



Nippon gear has full range of actuator from smart type AE series to mechanical actuator L120 series with associated gearboxes have been readily accepted into all major market segments, including Hong Kong Electric, Hong Kong & China Gas, WSD Water treatment works, DSD Waste Water Treatment Plants.

Nippon Gear fabricates all kind of Worm Gearboxes and they assemble L120 actuators in their Japan factory and test run with full certificates and test report before despatch. All the worm gear proposed would be designed for ball valve, gate valve and butterfly valve operation.

All worm gear unit should be furnished with spur gear attachments to reduce operating force and bevel gear attachments for 90 deg angle change of input shaft direction. The worm is casted by Alloy Steel and the worm gear is casted by high tensile strength bronze. A double sleep is adopted and its relation with the key position of valve shaft can be taken freely.

製品保証

- (1) 保証期間
弊社工場出荷後2年または現地で運転開始後1年、いずれか短い方といたします。
- (2) 保証範囲
弊社の製品は、取り決められた定格および稼働条件下でご利用される場合に対して、契約時に定められた期間の保証をいたしております。
- 従って、保証期間内であっても、下記の事由により不具合が発生した場合は、保証範囲外とさせていただきます。
- 1) 弊社製品の仕様、または、選定条件を超えて使用したための故障
 - 2) 火災・水害・台風・地震、その他天災をはじめ、故障の原因が弊社製品構造以外の事由による故障
 - 3) 弊社、または弊社の指定するサービス業者以外の者が、改造もしくは修理したことにより発生する不具合（塗装およびメッキなどの自然退色・剥離・グリースの劣化・油分の分離など）

(1) Warranty period

The warranty period shall be two years after shipment from our factory or one year after the start of operation in the field, whichever is shorter.

(2) Warranty scope

Product shall be for the period specified at the time of contract signing, provided that the product is used with the agreed-upon ratings and under the agreed-upon operating conditions.


- Any defects that occur in the warranty period for any of the reasons stated below shall be outside the warranty scope.
- 1) Use beyond the specifications or selection conditions for the product.
 - 2) Reason not attributable to the structure of the product, such as fire, flood, typhoon, earthquake, and other natural disasters.
 - 3) Reason attributable to the modification or repair by someone other than us and service contractors designated by us.
 - 4) Non-conformance due to changes over time (such as natural fading of coating and plating, rusting, grease deterioration, and oil separation)
 - 5) Reason attributable to a failure not to follow the maintenance, inspection, and other procedures specified in the operating instructions and elsewhere.

Product warranty

- 5) 取扱説明書などに指定する保守・点検・整備などを実施しなかったことに起因する故障
 - 6) 操作、または取り扱いの誤りに起因する故障
 - 7) 一般に品質・性能に影響のないと認められる程度の官能的現象（音・振動など）
 - (3) 保証費用
万一、保証期間内に弊社責任による不具合を発見された場合は、当該製品の代替品納入、または当該製品の修理対応を弊社費用で実施いたします。
- なお、保証範囲地域は国内に限定させていただきます。
- また、保証費用は、納入品単体の保証を意味するもので、納入品の故障により誘発される下記の費用は含みません。
- 1) 製品の交換からの取り外しおよび取り付けに要する工数、再納入に要する輸送費および税金、倉庫費用などの付帯費用
 - 2) 当該製品の不良から生ずる装置の休業損失・機会損失費用など。
- 保証を金額で実施することとなった場合、その上限はクレーム対象製品の販売価格を超えないことといたします。

- 6) Reason attributable to an error in operation or handling.
 - 7) Any sensory characteristics (such as sound and vibration) of such a level that they are generally deemed not to affect quality or performance.
 - (3) Warranty expense
If a defect attributable to us is found in the warranty period, we shall deliver a substitute for the product or repair the product at our own expense.
- Note that the warranty is valid only in Japan.
- The warranty expense shall be construed to include the expense of the delivered product itself and not to include any of the following expenses that may be induced by a failure of the delivered product.
- 1) Man-hours for the removal of the existing product from the system and the mounting of the delivered product; transportation expenses required for re-delivery; and extra costs such as taxes and warehouse expenses.
 - 2) Loss due to the suspension of equipment, opportunity loss, and so on resulting from the defect of the product.
- In case of our execution in warranty with money, the upper limit on the amount of money shall not exceed the selling price of the defective product.

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■他の販売拠点、サービス拠点は弊社ホームページを参照願います。

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 **NIPPON GEAR CO., LTD.**




SMART TYPE
VALVE ACTUATOR

AE series

AEシリーズ バルブアクチュエータ

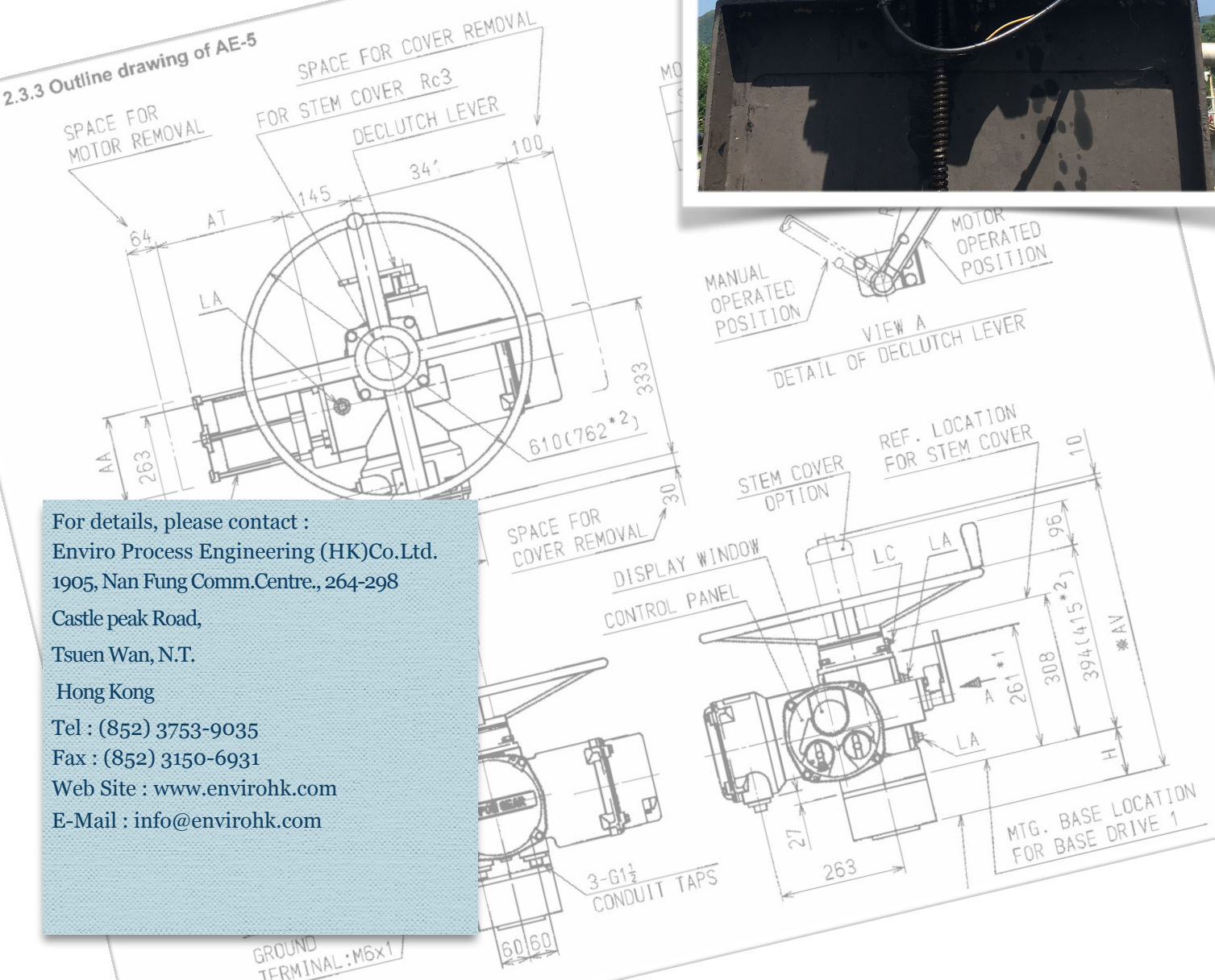
AE ACTUATOR APPLICATIONS

AE-5 Actuator for Weir Penstock

AE actuator 100% fully made in Japan as an alternative to Limitorque MX actuator. They produce the same wiring diagram as per customer's current setting.

AE Series valve actuator is a smart IP68 non intrusive type Actuator that enable the creation of a variety of controls by Digitalising both Torque Sensing Detection and position limit detection.

AE Series Actuator is a multi turn actuator for electrically operating valves and Penstocks. The AE actuator can be coupled directly with valve or Penstocks and with Quarter turn valve by coupling with wide range of NIPPON Gear Worm gearboxes.



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