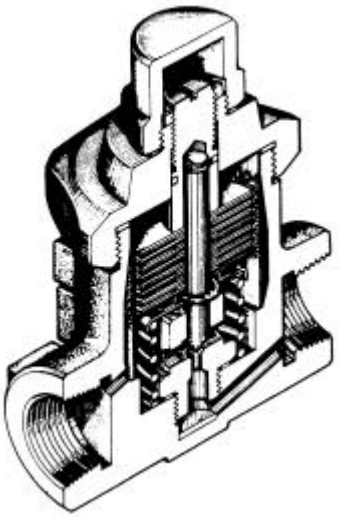
MIYAWAKI ®

Temperature Control Bimetallic Steam Trap

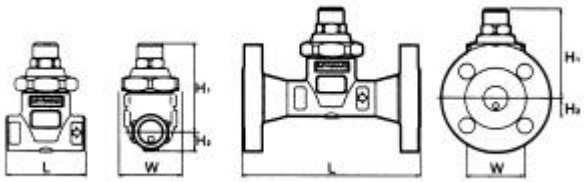
TB 5

Features

1. Adjustable steam trap – the opening temperature of the trap (temperature of the discharged condensate) can be adjusted between 50 and 200°C (122 – 392°F).
2. Highly efficient in energy conservation – eliminates virtually 100% of steam loss.
3. Continuous discharge of the condensate according to the adjusted temperature – not influenced by inlet pressure changes.
4. Each trap is equipped with a patented Self-Closing and Centering Valve („SCCV“) – System to ensure high accuracy, dependable operation and long life time.
5. Inline repairability.
6. Can be installed in any position.



Operating Conditions & Dimensions



TB 5, TB 5W **TB 5F**

Model	Connection	Size	Max. Operating Pressure		Max. Operating Temperature.		Dimension mm (inch)				Weight	
			MPa	psig	°C	°F	L	H_1	H_2	W	kg	lb
TB 5	screwed Rc, NPT	½”	2,1	305	350	662	70 (2.8)	80 (3.1)	17 (0.7)	55 (2.2)	0,8	1.8
		¾”					80 (3.1)		19 (0.8)		0,9	2.0
		1”							23 (0.9)		1,0	2.2
TB 5 W	socket weld JIS, ANSI, DIN	½”					70 (2.8)	80 (3.1)	17 (0.7)	55 (2.2)	0,8	1.8
		¾”					80 (3.1)		19 (0.8)		0,9	2.0
		1”							23 (0.9)		1,0	2.2
TB 5 F	flanged JIS, ANSI	½”					145 (5.7)	80 (3.1)	17 (0.7)	55 (2.2)	2,4	5.3
		¾”							19 (0.8)		2,9	6.4
		1”							23 (0.9)		4,0	8.8
TB 5 F	flanged DIN	½”					150 (5.9)	80 (3.1)	17 (0.7)	55 (2.2)	2,4	5.3
		¾”							19 (0.8)		2,9	6.4
		1”					160 (6.3)		23 (0.9)		4,0	8.8

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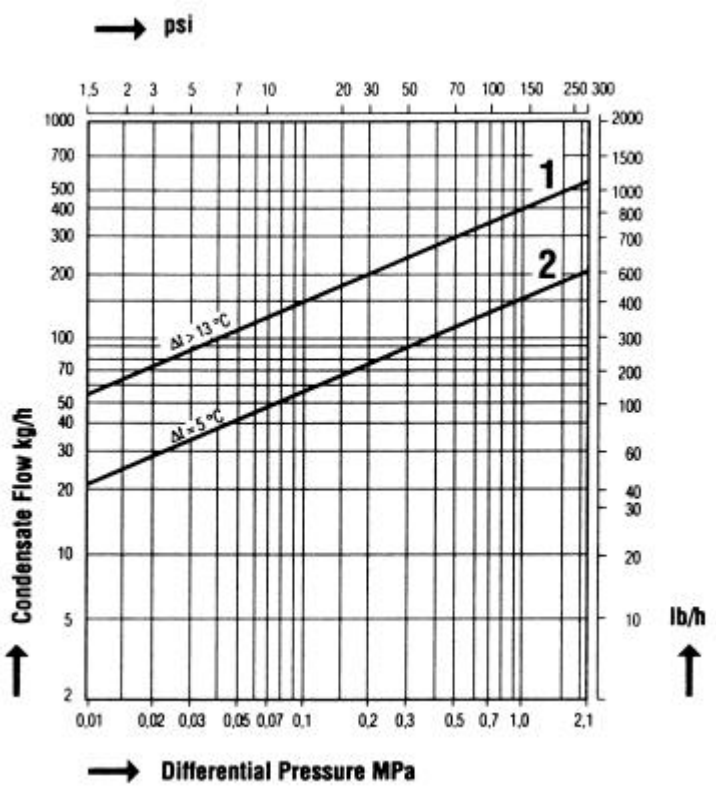
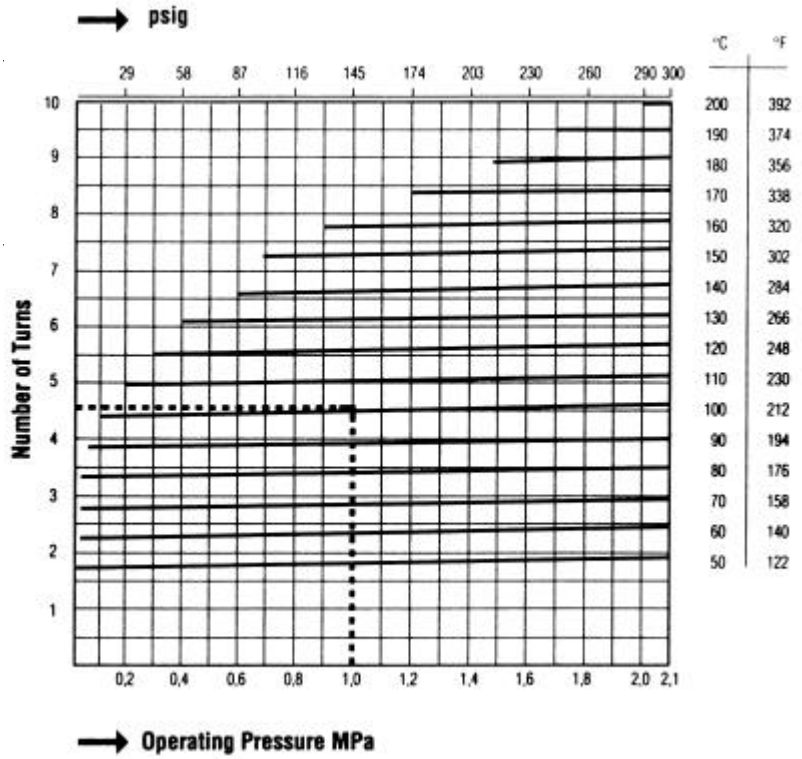


Capacity Chart

Curve 1
shows the traps maximum capacity when discharging cold condensate at a temperature of 20°C (68°F).
Curve 2
shows the traps maximum capacity when discharging hot condensate at a temperature of 10°C (18°F) below the adjusted temperature of the trap.



Stroke Chart

The dashed line shows the standard factory setting.

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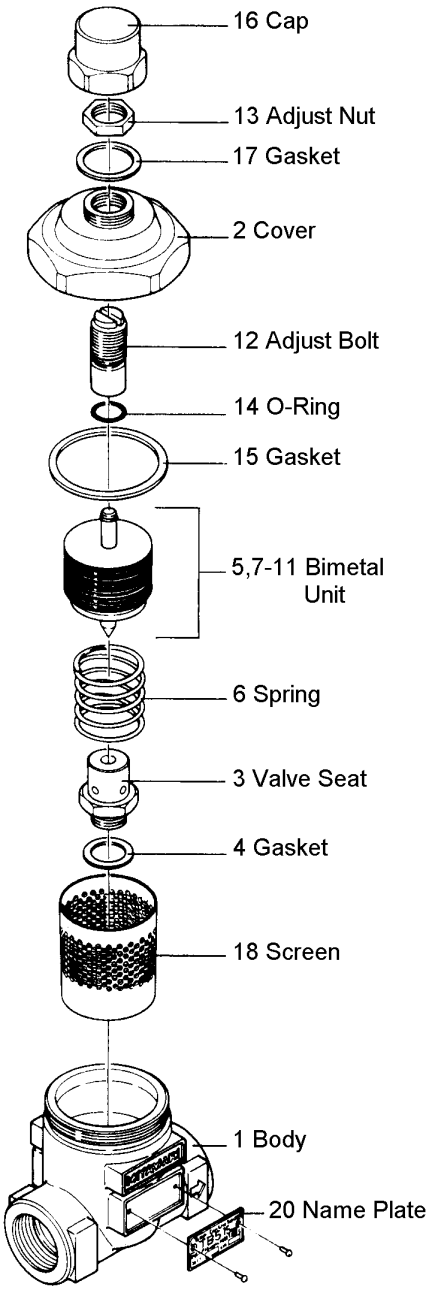
Details



Materials

Parts-No.	Name	Material JIS/ASTM
1	Body	A 105
2	Cover	A 105
3	Valve seat	SUS 304
4	Seat gasket	asbestos free
5, 7-11	Valve & Bimetal Unit	Stainless steel/ Special Alloy
6	Spring	SUS 631J1
12	Adjust bolt	SUS 303
13	Adjust nut	SS 400
14	O-Ring	PTFE
15, 17	Gaskets	asbestos free
16	Cap	SS 400
18	Screen	SUS 304