DNV·GL

EU-TYPE EXAMINATION CERTIFICATE

[2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 2014/34/EU

[3] EU-Type Examination Certificate Number: **Presafe 19 ATEX 14453X** **Issue 0**

[4] Product: **Electro-pneumatic positioner**

[5] Manufacturer: **Rotork YTC Limited**

[6] Address: **81 Hwanggeum 89 beon-gil**
Yangchon-eup, Gimpo-si
Gyeonggi-do
South Korea

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] DNV GL Presafe AS, notified body number 2460, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in section 16.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012/A11:2013 and EN 60079-11: 2012

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

II 2 G Ex ia IIC T5/T6 Gb

II 2 D Ex ia IIIC T100°C/T85°C Db

Date of issue:
2019-09-19

NORSK AKKREDITERING
PROD 021

Asle Kaastad
For DNV GL Presafe AS
The Certificate has been digitally signed.
See www.dnvgl.com/digitalsignatures for info

[13] **Schedule**

[14] **EU-Type Examination Certificate No:** Presafe 19 ATEX 14453X Issue 0

[15] **Description of Product**
The YT-3300 and YT-3350 are electro pneumatic / smart positioners to control linear and rotary valves. The pressure is regulated by an inductive torque motor and the position of the pneumatic valve is measured by a potentiometer. The equipment has FISCO connection.
They are prepared for the connection of a contactless Hall-effect potentiometer (NCS) as position sensor.

2 conduit entries:
YT-3300: G1/2, 1/2NPT or M20x1,5P threads.
YT-3350: G1/2 threads.
Ex "e" certified cable glands / blind plugs for gas and dust hazardous areas, that reflects the ingress protection (IP6X), shall be used.

Air connection:
YT-3300: Rc 1/4, 1/4 NPT, G 1/4.
YT-3350: 1/4 NPT

Gauge connection:
YT-3300: Rc 1/8, 1/8 NPT.
YT-3350: 1/8 NPT

Type designation
YT-3300 *1 2 3 4 5 6 7 8* and YT-3350 *1 2 3 4 5 6 7 8* series follows suffix symbols as follows:
1: Motion type
2: Acting type
3: Explosion proof
4: Lever type
5: Conduit – air
6: Communication
7: Option
8: Operating temp.

Intrinsic Safety Parameters
Ui: 24V
Ii: 380mA
Pi: 1,4W
Ci: 2,2nF
Li: 3µH

FISCO parameters:
Ui: 17,5V
Ii: 380mA
Pi: 5,32W
Ci: 2,2nF
Li: 3µH

Degrees of protection (IP Code)
IP6X

Ambient temperature:
T6: Tamb -40°C to +40°C, T5: Tamb -40°C to +60°C

Tamb -40°C to +40°C, T100°C: Tamb -40°C to +60°C

Routine tests
None

[16] **Report No**.: D0003810/00

[17] **Specific Conditions of Use**
POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS
This warning is applicable for dust certification.

[18] **Essential Health and Safety Requirements**

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9

[19] **Drawings and documents**

Number	Title	Rev.	Date
T690-1177-YT-3300_SCH	PA_FF – TOP LEVEL SCHEMATIC	3.1	2019-07-12
T690-1177-YT-3300_BOM	YT-3300 FF_PA Bill of materials	3.1	2019-08-21
T690-1177-YT-3300_LAM	YT-3300 FF_PA – PCB Laminate Specification	1.1	2019-07-12
T690-1177-YT-3300_PCB	YT-3300 FF_PA Module	3.1	2019-07-12
T690-1177-J2-PINREM	T690-1177 – J2 PIN removal Specification	1.0	2019-07-05
T690-1177-YT-3300_POT	YT-3300 FF_PA Casting Mold, Coverage, Molding Compound	1.0	2019-08-26
YT-YT3300-FP -SC-01-01	YT-3300-MAIN/FF-PA)	7	2019-06-17
YT-YT3300-MFP-BOM-01	YT-3300 MAIN(FF/PA) (Ex-ia IIC)	1	2019-06-04
YT-YT3300-FP-LY-01-00	Rotork YTC PCB LAYOUT	6.0	2019-05-28
YT-YT3300/3350-NRM-SC-01-01	YT-3300/3350/3303 NCS-ROTARY MODULE YT-3500/3550 NCS-ROTARY MODULE	8	2019-06-19
YT-YT3300-NMD-BOM-01	YT-3300 NCS Module (Ex ia IIC)	2	2019-06-19
YT-YT3300/3350-NRM-LY-01-00	LAYOUT DRAWING FOR YT-3300/3350-NCS-ROTARY MODULE YT-3500/3550-NCS-ROTARY MODULE	4	2019-01-25
YT-YT3300-TM-SC-01-01	YT-3300/3350/3303/3301/3302-TORQUE-Motor-Bd YT-3300/3350LS-Torque-Motor-Bd	1	2019-01-09
YT-YT3300-TM-BOM-01	YT-3300/3350/3301/3302/3303 Torque-Motor-Bd	0	2017-07-07
YTC-YT3300_TM-LY-01-00	LAYOUT DRAWING FOR YT-3300/3350/3301/3302/3303 Torque-Motor 80 YT-3300/3350LS	1	2019-01-19
YT-YTC_MD1-SC-03-01	YTC-MODULE1	2	2019-01-09
YT-YTC-MD1-LY-01-01	LAYOUT DRAWING FOR YTC-MODULE1	1	2019-01-19
YT-YTC-MD1-BOM-01	YTC-Module1	2	2019-06-04
YT-YT-3300-FF/PA-SC-01-01	YT-3300-FF/PA Block Drawing	2	2019-05-28
SS3300-06	SMART LINEAR POSITIONER ASS'Y DWG(FF/PA)	2	2019-06-27
SS3300-07	SMART ROTARY POSITIONER ASS'Y DWG(FF/PA)	2	2019-06-27
SS3300-08	YT-3300 ASS'Y SECTION(FF/PA JP-30)	2	2019-06-27
SS3300-09	YT-3300 ASS'Y SECTION(FF/PA NCS)	2	2019-06-27
SS3300-10	YT-3300 WIRING DIAGRAM(FF/PA)	1	2019-06-27
S3300F TM 03 A1	ASSY MOTOR COIL	3	2019-01-30
S3300F ST 29 M1	PLATE NAME	2	2019-06-27
SS3350-06	SMART LINEAR POSITIONER ASS'Y DWG(FF/PA)	2	2019-06-27
SS3350-07	SMART ROTARY POSITIONER ASS'Y DWG(FF/PA)	2	2019-06-27
SS3350-08	YT-3350 ASS'Y SECTION(FF/PA JP-30)	2	2019-06-27
SS3350-09	YT-3350 ASS'Y SECTION(FF/PA NCS)	2	2019-06-27
SS3350-10	YT-3350 WIRING DIAGRAM(FF/PA)	1	2019-06-27
S3300F TM 03 A1	ASSY MOTOR COIL	3	2019-01-30
S3350F ST 15 P1	PLATE NAME	2	2019-06-27

[20] **Certificate History**

Issue	Description	Issue date	Report no.
0	Original issue	2019-09-19	D0003810/00

END OF CERTIFICATE

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