packaging. It is also expected that these markings and warnings will appear in the installation instructions manual and documentation.

- Manufacturer's name: "Rotork YTC Limited", or CSA Master Contract Number "227951", adjacent to the CSA Mark in lieu of manufacturer's name.
- Manufacturing location or distinctive mark, when the product is produced at more than one location
- Model designation: As specified in the PRODUCTS section, above.
- Electrical ratings: As specified in the PRODUCTS section, above.
- Ambient temperature rating: As specified in the PRODUCTS section, above.
- Manufacturing date in MMY format, or serial number, traceable to year and month of manufacture.
- Enclosure ratings: As specified in the PRODUCTS section, above.
- The CSA Mark, as shown on the Certificate of Conformity.
- The designation "CSA 12CA2541710X".
- Hazardous Location designation: As specified in the PRODUCTS section, above. The word "Class" may be abbreviated "CL", the word "Division" may be abbreviated "DIV", and the word "Groups" may be abbreviated "GRP" or "GP".
- Method of Protection markings (Ex -- markings): "Ex db IIC Gb" and/or "Ex tb IIIC Db".
- Temperature code: As specified in the PRODUCTS section, above.
- The manufacturing location is identified if the equipment can be produced in more than one facility.
- The following words, or equivalent:
  - o "DO NOT OPEN WHEN EXPLOSIVE ATMOSPHERE IS PRESENT" and "ATTENTION" and "NE PAS OUVRIR EN PRÉSENCE D'UNE ATMOSPHÈRE EXPLOSIVE"
  - o "DO NOT OPEN ENERGIZED" and "NE PAS OUVRIR SOUS TENSION"
  - o "SEAL ENTRIES WITHIN '450 mm' OF ENCLOSURE" and "ATTENTION" and "SCELLER LES ENTRÉES À MOINS DE '450 mm' DE L'ENCEINTE"
  - o WARNING — POTENTIAL STATIC HAZARD. CLEAN ONLY WITH A WATER WETTED CLOTH" and "ATTENTION: RISQUE D'ÉLECTRICITÉ STATIQUE POTENTIEL. NETTOYER SEULEMENT AVEC UN LINGE IMBIBÉ D'EAU"

**Certificate:** 2541710  
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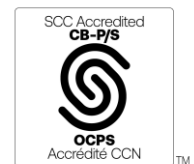
**Master Contract:** 227951  
**Date Issued:** 2023-07-18

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- o “WARNING — THIS EQUIPMENT SHALL NOT BE OPERATED IN HAZARDOUS LOCATIONS WHERE CARBON DISULFIDE MIGHT BE PRESENT” and “ATTENTION : CET APPAREIL NE DOIT PAS ÊTRE UTILISÉ DANS DES ENDROITS DANGEREUX OÙ LA PRÉSENCE DE ‘DISULFURE DE CARBONE’ EST POSSIBLE
  - Thread size and type shall be permanently marked adjacent to the threaded entries.
  - Terminal designations shall be permanently marked adjacent to each field wiring terminal.
  - The designation “GND” and ISO 60417, Symbol 5019  shall be permanently marked adjacent to the equipment ground (Protective Earth) terminal.

Notes:

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Products certified under Class C225802 have been certified under CSA’s ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). [www.scc.ca](http://www.scc.ca)





## Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.*

### Product Certification History

Project	Date	Description
80176115	2023-07-18	CofC marking correction for Report 2541710.
80101835	2022-05-25	Evaluation for update of CSA report 2541710 (last update: 80067341). 1. Redesign shafts to accommodate non-contact sensors. 2. Redesign of electronics to include one additional digital output port to the YT-3400 series. 3. Remove CSA Standard C22.2 No. 139 as it is not applicable to this product.
80067341	2022-03-10	Update to report 2541710 to add new optional threaded Check Valve Exhaust Adapter and Sintered Filter Exhaust Adapter and remove applicable requirements associated with CLASS 2258 82. Canadian applicable requirements were updated per CSA Notices and Informs.
80008168	2019-09-30	Potential update to report 227951-2541710 (last updated under project 70079817) to assess the YT-3400 and YT-3450 enclosures with alternate construction as Type 4 and 4X.  Project assumes that the following tests are not applicable: (a) cl. 8.5 External Icing Test, (b) cl. 8.8 Outdoor Corrosion Protection Test.  Project assumes that the cl. 8.9 Additional Corrosion Protection Test is applicable for enclosure materials other than Type 304 or 316 SS.
80000500	2019-05-14	Update to report 2541710 (last update 70079817) with Submitter's new name and address.
70079817	2016-07-22	Update to report 2541710 to add alternate nameplate drawings.
70023839	2015-05-20	Update to 2541710 to include lower ambient temperature and updated ordinary location evaluation.
2541710	2012-10-16	Original cCSAus certification for Electro-pneumatic valve positioner YT 3400/YT3450 series according to: CSA C22.2 No. 0-M91 CAN/CSA C22.2 No 60079-0:11 CSA C22.2 No 60079-1:07 CAN/CSA-C22.2 No. 60079-



31:12 CAN/CSA-C22.2 No.139-10 ANSI/IEC 60529:2004 ISA 60079-0  
(12.00.01): 2009 ANSI/ISA-60079-1 (12.22.01):2009