

30m Extension hose No.351A-30

Instruction manual

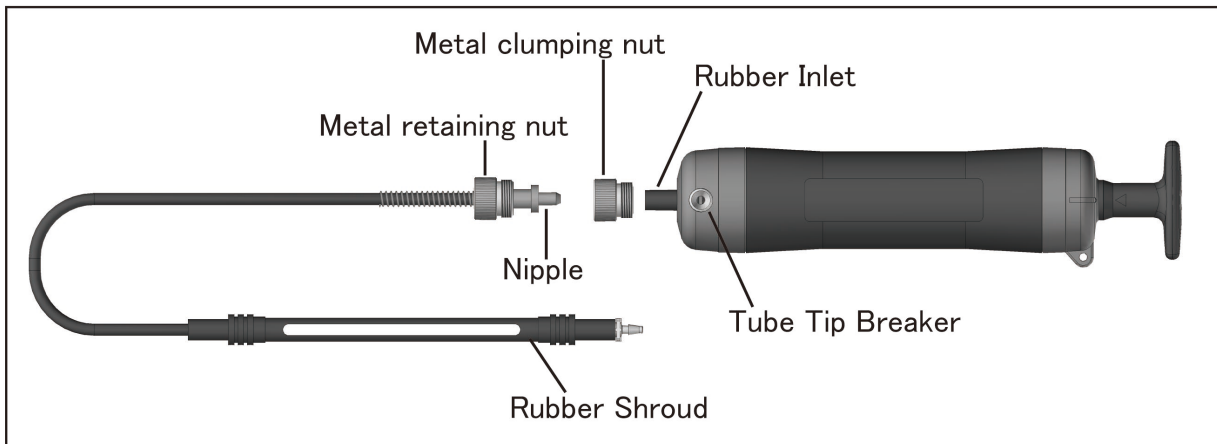
■ FOR SAFE OPERATION

Read this manual, the instruction manual of your Gastec Gas sampling pump, and the instruction manual of your Gastec Gas detector tube carefully.

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| ⚠ CAUTION | <p>If not observed, injuries to the operator or damage to the product may result.</p> <ul style="list-style-type: none"> • When breaking the tube ends, keep away from eyes. • Do not touch the broken glass tubes, pieces and reagent with bare hand(s). |
| △ NOTE | <p>For maintaining performance and reliability of the test result.</p> <ul style="list-style-type: none"> • Use only Gastec Gas Sampling Pump (GV-100 or GV-110). • Refer to the instruction manual of your Gastec Gas Detector tube for use temperature and humidity range. • Avoid sunlight, acids, and alkaline materials. |

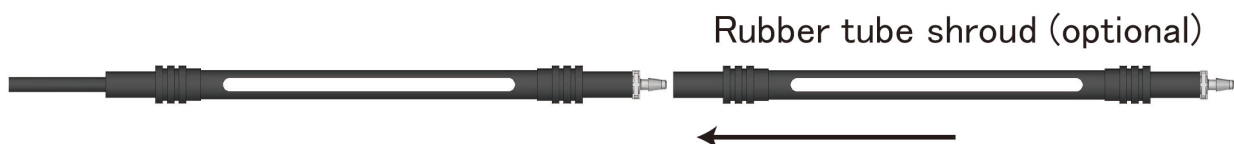
■ Specifications

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|------------------------|--|
| Product name | 30 m Extension hose |
| Product code | No.351A-30 |
| Length | 30m±2% |
| Outer / Inner diameter | φ5 mm / φ1.5 mm |
| Weight | 900g (approx.) |
| Applicable with | GASTEC Gas sampling pump model GV-100 or GV-110. |
| Optional parts | Rubber shroud No.358 |



■ MEASUREMENT PROCEDURE(Read the instruction manual of your Gastec Gas sampling pump and the instruction manual of your Gastec Gas detector tube carefully.)

1. Replace the rubber inlet flange clamping nut of the sampling pump by the metal clamping nut of the extension hose. The metal clamping nut should be firmly tightened to eliminate leakage caused by poor seal between the flange of the rubber inlet and the pump body.
2. Insert the nipple of the extension hose securely into the pump inlet.
3. Tighten the metal retaining nut firmly and fix the tubing on the pump head.
4. After breaking off tube tips, place the tube into the rubber shroud of the extension hose. The tube must be attached in the holder so that sample is drawn into the pump in the direction of the arrow (▶) printed on the tube.
5. When use of twin tube, connect rubber tube shroud No. 358 which is sold separately.



6. When this extension hose is used, sampling time may be different from the instruction manual of detector tube. Also, correction factor may have to be applied to tube reading. (See below chart for sampling time and correction factor.) As necessary, multiply the correction factors of temperature, humidity, pump strokes, extension hose, and atmospheric pressure. (When measuring a gas listed on "APPLICATION FOR OTHER SUBSTANCES" in the instruction manual, apply the correction factor/scale after these corrections.) Refer to the instruction manual of your Gastec Gas Detector tube for temperature, humidity, and pump strokes correction.

Sampling time and correction factors for No.351A-30 (Sampling times are approximate value.)

Currently only the detector tubes listed below are applicable to No. 351A-30. If you need to use other tube, please contact your Gastec representatives.

| Tube No. | Gas or Vapour to be Measured | Sampling time for 1 pump stroke (100mL) | Sampling time for a half pump stroke (50mL) | Correction factor |
|----------|------------------------------|---|---|-------------------|
| 1L | Carbon monoxide | 1.5min. | 45sec. | 1.13 |
| 1LK | Carbon monoxide | 3min. | 1.5min. | NONE |
| 1LL | Carbon monoxide | 3min. | | 1.14 |
| 2HH | Carbon dioxide | 2min. | 1min. | 1.12 |
| 2H | Carbon dioxide | 1min. | 30sec. | 1.12 |
| 2L | Carbon dioxide | 3min. | 1.5min. | NONE |
| 2LC | Carbon dioxide | 3min. | 1.5min. | NONE |
| 2LL | Carbon dioxide | 2min. | | NONE |
| 3M | Ammonia | 1.5min. | 45sec. | NONE |
| 3L | Ammonia | 1min. | 30sec. | 1.11 |
| 3La | Ammonia | 45sec. | 30sec. | NONE |
| 4HM | Hydrogen sulphide | 1.5min. | 45sec. | NONE |
| 4HH | Hydrogen sulphide | 1min. | 30sec. | NONE |
| 4M | Hydrogen sulphide | 1.5min. | 45sec. | NONE |
| 4H | Hydrogen sulphide | 1min. | 30sec. | NONE |
| 4L | Hydrogen sulphide | 1.5min. | 45sec. | NONE |
| 4LL | Hydrogen sulphide | 1min. | 30sec. | NONE |
| 4LK | Hydrogen sulphide | 1min. | 30sec. | NONE |
| 4LB | Hydrogen sulphide | 1min. | 30sec. | NONE |
| 4LT | Hydrogen sulphide | 1.5min. | 45sec. | NONE |
| 5La | Sulphur dioxide | 1min. | | NONE |
| 5Lb | Sulphur dioxide | 1min. | | 1.12 |
| 5LC | Sulphur dioxide | 3min. | | NONE |
| 6L | Water vapour | 30sec. | 30sec. | NONE |
| 7H | Phosphine | 1min. | 30sec. | NONE |
| 7J | Phosphine | 1min. | 30sec. | 1.29 |
| 7 | Phosphine | 1.5min. | | NONE |
| 7LA | Phosphine | 1.5min. | | NONE |
| 7L | Phosphine | 1.5min. | | NONE |
| 9L | Nitrogen dioxide | 1min. | | 1.60 |
| 11L | Nitrogen oxides | 2min. | | 1.35 |
| 15L | Nitric acid | 45sec. | 30sec. | 1.33 |
| 19La | Arsine | 2min. | | NONE |
| 30 | Hydrogen | 3min. | | NONE |
| 35 | Sulphuric acid | 1.5min. | | NONE |
| 40 | Mercury vapour | 2min. | 1min. | 1.20 |
| 60 | Phenol | 2min. | 1min. | 1.12 |
| 70 | Mercaptans | 2min. | | NONE |

| Tube No. | Gas or Vapour to be Measured | | Sampling time for 1 pump stroke (100mL) | Sampling time for a half pump stroke (50mL) | Correction factor |
|----------|------------------------------|------------------------------|---|---|-------------------|
| 70L | Mercaptans | | 2min. | 1min. | NONE |
| 70LN | Mercaptans | | 1.5min. | | NONE |
| 72 | Ethyl mercaptan | | 2min. | | 1.00 |
| 72LN | Ethyl mercaptan | | 1.5min. | | NONE |
| 75N | tert-Butyl mercaptan | | 1.5min. | | NONE |
| 75LN | tert-Butyl mercaptan | | 1.5min. | | 1.12 |
| 81L | Acetic acid | | 2min. | 1min. | 1.19 |
| 91L | Formaldehyde | | 2min. | | 1.16 |
| 92M | Acetaldehyde | | 1min. | | 1.11 |
| 100A | LPG | | 2min. | | NONE |
| 101L | Gasoline | | 2min. | | 1.25 |
| 102L | Hexane | | 1.5min. | | 1.16 |
| 103 | Hydrocarbons (Lower class) | | 3min. | 1.5min. | NONE |
| 105 | Hydrocarbons(Higher class) | | 2min. | 1min. | NONE |
| 106 | Petroleum naphtha | | 1min. | 30sec. | NONE |
| 111 | Methanol | | 1min. | 30sec. | 1.40 |
| 111L | Methanol | | 3min. | | 1.25 |
| 112 | Ethanol | | 1.5min. | 45sec. | 1.35 |
| 112L | Ethanol | | 3min. | | 1.21 |
| 117 | Isoamyl alcohol | | 2min. | | 1.21 |
| 118 | Cyclohexanol | | 2min. | | 1.35 |
| 120 | Aromatic hydrocarbons | | 1.5min. | 45sec. | 1.35 |
| 121 | Benzene | | 1.5min. | | 1.22 |
| 121S | Benzene | | 2min. | | 1.53 |
| 121SL | Benzene | | 2min. | | 1.30 |
| 121L | Benzene | | 3min. | | 1.19 |
| 122 | Toluene | | 2min. | 1min. | 1.35 |
| 122L | Toluene | | 1.5min. | | 1.22 |
| 123 | Xylene | | 2min. | 1min. | 1.33 |
| 123L | Xylene | | 1.5min. | | 1.47 |
| 124 | Styrene | | 1min. | 30sec. | 1.48 |
| 124L | Styrene | | 1min. | 30sec. | 1.46 |
| 131 | Vinyl chloride | | 2min. | 1min. | 1.17 |
| 131L | Vinyl chloride | | 1.5min. | | 1.25 |
| 131La | Vinyl chloride | | 2min. | 1min. | NONE |
| 131La | 1,3-Dichloropropene | | 2min. | 1min. | 1.17 |
| 131LB | Vinyl chloride | | 1.5min. | | 1.29 |
| 132LL | Dichlorvos | | 1.5min. | 45sec. | 1.14 |
| 134 | Chloropicrin | | 1.5min. | | 1.28 |
| 134L | Chloropicrin | | 2min. | | 1.28 |
| 135 | 1,1,1-Trichloroethane | | 3min. | 1.5min. | NONE |
| 136H | Methyl bromide | | 2min. | 1min. | NONE |
| 136L | Methyl bromide | | 2min. | 1min. | NONE |
| 136LA | Methyl bromide | | 1.5min. | 45sec. | 1.15 |
| 136LL | Methyl bromide | | 3min. | | NONE |
| 139 | 1,2-Dichloroethylene | | 1min. | 30sec. | NONE |
| 141L | Ethyl acetate | | 3min. | | NONE |
| 141L | Methyl isothiocyanate | Shelf life before Sep.2021 | 3min. | | 1.28 |
| | | Shelf life Sep.2021 or after | 3min. | | 1.36 |

| Tube No. | Gas or Vapour to be Measured | | Sampling time for 1 pump stroke (100mL) | Sampling time for a half pump stroke (50mL) | Correction factor |
|----------|------------------------------|------------------------------|---|---|-------------------|
| 142L | Butyl acetate | Shelf life before Jul.2022 | Please contact your GASTEC representatives. | | |
| | | Shelf life Jul.2022 or after | 3min. | | 1.16 |
| 151L | Acetone | | 3min. | | NONE |
| 161 | Ethylether | | 1.5min. | | 1.13 |
| 163 | Ethylene oxide | | 45sec. | | 1.11 |
| 163L | Ethylene oxide | | 3min. | | 2.00 |
| 163LL | Ethylene oxide | | 2min. | | 1.43 |
| 165L | Ethylene glycol | | 3min. | | 1.43 |
| 166 | Methyl tert-butyl ether | | 3min | | NONE |
| 172 | Ethylene | | 3min. | 1.5min. | 1.28 |
| 172L | Ethylene | | 2min. | | 1.22 |
| 174 | 1,3-Butadiene | | 1.5min. | | NONE |
| 174L | 1,3-Butadiene | | 3min. | | NONE |
| 191L | Acrylonitrile | | 2min. | | NONE |
| 230 | Methyl iodide | | 1.5min. | 45sec. | 1.17 |
| 230H | Methyl iodide | | 2min. | 1min. | 1.28 |
| 231 | Sulphuryl fluoride | | 2min. | | NONE |
| 232 | 1,2-Dichloroethane | | 3min. | | 1.13 |
| 233 | Chloropicrin | | 2min. | | 1.12 |
| 234L | Methyl isothiocyanate | | 3min. | | 1.11 |

WARRANTY

If you have any questions regarding gas detection and quality of the products, please feel free to contact your Gastec representatives.

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