

THERMOSTATIC STEAM TRAPS AND AIR VENTS MODEL 143-144

For the extraction of steam condensates.

Applicable in: steam piping, heat exchangers,... the chemical and petrochemical industries,... etc.

Specifications

- Materials carefully selected for resistance to wear, extreme temperatures and corrosion.

 Simplicity of construction. A single moveable piece together
- with a bimetallic strip, highly resistant to corrosion to ensure minimum maintenance.
- Easy installation, can be mounted in any position, although we recommend horizontal mounting.
 Compact and robust. Reduced weight and size which facilitates
- storage.
- Internal design of the body is conceived to provide the capacities required in each case without over sizing.
- Great discharge capacity.
- The purger also acts as a deaerator and check valve.

 Precision opening and closing, avoiding loss of steam.
- Silent.
- Inseparable bimetallic strip, made from a single piece, with sides of different expansion mean a high degree of sensitivity of operation.
- Are unaffected by vibrations, water hammer, reheated steam, corrosive condensate, frosts, etc.
- Large surface area filter to protect closure areas.
- Sealing surfaces treated and balanced, making them extremely tightness, even exceeding EN 12266-1.
- All steam traps undergo throrough testing.
- All components are numbered, registered and checked. If requested in advance, material, casting, test and efficiency certificates will be enclosed with the steam trap.

IMPORTANT

Depending on demand:

- Other connections.
- Model BP and MP with external on-line adjustment mechanism.

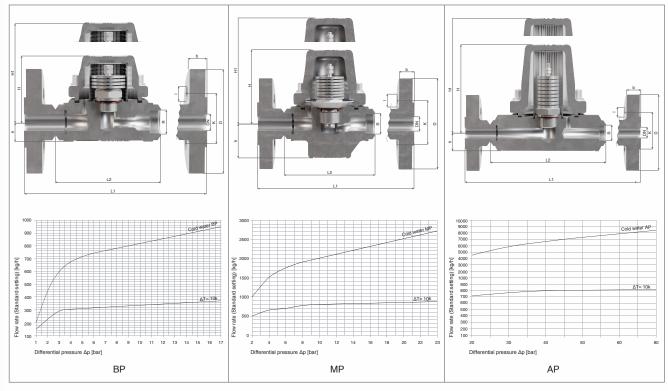


Model 143



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		l°.	PIECE			ERIAL							
	PIE	ECE				N STEEL		BP -9-	MP -9-				
	1 Body			Carbon steel	٠ ,			2-	(2- II-II-II-II				
		2	Cover	Carbon steel	,	. ,			⊒-10				
		3	Seating	Stainless stee				-8	ĒĒ:				
		4	Plug	Stainless stee	I (EN-1.402)	8)		=	5 - 1-12				
		5	Bimetall	RGR									
		6	Joint	Graphite				5 E 12	7-3				
		7 8	Joint Filter	Copper Stainless stee	I /EN 1 420:	4)		-3					
		9	Screw	Carbon steel	,	,		Ī.					
		10	Nut	Stainless stee			I-4	J - @					
		11	Washer	Carbon steel									
		12	Washer	Stainless stee					——————————————————————————————————————				
		13	Flange	Carbon steel									
		14	Plate	Stainless stee									
			TYPE	BP	l N	/IP	AP	d @-					
				LOW PRESSURE MEDIUM PRESSURE			HIGH PRESSURE		(a)				
			R	1/2" and 3/4" 1/2" and 3/4"			1/2" to 1"						
			DN	15 to 25 15 to 25			15 to 25						
			PN	40			100	AP					
	ВР	PN-40	MAX. PRESSURE IN bar	17	17	17	17						
			MAX. TEMP IN °C	50	150	250	400	@- <u></u>	=-10-=				
		150#	MAX. PRESSURE IN bar	17	15,8	12,1	6,5	.					
			MAX. TEMP IN °C	50	150	250	400	®-					
(0		000#	MAX. PRESSURE IN bar	17	17	17	17	"					
Š		300#	MAX. TEMP IN °C	50	150	250	400		3				
	MP	PN-40	MAX. PRESSURE IN bar	23 23 23		23	6	1					
			MAX. TEMP IN °C	50	150	250	400	l					
9		150#	MAX. PRESSURE IN bar	19,2	19,2 15,8 12,1		6,5						
A II			MAX. TEMP IN °C	50	150	250	400	"					
OPERATING CONDITIONS		300#	MAX. PRESSURE IN bar	23	23 23		23	-@					
ō			MAX. TEMP IN °C	50	150	250	400		r(T)				
	AP	PN-100	MAX. PRESSURE IN bar	80	80 80 76		32,8	6					
			MAX. TEMP IN °C	50	150	250	450		-3				
			MAX. PRESSURE IN bar	80	80	76,1	32,8						
		600#	MAX. TEMP IN °C	50	150	250	450		@ U =				

	TYPE		LOW PRESSURE BP					MEDIUM PRESSURE MP					HIGH PRESSURE AP						
		1/2"	3/4"		_		1/2"	3/4"	_		_	1/2"	3/4"	1"			_		
COMME		FION						Whitwo	orth gas-tight o	cylindrical fer	nale thread	ISO 228/1 (E)IN-259)						
00	NNECTION		Thread NPT ANSI/ASME B1.20.1 Welding ends SW ASME B16.11																
	DN			_		20			_	15			_	_	_				
CONNECTION			Flange PN-40 EN-1092-1																
		Flange class 150 lbs ASME/ANSI B1 6.5									Flange PN-100 EN-1092-1 Flange class 600 lbs ASME/ANSI B1 6.5								
			Flange class 300 lbs ASME/ANSI B1 6.5									Hange sides see ibs Admid Arter B1 6.5							
				56		56			115	115			120	120					
Н ₁			91	91	91	91	91	165	165	165	165	165	210	210	210	210	210	210	
			24	24		_		26	26	_			25	25	25				
	L ₁		_	_	150	150	160	_	_	150	150	160	_	_	_	230	230	230	
			90	90		_		110 (1)	110 (1)	_		_	160	160	160			_	
			_	_	95	105	115	_	_	95	105	115	_	_	_	105	130	140	
				_	65	75	85	_	_	65	75	85	_	_	_	75	90	100	
	1		_	_	14	14	14	_	_	14	14	14	_	_	_	14	18	18	
			_	16	18	18	_	_	16	18	18	_	_	_	20		24		
N°. DRILLS		_	_	4	4	4	_	_	4	4	4	_	_	_	4	4	4		
		l Kgs.	1,60	1,50	3,00	3,50	4,00	_	_	3,00	3,50	4,00	6,00	6,00	6,00	9,00	10,0	11,00	
	GAS		143.8024	143.8344	_	_	_	143.802411	143.834411	_	_	_	143.0024	143.0344	143.0104	_	_	_	
		NPT	143.80241	143.83441	_	_	_	143.802412	143.834412	_	_	_	143.00241	143.03441	143.01041	_	_	_	
		SW	143.80242	143.83442	_	_	_	143.802413	143.834413	_	_	_	143.00242	143.03442	143.01042	_	_	_	
	FLANGE	PN-40	_	_	144.8024	144.8344	144.8104	_	_	144.802411	144.834411	144.810411	_	_	_	_	_	_	
CODE 2108		PN-100	_	_	_	_	_	_	_	_	_	_	_	_	_	144.0024	144.0344	144.0104	
		150 lbs	_	_	144.80241	144.83441	144.81041	_	_	144.802412	144.834412	144.810412	_	_	_	_	_	_	
		300 lbs	_	_	144.80242	144.83442	144.81042	_	_	144.802413	144.834413	144.810413	_	_	_	_	_	_	
		600 lbs	_	_		_	_	_	_	_		_	_	_	_	144.00241	144.03441	144.01041	



Operation

The operating principle of the bimetallic steam trap is based on the combination in a column of double sided bimetallic discs made up of one single bimetallic strip, where each face has a different coefficient of expan-

The bimetallic strips are piled up in pairs, with the sides having the same coefficient of expansion (side without the marking) placed against each other.

In the presence of cold water the bimetallic strips remain flat. As the temperature increases the discs change shape, becoming convex, and displacing the plug against the seating. The maximum convexity, which coincides with a fully tight shut off is obtained just at the point when the condensate turns to steam.

It is important to remember that the distance between the plug and the seating when cold is that which determines the flow when in service.



