

BIMETALLIC STEAM TRAPS AND AIR VENTS BSS20

DESCRIPTION

The BSS20 all stainless steel bimetallic steam traps and air vents are simple and robust traps, specially suited for instrument tracing, line tracing applications and where condensate sensible heat can be recovered. The use of condensate sensible heat reduces steam consumption.

The BSS20 is especially suitably for air venting applications.

MAIN FEATURES

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

USE: Saturated and superheated steam.

AVAILABLE MODELS: BSS20 – stainless steel.

SIZES: 1/2".

CONNECTIONS: Female threaded ISO 7 Rp or NPT.

INSTALLATION: Horizontal or vertical installation.
See IMI – Installation and maintenance instructions.



BODY LIMITING CONDITIONS	
THREADED PN 40 ALLOWABLE PRESSURE	RELATED TEMPERATURE
34,4 bar	100 °C
30,8 bar	150 °C
28 bar	200 °C
26 bar	250 °C

PMO – Maximum operating pressure: 20 bar.
TMO – Max. operating temperature: 250 °C.

CE MARKING – GROUP 2 (PED – European Directive)

PN 40	Category
1/2"	SEP

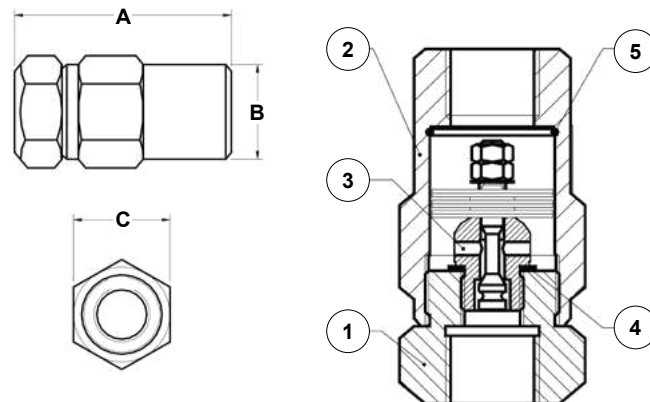
FLOW RATE CAPACITY (kg/h)

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		0,6	1	2	3	4	5	6	7	8	10	13	15	20
BSS20	1/2" A	45	65	100	130	155	170	195	205	220	245	255	270	330
BSS20	1/2" B	150	230	350	440	490	540	630	650	680	730	820	980	1120

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

DIMENSIONS (mm)

SIZE	A	B	C	WEIGHT (kg)
1/2"	80	35	36	0,42



MATERIALS

POS. N°	DESIGNATION	MATERIAL
1	Body	AISI 304 / 1.4301
2	Cover	AISI 304 / 1.4301
3	* Bimetallic regulator	Corrosion resistant bimetall; Stainless steel
4	* Gasket	AISI 304 / 1.4301
5	* Strainer cover	AISI 304 / 1.4301

* Available spare parts.

BIMETALLIC STEAM TRAPS AND AIR VENTS BM20

DESCRIPTION

The BM20 series bimetallic steam traps and air vents are simple and robust traps, recommended for steam process applications where condensate sensible heat can be recovered, steam tracing lines, drip points, storage tank coils, steam air venting, etc. The use of condensate sensible heat reduces steam consumption.

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.

OPTIONS: Blowdown valve.

USE: Saturated and superheated steam.

AVAILABLE MODELS: BM20 – 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 40.
Flanged ASME B16.5 Class 150 or 300.
Socket weld (SW) ASME 16.11.
Butt weld (BW) ASME B16.25 on request.

INSTALLATION: Horizontal installation recommended, can be installed in any position.
See IMI – Installation and maintenance instructions.



BODY LIMITING CONDITIONS

FLANGED PN 40 / CLASS 300 * ALLOWABLE PRESSURE	FLANGED CLASS 150 ** ALLOWABLE PRESSURE	RELATED TEMP.
40 bar	19,3 bar	50 °C
35 bar	15,8 bar	150 °C
30,4 bar	12,1 bar	250 °C
27,6 bar	10,2 bar	300 °C

PMO – Max. operating pressure: 17 bar.
TMO – Max. operating temperature: 250 °C.
* Acc. to EN 1092-1:2018. ** Acc. to EN 1759-1:2004.
Body limiting conditions PN 40 or below, depending on the type of connection adopted. Rating PN 40 for threaded, SW and BW versions.

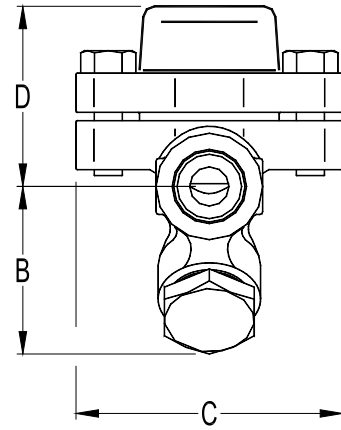
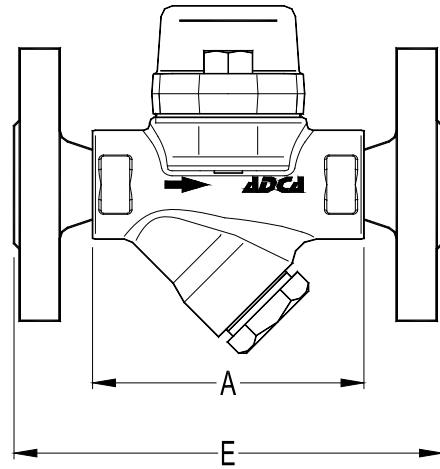
CE MARKING – GROUP 2 (PED – European Directive)

PN 40	Category
1/2" to 1" – DN 15 to 25	SEP

FLOW RATE CAPACITY (kg/h)

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)									
		0,5	1	2	4	6	8	10	12	14	17
BM20	1/2" to 1" A DN 15 to 25 A	125	200	320	410	445	485	500	540	580	600
BM20	1/2" to 1" B DN 15 to 25 B	450	700	1000	1220	1340	1450	1560	1650	1780	1850

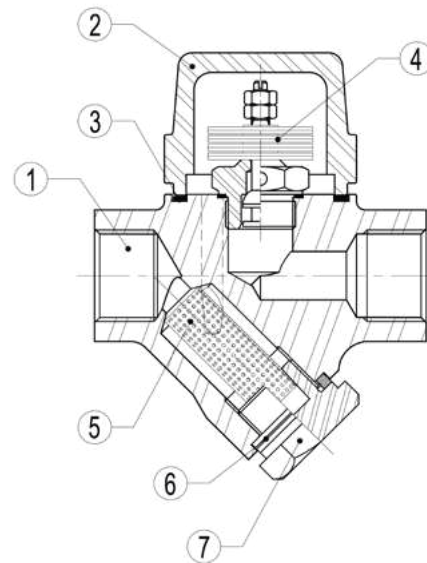
A: Condensate discharge at 10 °C below saturation temperature; B: Cold water capacity around 20 °C.



DIMENSIONS (mm)											
SIZE	THREADED / SW				WEIGHT (kg)	PN 40		CLASS 150		CLASS 300	
	A	B	C	D		E	WEIGHT (kg)	E	WEIGHT (kg)	E	WEIGHT (kg)
1/2" – DN 15	95	59	95	65	1,6	150	3,2	150	2,7	150	3,5
3/4" – DN 20	95	59	95	65	1,6	150	3,9	150	3,1	150	4,7
1" – DN 25	95	65	95	65	1,8	160	4,7	160	4,3	160	5,9

MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	P250GH / 1.0460
2	Cover	P250GH / 1.0460
3	* Gasket	Stainless steel / Graphite
4	* Valve assembly	Bimetallic
5	* Strainer screen	AISI 304 / 1.4301
6	* Gasket	Stainless steel / Graphite
7	* Strainer cover	A105 / 1.0432
8	Bolts	Stainless steel A2-70

* Available spare parts.



BIMETALLIC STEAM TRAPS AND AIR VENTS BM20i

DESCRIPTION

The BM20i 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.

OPTIONS: Blowdown valve.

USE: Saturated and superheated steam.

AVAILABLE MODELS: BM20i – stainless steel.

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

CONNECTIONS: Female threaded ISO 7 Rp or NPT.
Flanged EN 1092-1 PN 40.
Flanged ASME B16.5 Class 150 or 300.
Socket weld (SW) ASME 16.11.
Butt weld (BW) ASME B16.25 on request.

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



CE MARKING – GROUP 2 (PED – European Directive)

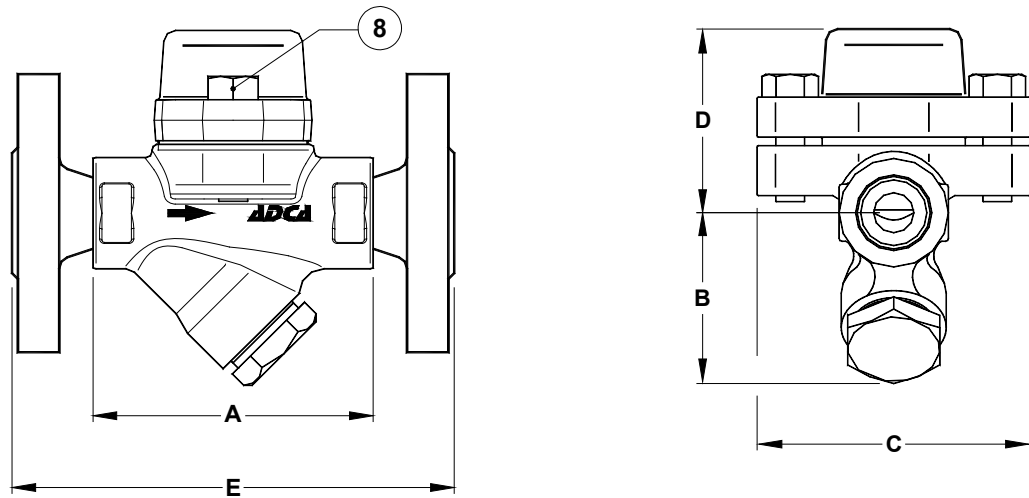
PN 40	Category
1/2" to 1" – DN 15 to 25	SEP

BODY LIMITING CONDITIONS			
FLANGED PN 40 * ALLOW. PRESSURE	FLANGED CLASS 150 ** ALLOW. PRESSURE	FLANGED CLASS 300 ** ALLOW. PRESSURE	RELAT. TEMP.
40 bar	15,3 bar	39,9 bar	50 °C
34,4 bar	12 bar	31,3 bar	150 °C
29,9 bar	10,2 bar	26,6 bar	250 °C
27,6 bar	9,7 bar	25,2 bar	300 °C

PMO – Max. operating pressure: 17 bar.
TMO – Max. operating temperature: 250 °C.
* Acc. to EN 1092-1:2018. ** Acc. to EN 1759-1:2004.
Body limiting conditions PN 40 or below, depending on the type of connection adopted. Rating PN 40 for threaded, SW and BW versions.

FLOW RATE CAPACITY (kg/h)											
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)									
		0,5	1	2	4	6	8	10	12	14	17
BM20i	1/2" to 1" A DN 15 to 25 A	125	200	320	410	445	485	500	540	580	600
BM20i	1/2" to 1" B DN 15 to 25 B	450	700	1000	1220	1340	1450	1560	1650	1780	1850

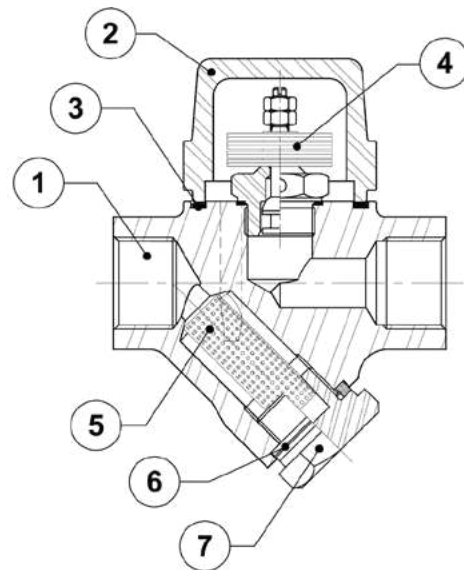
A: Condensate discharge at 10 °C below saturation temperature; B: Cold water capacity around 20 °C.



DIMENSIONS (mm)											
SIZE	THREADED / SW				WEIGHT (kg)	PN 40		CLASS 150		CLASS 300	
	A	B	C	D		E	WEIGHT (kg)	E	WEIGHT (kg)	E	WEIGHT (kg)
1/2" – DN 15	95	59	95	65	1,6	150	3,2	150	2,7	150	3,5
3/4" – DN 20	95	59	95	65	1,6	150	3,9	150	3,1	150	4,7
1" – DN 25	95	65	95	65	1,8	160	4,7	160	4,3	160	5,9

MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	AISI 316L / 1.4404
2	Cover	AISI 316L / 1.4404
3	* Gasket	Stainless steel / Graphite
4	* Valve assembly	Bimetallic
5	* Strainer screen	AISI 304 / 1.4301
6	* Gasket	Stainless steel / Graphite
7	* Strainer cover	AISI 303 / 1.4305
8	Bolts	Stainless steel A2-70

* Available spare parts.



BIMETALLIC STEAM TRAPS AND AIR VENTS BM20R

DESCRIPTION

The BM20R series bimetallic steam traps and air vents are simple and robust traps, recommended for steam process applications where condensate sensible heat can be recovered, steam tracing lines, drip points, storage tank coils, steam air venting, etc. The use of condensate sensible heat reduces steam consumption.

MAIN FEATURES

- Modulating discharge.
- Discharges condensate below steam temperature. Easy condensate temperature adjustment without disconnecting the trap from the piping.
- Independent valve and seat placed in the low velocity flow area reduces erosion and extends product life.
- Low maintenance costs consequence of the split regulator design.
- Excellent air discharge.
- Freeze protection of condensate lines.
- Operates on superheated steam.
- Unaffected by water hammer and vibrations.
- Built-in strainer.

OPTIONS: Blowdown valve.
Seat with check valve.

USE: Saturated and superheated steam.

AVAILABLE MODELS: BM20R – carbon steel, with external adjustable temperature control.

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

CONNECTIONS: Female threaded ISO 7 Rp or NPT.
Flanged EN 1092-1 PN 40.
Flanged ASME B16.5 Class 150 or 300.
Socket weld (SW) ASME 16.11.
Butt weld (BW) ASME B16.25 on request.

INSTALLATION: Horizontal installation recommended, can be installed in any position.
See IMI – Installation and maintenance instructions.

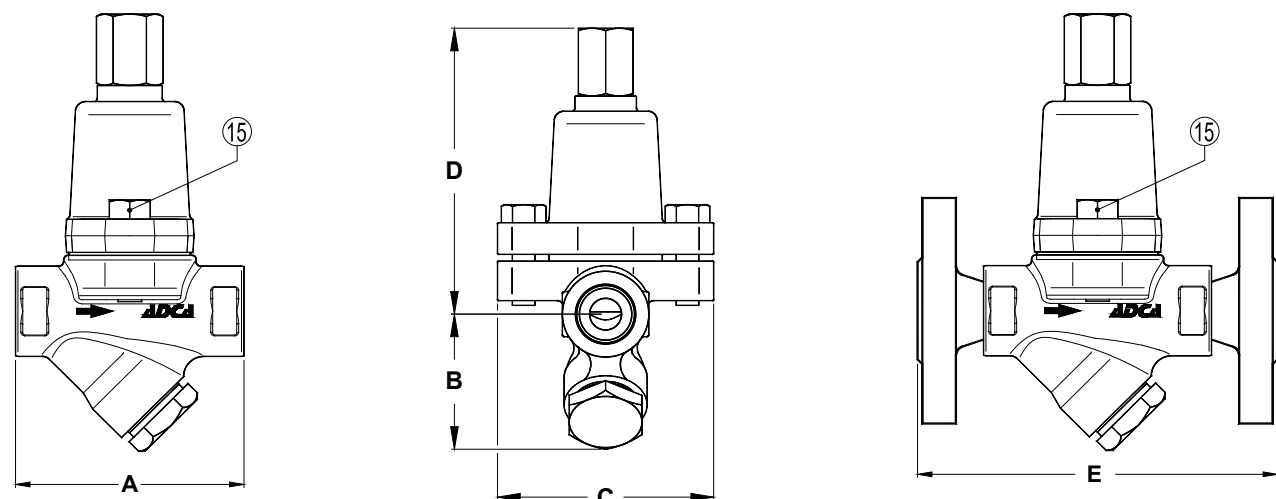


BODY LIMITING CONDITIONS		
FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
40 bar	19,3 bar	50 °C
35 bar	15,8 bar	150 °C
30,4 bar	12,1 bar	250 °C
27,6 bar	10,2 bar	300 °C

PMO – Max. operating pressure: 17 bar.
TMO – Max. operating temperature: 250 °C.
* Acc. to EN 1092-1:2018. ** Acc. to EN 1759-1:2004.
Body limiting conditions PN 40 or below, depending on the type of connection adopted. Rating PN 40 for threaded, SW and BW versions.

FLOW RATE CAPACITY (kg/h)												
MODEL	SIZE	TEMP. (°C) *	DIFFERENTIAL PRESSURE (bar)									
			0,5	1	2	4	6	8	10	12	14	17
BM20R	1/2" to 1" DN 15 to 25	10 **	125	200	320	410	445	485	500	540	580	600
BM20R	1/2" to 1" DN 15 to 25	20	200	300	440	550	580	600	620	670	700	720
BM20R	1/2" to 1" DN 15 to 25	40	380	500	700	970	990	1010	1050	1100	1130	1180
BM20R	1/2" to 1" DN 15 to 25	Cold	530	700	1210	1230	1320	1440	1650	1730	1780	1840

* Condensate discharge temperature below saturation temperature; ** Standard factory setting.



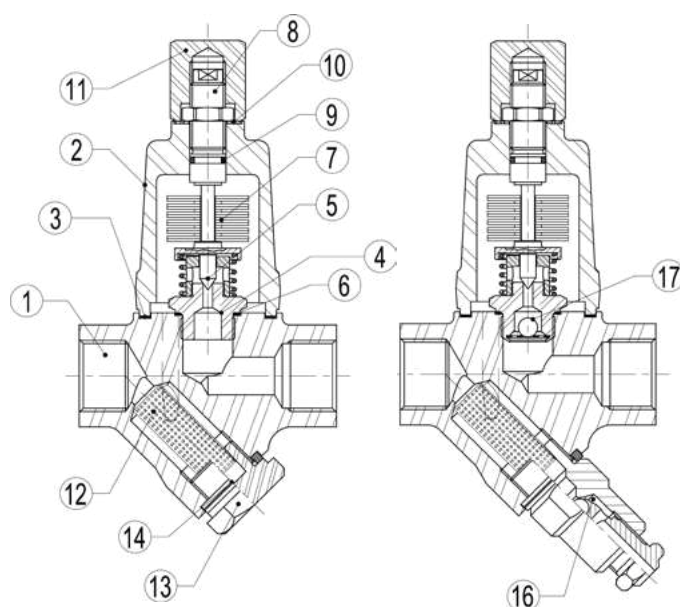
DIMENSIONS (mm)

SIZE	THREADED / SW				WEIGHT (kg)	PN 40		CLASS 150		CLASS 300	
	A	B	C	D		E	WEIGHT (kg)	E	WEIGHT (kg)	E	WEIGHT (kg)
1/2" – DN 15	95	59	95	125	2,3	150	3,9	150	3,4	150	4,2
3/4" – DN 20	95	59	95	125	2,3	150	4,7	150	3,9	150	5,5
1" – DN 25	95	65	95	125	2,5	160	5,1	160	4,7	160	6,3

MATERIALS

POS. N°	DESIGNATION	MATERIAL
1	Body	P250GH / 1.0460
2	Cover	P250GH / 1.0460
3	* Gasket	Stainless steel / Graphite
4	* Seat	Hardened stainless steel
5	* Plug	Hardened stainless steel
6	* Seat gasket	Copper
7	* Regulator	Bimetal
8	Adjusting screw	AISI 304 / 1.4301
9	Seal ring	Viton
10	* Gasket	Copper
11	Cap nut	AISI 304 / 1.4301
12	* Strainer screen	AISI 304 / 1.4301
13	Strainer cover	A 105 / 1.0432
14	* Gasket	Stainless steel / Graphite
15	Bolts	Stainless steel A2-70
16	* Blowdown valve	AISI 304 (see IS 1.150)
17	Ball check valve	AISI 440C / 1.4125

* Available spare parts.



BIMETALLIC STEAM TRAPS AND AIR VENTS
BM24
(1/2" – 1"; DN 15 – 25)

DESCRIPTION

The BM24 series bimetallic steam traps and air vents are simple and robust traps, recommended for steam process applications where condensate sensible heat can be recovered, steam tracing lines, drip points, storage tank coils, steam air venting, etc. The use of condensate sensible heat reduces steam consumption.

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.

OPTIONS: Blowdown valve.

USE: Saturated and superheated steam.

AVAILABLE MODELS: BM24 – 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 40.
Flanged ASME B16.5 Class 150 or 300.
Socket weld (SW) ASME 16.11.
Butt weld (BW) ASME B16.25 on request.

INSTALLATION: Horizontal installation recommended, can be installed in any position.
See IMI – Installation and maintenance instructions.



CE MARKING – GROUP 2 (PED – European Directive)

PN 40	Category
1/2" to 1" – DN 15 to 25	SEP

BODY LIMITING CONDITIONS

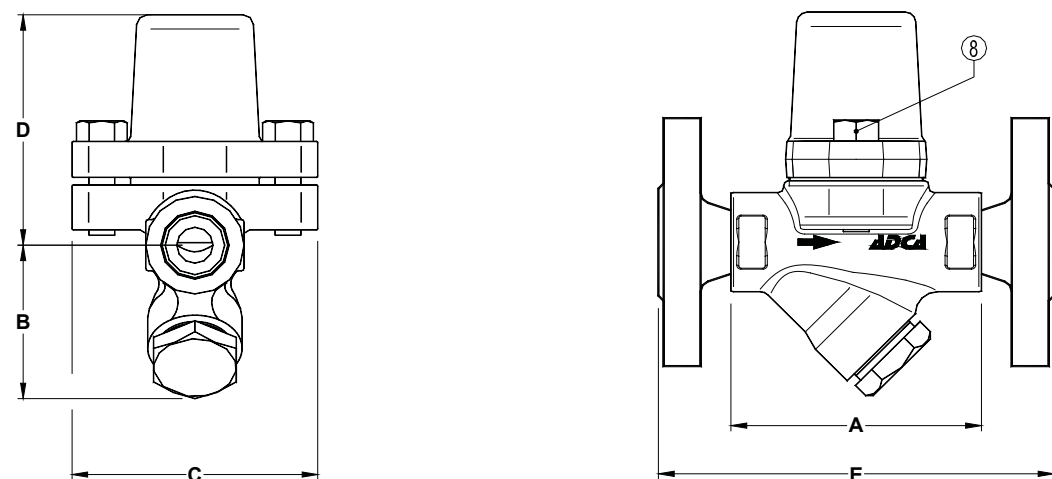
FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
40 bar	19,3 bar	50 °C
35 bar	15,8 bar	150 °C
30,4 bar	12,1 bar	250 °C
27,6 bar	10,2 bar	300 °C

PMO – Maximum operating pressure: 24 bar.
TMO – Maximum operating temperature: 250 °C.
* Acc. to EN 1092-1:2018. ** Acc. to EN 1759-1:2004.
Body limiting conditions PN 40 or below, depending on the type of connection adopted. Rating PN 40 for threaded, SW and BW versions.

FLOW RATE CAPACITY (kg/h)

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)													
		0,5	1	2	4	6	8	10	12	14	16	18	20	22	24
BM24	1/2" to 1" A DN 15 to 25 A	225	350	490	650	720	795	820	850	880	900	905	910	915	925
BM24	1/2" to 1" B DN 15 to 25 B	550	800	1100	1500	1750	1825	2000	2100	2175	2235	2390	2490	2585	2680

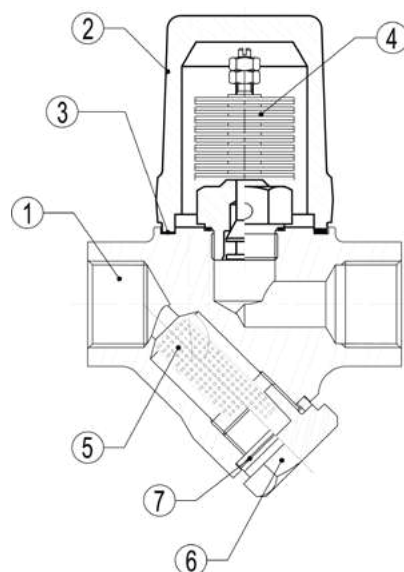
A: Condensate discharge at 10 °C below saturation temperature; B: Cold water capacity around 20 °C.



DIMENSIONS (mm)											
SIZE	THREADED / SW				WEIGHT (kg)	PN 40		CLASS 150		CLASS 300	
	A	B	C	D		E	WEIGHT (kg)	E	WEIGHT (kg)	E	WEIGHT (kg)
1/2" – DN 15	95	59	95	90	2,1	150	3,7	150	3,2	150	4
3/4" – DN 20	95	59	95	90	2,1	150	4,5	150	3,7	150	5,3
1" – DN 25	95	65	95	90	2,1	160	4,9	160	4,5	160	6,1

MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	P250GH / 1.0460
2	Cover	P250GH / 1.0460
3	* Gasket	Stainless steel / Graphite
4	* Valve assembly	Bimetal
5	* Strainer screen	AISI 304 / 1.4301
6	* Strainer cover	A 105 / 1.0432
7	* Gasket	Stainless steel / Graphite
8	Bolts	Stainless steel A2-70

* Available spare parts.



BIMETALLIC STEAM TRAPS AND AIR VENTS BM24 (1 1/2" and 2"; DN 40 and 50)

DESCRIPTION

The BM24 series bimetallic steam traps and air vents are simple and robust traps, recommended for steam process applications where condensate sensible heat can be recovered, steam tracing lines, drip points, storage tank coils, steam air venting, etc. The use of condensate sensible heat reduces steam consumption.

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: BM24 – carbon steel.

SIZES: 1 1/2" and 2"; DN 40 and DN 50.

CONNECTIONS: Female threaded ISO 7 Rp or NPT.
Flanged EN 1092-1 PN 40.
Flanged ASME B16.5 Class 150 or 300.
Socket weld (SW) ASME B16.11.
Butt weld (BW) ASME B16.25.

INSTALLATION: Horizontal installation recommended, can be installed in any position.
See IMI – Installation and maintenance instructions.

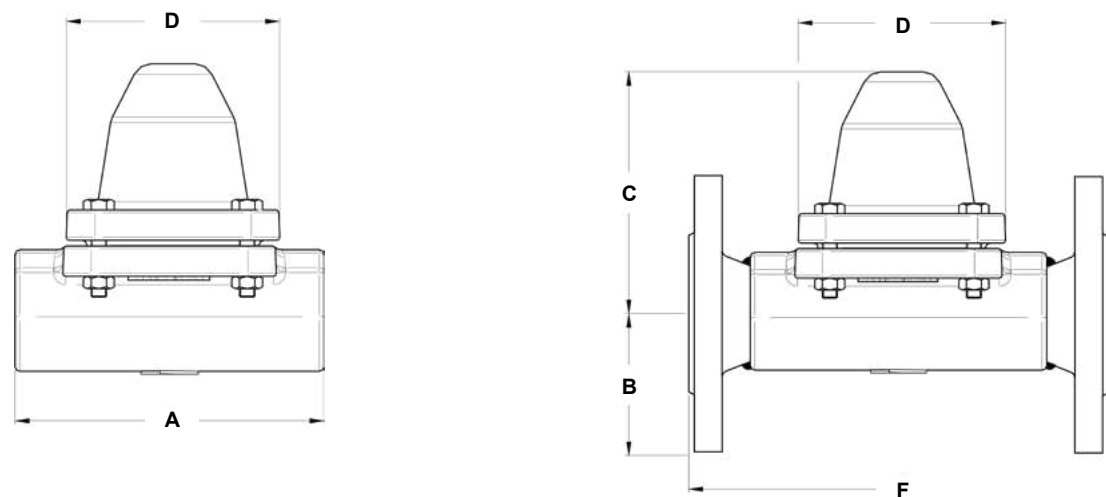


CE MARKING – GROUP 2 (PED – European Directive)

CLASS 150	PN 40 / CLASS 300	Category
–	1 1/2" and 2" DN 40 and 50	1 (CE Marked)
1 1/2" and 2"	–	SEP

FLOW RATE CAPACITY (kg/h)													
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)											
		0,5	1	2	4	6	8	10	12	16	18	20	24
BM24	1 1/2" and 2" A DN 40 and 50 A	700	900	1200	1450	1600	1700	1780	1880	1900	1950	2020	2100
BM24	1 1/2" and 2" B DN 40 and 50 B	1900	2400	3500	4900	5500	6050	7000	7200	7800	8400	8800	9000

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

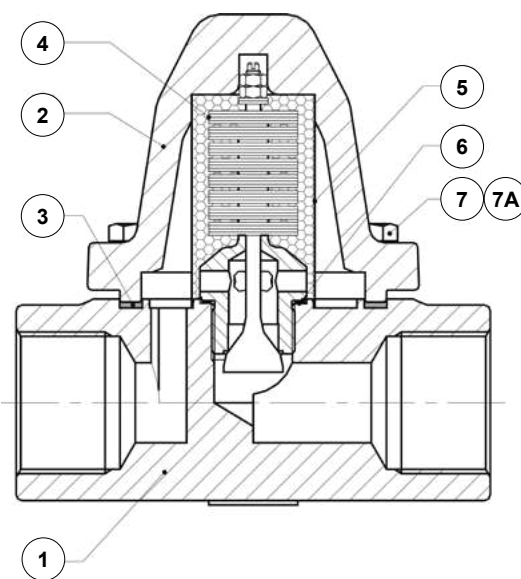


DIMENSIONS (mm)														
SIZE	BW	THREADED / SW			PN 40			CLASS 150			CLASS 300			
	A	A	C	D	WGT. (kg)	B	F *	WGT. (kg)	B	F *	WGT. (kg)	B	F *	WGT. (kg)
1 1/2" – DN 40	160	160	132	115	7,2	75	230	11,9	64	230	10,6	78	230	12,9
2" – DN 50	160	230	132	115	9,3	83	230	14,9	76	230	14,5	83	230	16,1

* Different face to face dimensions on request.

MATERIALS		
POS. N°	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	* Seat gasket	Copper
7	Studs	A193 Gr. B7
7A	Nuts	A194 Gr. 2H

* Available spare parts.



BIMETALLIC STEAM TRAPS AND AIR VENTS BM32 (1/2" – 1"; DN 15 – 25)

DESCRIPTION

The BM32 series bimetallic steam traps and air vents are simple and robust traps, recommended for steam process applications where condensate sensible heat can be recovered, steam tracing lines, drip points, storage tank coils, steam air venting, etc. The use of condensate sensible heat reduces steam consumption.

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.

OPTIONS: Blowdown valve.

USE: Saturated and superheated steam.

AVAILABLE MODELS: BM32 – 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 40.
Flanged ASME B16.5 Class 150 or 300.
Socket weld (SW) ASME B16.11.
Butt weld (BW) ASME B16.25 on request.

INSTALLATION: Horizontal installation recommended, can be installed in any position.
See IMI – Installation and maintenance instructions.



CE MARKING – GROUP 2 (PED – European Directive)

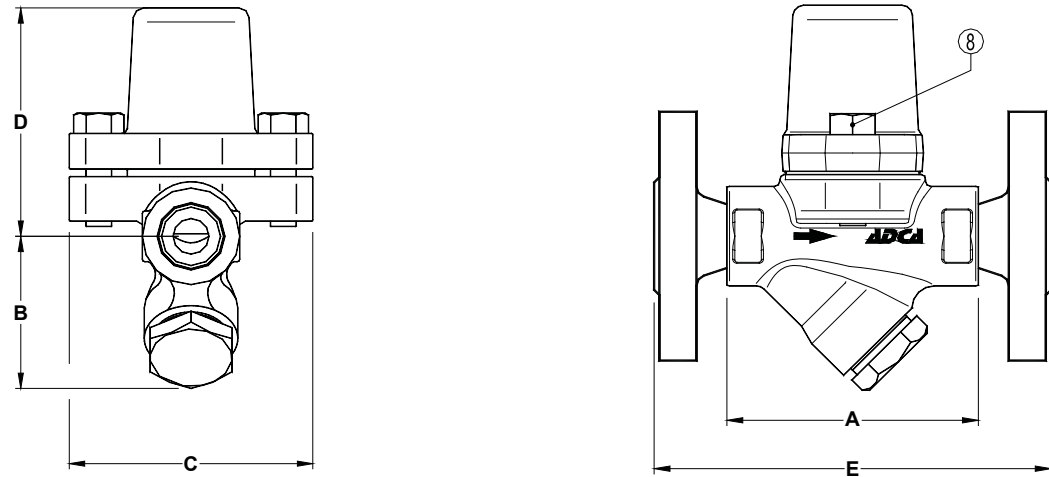
PN 40	Category
1/2" to 1" – DN 15 to 25	SEP

FLOW RATE CAPACITY (kg/h)														
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		0,5	1	2	4	6	10	12	14	16	18	20	25	32
BM32	1/2" to 1" A DN 15 to 25 A	200	300	390	430	510	580	600	620	660	680	700	740	810
BM32	1/2" to 1" B DN 15 to 25 B	700	1000	1300	1530	1750	2050	2150	2250	2360	2480	2550	2750	2900

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

BODY LIMITING CONDITIONS		
FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
40 bar	19,3 bar	50 °C
35 bar	15,8 bar	150 °C
30,4 bar	12,1 bar	250 °C
27,6 bar	10,2 bar	300 °C

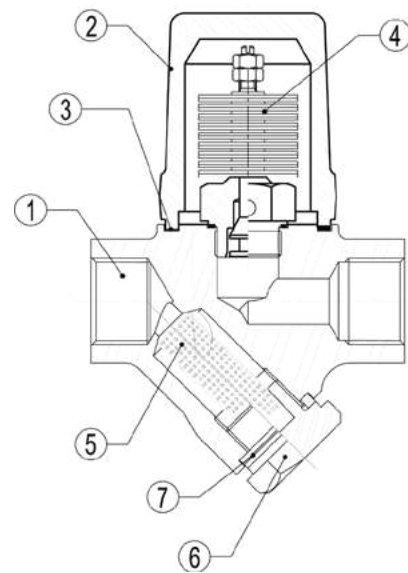
PMO – Maximum operating pressure: 32 bar.
TMO – Maximum operating temperature: 300 °C.
* Acc. to EN 1092-1:2018. ** Acc. to EN 1759-1:2004.
Body limiting conditions PN 40 or below, depending on the type of connection adopted. Rating PN 40 for threaded, SW and BW versions.



DIMENSIONS (mm)											
SIZE	THREADED / SW				WEIGHT (kg)	PN 40		CLASS 150		CLASS 300	
	A	B	C	D		E	WEIGHT (kg)	E	WEIGHT (kg)	E	WEIGHT (kg)
1/2" – DN 15	95	59	95	90	2,1	150	3,7	150	3,2	150	4
3/4" – DN 20	95	59	95	90	2,1	150	4,5	150	3,7	150	5,3
1" – DN 25	95	65	95	90	2,1	160	4,9	160	4,5	160	6,1

MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	P250GH / 1.0460
2	Cover	P250GH / 1.0460
3	* Gasket	Stainless steel / Graphite
4	* Valve assembly	Bimetal
5	* Strainer screen	AISI 304 / 1.4301
6	* Strainer cover	A105 / 1.0432
7	* Gasket	Stainless steel / Graphite
8	Bolts	Stainless steel A2-70

* Available spare parts.



**BIMETALLIC STEAM TRAPS AND AIR VENTS
BM32
(1 1/2" and 2"; DN 40 and 50)**

DESCRIPTION

The BM32 series bimetallic steam traps and air vents are simple and robust traps, recommended for steam process applications where condensate sensible heat can be recovered, steam tracing lines, drip points, storage tank coils, steam air venting, etc. The use of condensate sensible heat reduces steam consumption.

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: BM32 – carbon steel.

SIZES: 1 1/2" and 2"; DN 40 and DN 50.

CONNECTIONS: Female threaded ISO 7 Rp or NPT.
Flanged EN 1092-1 PN 40.
Flanged ASME B16.5 Class 150 or 300.
Socket weld (SW) ASME B16.11.
Butt weld (BW) ASME B16.25.

INSTALLATION: Horizontal installation recommended, can be installed in any position.
See IMI – Installation and maintenance instructions.



CE MARKING – GROUP 2 (PED – European Directive)

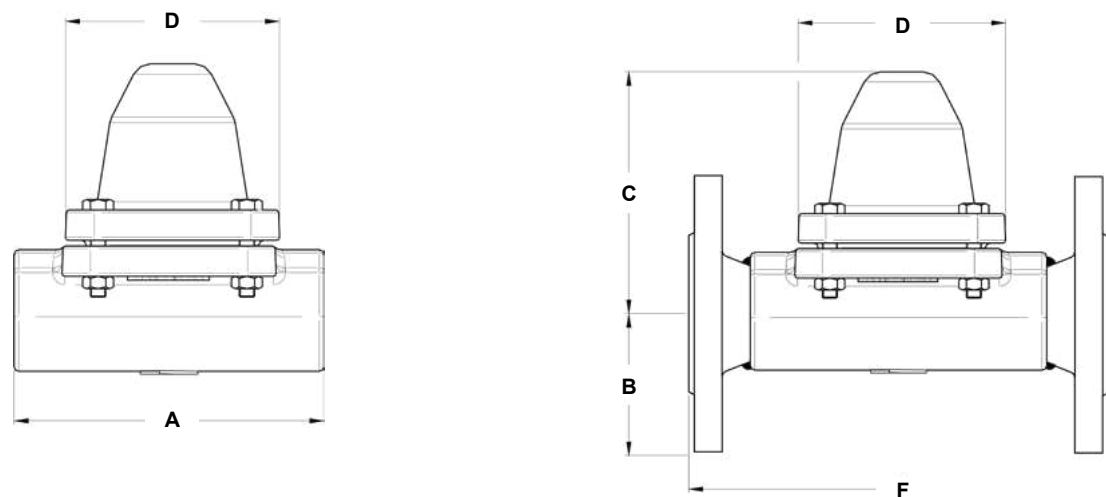
CLASS 150	PN 40 / CLASS 300	Category
–	1 1/2" and 2" DN 40 and 50	1 (CE Marked)
1 1/2" and 2"	–	SEP

BODY LIMITING CONDITIONS		
FLANGED PN 40 / CLASS 300 * ALLOWABLE PRESSURE	FLANGED CLASS 150 ** ALLOWABLE PRESSURE	RELATED TEMP.
40 bar	19,3 bar	50 °C
35 bar	15,8 bar	150 °C
30,4 bar	12,1 bar	250 °C
27,6 bar	10,2 bar	300 °C

PMO – Maximum operating pressure: 32 bar.
TMO – Maximum operating temperature: 300 °C.
* Acc. to EN 1092-1:2018. ** Acc. to EN 1759-1:2004.
Body limiting conditions PN 40 or below, depending on the type of connection adopted. Rating PN 40 for threaded, SW and BW versions.

FLOW RATE CAPACITY (kg/h)													
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)											
		2	4	6	8	10	12	16	18	20	24	28	32
BM32	1 1/2" and 2" A DN 40 and 50 A	450	490	550	640	700	730	850	920	980	1050	1100	1150
BM32	1 1/2" and 2" B DN 40 and 50 B	1400	1500	1700	1950	2200	2200	2600	2800	2950	3150	3300	3500

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



DIMENSIONS (mm)

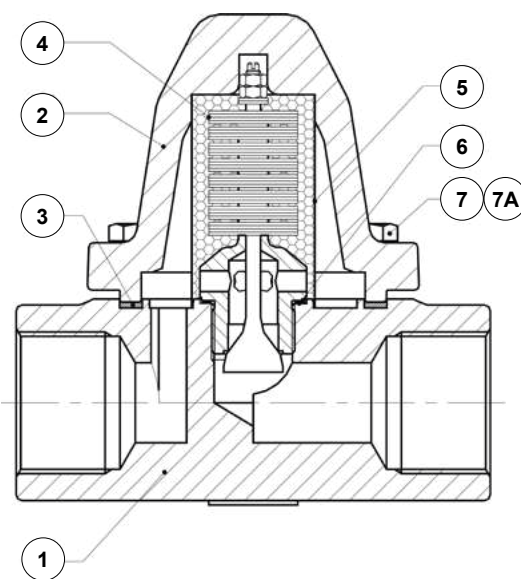
SIZE	BW	THREADED / SW				PN 40			CLASS 150			CLASS 300		
	A	A	C	D	WGT. (kg)	B	F *	WGT. (kg)	B	F *	WGT. (kg)	B	F *	WGT. (kg)
1 1/2" – DN 40	160	160	132	115	7,2	75	230	11,9	64	230	10,6	78	230	12,9
2" – DN 50	160	230	132	115	9,3	83	230	14,9	76	230	14,5	83	230	16,1

* Different face to face dimensions on request.

MATERIALS

POS. N°	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	* Seat gasket	Copper
7	Studs	A193 Gr. B7
7A	Nuts	A194 Gr. 2H

* Available spare parts.



**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 40 or 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.



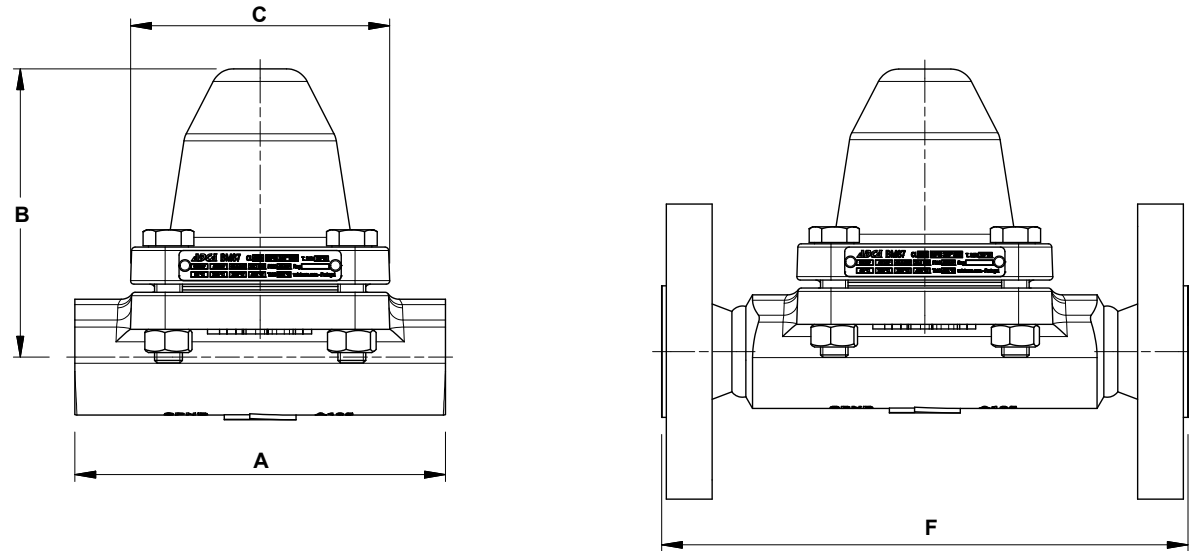
CE MARKING – GROUP 2 (PED – European Directive)	
PN 63	Category
1/2" to 1" – DN 15 to 25	SEP

BODY LIMITING CONDITIONS			
FLANGED PN 63/ CLASS 600 *	FLANGED PN 40	FLANGED CLASS 300 **	RELAT. TEMP.
ALLOW. PRESSURE	ALLOW. PRESSURE	ALLOW. PRESSURE	
63 bar	40 bar	50 bar	50 °C
48 bar	30,4 bar	41,8 bar	250 °C
43,5 bar	27,6 bar	38,9 bar	300 °C
29,1 bar	18,5 bar	28,7 bar	425 °C

PMO – Maximum operating pressure: 45 bar.
TMO – Maximum operating temperature: 425 °C.
* 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.

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 °C below saturation temperature; B: Cold water capacity around 20 °C.



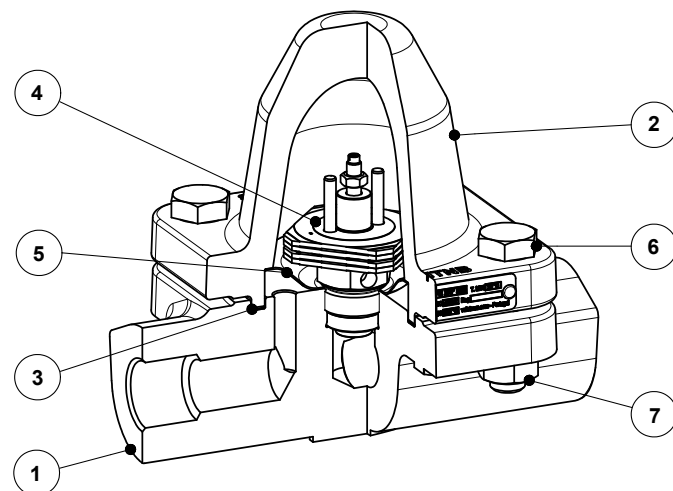
DIMENSIONS (mm)												
SIZE	THREADED / SW / BW *			PN 40		PN 63		CLASS 300		CLASS 600		
	A	B	C	WEIGHT (kg)	F **	WEIGHT (kg)	F **	WEIGHT (kg)	F **	WEIGHT (kg)	F **	WEIGHT (kg)
1/2" – DN 15	160	125	112	6,2	210	7,5	210	8,3	230	7,6	230	7,8
3/4" – DN 20	160	125	112	6,1	230	8,3	230	10	230	8,6	230	8,9
1" – DN 25	160	125	112	6	230	8,7	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. N°	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.



BIMETALLIC STEAM TRAPS AND AIR VENTS BM88

DESCRIPTION

The BM88 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. Specially designed for draining high pressure superheated steam lines and processes.

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: BM88 – 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 100.
Flanged ASME B16.5 Class 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 100	Category
1/2" to 1" – DN 15 to 25	SEP

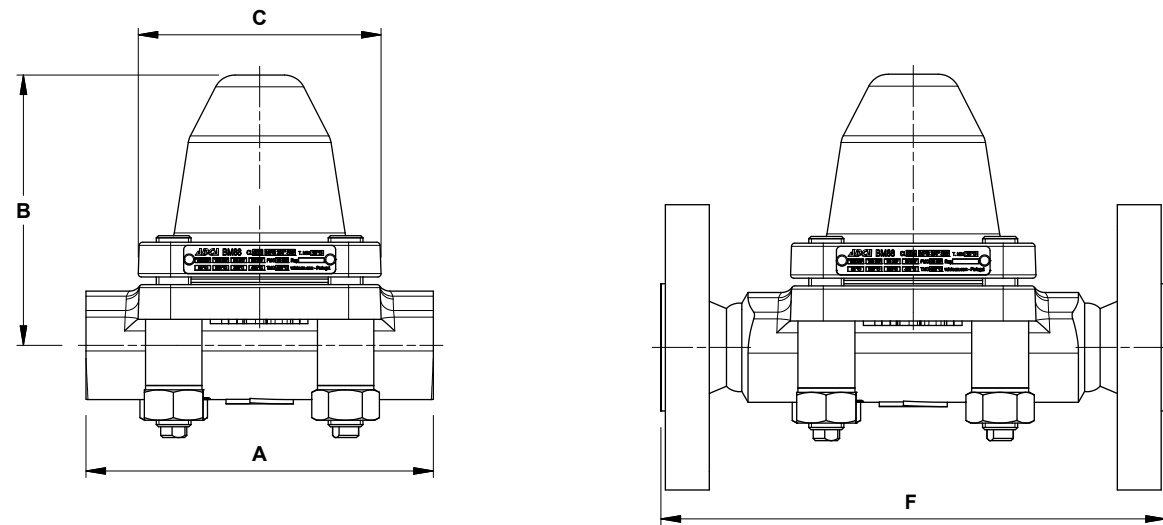
BODY LIMITING CONDITIONS

FLANGED PN 100 *	FLANGED CLASS 600 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
100 bar	92,7 bar	250 °C
97,6 bar	80,4 bar	350 °C
88 bar	67,7 bar	450 °C
64,2 bar	55,7 bar	500 °C

PMO – Maximum operating pressure: 85 bar.
TMO – Maximum operating temperature: 500 °C.
* Acc. to EN 1092-1:2018. ** Acc. to EN 1759-1:2004.
Body limiting conditions PN 100 or below, depending on the type of connection adopted. Rating PN 100 for threaded, SW and BW versions.

FLOW RATE CAPACITY (kg/h)														
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		4	6	8	10	15	20	25	30	40	50	60	70	85
BM88	1/2" to 1" A DN 15 to 25 A	360	420	490	510	600	650	700	710	790	810	850	900	910
BM88	1/2" to 1" B DN 15 to 25 B	1500	1750	2000	2200	2700	3000	3300	3600	4000	4500	4900	5300	5800

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



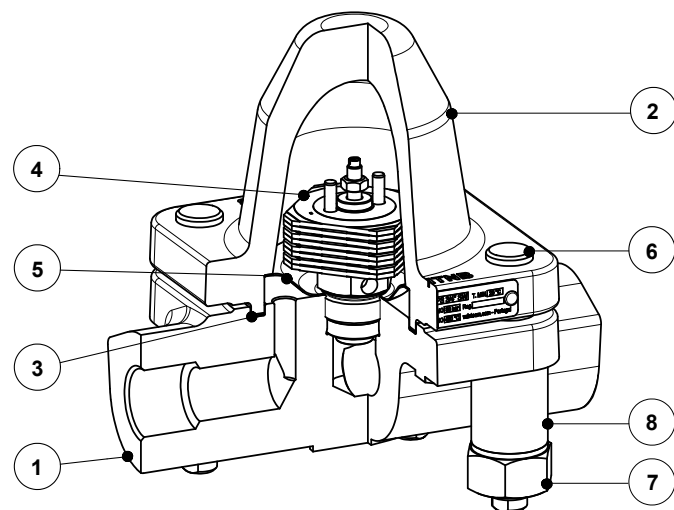
DIMENSIONS (mm)								
SIZE	THREADED / SW / BW *			WEIGHT (kg)	PN 100		CLASS 600	
	A	B	C		F **	WEIGHT (kg)	F **	WEIGHT (kg)
1/2" – DN 15	160	125	112	6,3	210	7,4	230	7,2
3/4" – DN 20	160	125	112	6,2	230	8,4	230	7,7
1" – DN 25	160	125	112	6,1	230	9,1	230	8,1

* 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. N°	DESIGNATION	MATERIAL
1	Body	A182F22 / 1.7380 (Equiv. 10CrMo910)
2	Cover	A182F22 / 1.7380 (Equiv. 10CrMo910)
3	* Gasket	Stainless steel / Graphite
4	* Bimetallic regulator	Corrosion resistant bimetal; Stainless steel
5	* Strainer screen	AISI 304 / 1.4301
6	Studs	A193 Gr. B16
7	Nuts	A194 Gr. 4
8	Extension sleeves	A193 Gr. B16

* Available spare parts.



BIMETALLIC STEAM TRAPS AND AIR VENTS BM89

DESCRIPTION

The BM89 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. Specially designed for draining high pressure superheated steam lines and processes.

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: BM89 – 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 160.
Flanged ASME B16.5 Class 900.
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)

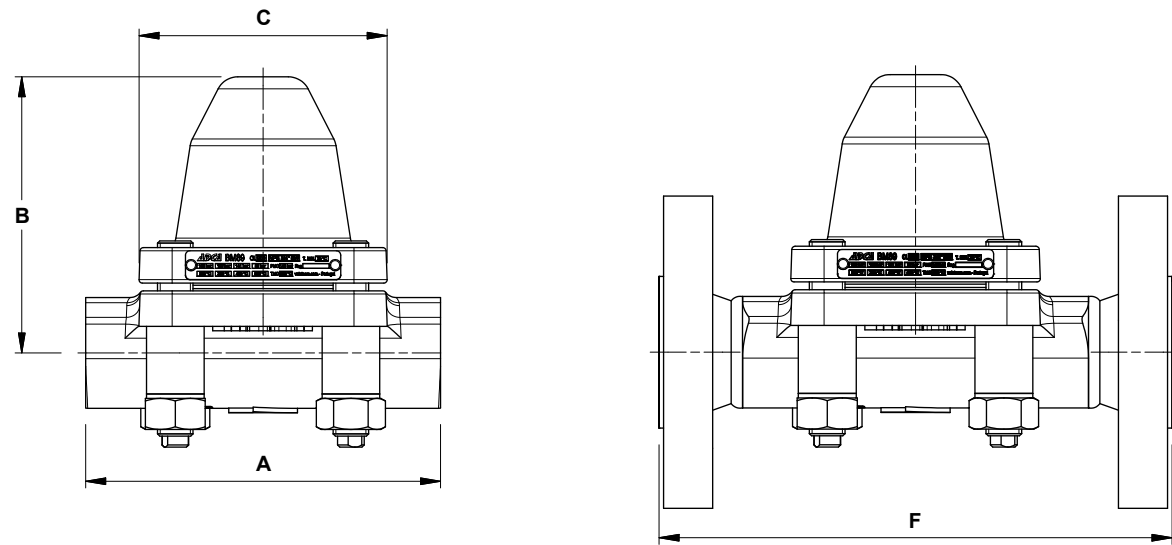
PN 160	Category
1/2" to 1" – DN 15 to 25	SEP

BODY LIMITING CONDITIONS		
FLANGED PN 160 *	FLANGED CLASS 900 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
160 bar	128,6 bar	300 °C
156,1 bar	120,7 bar	350 °C
140,9 bar	101,4 bar	450 °C
102,8 bar	83,4 bar	500 °C
73,4 bar	64,9 bar	525 °C

PMO – Maximum operating pressure: 110 bar.
TMO – Maximum operating temperature: 525 °C.
* Acc. to EN 1092-1:2018. ** Acc. to EN 1759-1:2004.
Body limiting conditions PN 160 or below, depending on the type of connection adopted. Rating PN 160 for threaded, SW and BW versions.

FLOW RATE CAPACITY (kg/h)																
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)														
		4	6	8	10	15	20	25	30	40	50	60	70	90	100	110
BM89	1/2" to 1" A DN 15 to 25 A	360	420	490	510	600	650	700	710	790	810	850	900	930	970	990
BM89	1/2" to 1" B DN 15 to 25 B	1500	1750	2000	2200	2700	3000	3300	3600	4000	4500	4900	5300	6000	6200	6500

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



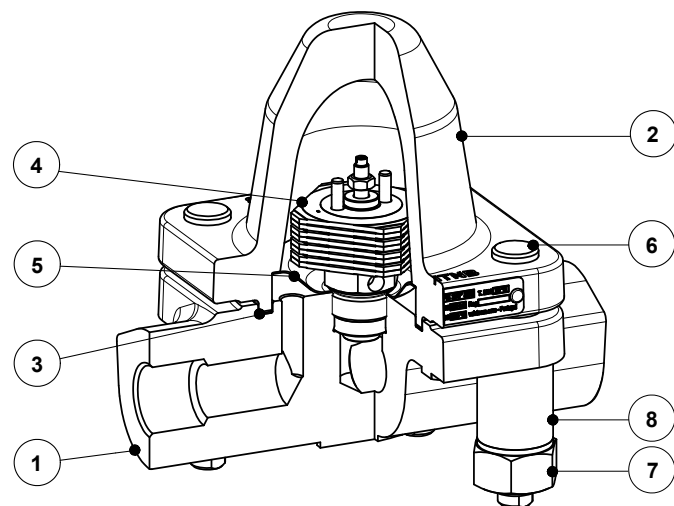
DIMENSIONS (mm)								
SIZE	THREADED / SW / BW *			WEIGHT (kg)	PN 160		CLASS 900	
	A	B	C		F **	WEIGHT (kg)	F **	WEIGHT (kg)
1/2" – DN 15	160	125	112	6,2	210	7,4	230	8,2
3/4" – DN 20	160	125	112	6,2	–	–	230	8,8
1" – DN 25	160	125	112	6,1	230	9,1	254	10,3

* 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. N°	DESIGNATION	MATERIAL
1	Body	A182F22 / 1.7380 (Equiv. 10CrMo910)
2	Cover	A182F22 / 1.7380 (Equiv. 10CrMo910)
3	* Gasket	Stainless steel / Graphite
4	* Bimetallic regulator	Corrosion resistant bimetal; Stainless steel
5	* Strainer screen	AISI 304 / 1.4301
6	Studs	A193 Gr. B16
7	Nuts	A194 Gr. 4
8	Extension sleeves	A193 Gr. B16

* Available spare parts.



BIMETALLIC STEAM TRAPS AND AIR VENTS BM90

DESCRIPTION

The BM90 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. Specially designed for draining high pressure superheated steam lines and processes.

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: BM90 – 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 250.
Flanged ASME B16.5 Class 1500.
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)

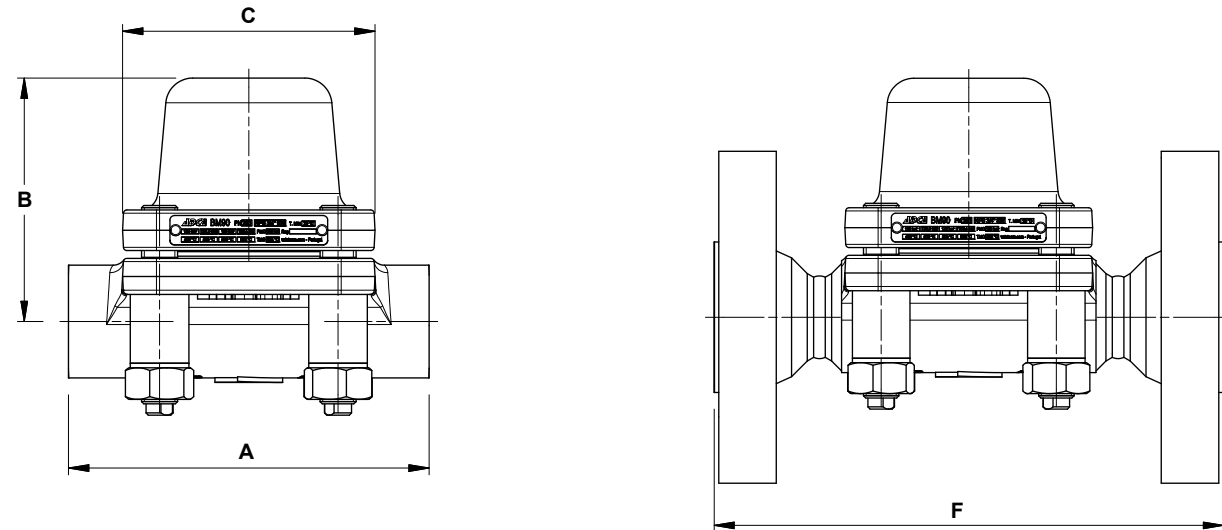
PN 250	Category
1/2" to 1" – DN 15 to 25	SEP

BODY LIMITING CONDITIONS	
FLANGED PN 250 / CLASS 1500 / THREADED / SW / BW	RELATED TEMPERATURE
ALLOWABLE PRESSURE	
160 bar	50 °C / 450 °C
138 bar	500 °C
130 bar	510 °C
108 bar	525 °C

PMO – Maximum operating pressure: 160 bar.
TMO – Maximum operating temperature: 525 °C.

FLOW RATE CAPACITY (kg/h)																	
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)															
		4	6	8	10	15	20	25	30	40	50	60	70	90	100	130	160
BM90	1/2" to 1" A DN 15 to 25 A	140	170	180	190	210	220	225	235	245	250	260	270	275	280	285	295
BM90	1/2" to 1" B DN 15 to 25 B	890	1100	1300	1450	1600	1800	2000	2200	2500	2750	3000	3200	3500	3900	4100	4500

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



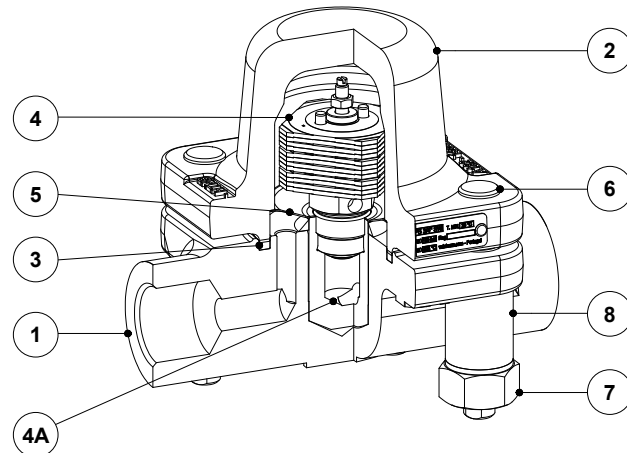
DIMENSIONS (mm)												
SIZE	THREADED / SW / BW *				PN 250				CLASS 1500			
	A	B	C	WEIGHT (kg)	B	C	F **	WEIGHT (kg)	B	C	F **	WEIGHT (kg)
1/2" – DN 15	160	108	112	7,3	108	112	230	9,6	108	112	230	8,9
3/4" – DN 20	160	108	112	7,3	–	–	–	–	108	112	230	9,6
1" – DN 25	160	108	112	7,1	108	112	230	10,8	108	112	254	11

* 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	A182F22 / 1.7380 (Equiv. 10CrMo910)
2	Cover	A182F22 / 1.7380 (Equiv. 10CrMo910)
3	* Gasket	Stainless steel / Graphite
4	* Bimetallic regulator	Corrosion resistant bimetal; Stainless steel
4A	Deflector	Stainless steel
5	* Strainer screen	AISI 304 / 1.4301
6	Studs	A453 Gr. 660B
7	Nuts	A453 Gr. 660B
8	Extension sleeves	A453 Gr. 660B

* Available spare parts.



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)	1 1/2" and 2" DN 40 and 50	1 1/2" and 2" DN 40 and 50	1 1/2" and 2" DN 40 and 50	3	241	220	19,2	259	235	25	301	250	38,5
BM (a) HC05-(b)	2" and 2 1/2" DN 50 and 65	2" and 2 1/2" DN 50 and 65	2" and 2 1/2" DN 50 and 65	6	242	250	24,3	281	270	35	325	295	51,3
BM (a) HC06-(b)	2 1/2" and 3" 65 and 80	2 1/2" and 3" 65 and 80	2 1/2" and 3" 65 and 80	8	262	285	32,9	317	300	46,4	358	345	72,4
BM (a) HC08-(b)	2 1/2" and 3" 65 and 80	2 1/2" and 3" 65 and 80	2 1/2" and 3" 65 and 80	14	311	340	49,6	367	375	82	413	415	111,7
BM (a) HC10-(b)	5" DN 125	2 1/2" 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.

