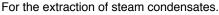
# Rometec srl - www.rometec.it - Rometec srl - www.rometec.it -

Thread connections Flange connections **Model 143** Model 144



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

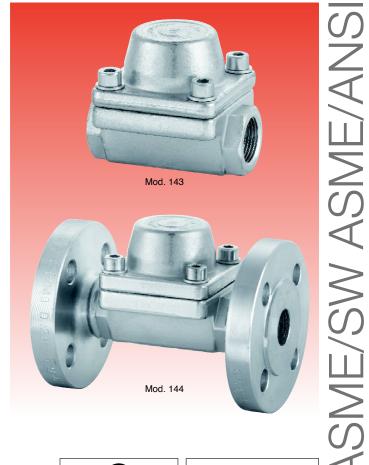
#### **Specifications**

- 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.

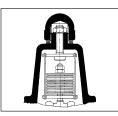
### **IMPORTANT**

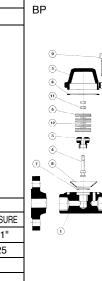
Depending on demand:

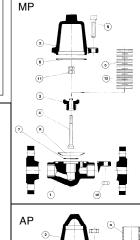
- 1.- Other connections.
- 2.- Model BP and MP with external on-line adjustment mechanism.

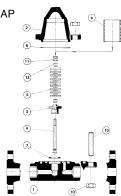


Mod. 144









<del>-Rometec srl</del>

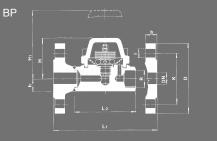


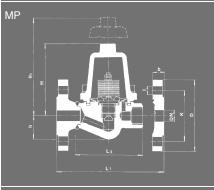
www.rometec.it

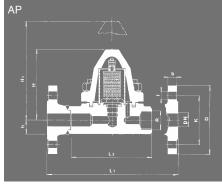
N°	DIFOF	MATERIAL									
PIECE	PIECE	CARBON STEEL									
1	Body	Carbon steel (EN-1.0460) (1)									
2	Cover	Carbon steel (EN-1.0460 ) (1)									
3	Seating	Stainless steel (EN-1.4305)									
4	Plug	Stainless steel (EN-1.4112)									
5	Bimetall	RGR									
6	Joint	Graphite									
7	Joint	Copper									
8	Filter	Stainless steel (EN-1.4301)									
9	Screw Carbon steel (EN-1.1191)										
10	Nut	Carbon steel (EN-1.1141)									
11	Nut	Stainless steel (EN-1.4305) (2)									
12	Washer	Stainless steel (EN-1.4305) (2)									
13	Stud	Stud Carbon steel (EN-1.1191)									
	TYPE	BP	MP	AP							
	ITFE	LOW PRESSURE	MEDIUM PRESSURE	HIGH PRESSURE							
	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								
OPERATING	MAX. PRESSURE IN bar	17	17 23 8								

Rometer CONDITIONS WAX TEMP IN COMMENTS THE CONDITIONS WAX TEMP IN COMMENTS THE CONTROL OF THE CONDITIONS WAX TEMP IN COMMENTS THE CONDITI

	TY		LOW PRESSURE BP				MEDIUM PRESSURE MP			HIGH PRESSURE AP									
Ro	m	etec s	srl= www.rometec.itRomet							- <b>WW</b>	w.ror	netec.	it1/2"	COME	tec si	1 – W	WW.I	ome	tec.
СО	NNE	ECTION	Whitworth gas-tight cylindrical female thread ISO 228/1 1978 (DIN-259) Thread NPT ANSI-B2.1 Welding ends SW ANSI-B16.11																
DN			_	15	20	25	_	-	15	20	25	_	_	-	15	20	25		
СО						Flange	class 150	nge PN-40 EN-1092-1 s 150 lbs ASME/ANSI B1 6.5 s 300 lbs ASME/ANSI B1 6.5					Flange PN-100 EN-1092-1 Flange class 600 lbs ASME/ANSI B1 6.5						
Н		56	56	56	56	56	115	115	115	115	115	120	120	120	120	120	120		
H <sub>1</sub>		91	91	91	91	91	165	165	165	165	165	210	210	210	210	210	210		
h		24	24	_	_	_	26	26	_	_	_	25	25	25	_	_	_		
L <sub>1</sub>		_	_	150	150	160	_	_	150	150	160	_	_	_	230	230	230		
L <sub>2</sub>		90	90	_	_	_	110 (1)	110 (1)	_	_	_	160	160	160	_	_	_		
D		_	_	95	105	115	_	_	95	105	115	_	_	_	105	130	140		
K		_	_	65	75	85	_	_	65	75	85	_	_	_	75	90	100		
1		_	_	14	14	14	_	_	14	14	14	_	_	_	14	18	18		
	b		_	_	16	18	18	_	_	16	18	18	_	_	_	20	22	24	
١	l°DF	RILLS 4 4 4 4 4 4 4				4	4												
WEIGHT IN 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	10,00	11,00		
CODIGO 2108 –		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	_	_	_	
		PN-40	_	_	144.8024	144.8344	144.8104	-	-	144.802411	144.834411	144.810411	_	_	_	_	_	-	96
	GE	PN-100	_	_	_	_	_	_	_	_	_	_	_	_	_	144.0024	144.0344	144.0104	SW L2=90
	FLANGE	150 lbs		_		144.83441		_	_	144.802412	144.834412	144.810412	_	_	_		_		<b>S</b> S
	[d_	300 lbs	_	_	144.80242	144.83442	144.81042	-	-	144.802413	144.834413	144.810413	_	_	_		_		<u>E</u>
		600 lbs	-	_	-	-	-	_	_	_	-	_	_	_	_	144.00241	144.03441	144.01041	

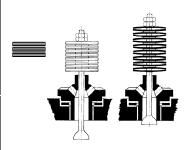






Ron

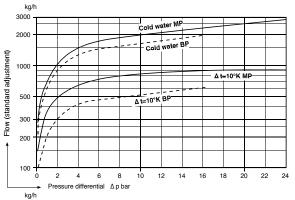
# Flow diagram

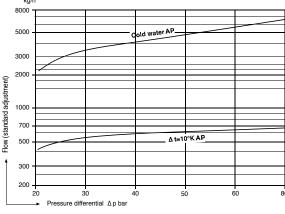


## Operation

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 expansion.

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.



Informative brochure, without obligation and subject to our General Sales Conditions.

www.rometec.it - Rometec srl - www.rometec.it - Rometec srl - www.rometec.it

