

BIMETALLIC STEAM TRAPS AND AIR VENTS BM–HC

DESCRIPTION

The BM–HC series of bimetallic steam traps and air vents are simple and robust traps, recommended for process applications where high loads are involved.

Tailor made to meet application requirements and supplied with several bimetallic regulators in order to achieve the required discharge capacity for the application in hands.

MAIN FEATURES

- Modulating discharge.
- Discharges condensate below steam temperature.
- Excellent air discharge.
- Operates on superheated steam.
- Unaffected by water hammer and vibrations.

OPTIONS: Complete stainless steel construction.
Different capacities and designs.

USE: Saturated and superheated steam.

AVAILABLE MODELS: BM...HC04; BM...HC05; BM...HC06;
BM...HC08; BM...HC10.

SIZES: 1 1/2" to 5"; DN 40 to DN 125.

CONNECTIONS: Flanged EN 1092-1 PN 63.
Flanged ASME B16.5 Class 900.

INSTALLATION: Vertical installation.
See IMI – Installation and maintenance instructions.



CE MARKING – GROUP 2 (PED – European Directive)

Rating	Model *	Category	Rating	Model *	Category	Rating	Model *	Category
PN 16	BM...HC04	SEP	PN 40	BM...HC04	1	PN 63	BM...HC04	1
	BM...HC05	SEP		BM...HC05	1		BM...HC05	1
	BM...HC06	SEP		BM...HC06	1		BM...HC06	1
	BM...HC08	1		BM...HC08	2		BM...HC08	2
	BM...HC10	2		BM...HC10	2		–	–

* All sizes belonging to the same model are within the same category.

BODY LIMITING CONDITIONS *

RATING	ALLOW. PRESS.	RELATED TEMP.	RATING	ALLOW. PRESS.	RELATED TEMP.	RATING	ALLOW. PRESS.	RELATED TEMP.	RATING	ALLOW. PRESS.	RELATED TEMP.
PN 16	16 bar	50 °C	CLASS 150	16 bar	50 °C	PN 40 / CLASS 300	40 bar	50 °C	PN 63 / CLASS 600	63 bar	50 °C
	14 bar	100 °C		14 bar	100 °C		37 bar	100 °C		58 bar	100 °C
	13 bar **	195 °C		13 bar **	195 °C		31 bar **	239 °C		47 bar **	261 °C
	12 bar	250 °C		–	–		27 bar	300 °C		43 bar	300 °C

* Rating according to EN 1092-1:2018; ** Maximum operating pressure for saturated steam.
PMO – Maximum operating pressure: 63 bar; TMO – Maximum operating temperature: 300 °C.
Minimum operating temp.: -10 °C; Design code: AD – Merkblatt.

DIMENSIONS (mm)

MODEL	SIZE			Max. n° of reg. *	PN 16			PN 40			PN 63		
	PN 16	PN 40	PN 63		A	B	WGT. **	A	B	WGT. **	A	B	WGT. **
BM (a) HC04-(b)	11/2" and 2" DN 40 and 50	11/2" and 2" DN 40 and 50	11/2" and 2" DN 40 and 50	3	241	220	19,2	259	235	25	301	250	38,5
BM (a) HC05-(b)	2" and 21/2" DN 50 and 65	2" and 21/2" DN 50 and 65	2" and 21/2" DN 50 and 65	6	242	250	24,3	281	270	35	325	295	51,3
BM (a) HC06-(b)	21/2" and 3" 65 and 80	21/2" and 3" 65 and 80	21/2" and 3" 65 and 80	8	262	285	32,9	317	300	46,4	358	345	72,4
BM (a) HC08-(b)	21/2" and 3" 65 and 80	21/2" and 3" 65 and 80	21/2" and 3" 65 and 80	14	311	340	49,6	367	375	82	413	415	111,7
BM (a) HC10-(b)	5" DN 125	21/2" and 3" 65 and 80	–	20	386	405	81,7	430	450	126,5	–	–	–

(a) Insert the regulator type, selected from a single steam trap regulator DN40–50 (BM24 or BM32) or DN15–25 (BM35, 45, 80 and 140);
(b) Insert the number of regulators according to the desired flow rate and maximum permissible number mentioned in the next column.

* Maximum number of regulators per model; ** Weights in kg.

How to order: BM32HC06-6 DN 80 PN 40 – High capacity bimetallic steam trap with six BM32 DN 40/50 regulators.

Remarks: The operating limit conditions can never be superior to those of the body, regardless of which regulators are chosen.

If the selected regulator is intended to work above the operating conditions mentioned in this information sheet, please consult manufacturer for an alternative.

MATERIALS

POS. N°	DESIGNATION	MATERIAL
1	Body cap	EN 10028-2 / P265GH / 1.0425
2	Tube cover	EN 10216-2 / P235GH / 1.0325
3	EN flanges	EN 10222-2 / P250GH / 1.0460
3	ASME flanges	ASTM A105 / 1.0432
4	Body flanges	EN 10222-2 / P250GH / 1.0460
5	* Gasket	Stainless steel / Graphite
6	* Bimetallic regulator	Corrosion resistant bimetal; Stainless steel
7	Studs	Steel 8.8
8	Nuts	Steel 8.8

* Available spare parts.

