

## RoHS

# (Restriction of Hazardous Substances)

### Certificate of Compliance

MKS Instruments, Inc. hereby certifies that the products listed in the attached table are compliant with the European Union's RoHS directive 2011/65/EU (including Delegated Directive 2015/863 effective 22 July 2021) regarding the restriction of the use of certain hazardous substances in electrical and electronic equipment. The products listed below are compliant to RoHS requirements for concentration limitations, by weight of homogeneous material, of the ten substances shown on the following page.

Product	RoHS Compliant Part Number
Picomotor Actuator, 0.5 in. Travel, 30 nm Resolution, 9.5 mm Shank	8301NF (802301-01)
Picomotor Actuator, 1 in. Travel, 30 nm Resolution, 9.5 mm Shank	8302 (802301-02)
Picomotor Actuator, 1 in. Travel, 30 nm Resolution, 9.5 mm Shank	8302 (802301-03)
Picomotor Actuator, 0.5 in. Travel, 30 nm Res., M12 x 0.5 mm Thread	8321 (802321-01)
Picomotor Actuator, 1 in. Travel, 30 nm Res., M12 x 0.5 mm Thread	8322NF (802321-02)
Piezo Actuator, Tiny Picomotor, 12.7 mm Travel, 0.25 in. Shank	8353 (803335-01)
Piezo Actuator, Tiny Picomotor, 12.7 mm Travel, 1/4-40 Thread	8354 (803335-02)

The thresholds shown below are not in place for any legally allowable exemptions per Annex III of the aforementioned directive. If such exemptions are in use, they are noted on the attached table. If no exemptions are in use, then no further information is provided.

All information provided in this Certificate of Compliance is accurate to MKS' knowledge as of the date of this certification. This confirmation is made based our internal engineering risk analysis of the individual items possibly being present along with the best technical information made available to MKS from its material suppliers.

Jean Louis Nicque
General Manager, Motion Business Units

09/10/2020

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MKS Instruments, Inc. Page 1 of 2 Document Number: MKS-CD-1459

MKS CONFIDENTIAL Revision: C

### LIST OF SUBSTANCES BANNED BY ROHS2 – JULY 2021

(Item cannot exceed 0.1% of homogeneous material – except as noted)

- o Lead (Pb)
- o Mercury (Hg)
- Cadmium (Cd) 0.01% limit
- O Hexavalent chromium (Cr6+)
- o Polybrominated biphenyls (PBB)
- o Polybrominated diphenyl ether (PBDE)
- o Diisobutyl phthalate (DIBP)
- o Bis (2-ethylhexyl) phthalate (DEHP)
- o Butyl benzyl phthalate (BBP)
- o Dibutylphthalate (DBP)

### MKS RoHS2 PRODUCT EXEMPTION LISTING

MKS Product Number	MKS Product Description	Annex III Exemption #	Annex III Exemption Description
001654	Piezo, Actuator	7(c)-I	EE comp w/ Lead in a glass or ceramic
002356	Piezo, Actuator,	7(c)-I	EE comp w/ Lead in a glass or ceramic
900843	Nut, Retaining, Brass	6(c)	Copper alloy containing up to 4% lead by weight

MKS Instruments, Inc. Page 2 of 2 Document Number: MKS-CD-1459