

BIMETALLIC STEAM TRAPS AND AIR ELIMINATORS BM - HC (High capacity) (1 1/2" – 5"; DN 40 – DN 125)

DESCRIPTION

The BM-HC series bimetallic steam traps and air eliminators are simple and robust traps, recommended for large process applications. They can be supplied with several bimetallic regulators achieving the requested flow rate. Connections are flanged as standard (others on request).

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:** BM24HC...; BM32HC...; BM35HC...etc.
- SIZES:** 1 1/2" to 5" ; DN40 to DN125 .
- CONNECTIONS:** Flanged EN 1092-1 or ANSI.
- INSTALLATION:** Vertical installation.
- SIZING:** Consult factory including all the operating details.

PS – Operating pressure: Up to 63 bar.
TS – Operating temperature: Up to 300 °C.
Higher pressures and temperatures on request.



CE MARKING – GROUP 2 (PED – EUROPEAN DIRECTIVE)

Rating	Model *	Category	Rating	Model *	Category	Rating	Model *	Category
PN16	BM...HC04	SEP	PN40	BM...HC04	1	PN63	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 (DN) belonging to the same model, have the same category.

BODY LIMITING CONDITIONS **

Rating	Press. (bar)	Temp. (°C)	Rating	Press. (bar)	Temp. (°C)	Rating	Press. (bar)	Temp. (°C)	Rating	Press. (bar)	Temp. (°C)
PN16	16	50	ANSI Cl. 150 lb	16	50	PN40 ANSI Cl. 300 lb	40	50	PN63 ANSI Cl. 600 lb	63	50
	14	100		14	100		37	100		58	100
	13 *	195		13 *	195		31 *	239		47 *	261
	12	250		-	-		27	300		43	300

* Max. operating pressure for saturated steam. Minimum operating temp.: -10 °C. Design code: AD-Merkblatt.

** Rating according to EN1092:2018.

MODELS AND DIMENSIONS (mm)

MODEL	* Max. n° reg.	DN PN16	DN PN40	DN PN63	A PN16	A PN40	A PN63	B PN16	B PN40	B PN63	WEIGHT PN16 **	WEIGHT PN40 **	WEIGHT PN63 **
BM (a)HC04-(b)	3	40 – 50	40 – 50	40 – 50	241	259	301	220	235	250	19,2	25	38,5
BM (a)HC05-(b)	6	50 – 65	50 – 65	50 – 65	242	281	325	250	270	295	24,3	35	51,3
BM (a)HC06-(b)	8	65 – 80	65 – 80	65 – 80	262	317	358	285	300	345	32,9	46,4	72,4
BM (a)HC08-(b)	14	65 – 80	65 – 80	65 – 80	311	367	413	340	375	415	49,6	82	111,7
BM (a)HC10-(b)	20	125	65 – 80	/	386	430	/	405	450	/	81,7	126,5	/

(a) – Insert the regulator type, selected from a single steam trap regulator DN 40 – 50 (BM24 or BM32) or DN 15 – 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.

** Consult factory for certified dimensions and weights (weights in kg).

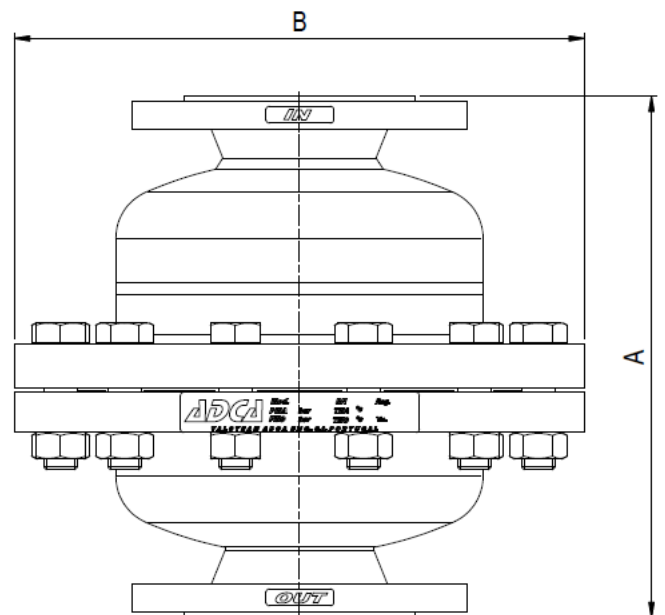
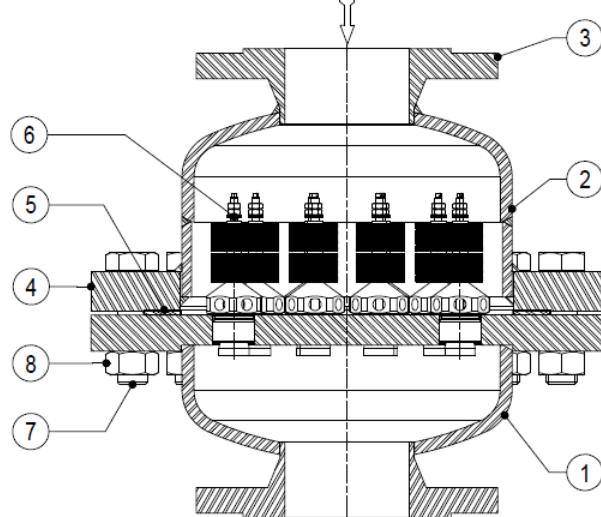
How to order:

BM32HC06-6 DN 80 PN40 (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 catalog, please consult the factory for an alternative.



MATERIALS

POS. N°	DESIGNATION	MATERIAL
1	Body cap	EN10028-2 / P265GH / 1.0425
2	Tube cover	EN10216-2 / P235GH / 1.0325
3	EN flanges	EN10222-2 / P250GH / 1.0460
3	ANSI flanges	ASTM A105 / 1.0432
4	Body flanges	EN10222-2 / P250GH / 1.0460
5	* Gasket	Stainless steel / Graphite
6	* Regulator	Bimetal
7	Studs	Steel 8.8
8	Nuts	Steel 8.8

* Available spare parts.