Bimetallic steam trap

Thread connections Flange connections

Model 143 Model 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.
- Silen
- 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.

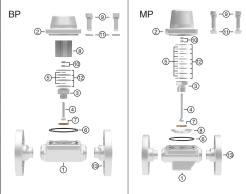


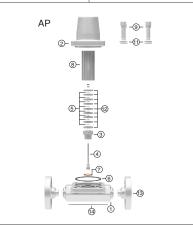
	N°. PIECE		PIECE	MATERIAL								
	PIE			CARBON STEEL								
		1	Body	Carbon steel (EN-1.0460) (1)								
		2	Cover		Carbon steel (EN-1.0460) (1) Stainless steel (EN-1.4305)							
		3	Seating									
		4	Plug		steel (EN-1.4028	3)						
		5 6	Bimetall Joint	RGR								
		7	Joint	Graphite Copper								
		8	Filter Stainless steel (EN-1.4301) Screw Carbon steel (EN-1.1191)									
		9		* * * * * * * * * * * * * * * * * * * *								
		10	Nut	Stainless steel (EN-1.4401)								
11			Washer		eel (EN-1.1141)	,						
12			Washer	Stainless steel (EN-1.4401)								
13			Flange	Carbon steel (EN-1.0460)								
		14	Plate	Stainless s	Stainless steel (EN-1.4301)							
			TYPE	BP LOW PRESSU		IP PRESSURE	HIGH	AP I PRESSURE				
			R	1/2" and 3/4	" 1/2" a	nd 3/4"		1/2" to 1"				
			DN	15 to 25	15 to 25 15 to		o 25 15 to 25					
			PN	40	40 4			100				
		PN-40	MAX. PRESSURE IN bar	17	17	17		17				
	BP		MAX. TEMP IN °C	50	150	250		400				
		150#	MAX. PRESSURE IN bar	17	15,8	12,1		6,5				
			MAX. TEMP IN °C	50	150	250		400				
(0		300#	MAX. PRESSURE IN bar	17	17	17		17				
NO NO			MAX. TEMP IN °C	50	150	250		400				
ᆸ		DN 40	MAX. PRESSURE IN bar	23	23	23		23				
OPERATING CONDITIONS		PN-40	MAX. TEMP IN °C	50	150	250		400				
9	MP	150#	MAX. PRESSURE IN bar	19,2	15,8	12,1		6,5				
\ATI	IVIP	150#	MAX. TEMP IN °C	50	150	250		400				
世		000#	MAX. PRESSURE IN bar	23	23	23		23				
0		300#	MAX. TEMP IN °C	50	150	250		400				
		PN-100	MAX. PRESSURE IN bar	80	80	76,1		32,8				
	ΔP	PIN-100	MAX. TEMP IN °C	50	150	250		450				

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MAX_PRESSURE IN har

600#

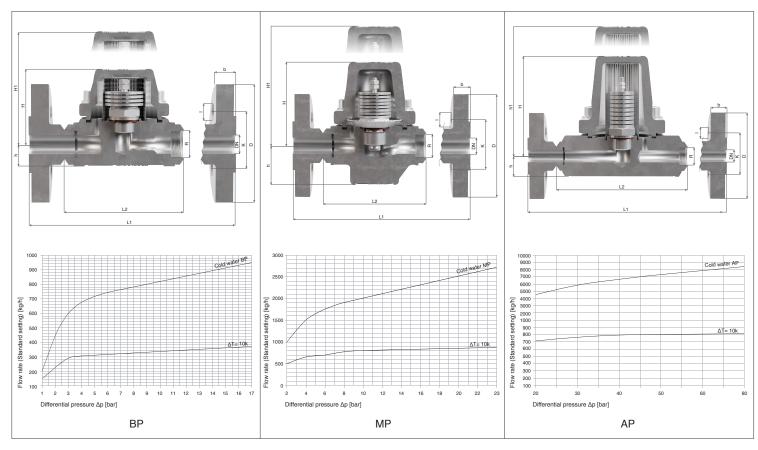




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	TYPE		LOW PRESSURE BP					MEDIUM PRESSURE MP					HIGH PRESSURE AP						
R		1/2"	3/4"	_	_	_	1/2"	3/4"	_	_	_	1/2"	3/4"	1"	_	_	_		
00	NINIECT	FION	Whitworth gas-tight cylindrical female thread ISO 228/1 (DIN-259)																
CONNECTION		Thread NPT ANSI/ASME B1.20.1 Welding ends SW ASME B16.11																	
DN		_	_	15	20	25	_	_	15	20	25		_	_	15	20	25		
				Flange PN-40 EN-1092-1 Flange PN-100 EN-1092-1															
CONNECTION		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																	
Н			56	56	56		56			115	115					120		120	
H ₁		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 ₁		_	_	150	150	160	_	_	150	150	160	_	_	_	230	230	230	
	L ₂		90	90	_		_			_	_					_			
	D		_	_	95	105	115	_	_	95	105	115	_	_	_	105	130	140	
	K		_	_	65		85			65						75		100	
	1		_	_	14	14	14	_	_	14	14	14	_	_	_	14	18	18	
	b		_	_	16	18	18	_		16	18	18		_	_	20	22	24	
	N°. DRILLS		_	_	4	4	4	_	_	4	4	4		_	_	4	4	4	
WEI	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	10,0	11,00	
		GAS	143.8024	143.8344		_	_		1 143.834411		_	_	143.0024	143.0344	143.0104	_			
		NPT	143.80241	143.83441	_	_	_		2 143.834412		_	_	143.00241	143.03441	143.01041	_	_		
- 80		SW	143.80242	143.83442	_	_	_	143.80241	3 143.834413	_	_	_	143.00242	143.03442	143.01042	_	_		
210		PN-40	_	_	144.8024	144.8344	144.8104		<u> </u>	144.802411	144.834411	144.810411		_	_	_	_		
CODE 2108	FLANGE	PN-100	_	_	_	_	_	_		_	_			_	_	144.0024	144.0344	144.0104	
		150 lbs	_	_	144.80241	144.83441	144.81041	_				144.810412		_	_	_	_		
		300 lbs	_		144.80242	144.83442	144.81042	_		144.802413	144.834413	144.810413			_				
		600 lbs	_	_	_	_	_	_	 	_	_	<u> </u>	_	_	_	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 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.





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