

# 97101



Shand & Jurs Co.

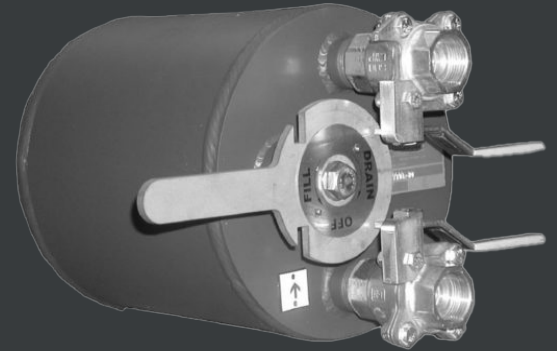
A COGNESSENSE BRAND

## High-Pressure Manual Drip Trap

The Shand & Jurs Biogas Model 97101 High-Pressure Drip Trap is designed to safely remove accumulated condensate from pressurized biogas, digester gas, landfill gas, and vapor recovery piping systems without depressurizing the line. The unit provides controlled liquid drainage while maintaining system containment and preventing gas release to the atmosphere.

The trap utilizes a heavy-duty isolation valve and sealed drain chamber to allow operators to manually evacuate liquid buildup in high-pressure piping sections, knock-out pots, and low points. By preventing condensate carryover, the 97101 protects downstream equipment from corrosion, and fouling.

For automated condensate removal without operator intervention, see the 97101E Electric Actuated Drip Trap.



## Key Features

### High-pressure-rated sealed chamber.

Allows drainage without a depressurizing process piping

### Manual isolation valve control

Operator-controlled discharge for maintenance procedures

### Heavy-duty corrosion-resistant body

Long service life in wet and acidic gas environments

### Integrated liquid collection sump

Prevents condensate carryover into downstream equipment

### Serviceable internal components

Simplifies inspection and routine maintenance

### Compact inline installation

Installs easily at piping low points and drip legs



## Benefits



### PROTECTS HIGH PRESSURE VESSELS AND LINES.

Avoids equipment damage and costly downtime



### PREVENTS LIQUID CARRYOVER

Maintains combustion stability and measurement accuracy



### CONTROLLED MANUAL DRAINING

Eliminates hazardous piping disassembly procedures



### CORROSION REDUCTION

Extends the life of flame arresters and control valves



### PREVENTS GAS DISCHARGE DURING DRAINING

No release of methane gas in confined locations.



### ENABLES SAFE MAINTENANCE ROUTINE

Lowers labor and emergency repair costs

## Available Options



### Stainless steel construction

Corrosion resistance for aggressive gas streams



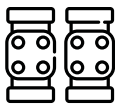
### NPT connections

Matches site piping standards



### Lockable valve handle

Prevents unauthorized operation



### Drain connection adapters

Direct piping to sump or container



### Insulation Jackets

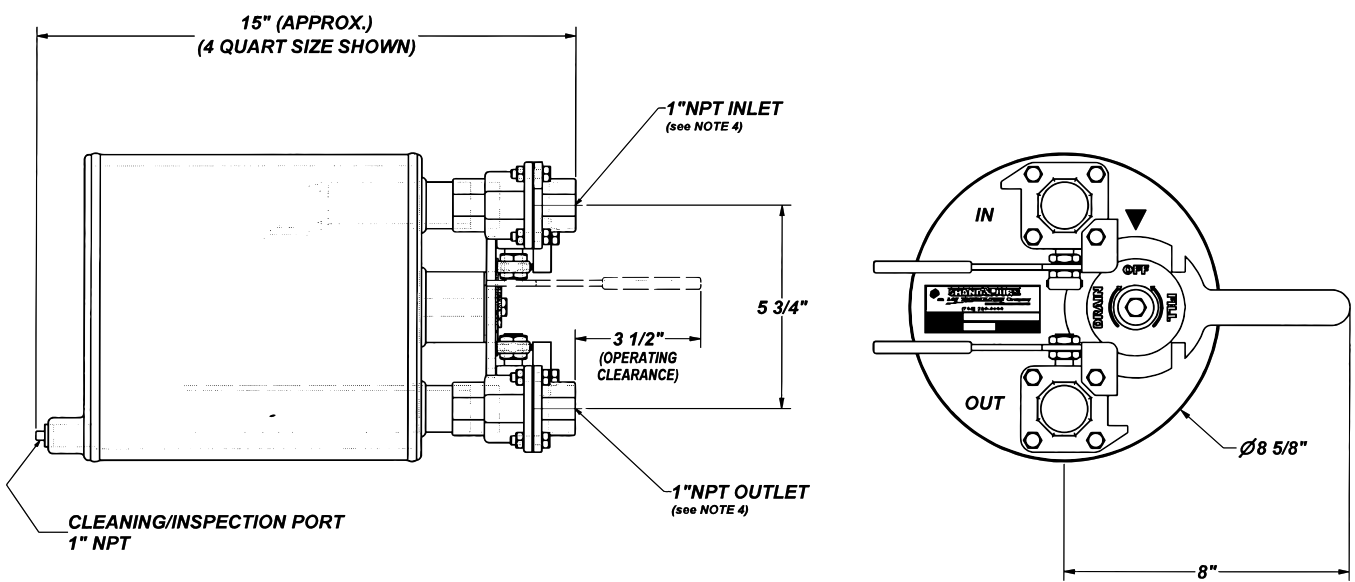
Freeze protection in cold climates



## Key Performance Data

| Parameter          | Value                              |
|--------------------|------------------------------------|
| Function           | Manual condensate removal          |
| Reservoir Capacity | 4 or 6 quart                       |
| Rated Pressure     | 100psig                            |
| Operation          | Manual valve controlled            |
| Installation       | Low point drip leg                 |
| Connections        | Threaded                           |
| Materials          | Carbon steel or stainless steel    |
| Sealing Method     | Positive shutoff isolation valve   |
| Maintenance        | Field serviceable                  |
| Temperature        | Suitable for saturated gas service |
| Discharge          | Operator-controlled drain          |
| Mounting           | Vertical orientation               |

## Dimensions





## Model Number Selection

The model number will have a base number 97101 followed by 2 digit numbers. These digits will represent 2 sets of option tables.

### 97101 - AB

**Table A - Capacity**

| Option A | Capacity |
|----------|----------|
| 4        | 4 Quart  |
| 6        | 6 Quart  |

**Table B - Material**

| Option B | Material  |
|----------|---|
| 0        | Steel Body, Brass Ball Valve, Teflon Seat           |
| 1        | Stainless Steel Body and Ball Valve,<br>Teflon Seat |

## Summary

Best suited for attended facilities or maintenance-based operations where operators perform scheduled draining. Provides safe, controlled condensate removal while maintaining line containment and protecting downstream equipment without requiring power or controls integration.

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This document is for information purposes only. All designs subject to change. Certified dimensions, specifications, and performance data available upon request

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