Certificate of Compliance

Certificate:	1580510	**Master Contract:**	161061
Project:	80149205	**Date Issued:**	2025-02-05

Issued To: **Maxon - A Honeywell Company**
201 E 18th St
Muncie, Indiana, 47302
United States

Attention: Jim Brooks

Issued by: Joshua Burdeshaw

PRODUCTS

CLASS - C225802 - PROCESS CONTROL EQUIPMENT For Hazardous Locations

Class I, Division 2, Groups A, B, C, and D; Class II, Division 2, Groups F and G; and Class III

aSMbc2-defg-hijklm

a=Valve Size: 075, 100, 125, 150 (075=3/4”(DN20), 100=1”(DN25), 125=1-1/4”(DN32), 150=1-1/2”(DN40))
b=Valve Type: A or M (A=Maxon automatic (motorized) valve or M=Maxon manual valve)
c=Normal Position: 1 or 2 (1=Normally closed shut-off valve or 2=Normally open vent valve)
d=Body Connection: A, B, E, F (A=ANSI (NPT) threaded, B=ANSI flanged (PN20), E=Socket welded nipple, F=Socket welded nipple w/Class 150 flange (ISO 7005 PN20))
e=Body Seals & Bumper Material: A, B, C, D, E, F (A=Buna O-rings/Buna bumper, B=Viton O-rings/Buna bumper, C=Viton O-rings/Viton bumper*, D=Ethylene Propylene O-rings/Ethylene Propylene bumper*, E=Omniflex O-rings/Buna bumper, F=Omniflex O-rings/Viton bumpers*)
f=Body Material: 1, 2, 5, 6 (1=Cast iron, 2=Carbon steel, 5=Stainless steel, 6=Low temp carbon steel)
g=Internal Trim: 1, 2, 4 (1=Trim package 1, 2=Trim package 2, 4=Trim package 2, oxy clean*)
h=Solenoid Voltage A, B, C, D, E, F (A=115Vac 50Hz, B=115Vac 60Hz, C230Vac 50Hz, D=230Vac 60Hz, E=208Vac 50Hz, F=24Vdc) (T4 @ Ta=60°C for options A, B, C, D, E; T3 @ Ta=60°C for option F; T4 @ Ta=65°C for options A, B, C, D, E; T3 @ Ta=65°C for option F)

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i=Motor Voltage: A, B, C, D (Automatic Valves A=115Vac 50Hz, B=115Vac 60Hz, C230Vac 50Hz, D=230Vac 60Hz) or (Handle Sideplate-Manual Valves A=Standard handle, B=Tandem main, C=Tandem blocking, D=Tandem overhead, E=Wheel and chain)
j=Motor Timing: 1, 2, * (* option not available for manual valves only) (1=2.5 sec., 2=6 sec.)
k=Switch Options: 0, 1, 2, 3 (0=VOS1/none, 1=VOS1/VCS1, 2=VOS2/VCS2, 3=VOS2/VCS1)
l=Enclosure Rating: A, B (A=Type 4, B= Type 4X)
m=Instruction Language: any single alpha-numeric character referencing an additional language
* 0°C minimum ambient temperature limit

aSMbc2-defg-hijklm
a=Valve Size: 200, 250, 300 (200=2”(DN50), 250=2-1/2”(DN65), 300=3”(DN80))
b=Valve Type: A or M (A=Maxon automatic (motorized) valve or M=Maxon manual valve)
c=Normal Position: 1 or 2 (1=Normally closed shut-off valve or 2=Normally open vent valve) (Normal position 2 only applies to 2”size)
d=Body Connection: A, B, E, F (A=ANSI (NPT) threaded, B=ANSI flanged (PN20), E=Socket welded nipple, F=Socket welded nipple w/Class 150 flange (ISO 7005 PN20)
e=Body Seals & Bumper Material: A, B, C*, D*, E, F* (A=Buna O-rings/Buna bumper, B=Viton O-rings/Buna bumper, C=Viton O-rings/Viton bumper*, D=Ethylene Propylene O-rings/Ethylene Propylene bumper*, E=Omniflex O-rings/Buna bumper, F=Omniflex O-rings/Viton bumpers*)
f=Body Material: 1, 2, 5, 6 (1=Cast iron, 2=Carbon steel, 5=Stainless steel, 6=Low temp carbon steel)
g=Internal Trim: 1, 2, 4 (1=Trim package 1, 2=Trim package 2, 4=Trim package 2, oxy clean*)
h=Solenoid Voltage A, B, C, D, E, F (A=115Vac 50Hz, B=115Vac 60Hz, C230Vac 50Hz, D=230Vac 60Hz, E=208Vac 50Hz, F=24Vdc (T4 @ Ta=60°C for options A, B, C, D, E; T3C @ Ta=60°C for option F; T4 @ Ta=65°C for options A, B, C, D, E; T3B @ Ta=65°C for option F)
i=Motor Voltage: A, B, C, D (Automatic Valves A=115Vac 50Hz, B=115Vac 60Hz, C230Vac 50Hz, D=230Vac 60Hz) or Handle Sideplate (Manual Valves A=Standard handle, B=Tandem main, C=Tandem blocking, D=Tandem overhead, E=Wheel and chain)
j=Motor Timing: 1, 2, * (* option not available for manual valves only) (1=2.5 sec., 2=6 sec.)
k=Switch Options: 0, 1, 2, 3 (0=VOS1/none, 1=VOS1/VCS1, 2=VOS2/VCS2, 3=VOS2/VCS1)
l=Enclosure Rating: A, B (A=Type 4, B= Type 4X)
m=Instruction Language: any single alpha-numeric character referencing an additional language
* 0°C minimum ambient temperature limit

aCMbc2-defg-hijklm
a=Valve Size: 250, 300, 400, 600* (250=2-1/2”(DN65), 300=3”(DN80), 400=4”(DN100), 600=6”(DN150)* only available in the manual valve option)
b=Valve Type: A or M (A=Maxon automatic (motorized) valve or M=Maxon manual valve)
c=Normal Position: 1 or 2 (1=Normally closed shut-off valve, 2=Normally open vent valve)
d=Body Connection: A, B, E, F (A=ANSI (NPT) threaded, B=ANSI flanged (PN20), E=Socket welded nipple, F=Socket welded nipple w/Class 150 flange (ISO 7005 PN20))
e=Body Seals & Bumper Material: A, B, C*, D*, E, F* (A=Buna O-rings/Buna bumper, B=Viton O-rings/Buna bumper, C=Viton O-rings/Viton bumper*, D=Ethylene Propylene O-rings/Ethylene Propylene bumper*, E=Omniflex O-rings/Buna bumper, F=Omniflex O-rings/Viton bumpers*)
f=Body Material: 1, 2, 5, 6 (1=Cast iron, 2=Carbon steel, 5=Stainless steel, 6=Low temp carbon steel)

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g=Internal Trim: 1, 2, 4 (1=Trim package 1, 2=Trim package 2, 4=Trim package 2, oxy clean*)
h=Solenoid Voltage A, B, C, D, E, F (A=115Vac 50Hz, B=115Vac 60Hz, C=230Vac 50Hz, D=230Vac 60Hz, E=208Vac 50Hz, F=24Vdc (T4 @ Ta=60°C for options A, B, C, D, E; T3C @ Ta=60°C for option F; T4 @ Ta=65°C for options A, B, C, D, E; T3B @ Ta=65°C for option F))
i=Motor Voltage: A, B, C, D (Automatic Valves A=115Vac 50Hz, B=115Vac 60Hz, C230Vac 50Hz, D=230Vac 60Hz) or Handle Sideplate (Manual Valves A=Standard handle, B=Tandem main, C=Tandem blocking, D=Tandem overhead, E=Wheel and chain)
j=Motor Timing: 1, 2, * (* option not available for manual valves only) (1=2.5 sec., 2=6 sec.)
k=Switch Options: 0, 1, 2, 3 (0=VOS1/none, 1=VOS1/VCS1, 2=VOS2/VCS2, 3=VOS2/VCS1)
l=Enclosure Rating: A, B (A=Type 4, B= Type 4X)
m=Instruction Language: any single alpha-numeric character referencing an additional language
* 0°C minimum ambient temperature limit

- Series a730 bH Normally Closed, Manual Reset Safety Shutoff Valve.
- Series a760 bH Normally Closed, Manual Reset Safety Shutoff Valve.
- Series a4730 bH Normally Closed, Automatic Reset Safety Shutoff Valve.
- Series a4760 bH Normally Closed, Automatic Reset Safety Shutoff Valve.

a = Valve Size 1 in. and 1¼ in.
b = Valve Open/Close Switch 1, 2, 3 or 4.

Notes:

1. The above model numbers include suffixes designating different options.
2. The suitability of the final installation is to be determined by the local authorities having jurisdiction.
3. The ordinary locations evaluation and testing was done to CSA Standard No.139-1982 - Electrically Operated Valves. It is covered under the CGA Certification Report Number T2406001. The T2406001 report was later updated to T2406002 report based on a 5 year re-certification cycle used by CGA. The T2406002 CGA report was converted to the 1970658 CSA Certificate and validates the original model numbers previously found in the T2406001 CGA Report, based on the ANSI Z21.21-2005 / CSA 6.5 – 2005 - Automatic valves for gas appliances applicable standard.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 25-17	Enclosures for use in Class II Groups E, F and G Hazardous Locations.
CSA C22.2 No. 94.2:20	Enclosures for electrical equipment, environmental considerations (Trinational standard with NMX-J-235/2-ANCE-2020 and UL 50E)
CSA C22.2 No. 213-17 (R2022)	Nonincendive electrical equipment for use in Class I and II, Division 2 and Class III, Divisions 1 and 2 hazardous (classified) locations (Binational standard with UL 121201)
CSA/ANSI Z21.21:19•CSA 6.5:19	Automatic Valves For Gas Appliances *(Sixth Edition, Update No. 1)*

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CSA Standard No.139:19 Electrically Operated Valves

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.

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 shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

The following marking shall be provided on permanent, 0.5 mm thick metal nameplate secured with screws or rivets or drive screws.

- Manufacturer Name: “Maxon – A Honeywell Company”, or CSA Master Contract Number “161061”, adjacent to the CSA mark in lieu of manufacturer’s name.
- Model number: 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.
- Manufacturer date in MMYY format, or serial number, traceable to month of manufacture.
- The CSA Mark, with or without “C” and “US” indicators, as shown on the Certificate of Conformity.
- Hazardous Locations designations: As specified in the PRODUCTS section, above.
- Temperature code: As specified in the PRODUCTS section above.
- The following words shall be found on the back of the aluminum plate adjacent to the PCB:
  “WARNING” – EXPLOSION HAZARD – Substitution of components may impair suitability for Class I, Division 2” or equivalent
  “WARNING – EXPLOSION HAZARD – Do not connect or disconnect while circuit is live unless area is known to be nonhazardous” or equivalent

An installation manual or data sheet shall be supplied with each unit, containing the following minimum marking information:

- Manufacturers name and address
- Electrical ratings: As specified in the PRODUCTS section, above.
- Specification for ambient temperature ratings: As specifies in the PRODUCTS section, above
- Mounting and installation instructions, including dimensions, and the following words, or equivalent:
- The words:

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- "This equipment is suitable for installation in Class I, Division 2, Group B, C, D and Class II Groups F and G and Class III Hazardous Locations or nonhazardous locations only.", or equivalent
- "WARNING - Explosion Hazard. Do not connect or disconnect this equipment unless power has been removed or the area is known to be nonhazardous." or equivalent
- "WARNING - Explosion Hazard. Substitution of components may impair suitability for Class I, Division 2.", or equivalent

Notes:

Products certified under Class(es) C225802 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca

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Supplement to Certificate of Compliance

Certificate: 1580510 **Master Contract:** 161061

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
80149205	2025-02-05	FIR follow-up, update to certificate 1580510 for non-conformance issues noted in FC# 161062), FIR dated Oct. 11, 2022, revised descriptive drawings required. CSA Descriptive drawings 47891, 4982 and 58131.
70152115	2017-09-26	update to report 1580510 to cover part no. change
70068494	2016-03-17	Update Report 1580510 to confirm new location of manufacturer's label on the solenoid coil.
2569090	2012-11-09	Update to report 1580510 to include Honeywell Microswitch ZW50F90FW1 as an alternate to the already listed switch 1HS241 in this report.
2542522	2012-10-11	Update to report 1580510 with revised drawings.
2516458	2012-05-15	Update to report 1580510 with revised drawings.
2459712	2011-10-04	Update to report 1580510 with revised drawings.
2207542	2009-08-24	Update to Report 1580510 to include an updated drawing revision.
2085112	2009-01-21	Update Certificate 1580510 revise drawings and change model to the new Smart model numbering scheme.
1997408	2008-01-29	Update Certificate 1580510 for revised drawing.
1844283	2006-10-19	Update Certificate 1580510 to include revised drawings.
1580510	2004-07-29	Supersedes Report LR 11005905: (Models Series 5000, 808, 808CP, 730/760 and 4730/4760) to add 6" 808 valve.

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