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Type Examination Certificate

for Electrical Equipment used in Potentially Explosive Atmosphere

Issued by Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK	
Applicant	Metso Japan Co., Ltd. Nippon Life Kawasaki Bldg. 12F, 1-1 Minami-machi, Kawasaki-ku, Kawasaki-shi, Kanagawa, 210-0015 Japan
Manufacturer name	StoneL 26271 US Hwy 59 Fergus Falls MN 56537 United States of America
Product name	Series QX Valve Position Monitor
Type/model code	QX
Type of protection	Flameproof (db)
Group, Temperature Class and EPL	IIC, T5, T6, Gb
The equipment shall be marked with the following	Ex db IIC T5/T6 Gb See attachment 1
Ratings	30Vdc 3A See attachment 2
Special condition for safe use	See attachment 3
Certificate number	CML 19JPN1172X
Term of validity	From 20-06-2019 to 19-06-2022 

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: 20-06-2019

Signature of chief examiner:

Attachment 1: Marking

Ex db IIC T5 Ta = -40°C to +80°C Gb; IP67
 Ex db IIC T5 Ta = -25°C to +68°C Gb; IP67 (_N Sensors)
 Ex db IIC T5 Ta = -40°C to +69°C Gb; IP67 (_A Sensors)
 Ex db IIC T6 Ta = -40°C to +65°C Gb; IP67
 Ex db IIC T6 Ta = -25°C to +70°C Gb; IP67 (_E and _F Sensors)
 Ex db IIC T6 Ta = -25°C to +56°C Gb; IP67 (_N Sensors)
 Ex db IIC T6 Ta = -40°C to +57°C Gb; IP67 (_A Sensors)

Attachment 2: Ratings

Nomenclature

QXabcdefg Valve Position Monitor

a = Function	2A, 4A, 5A, 7A, BA, CA, TA, 2J, 4J, 5J, 7J, BJ, CJ, 2M, 4M, 5M, 7M, BM, CM, 2N, 4N, 5N, 6N, 7N, BN, CN, TN, 2V, 4V, 5V, 6V, 7V, BV, CV, 8V, TV, 2W, 4W, 5W, 6W, 7W, 8W, BW, CW, TW, 14, 2P, 4P, 5P, 7P, BP, CP, 2L, 4L, 5L, 7L, BL, CL, 2H, 4H, 5H, 7H, 8H, BH, CH, 2S, 4S, 5S, 7S, BS, CS, 8Y, 2G, 4G, 5G, 7G, BG, CG, 2E, 4E, 5E, 7E, BE, CE, TE, 2F, 4F, 5F, 7F, BF, CF, TF, 33, 53, 73, B3, C3, 35, 5T, 7T, BT, CT, TT, 44, 54, 74, B4, C4, 45, 5R, 7R, BR, CR, TR, 82, 83, 86, 87, 92, 93, 96, 97, 5O, 7O, BO, CO, TO, 2X, 4X, 6X, 5X, 7X, BX or CX
b = Enclosure	K, N, R or T
c = Junction	02, 03, 05, or 06
d = Shaft output	X, S, N, or H
e = Visual Indicator	R, G, C, 1, 2, 3, 4, 5, X, B, E, Y, H, J, K, M, P, N, D, A, S, T, U, V, W or 0
f = Branding	A or M
g = Options 'Special Unit Digits'	Note: 'Special Unit Digits' do not affect the integrity of the housing, the electrical safety, or the title plate

SQa Valve Position Monitor (Imtex)

a = Construction	1695SR, 1795SR, 2595SR, 4095SR, 4295SR, 5595SR, 7095SR, or 9695SR
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Ratings

2P, 4P, 5P, 7P, BP, CP 2L, 4L, 5L, 7L, BL, CL	SPST Sensors: 0.15 A @ 125 V ac or 30 V dc
2J, 4J, 5J, 7J, BJ, CJ	SPST Sensors: 100 mA, 10-30 V dc
2S, 4S, 5S, 7S, BS, CS, 8Y	SPDT Sensors: 0.1 A, @ 125 V ac
2H, 4H, 5H, 7H, BH, CH, 8H	SPDT Sensors: 3 A, 240 V ac, 100 W max



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CML 19JPN1172X
Issue: 0

2E, 4E, 5E, 7E, BE, CE	Proximity Sensors: NPN N.O. Output 10-30 V dc, N.O. 100 mA max load
2F, 4F, 5F, 7F, BF, CF	Proximity Sensors: PNP N.O. Output 10-30 V dc N.O. 100 mA max load
2G, 4G, 5G, 7G, BG, CG	SPDTS Sensors: 100 mA @ 10-30 V dc
2M, 4M, 5M, 7M, BM, CM	SPDT Sensors: 100 mA @ 10-30 V dc
2X, 4X, 5X, 6X, 7X, BX, CX, 33, 53, 73, B3, C3	SST Sensors: 0.1 A @ 8-125 V dc, 24-125 V ac
5O, 7O	Transmitter: 4-20 mA. 10-40 V dc
BO, CO	Potentiometer: 10 K ohm, 0.5 W
44, 54, 74, B4, C4, 45, 5R, 7R, BR, CR, 2N, 4N, 5N, 6N, 7N, BN, CN 2A, 4A, 5A, 7A, B4, C4	Namur 5-25 Vdc
35, 5T, 7T, BT, CT	SST Sensors: 0.1 A @ 8-250 V dc, 20-250 V ac
92	Electrical ratings: 2 DI, 2 DO, 1 AI Devicenet Module Outputs: 160 mA max total Messaging: Polling, Cyclic, Change of State: Devicenet type 100
93	Electrical ratings: 2 DI, 2 DO, 1, Foundation Fieldbus, Bus Powered Outputs 65 V dc 2 mA max
96	Electrical ratings: 4 In, 2 Out, Use ASi Power Supply: 31.6 V dc max ASi Module Outputs: 160 mA max total ASi Profile: ID=F, IO=4, Parameters not used: 4 DI, 2DO
97	Electrical ratings: 4 In, 1 Out, Use ASi Power Supply: 31.6 V dc max ASi Module Outputs: 100 mA max total ASi Profile: ID=A, IO=4, Parameters not used: 4 DI, 1DO
82	This option is a combination of the 92 dual module and SPDT "Y" switch.
83	This option is a combination of the 93 dual module and SPDT "Y" switch.
86	This option is a combination of the 96 dual module and SPDT "Y" switch.
87	This option is a combination of the 97 dual module and SPDT "Y" switch.
14	Mechanical Switches: 4.5 A @ 125 / 250 V ac Transmitter (If Installed): 4-20 mA, 10-40 V dc
2V, 4V, 5V, 6V, 7V, 8V, BV, CV	Mechanical Switches: 10 A @ 125 / 240 V ac or 0.5 A @ 125 V dc
2W, 4W, 5W, 6W, 7W, 8W, BW, CW	Mechanical Switches: 10 A @ 125 Vac



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CML 19JPN1172X

Issue: 0

Attachment 3: Special condition for safe use

- i. To minimise the risk of electrostatic sparking, the equipment shall be cleaned only with a damp cloth.
- ii. Consult the manufacturer if dimensional information on the flameproof joints is necessary.
- iii. The temperature rise at the branching point/ cable entry point is 26K. When the equipment is used in ambient temperatures over 34°C, the user shall ensure that the appropriate rated cable is used.