

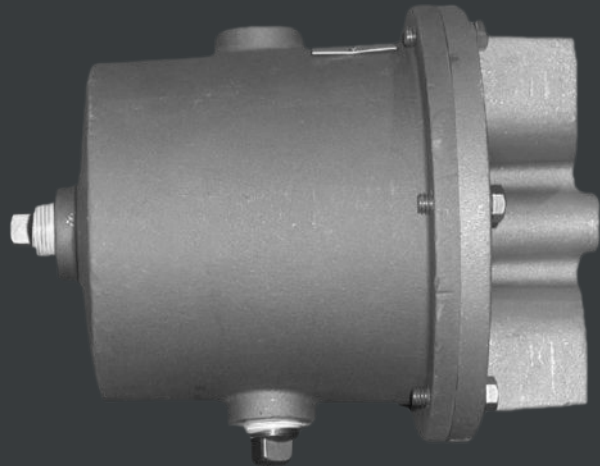
97110

Automatic Drip Trap (Condensate Removal)

The Shand & Jurs Biogas Model 97110 Automatic Drip Trap provides continuous condensate removal from low-pressure gas piping at system low points, where liquid accumulation occurs faster than routine inspection intervals allow. By automatically draining collected liquid, it prevents flow restriction, regulator instability, corrosion, and hydraulic shock while maintaining positive gas containment.

Condensate accumulates in a 2- or 4-quart chamber until the float lifts the stopcock off its seat and initiates drainage. As the liquid level drops, the float resets the valve, restoring a tight seal. A liquid level remains above the outlet during discharge, preventing gas release or air ingress. Rated for 5 PSIG standard with 25 PSIG available and 1-inch NPT connections, the trap installs directly in condensate legs throughout gas distribution piping.

The automatic float design is applied where accumulation is continuous or unpredictable, eliminating manual servicing while maintaining stable gas flow and protecting downstream equipment.



Key Features

Float-operated stopper valve Automatically opens the drain when condensate reaches the operating level.	Liquid seal during discharge Maintains a liquid barrier preventing gas escape while draining.	Automatic drainage operation Removes condensate without operator intervention or routine manual servicing.
Compact condensate chamber Supports continuous drainage in low-pressure gas piping systems.	1-inch NPT connections Installs directly at piping low points without additional adapters.	Corrosion-resistant construction Aluminum and stainless components withstand wet gas and contaminated condensate.



Benefits



AUTOMATIC UNATTENDED DRAINAGE

Eliminates routine manual maintenance rounds.



POSITIVE GAS SHUTOFF

Prevents unsafe gas release and air intrusion.



CONTINUOUS LIQUID REMOVAL

Protects regulators and valves from malfunction.



PREVENTS LIQUID ACCUMULATION

Avoids corrosion and water hammer damage.



MAINTAINS FULL GAS FLOW AREA

Stabilizes downstream pressure regulation.



PREVENTS VENTED GAS LOSS

Avoids thousands of pounds in equivalent gas loss per vent per year.

Available Options



316 stainless steel body construction

Provides corrosion resistance in aggressive or sour gas environments.



Aluminum body construction

Lightweight configuration suitable for general gas service installations.



Alternate internal materials

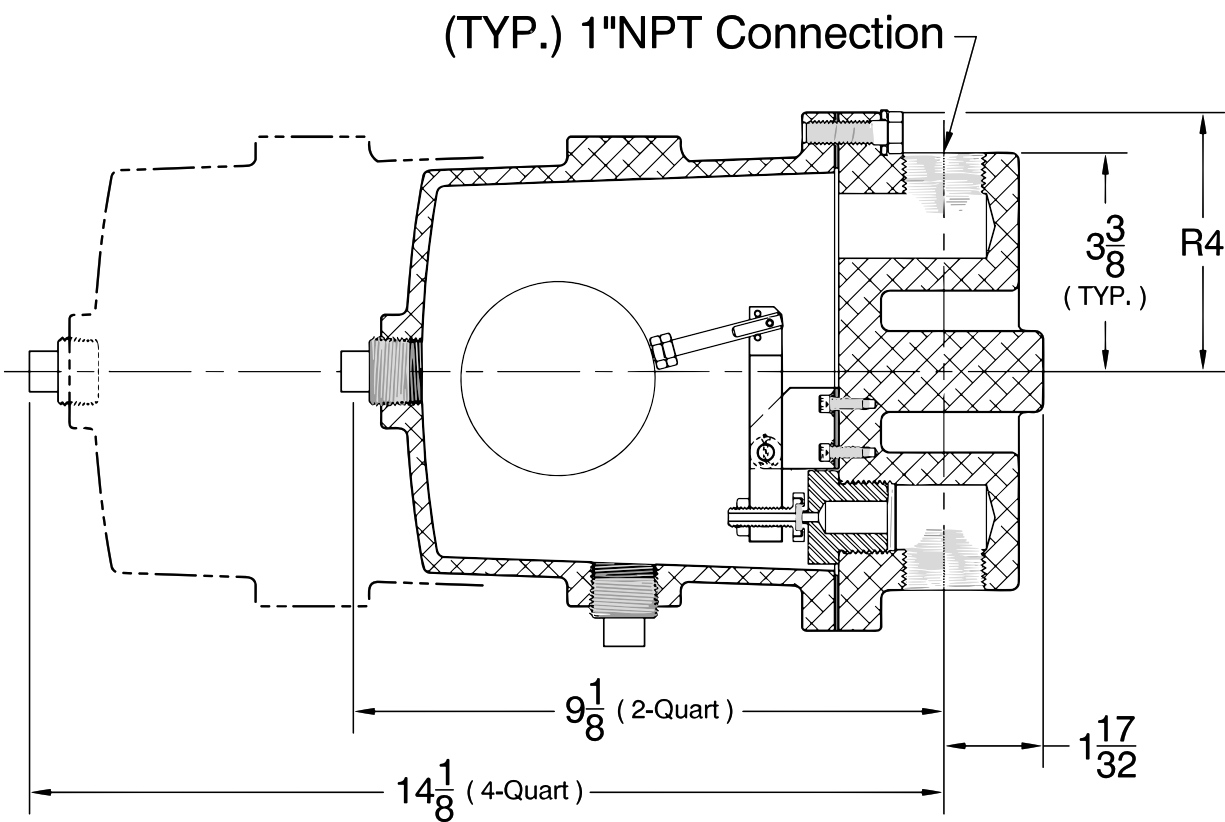
Allows customization for specialized gas compositions or plant material standards.



Key Performance Data

Parameter	Value
Service	Low-pressure gas
Maximum Working Pressure	5 PSIG standard or 25 PSIG optional
Reservoir Capacity	2-quart or 4-quart
Connections	1" NPT inlet/outlet
Operating Mechanism	Float-operated stopper valve
Drain Isolation	Liquid seal maintained during discharge
Body Materials	Aluminum or 316 Stainless Steel
Internal Components	304 Stainless Steel or 316 Stainless Steel
Seal Materials	NBR
10 States Standard	Float operated drip traps are not permitted.

Dimensions





Model Number Selection

The model number will have a base number 97110 followed by 2 digit numbers. These digits will represent an option table.

97110 - AB

Table AB - Maximum Working Pressure & Material

Option AB	Capacity	Maximum Working Pressure	Body Material
11	2 Quart	5 PSIG	Aluminum
12			316 Stainless Steel
21		25 PSIG	Aluminum
22			316 Stainless Steel
31	4 Quart	5 PSIG	Aluminum
32			316 Stainless Steel
41		25 PSIG	Aluminum
42			316 Stainless Steel

NOTE: 316 Stainless Steel Hardware, 304 Stainless Steel Float, NBR Seal Standard. Alternate Materials of construction available.

Summary

The 97110 provides continuous condensate removal where manual drainage is impractical or unreliable. Its float-operated design automatically maintains gas containment while protecting piping and downstream equipment, making it the appropriate solution for unattended or variable condensate accumulation in low-pressure gas systems.

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