

Automatic Variable Orifice Steam Trap

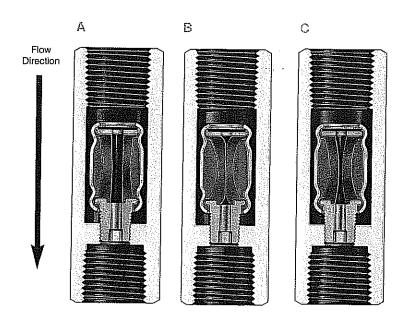
For saturated steam systems

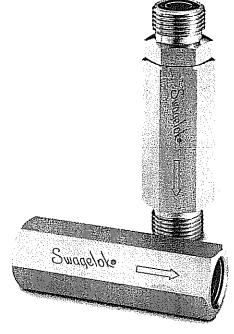
Features

- Compact
- Mo live steam loss during operation
- a Particles pass through the in-line flow path
- No sizing performs on loads from 0 to 200 lb/h
- No mechanical parts

How it works

A temperature-sensitive hydrocarbon wax responds to the temperature of condensate and steam to open and close the trap.

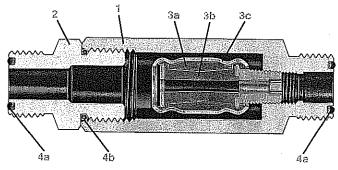




- A The variable orifice steam trap is wide open and ready to start-up.
- B After initial start-up, live steam causes the trap to close tightly.
- Once equilibrium has been reached, condensate passes through the variable orifice steam trap. The variable orifice allows contaminants to pass through.

Materials of Construction

Component	Material/ASME Specification				
1. Body 2. Adapter					
	316 stainless steel/ASME SA-479				
3. Modulator assembly	a. expansion medium: hydrocarbon wax b. bonded modulator: fluorocarbon FKM; brass 360/ASME B-16 c. outer casing: brass 260/ ASME B-36				
4. O-rings	a. VCO® face seal fitting: 70 durometer fluorocarbon FKM b. body to adapter: 90 durometer fluorocarbon FKM				



Silicone-based lubricant is applied to O-rings. All materials of constructions, except expansion medium, are wetted. Note: Adapter and O-rings apply only to SS-AVT8-VCO8-M1 AND SS-AVT8-VCO8-M2.

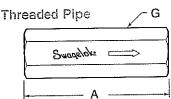
Technical/Ordering Information

Condensate Capacity

- Start-up removal: 1000 lb/h (454 kg/h) maximum.
- Full 200 lb/hr condensate removal rate at body operating temperature of:
 - 220°F (104°C) for -M1 ordering number
 - 180°F (82°C) for -M2 ordering number.
- Condensate removal rate decreases with increase in body temperature.

Installation Considerations

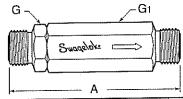
- Do not insulate steam trap.
- Flow arrow on steam trap must point away from the steam source.
- Do not allow the flow arrow to point above horizontal.



Inlet/Outlet NPT Female Pipe Size, in.	Operating Pressure, psig (bar)	Maximum Allowable Temperature, °F (°C)	Ordering Number	A in. (mm)	G Hex Flat, in.	Modulator's Maximum Orifice, in. (mm)
	50 to 150 (3.5-10)	365 (185)	365 (185) SS-AVT8-F8-M1	3.39 (86.1)	6.1) 1 1/16	0.156 (3.9)
1/2	10 to 100 (0.68-6)	340 (170)	SS-AVT8-F8-M2	0.05 (00.1)	, 1, 10	01100 (010)

Inlet/Outlet ISO Female Pipe Size, in.	Operating Pressure, psig (bar)	Maximum Allowable Temperature, °F (°C)	Ordering Number	A in. (mm)	G Hex Flat, in.	Modulator's Maximum Orifice, in. (mm)
	50 to 150 (3.5-10)	365 (185)	SS-AVT8-F8RT-M1	3.39 (86.1)	1 1/16	0.156 (3.9)
1/2	10 to 100 (0.68-6)	340 (170)	SS-AVT8-F8RT-M2	0.00 (00.1)	1 1110	5.100 (0.0)

VCO O-ring Face Seal Fitting



	Inlet/Outlet VCO Size, in.	Operating Pressure, psig (bar)	Maximum Allowable Temperature, °F (°C)	Ordering Number	A in. (mm)	G Hex Flat, in.	G ₁ Hex Flat, in.	Modulator's Maximum Orifice, in. (mm)
Ì		50 to 150 (3.5-10)	365 (185)	SS-AVT8-VCO8-M1	4.06 (103.1)	1	1 1/16	0.156 (3.9)
	1/2	10 to 100 (0.68-6)	340 (170)	SS-AVT8-VC08-M2				

Dimensions are for reference only, subject to change

Options

For additional end connector options, contact your Swagelok representative.

Safe Component Selection

When selecting a component, the total system design must be considered to ensure safe, trouble-free performance. Component function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

Caution: Do not mix or interchange parts with those of other manufacturers.