

Type Examination Certificate

for Electrical Equipment used in Potentially Explosive Atmosphere

Issued by Certification Management Limited, Unit 1 Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK	
Applicant	IMI Japan K.K. 2F, 6-104-2, Aioi-cho, Naka-ku, Yokohama, 231-0012 Japan
Manufacturer name	Thompson Valves Ltd 17 Balena Close, Creekmoor, Poole, Dorset, United Kingdom, BH17 7EF
Product name	Solenoid Valves
Type/model code	ICO3S
Type of protection	Flameproof d Dust Ignition Protection tb
Group, Temperature Class and EPL	IIC T6 Gb, IIC T4 Gb, IIIC T130°C Db
The equipment shall be marked with the following	Ex d IIC T6 Gb, Ta= **°C to +50°C (Max 10W) Ex d IIC T4 Gb, Ta= **°C to +90°C (Max 10W) Ex d IIC T6 Gb, Ta= **°C to +40°C (Max 14W) Ex d IIC T4 Gb, Ta= **°C to +90°C (Max 14W) Ex tb IIIC T130°C Db IP66/X8, Ta= **°C to +90°C (* minimum ambient is dependent on O-ring material. Refer to Appendix 1)
Ratings	24 Vac to 240 Vac, 40 to 60 Hz 12 Vdc to 240 Vdc
Special condition for safe use	Refer to Appendix 2 and Appendix 3
Certificate number	CML 17JPN1284X
Term of validity	From 25-11-2017 to 24-11-2020



This is to certify that the equipment specified above complies with the requirements stipulated in Ordinance on Examination of Machines and Other Equipment of the Ministry of Health, Labour and Welfare, Japan.

Issue date: 25-11-2017

Signature of examiner:



Appendix 1: Minimum Ambient Temperatures

Minimum ambient is dependent on the O-ring material

O-Ring seal material	Minimum ambient temperature
MFQ Fluorosilicone	-60°C
NBR Nitrile	-60°C
FKM Fluorocarbon (Viton)	-40°C
EPDM	-50°C
FFKM	-30°C
VMQ Silicone	-55°C

Appendix 2: Special Conditions for Safe Use

- i. The ICO3S solenoid valves shall only be installed in accordance with JNIO SH-TR-NO.44 and the manufacturer's instructions
- ii. No repair shall be made to flamepaths.

Appendix 3: Conditions of Manufacture

- i. The ICO3S solenoid valves shall be marked with one of the following minimum ambient temperature:

O-Ring seal material	Minimum ambient temperature
MFQ Fluorosilicone	-60°C
NBR Nitrile	-60°C
FKM Fluorocarbon (Viton)	-40°C
EPDM	-50°C
FFKM	-30°C
VMQ Silicone	-55°C