

ProcessHQ, Inc.

21935 Plummer Street Chatsworth, CA 91311 818 341-1782 (voice) 818 475-1589 (fax) info@processHQ.com

Stainless Steel Balanced Pressure Thermostatic Steam Trap BTM7/BTS7

The BTM7 (maintainable) and BTS7 (sealed) are vertical body thermostatic steam traps, with all AISI 316L construction designed for use in clean steam systems. Normal operation is close to saturated steam temperature, with minimal back-up of condensate.

Model	BTM7 / BTS7				
РМО	102 psig				
Sizes	(1/4" BTS7 only) 1/2", 3/4", 1"				
Connections	0.065" O.D. Tube, NPT or Tri-Clamp® compatible				
Construction	All 316L Stainless Steel				
Options	Other connections are available Fixed bleed (BTM7 only) 3.1B available (BTM7 only)				

^{*} A registered trademark of Tri-Clover Inc.

Limiting Operating Conditions

Max. Operating Pressure (PMO) 102 psig (7 barg)

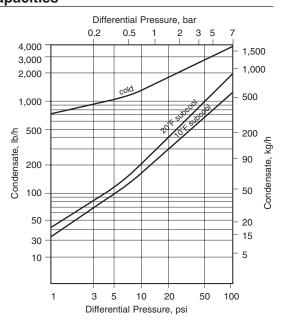
Max. Operating Temperature Saturated Steam Temperature

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 psia	170°C/0-9 barg

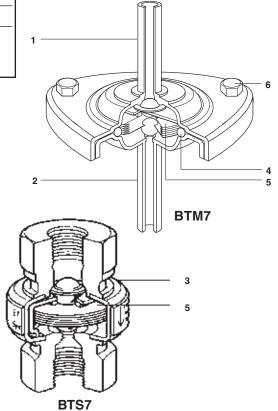
Capacities

Max. allowable temperature



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.



Construction Materials

No.	Part	Material			
1 (BTM7)	Body (Inlet)	Stainless Steel	AISI 316L		
2 (BTM7)	Body w/ Seat (Outlet)	Stainless Steel	AISI 316L		
3 (BTS7)	Body	Stainless Steel	AISI 316L		
4 (BTM7)	O-Ring gasket	FKM compound (V1274-80) complies with		
		FDA 21CFR 177.	2600 and is USP		
		Class VI approve	d. For use on all clean		
		systems or where lactic acid may be present			
5	Element	Stainless Steel	AISI 316L		
6 (BTM7)	Nuts & Bolts	Stainless Steel	BS6105 Gr A4 80		

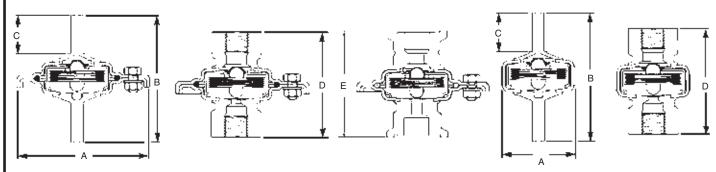
Local regulation may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only.

In the interests of development and improvement of the product, we reserve the right to change the specification.

TI-2-0002-US 06.10

Stainless Steel Balanced Pressure Thermostatic Steam Trap BTM7/BTS7

Dimensions (nominal) in inches and millimeters															
ВТМ7					BTS7										
Size	Α	B Tube	C Tube	D Screwed	E Tri-Clamp*	Tube	Weight Screwed	Tri-Clamp*	Size	Α	B Tube	C Tube	D Screwed	Wei Tube	ght Screwed
1/2"	2.8 <i>70</i>	4.2 106	1.5 <i>40</i>	2.9 <i>74</i>	1.85 <i>47</i>	.62 lb .28 kg	.66 lb .30 kg	.48 lb .22 kg	1/2"	1.6 <i>40</i>	4.2 106	1.5 4.0	2.9 <i>74</i>	.44 lb .20 kg	.49 lb .22 kg
3/4"	2.8 70	5.1 <i>130</i>	1.5 <i>40</i>	3.2 81	1.85 <i>47</i>	.68 lb .31 kg	.77 lb .35 kg	.48 lb .22 kg	3/4"	1.6 <i>40</i>	5.1 <i>130</i>	1.5 40	3.2 <i>81</i>	.51 lb .23 kg	.60 lb .27 kg
1"	2.8 <i>70</i>	5.0 126	1.5 <i>40</i>	3.7 <i>95</i>	1.85 <i>47</i>	.77 lb .35 kg	.90 lb .41 kg	.78 lb .37 kg	1"	1.6 <i>40</i>	5.0 126	1.5 40	3.7 <i>95</i>	.60 lb .27 kg	.73 lb .33 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. Trap shall be maintainable (BTM7), or sealed construction (BTS7), 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. All wetted parts of this trap are manufactured from FDA/3-A approved materials.

Installation

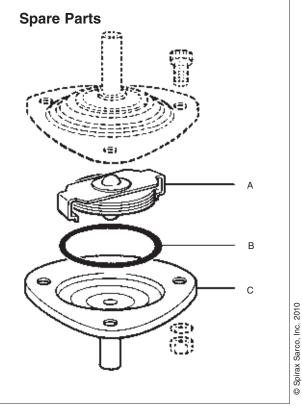
The traps are designed for installation in vertical lines with the flow downward to ensure self-draining. The element may be damaged if it is exposed to superheated steam. Fullflow isolating valves, such as Spirax Sarco Model 70i or 80i Clean Ball Valve, should be installed so as to permit servicing.

Maintenance

The BTM7 is a maintainable trap. The BTS7 is non-maintainable. Maintenance on the BTM7 can be performed once the steam trap is isolated from system and return line pressure. Complete Installation & Maintenance instructions are given in IM-2-0002-US, which is included with the product.

Element Assembly	Α
Gasket (Pkt of 3)	В
Body with Seat	С

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



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Telephone: (803) 714-2000 FAX (803) 714-2222