



An Ovivo Company

GAS CONTROL

VAREC BIOGAS 246AT Series LOW PRESSURE DRIP TRAP WITH ELECTRIC ACTUATOR

The 246AT Series are designed for the automatic collection and safe removal of condensate from gas.

Introduction

The Varec Biogas Series 246AT Drip Traps are designed for automatic and safe collection of condensate from the gas. This unit is ideal for installation in confined spaces and Class 1, Divisions 1 or 2 rated areas.

The Series 246AT Drip Trap is suitable for working pressures up to 5 psig (34.5 kPa). For systems with higher pressure ratings, see the product data sheet for Varec Biogas 247AT Series High Pressure Drip Traps.

Operation

The Varec Biogas 246AT Series Drip Traps are designed to prevent gas from escaping while draining. The unit comes with a timer-controlled electric actuator. The NEMA 7 increment timer is provided to allow operation of the drip trap at specified time intervals. The timer allows an operator the flexibility for automatic FILL and DRAIN cycles of the drip trap at a minimum of 35 minute intervals. The unit comes equipped with a Class 1, Division 1 rated, high-torque reversible motor with a manual override. Manual override allows manual operation of the unit in the event of power failure at the plant.

Options

For added convenience, the electric actuator may come with a local control panel. The control panel can be supplied to control up to a maximum of five electric actuated drip traps. The control panel will house the cycle timer. The control panel will include the following for each drip trap controlled:

- A selector switch for “auto” or “hand” mode.
- A selector switch to open and close the drip trap while the drip trap is in the “hand” mode.
- Indicating lights to show if the drip trap is filling or draining.
- A fault alarm can be provided for each drip trap monitored by the control panel. The alarm will come on when the trap does not close at the specified timer setting.
- Remote contacts for “Fill” or “Drain” status and fault alarms (when option is specified).
- The control panel can be supplied in NEMA 4X, fiberglass or stainless steel construction.
- UL Certified NEMA 4 and 4X control panels.
- Consult factory if NEMA 7 (Explosion Proof), aluminum construction is required.



Design Features

- Corrosion Resistant Aluminum Construction
- Positive Seal Against Gas Escape
- 2.5 and 6 Quart Reservoir Capacity
- UL Approved Control Panel for Remote Operation of Multiple Electric Actuated Drip Traps (Optional)

Specifications

Dimensions and Weight, inches [mm] and lbs. (kg)

| Size Code | 2 | 6 |
|----------------------|-----------------|-----------------|
| A | 20 1/4 [514] | 21 1/2 [546] |
| B₁ | 20 [508] | 20 [508] |
| B₂ | 16 [406] | 16 [406] |
| Shipping Weight | 40 (18.1) | 45 (20.4) |

Connections

Inlet and Outlet 1" NPT Threaded

Maximum Working Pressure

5 psig (34.5 kPa)

Reservoir Sizes

2.5 Quart (2.4 L)

6.0 Quart (5.7 L)

Materials

Body, Cover Plate, Disc & Handle
356 T6 Low Copper Cast Aluminum

Internal Parts & Hardware

Stainless Steel

“O” Rings

Neoprene

Mounting Bracket

(Between Actuator & Drip Trap)

Aluminum with Stainless Steel Hardware

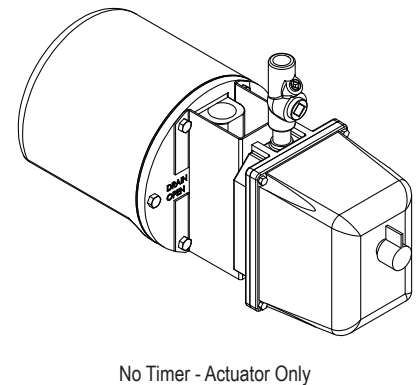
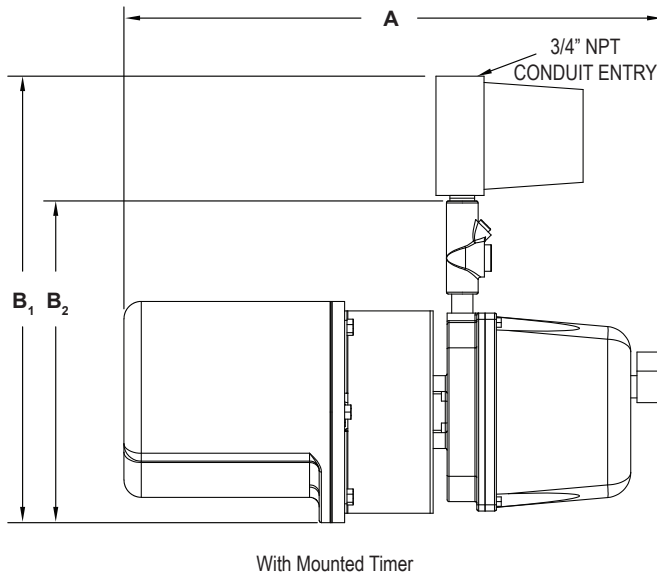
Timer Enclosure

NEMA 7, Aluminum

Manual Override Gearing & Shaft

Heat Treated Alloy Steel, Precision Cut

NOTE: B2 indicates Actuator Only, No Timer.
Installation, mounting arrangement and dimensions are preliminary general information not be used for construction. Certified drawings are available.



Actuator Enclosure

Explosion Proof Rated for use in:

Class I, Division 1, Groups C & D

Class II, Division 1, Groups E, F & G

Weather Proof Option Available Upon Request

Actuator Voltage

120 VAC 50/60 Hz, Single-phase

220 VAC 50/60 Hz, Single-phase

Performance Criteria

Speed

30 sec/ 90 (60 Hz), 35 sec / 90 (50 Hz)

Temperature Range

-40°F to +150°F (-40°C to +65°C)

Minimum Torque

425 in/ lbs (48 N.m)

Limit Switches

Provide for 0 to 180 degrees operation

Motor

High Torque, Reversible motor with Built-In Overload Protection

Duty Cycle Rating

50% (120 VAC/ 1PH/ 50 or 60 Hz and 230 VAC/ 1PH/ 50 or 60 Hz)

Current Rating (115 VAC)

N.L.A.

L.R.A

(No Load Amps)

(Locked Rotor Amps)

0.30

0.50

Current Rating (230 VAC)

N.L.A.

L.R.A

(No Load Amps)

(Locked Rotor Amps)

0.20

0.250

Ordering Information

| Model | Description | | |
|-------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 246AT | Low Pressure Electric Actuated Drip Trap | | |
| | Code | Reservoir Size | |
| | 2 | 2.5 Quart (2.4 L) | |
| | 6 | 6.0 Quart (5.7L) | |
| | Code | For Local Control Panel Use | |
| | * | (Indicate on order if 115VAC or 230VAC actuator is required) | |
| | 1 | Leave blank when specifying the timer mounted on the unit in its own NEMA 7 Enclosure Actuator attached only, No Timer - must have or purchase a separate Control Panel (See Below) | |

246AT 6 (Example)
 Example: 6 Quart Low Pressure Electric Actuated Drip Trap, with Timer in NEMA 7 Enclosure.

CONTROL PANEL - Must Be Ordered Separately
Ordering Information

| Model | Description | | |
|--------|-------------------------|---------------------------------------------------------------------------------------|--|
| 246ATC | Drip Trap Control Panel | | |
| | Code | Number of Units Controlled | |
| | 1 | One | |
| | 2 | Two | |
| | 3 | Three | |
| | 4 | Four | |
| | 5 | Five | |
| | Code | Enclosure Type | |
| | A | NEMA 4X Fiberglass | |
| | B | NEMA 4X 316 SS | |
| | C | NEMA 7 Aluminum (Maximum Four Drip Traps per Control Panel) | |
| | Code | Options | |
| | * | Leave Blank (None) | |
| | 1 | Dry Alarm Contacts Provided | |
| | 2 | Heater and Thermostat | |
| | 3 | Dry Status Contacts | |
| | 7 | Mounting Stand & Weatherhood (316L Weatherhood and Mounting Plate and 304L Stands) | |

246ATC 3 B 123 (Example)
 Example: Model 246ATC, Local Control Panel for 3 units, NEMA 4X 316 SS Construction with Dry Alarm Contacts, Heater and Thermostat and Dry Status Contacts.