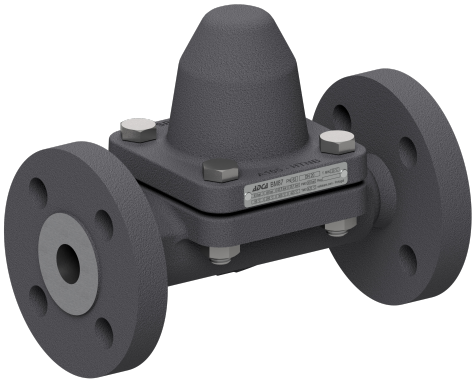
BIMETALLIC STEAM TRAPS AND AIR VENTS
BM87

DESCRIPTION

The BM87 is a series of robust and efficient bimetallic steam traps and air vents. These steam traps are recommended for steam process applications where sensible heat can be recovered, such as steam tracing lines, drip points, storage tank coils and steam air venting.



MAIN FEATURES

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

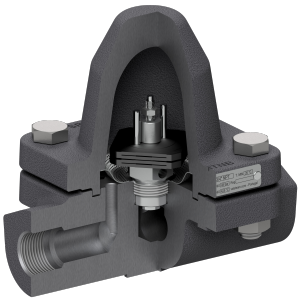
USE: Saturated and superheated steam.

AVAILABLE MODELS: BM87 – carbon steel.

SIZES: 1/2" to 1"; DN 15 to DN 25.

CONNECTIONS: Female threaded ISO 7 Rp or NPT.
Flanged EN 1092-1 PN 63.
Flanged ASME B16.5 Class 300 or 600.
Socket weld (SW) ASME B16.11.
Butt weld (BW) ASME B16.25.

INSTALLATION: Inline horizontal installation is recommended. See IMI – Installation and maintenance instructions.



CE MARKING – GROUP 2 (PED – European Directive)	
PN 63	**Category**
1/2" to 1" – DN 15 to 25	SEP

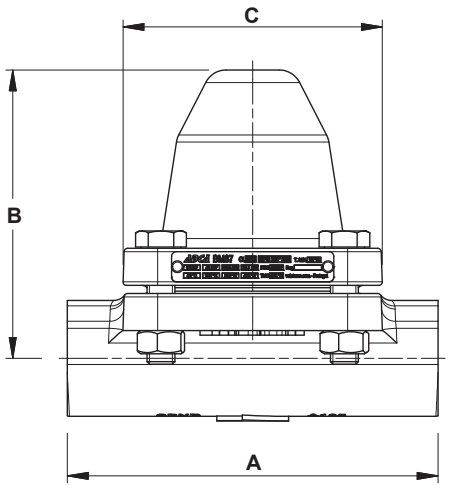
BODY LIMITING CONDITIONS		
FLANGED PN 63 / CLASS 600 *	**FLANGED CLASS 300 ****	**RELATED TEMP.**
ALLOWABLE PRESSURE	**ALLOWABLE PRESSURE**	
63 bar	50 bar	50 ºC
48 bar	41,8 bar	250 ºC
43,5 bar	38,9 bar	300 ºC
29,1 bar	28,7 bar	425 ºC

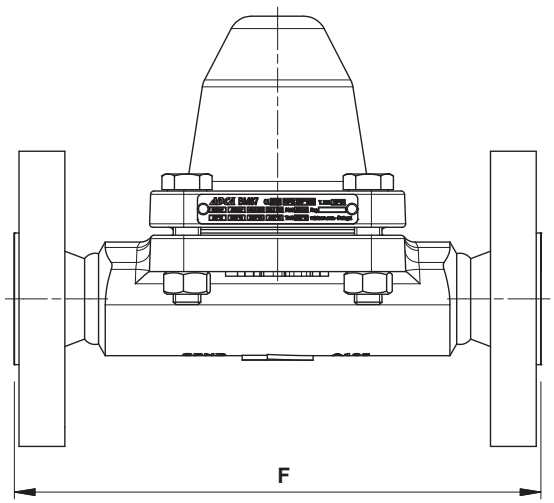
PMO – Maximum operating pressure: 45 bar.
TMO – Maximum operating temperature: 425 ºC.
* Acc. to EN 1092-1:2018. ** Acc. to EN 1759-1:2004.
Body limiting conditions PN 63 or below, depending on the type of connection adopted. Rating PN 63 for threaded, SW and BW versions.

We reserve the right to change the design and material of this product without notice.

FLOW RATE CAPACITY (kg/h)											
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)									
		4	6	8	10	15	20	25	30	40	45
BM87	1/2" to 1" A DN 15 to 25 A	150	230	280	320	390	430	480	500	580	590
BM87	1/2" to 1" B DN 15 to 25 B	1300	1600	1800	2000	2300	2660	2900	3100	3900	4100

A: Condensate discharge at 10 ºC below saturation temperature; **B:** Cold water capacity around 20 ºC.



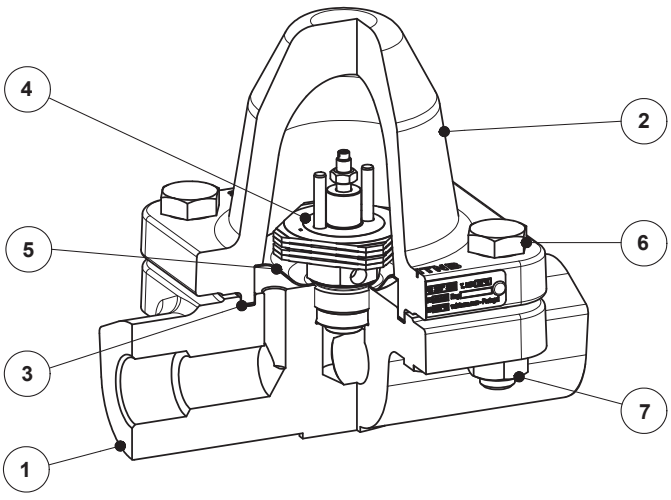


DIMENSIONS (mm)										
SIZE	THREADED / SW / BW *				PN 63		CLASS 300		CLASS 600	
	A	B	C	WEIGHT (kg)	F **	WEIGHT (kg)	F **	WEIGHT (kg)	F **	WEIGHT (kg)
1/2" – DN 15	160	125	112	6,2	210	8,3	230	7,6	230	7,8
3/4" – DN 20	160	125	112	6,1	230	10	230	8,6	230	8,9
1" – DN 25	160	125	112	6	230	11,2	230	9,1	230	9,4

* In case of BW connections please indicate pipe dimensions when ordering. Body limiting conditions may be restricted by the BW end wall thickness. Consult the manufacturer.
** Different face to face dimensions on request.

MATERIALS		
POS. Nº	DESIGNATION	MATERIAL
1	Body	A105 / 1.0432 (Equiv. P250GH)
2	Cover	A105 / 1.0432 (Equiv. P250GH)
3	* Gasket	Stainless steel / Graphite
4	* Bimetallic regulator	Corrosion resistant bimetal; Stainless steel
5	* Strainer screen	AISI 304 / 1.4301
6	Bolts	A193 Gr. B7
7	Nuts	A194 Gr. 2H

* Available spare parts.



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