

spirax sarco

Stainless Steel Balanced Pressure Thermostatic Air Vent AVM7

Description

The AVM7 (maintainable) is a vertical body thermostatic air vent, with all AISI 316L construction designed for use in clean steam systems. Normal operation is close to saturated steam temperature.

Model	AVM7
PMO	102 psig
Sizes	1/4, 1/2", 3/4", 1"
Connections	0.065" O.D. Tube, NPT or Tri-Clamp®*
Construction	All 316L Stainless Steel
Options	3.1B available (upon request) FEP encapsulated silicone 'O' ring is recommended and available. For use on systems where there is, or maybe lactic acid present.

* A registered trademark of Tri-Clover Inc.

Limiting Operating Conditions

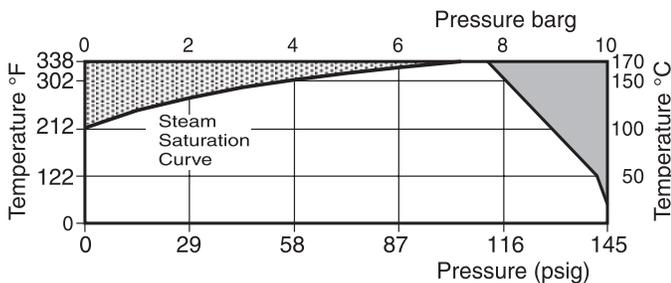
Max. Operating Pressure (PMO) 102 psig (7 barg)
Max. Operating Temperature Saturated Steam Temperature

Pressure Shell Design Conditions

PMA 145 psig/0-302°F 10 barg/0-150°C
Max. allowable pressure 132 psig/338°F 9 barg/170°C

TMA 338°F/0-132 psig 170°C/0-9 barg
Max. allowable temperature
Designed for a maximum cold hydraulic test pressure of 155 psig (10.7 barg)

Pressure / temperature limits (ISO 6552)



Capacities

Pressure (psig)	Flow (SCFM)
1	7
5	8
10	11
20	15
30	19
50	28
75	39

Construction Materials

No.	Part	Material
1	Body (Inlet)	Stainless steel AISI 316L (1.4404)
2	Body with seal (outlet)	Stainless steel AISI 316L (1.4404)
3	O-Ring gasket	FKM compound (V1274-80) complies with FDA 21CFR 177.2600 and is USP Class VI approved. For use on all clean systems or where lactic acid may be present.
4	Element	Stainless steel AISI 316L
5	Nuts & Bolts Washers	Stainless steel BS6105 Gr A4 80 Austenitic stainless steel

Standards

The AVM7 has been designed and built in general accordance with ASME BPE. The unit also complies with the requirements of the European Pressure Equipment Directive. Part 3, 'O' ring - Complies with FDA CFR title 21, Paragraph 177, Section 2600 and USP Class VI.

Certification

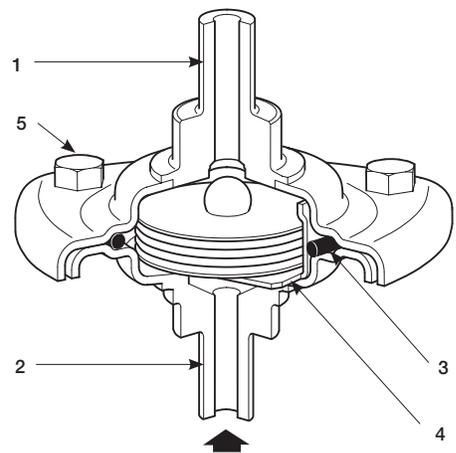
This product is available with certification to EN 10204 3.1

Note: All certification/inspection requirements must be stated at the time of order placement

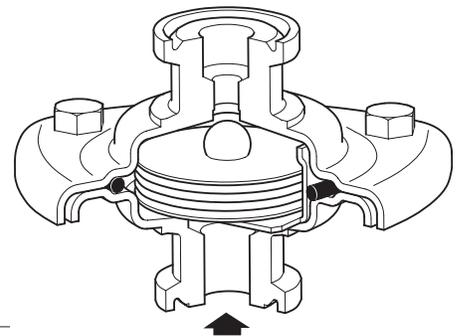
Typical Applications

Fermenter sterilization, steam barriers (block & bleed systems), sterilizer drainage and air venting, CIP/SIP system condensate drainage, and sterilization of process vessels and pipes.

AVM7 with butt weld ends



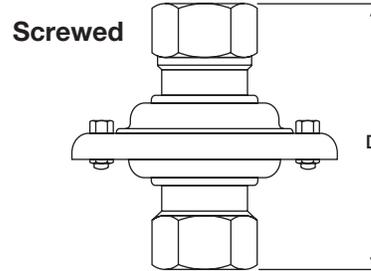
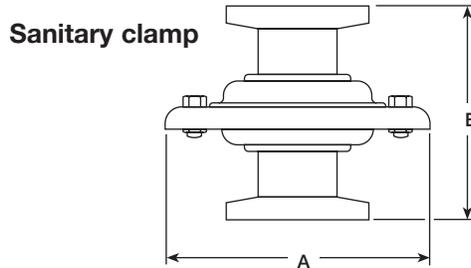
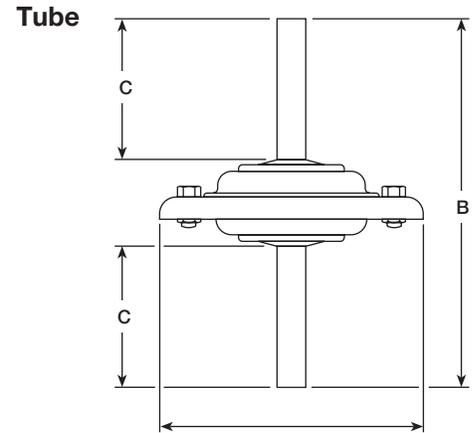
AVM7 with sanitary clamp compatible hygienic connections



Stainless Steel Balanced Pressure Thermostatic Air Vent AVM7

Dimensions (nominal in inches and millimeters)

AVM7								
Size	A	B Tube	C Tube	D Screwed	E Tri-Clamp*	Weight		
						Tube	Screwed	Tri-Clamp*
1/4"	2.8 70			2.3 .58		1.2 .53		
1/2"	2.8 70	4.2 106	1.5 40	2.9 74	1.85 47	.62 lb .28 kg	.66 lb .30 kg	.48 lb .22 kg
3/4"	2.8 70	5.1 130	1.5 40	3.2 81	1.85 47	.68 lb .31 kg	.77 lb .35 kg	.48 lb .22 kg
1"	2.8 70	5.0 126	1.5 40	3.7 95	1.85 47	.77 lb .35 kg	.90 lb .41 kg	.78 lb .37 kg



Sample Specification

Steam trap shall be self-adjusting balanced pressure type capable of operating close to saturated steam temperature. All wetted parts shall be manufactured from 316L stainless steel. Air Vent shall be maintainable, and shall be completely self-draining when installed in vertical pipeline. Connections shall be 0.065" extended O.D. tube, Tri-Clamp® compatible, or screwed NPT.

Installation

The traps are designed for installation in vertical lines with the flow downward to ensure self-draining. The element may be damaged if it is exposed to superheated steam. Full-flow isolating valves, such as Spirax Sarco Model M70i Clean Steam Ball Valve, should be installed so as to permit servicing.

Maintenance

The AVM7 is a maintainable trap. Maintenance on the AVM7 can be performed once the steam trap is isolated from system and return line pressure. Complete Installation & Maintenance instructions are given in IM-P123-23, which is included with the product.

Spare Parts

Element Assembly	A
Gasket (Pkt of 3)	B
Body with Seat	C

Available spare parts are shown in heavy outline. Parts shown in broken lines are not available as spares.

