

TYPE BT16 CAST IRON INVERTED BUCKET STEAM TRAP

FEATURES

The BT16 steam trap is designed for steam systems. Made from GS cast iron, the BT16 steam trap is available with threaded or flanged connections. It allows large quantities of condensate to be discharged, adapts well to variations in flow rate and is insensitive to water hammer. It is particularly well suited to process purge applications such as heat exchangers, autoclaves and condensers in the chemical, pharmaceutical and food industries. The BT16 is fitted as standard with an air vent on start-up and an upstream filter. It must be installed horizontally, and several internal mechanisms are available depending on pressure differentials.

AVAILABLE MODELS

BSP screwed end connections : G 1/2" - G 3/4" - G 1".

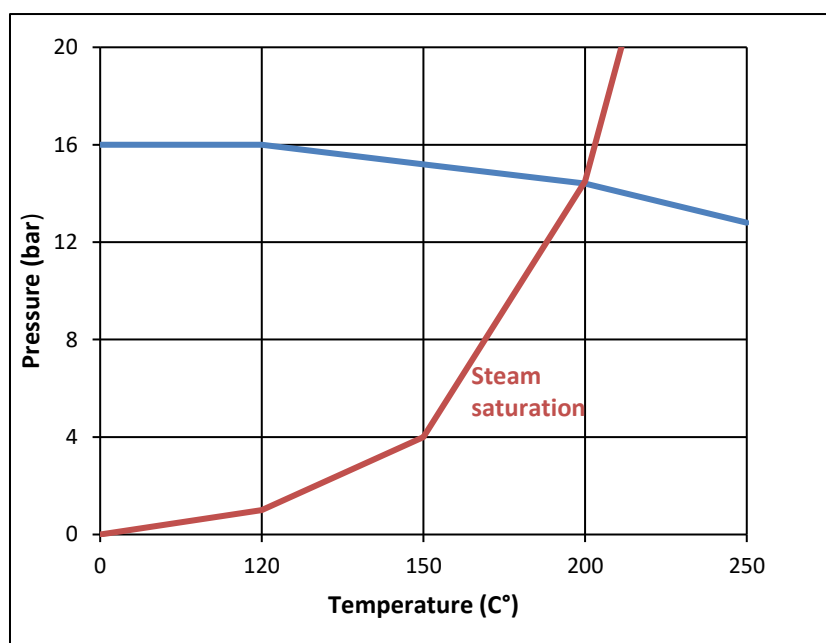
Connecting with PN16 flanges : DN15 - DN20 - DN25.

ΔP 5,4 / 8,5 / 15,5 bar.



LIMITS OF USE

Max allowed fluid pressure : PS	16 bar
Max allowed fluid temperature TS :	+0 °C / +220 °C
Use on saturated steam	14,5 bar / +200 °C



Information given as an indication only, and subject to possible modifications

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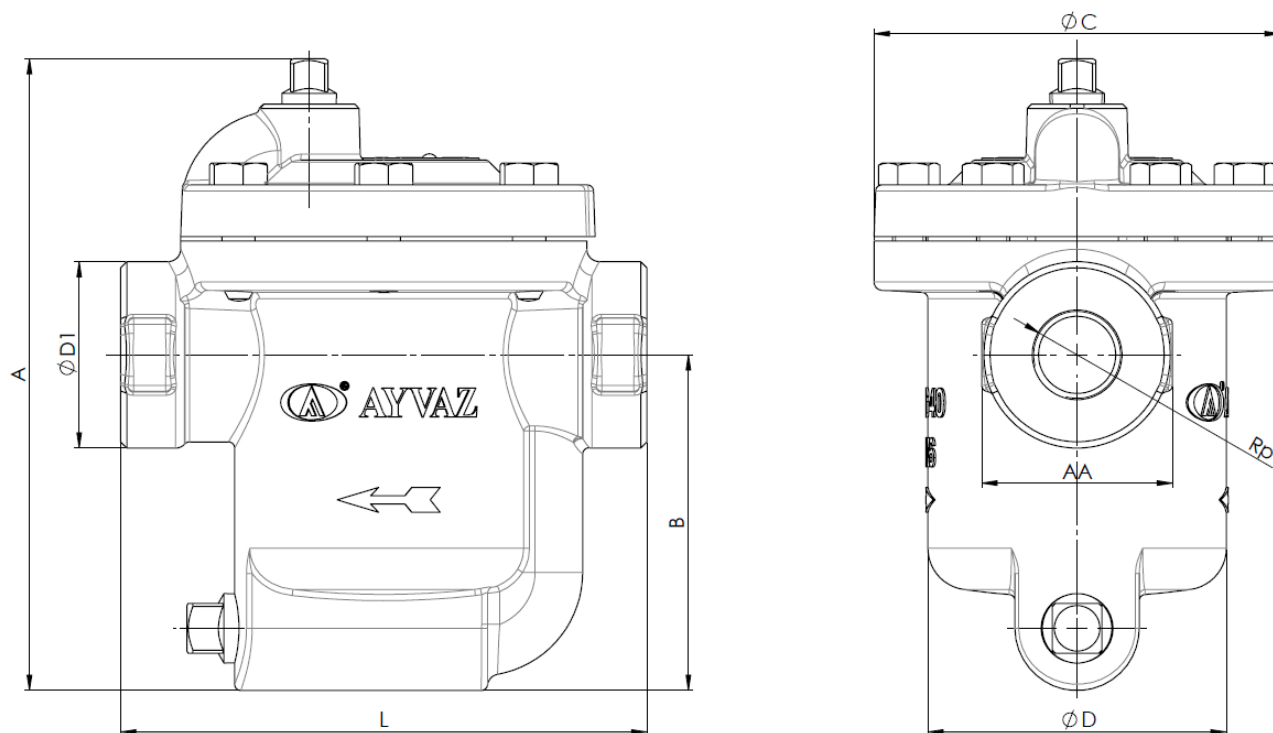
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DIRECTIVES AND MANUFACTURING STANDARDS

Item	Standard
Pressure equipment directive 2014/68	G 1/2" to G 1" : A4 § 3 excluded
	DN15 to DN25 : A4 § 3 excluded
Materials of cast iron	EN 1503-3
BSP theard	ISO 228
Flanges	EN 1092-3
Face to Face dimensions	EN 26554

DIMENSIONS (mm) AND WEIGHT (kg)

DN	A	B	L	ØC	ØD	ØD1	AA	Weight (Kg)
1/2"	153	81	127	98	72	45	46	2,75
3/4"	153	81	127	98	72	45	46	2,75
1"	153	103	127	98	72	55	56	3,4

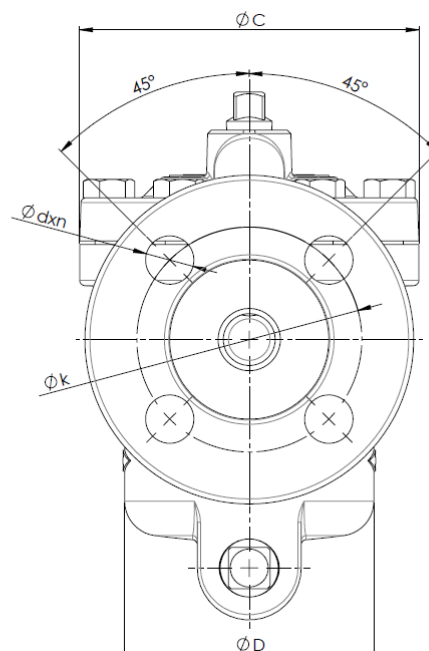
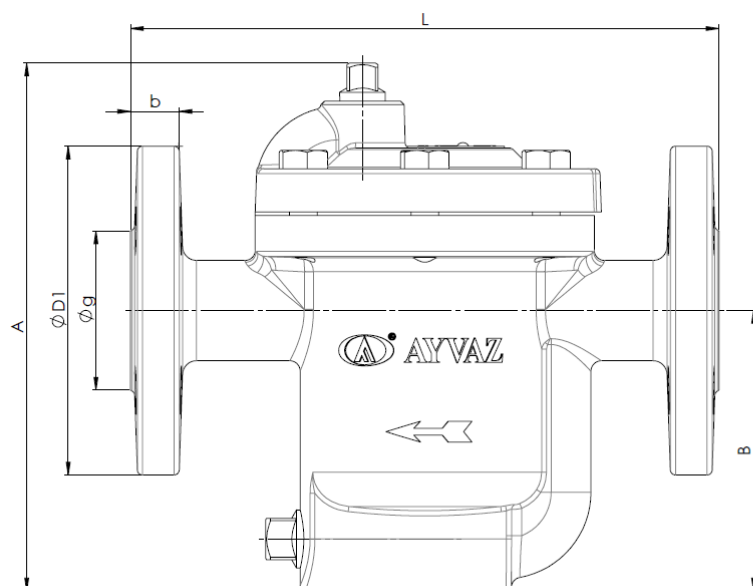


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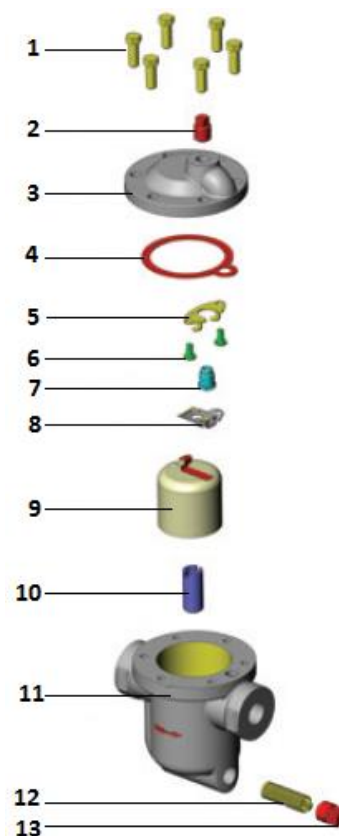
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DN	A	B	L	ØC	ØD	ØD1	Øk	Øg	b	Ødxn	Weight (Kg)
15	153	81	170	98	72	95	65	46	14	14x4	4,45
20	153	81	180	98	72	105	75	56	16	14x4	4,45
25	183	103	195	98	72	115	85	65	16	14x4	5,4



CONSTRUCTION

No.	Part name	Material
1	Cover nut	Stainless steel AISI 304
2	Plug	Ductile cast iron - EN-GJS-400-18
3	Cover	Ductile cast iron - EN-GJS-400-18
4	Gasket	Klingerit without asbestos
5	Guide	Stainless steel AISI 304
6	Nut	Stainless steel AISI 304
7	Bucket Seat	Stainless steel AISI 304
8	Ball guide	Stainless steel AISI 304
9	Bucket	Stainless steel AISI 304
10	Adjustment nut	Stainless steel AISI 304
11	Body	Ductile cast iron - EN-GJS-400-18
12	Strainer	Stainless steel AISI 304
13	Strainer plug	Stainless steel AISI 304

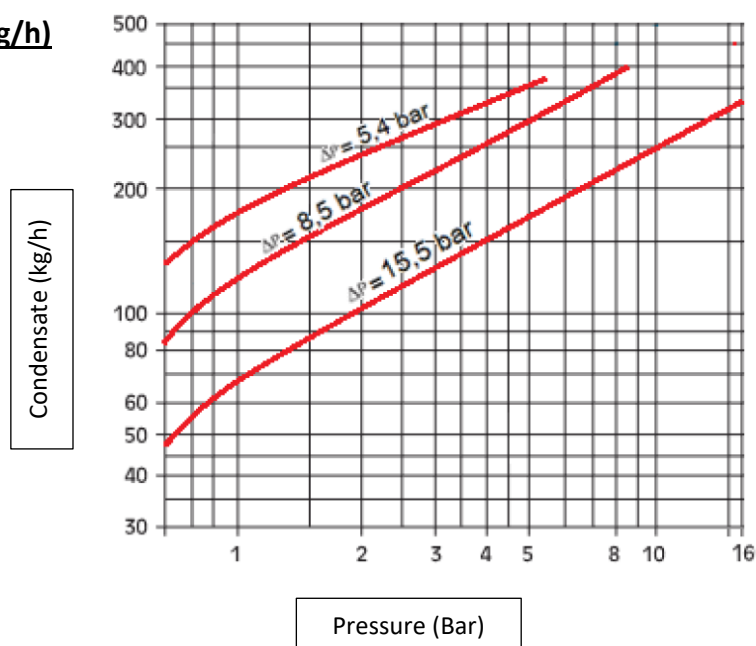


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FLOWRATE OF CONDENSATE (Kg/h)



INSTALLATION

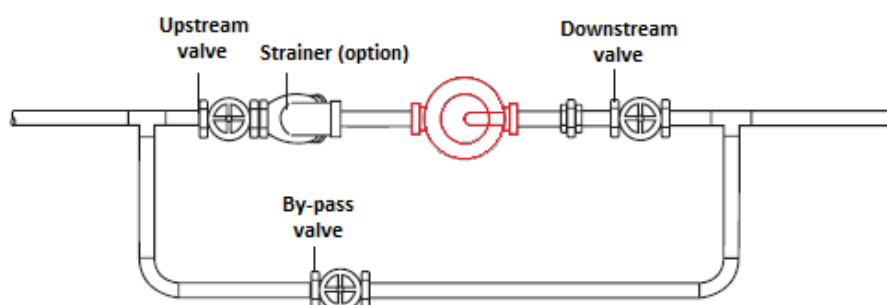
The BT16 steam trap must be installed at a low point in relation to the network to be drained. It is supplied as standard for horizontal installation. The trap outlet must be connected to the condensate return network or directed towards the drain. In this case, the maximum discharge temperature to the environment must be respected.

MOUNTING

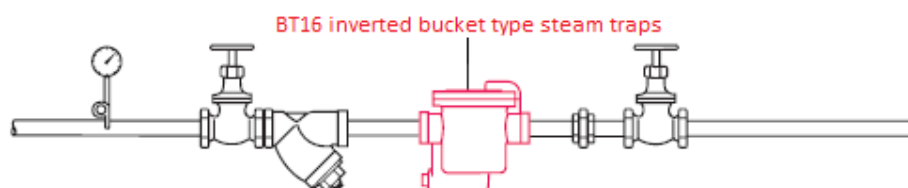
The mounting position of the BT16 steam trap is very important for its correct operation. Two mounting directions must be observed simultaneously.

- 1 - Remove dust and impurities from the pipe before installing the BT16..
- 2 - Install it in an easily accessible place.
- 3 - Install it next to the system to be drained.
- 4 - Observe the motor direction indicated by the arrow on the body..
- 5 - If necessary, modify the pipe so that water condensate can flow into the trap by gravity..
- 6 - Make sure you use the BT16 on a horizontal pipe..

Top view



Front view



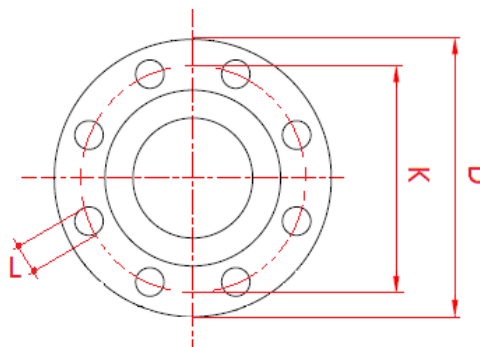
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For the flanged version, use the following types of bolt :

ISO PN16 flange dimensions					
DN	D	K	L	Qty	Ø
15	95	65	14	4	M12
20	105	75	14	4	M12
25	115	85	14	4	M12



MAINTENANCE

It is not necessary to remove the trap to carry out maintenance.

- 1 - Close the isolation valve upstream of the trap.
- 2 - Drain the downstream pipework.
- 3 - Make sure there is no pressure or temperature build-up.
- 4 - Unscrew the 4 screws and remove the cover mark 3.
- 5 - Check the condition of the entire mechanism and in particular the condition of the seat (item 7).
Clean and replace damaged parts if necessary.
- 6 - Check the condition of bucket 9 and clean the seat.
- 7 - Refit the cover (item 3), changing the body gasket (item 4).

SPARE PARTS

BT16 cast iron Inverted bucket steam trap		
Body gasket	<u>Threaded</u> :	<u>Flanged</u> :
Internal mechanism ΔP 5,4		
Internal mechanism ΔP 8,5		
Internal mechanism ΔP 15,5		
https://www.sectoriel.com/fr/bt-16-purgeur-vapeur-a-flotteur-inverse-ouvert.html		
https://www.sectoriel.com/fr/bt-16-purgeur-vapeur-a-flotteur-inverse-ouvert-a-brides.html		

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