

# 30m Extension hose No.351A-30

## Instruction manual

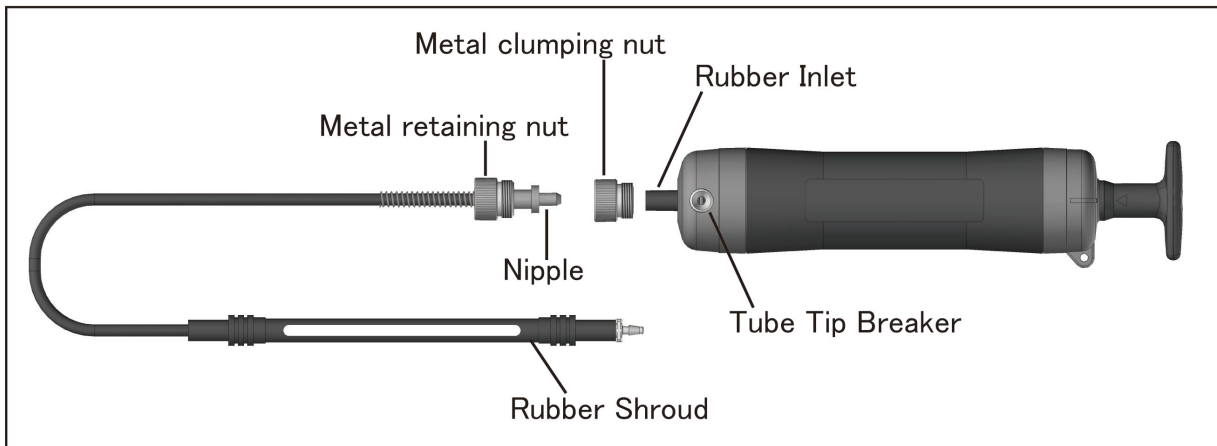
### ■ FOR SAFE OPERATION

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

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

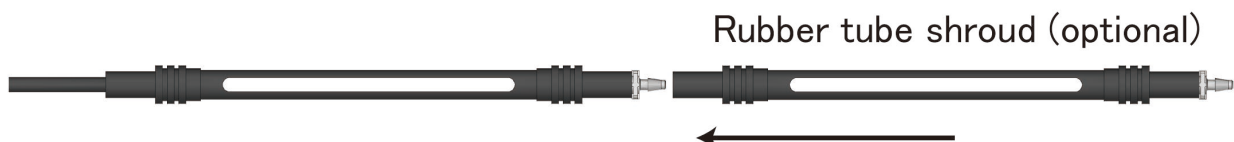
### ■ Specifications

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
8La	Chlorine	1.5min.		NONE
8LL	Chlorine	3min.		1.16
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

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
60	Phenol	2min.	1min.	1.12
70	Mercaptans	2min.		NONE
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
92LA	Acetaldehyde	2.5min.		NONE
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	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	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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