An Ovivo Company

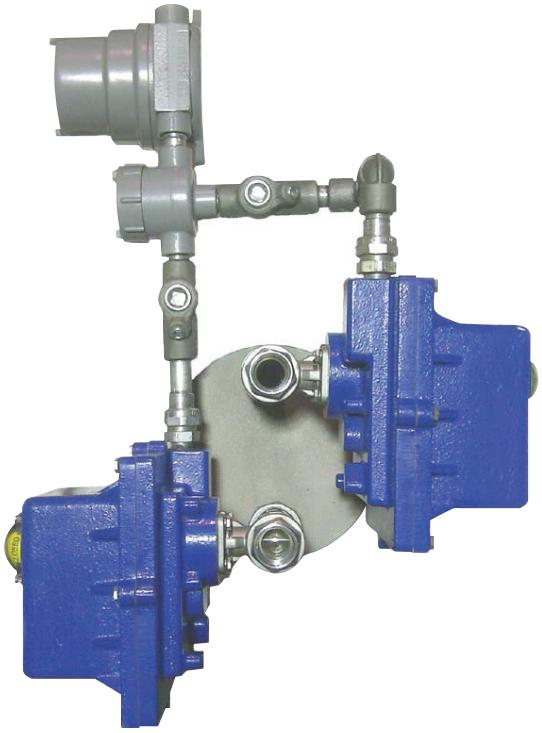
VAREC BIOGAS 247AT Series
HIGH PRESSURE DRIP TRAP WITH ELECTRIC ACTUATOR

The 247AT Series High Pressure Drip Trap with Electric Actuator is designed for the automatic collection and safe removal of condensate from high pressure gas piping.

Introduction

Condensate removal from gas piping systems is necessary to protect piping and equipment from possible damage caused by corrosion or water hammer. In addition, water lying in low spots in piping can restrict gas flow resulting in increased pressure drop within the system. In addition to all low spots, Varec Biogas drip traps should be installed frequently along horizontal piping runs for convenient removal of accumulated condensate.

The 247AT Series Drip Trap is suitable for the automatic collection and safe removal of condensate from the gas and used for working pressures up to 100 psig (688 kPa). For systems with lower pressure ratings, see the product data sheet for Varec Biogas 246AT Series Low Pressure Drip Traps with Electric Actuators.



Operation

The Varec Biogas 247AT model consists of a high-pressure drip trap wherein the 'FILL' and 'DRAIN' ball plug valves are each individually controlled by interlocked electric rotary actuators.

The unit is provided with a single timer enclosed in NEMA 7 housing to control the 'FILL' and 'DRAIN' sequence of the drip trap. 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 timer is mounted on one actuator with a conduit seal which prevents passage of gases, and vapors and flames through the electrical conduit connection.

Design Features

- Double - seal ball plug valves
- 100 psig (688 kPa) working pressure
- 4 Qt. Capacity reservoir
- All 316 SS

The low profile, dual chamber design (247D) can be provided with electric actuators to operate the ball valves on each chamber (247DAT. Consult the factory for ordering information and additional information.

Specifications

Connections
Inlet and Outlet 1" NPT Threaded

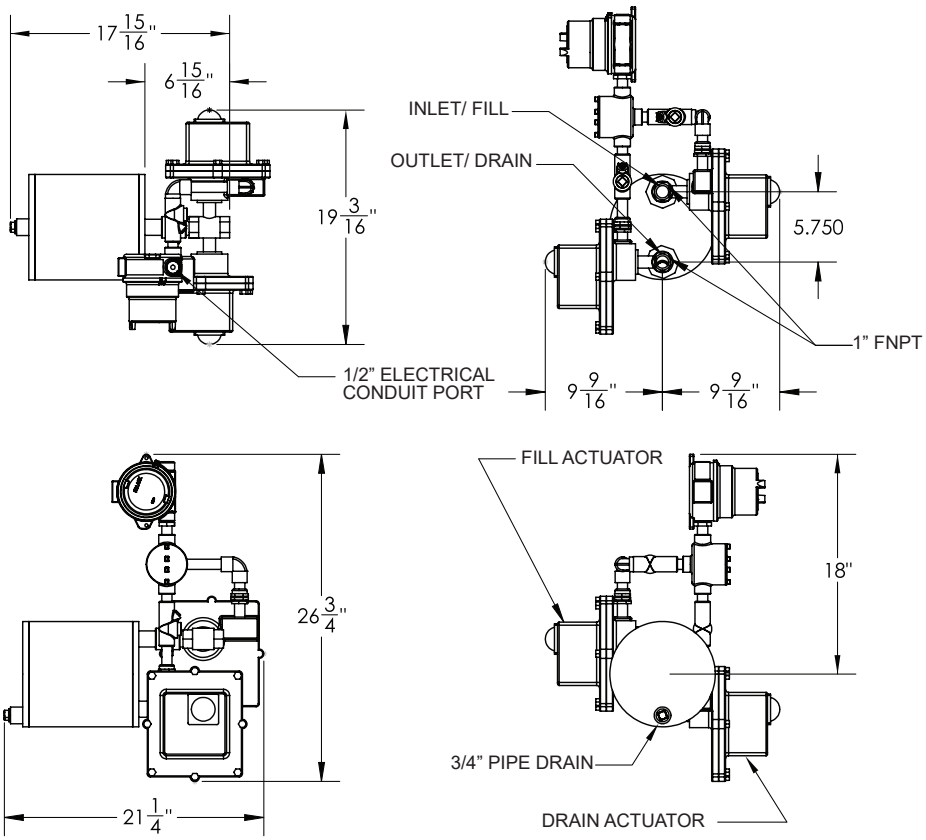
Maximum Working Pressure
100 psig (688 kPa)

Reservoir Sizes
4.0 Quart (3.8 L)

Low Profile, Dual Chamber Design
10 Quart per Chamber
15 Quart per Chamber
20 Quart per Chamber

Materials
All Stainless Steel

Low Profile, Dual Chamber Design
Carbon Steel Body
Epoxy Coated External Surface (Standard)
All Stainless Steel (Optional)



NOTE: Installation, mounting arrangement and dimensions are preliminary general information not be used for construction. Certified drawings are available.

Timer Enclosure
(When Specified Without a Control Panel)
NEMA 7, Aluminum

Control Panel
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 three electrically actuated drip traps. The control panel also houses the cycle timer. The control panel will include the following for each drip trap controlled:

a. Selector switch for 'Auto' or 'Hand' mode.
b. Selector switch to open and close the drip trap while the drip trap is in the 'Hand' mode.
c. Indicating lights to show if the drip trap is filling or draining.
d. The control panel can be supplied in NEMA 4X (fiberglass or stainless steel construction). NEMA 4X panel is UL Approved.
e. Consult factory if NEMA 7 (explosion proof), aluminum construction is required.

Consult factory for further information when specifying a local control panel.

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
5 sec/ 90°
(25% Duty Cycle) 115 VAC or 200 VAC

Temperature Range
-40° F to +150° F (-40° C to +65° C)

Minimum Torque
300 in/ lbs (34 Nm)

Limit Switches
Provide for 0 to 90 degrees operation

Motor
High Torque, Reversible motor with Built-In Overload Protection

Ordering Information

Model	Description
247AT	High Pressure Electric Actuated Drip Trap

Code	Reservoir Size
4	4 Quart (3.8L)

Code	Material of Construction
S	All 316 SS (Standard)

Code	Options
*	Leave Blank when specifying the timer mounted on the unit in its own NEMA 7 enclosure
1	Actuator Attached Only, No Timer - Must have or purchased separate Control Panel [1]

247AT 4 S * (Example)

Example: 4 Quart High Pressure Drip Trap, All Stainless Steel Construction, with Actuator mounted in its own NEMA 7 enclosure.
NOTE: 1 - Consult Factory for further information when specifying a local Control Panel

Ordering Information

Model	Description
247DAT	High Pressure Electric-Actuated Low Profile Dual Chamber Drip Trap, 100 psig Max Working Pressure

Code	Reservoir Size
10C	10 Quart per Chamber Capacity Epoxy Coated Steel
10S	10 Quart per Chamber Capacity 316 SS
15C	15 Quart per Chamber Capacity Epoxy Coated Steel
15S	15 Quart per Chamber Capacity 316 SS
20C	20 Quart per Chamber Capacity Epoxy Coated Steel
20S	20 Quart per Chamber Capacity 316 SS

Code	Options
*	Actuator attached with Timer mounted in its own NEMA 7 enclosure
1	Actuator Attached Only, Must order separate Control Panel [1]

247DAT 10S * (Example)

Example: 10 Quart High Pressure Electric-Actuated Low Profile, Dual Chamber Drip Trap, All Stainless Steel Construction, with Actuator Mounted in its own NEMA 7 enclosure.
NOTE: 1 - Consult Factory for further information when specifying a local Control Panel.

Ordering Information - CONTROL PANEL

Model	Description
247ATC	Drip Trap Control Panel

Code	Number of Units Controlled
1	One
2	Two
3	Three

Code	Options
A	NEMA 4X Fiberglass
B	NEMA 4X 316 SS
C	NEMA 7 Aluminum

Code	Options
*	Leave Blank (None)
1	Dry Alarm Contacts Provided
2	Heater and Thermostat
3	Dry Status Contacts

247ATC 3 B 123 (Example)

Example: Model 247ATC, Local Control Panel for 3 units, NEMA 4X 316 SS Construction with Dry Alarm Contacts, Heater, Thermostat and Dry Status Contacts.