

# 97100



Shand & Jurs Co.

A COGNESSENSE BRAND

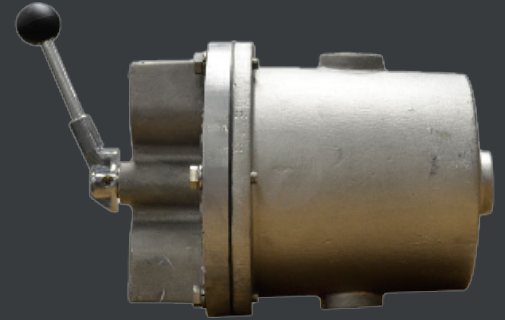
## Manual Drip Trap (Condensate Removal)

The Shand & Jurs Biogas Model 97100 Manual Drip Trap removes accumulated condensate from low-pressure gas piping at system low points where trapped liquid can restrict flow, upset pressure control, and accelerate corrosion. The device provides controlled drainage while maintaining positive gas isolation.

Condensate collects in a 3- or 6-quart reservoir until the operator rotates the internal ported disc valve, which first seals the inlet gas path and then opens the drain passage. This sequence allows liquid removal without gas release or air ingress. Rated for 5 or 25 PSIG service with 1-inch NPT connections, the trap installs directly into condensate legs and equipment drops.

The manual isolation design is applied where accumulation is intermittent and routine inspection already occurs, eliminating floats and controls while preserving predictable operation and piping integrity.

For condensate removal where operating pressure exceeds manual low-pressure service, see Model 97101 High-Pressure Manual Drip Trap. For unattended or continuous drainage, see Model 97100E Electrically Actuated Drip Trap.



## Key Features

### Ported rotating disc valve

Seals gas path before opening the drain to prevent gas escape during draining.

### Manual actuation

Meets 10 States Standard where float operated drip traps are not allowed.

### 3 or 6 quart reservoir

Stores intermittent condensate accumulation between inspection intervals.

### 5 or 25 PSIG pressure ratings

Matches typical low-pressure gas piping envelopes.

### 1-inch NPT connections

Installs directly at piping low points without additional adapters.

### Corrosion-resistant internal trim

Withstands wet and contaminated gas streams.



## Benefits



### POSITIVE ISOLATION DURING DRAINING

Prevents air intrusion and the formation of unsafe mixtures in piping.



### REMOVAL OF STANDING LIQUID

Reduces corrosion and prevents hydraulic shock in piping.



### OPERATOR-CONTROLLED DRAINAGE

Appropriate where routine inspection is already performed.



### NO FLOATS OR CONTROL MECHANISMS

Reduces maintenance intervention and troubleshooting.



### AIR INLET

Helps in preventing vacuum lock during draining.



### PREVENTS GAS DISCHARGE DURING DRAINING

No release of methane gas in confined locations.

## Available Options



### 3-quart or 6-quart condensate reservoir

Allows sizing based on expected condensate accumulation between inspection intervals.



### Aluminum or 316 stainless steel body construction

Provides corrosion resistance for wet gas or aggressive service environments.



### Anodized aluminum disc and cover or body

Improves surface durability and corrosion resistance in outdoor installations.



### NBR or CR seal materials

Allows elastomer selection based on compatibility with process gas and condensate chemistry.



### Air inlet connection

Allows controlled admission of air during draining to improve condensate evacuation.



### Insulation jacket

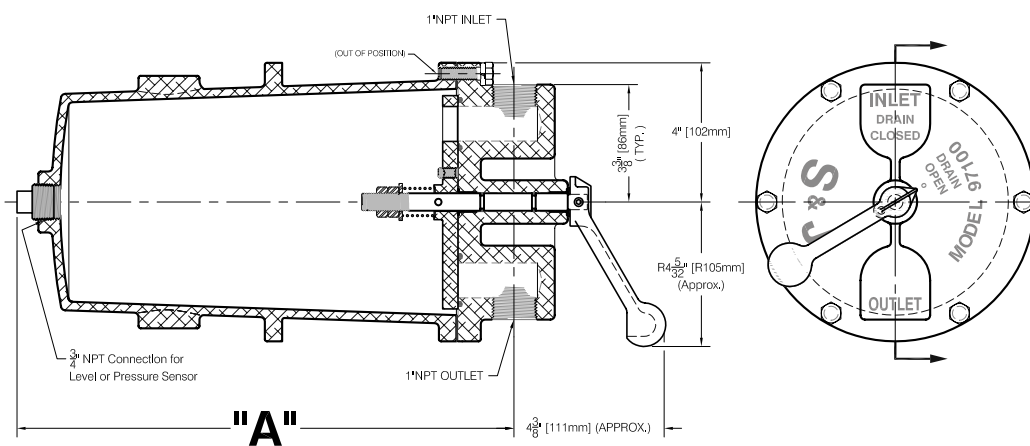
Reduces the risk of freezing and maintains drainage reliability in cold climates. Note: Heat source shall be maintained under jacket.



## Key Performance Data

Parameter	Value
Device Type	Manual condensate drip trap
Service	Low-pressure gas
Maximum Working Pressure	5 PSIG or 25 PSIG
Reservoir Capacity	3-quart or 6-quart
Inlet/Outlet Connections	1" NPT
Operating Mechanism	Manual rotating ported disc valve
Drain Isolation	Positive gas shut-off before drain opening
Body Materials	Aluminum or 316 Stainless Steel
Internal Components	Stainless Steel
Seal Materials	NBR or CR
Installation Location	Gas piping low points

## Dimensions



Size	Dimensions A (Inches [mm])
3 Quart	9 1/8 [232]
6 Quart	14 1/8 [359]

All designs subject to change. Certified dimensions and specifications available upon request.

## Model Number Selection

The model number will have a base number 97100 followed by 4 digit numbers. These digits will represent 4 sets of option tables.

### 97100 - AB - CD

**Table A - Capacity/MAWP**

Option A	Capacity	MAWP
3	3 Quart	5 PSIG
6	6 Quart	
4	3 Quart	25 PSIG
7	6 Quart	

**Table C - Softgoods**

Option C	Softgoods
0	NBR
1	CR

**Table B - Body Material**

Option B	Material
2	Aluminum
3	Aluminum w/ Anodized Disc/Cover
4	Aluminum w/ Anodized Disc/Cover/Body
6	316 Stainless Steel
7	Aluminum w/ 316 Internals

**Table D - Options**

Option D	Options
0	None
1	Insulation Jacket
2	Air Inlet
3	Air Inlet with Insulation Jacket

## Summary

The 97100 provides controlled condensate removal for low-pressure gas systems with periodic inspections. Its manual isolation design protects piping integrity while maintaining stable gas flow, making it the appropriate solution for intermittent condensate accumulation.

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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