

ATB-5, 5F Type Steam Trap

for **Pipeline**, **Header**, etc.

Thermo static
Max. 1.0MPa

Thermostatic trap ATB-5 Type is a compact structure with triple functions, including trap, bypass and stop valve functions, for realizing effective utilization of space and cost reduction.



ATB-5 Type



ATB-5F Type



Switching lever fixing type



Switching lever (during installation)

MASS (ATB-5F Type)

Size	Mass(kg)
15(1/2")	4.2
20(3/4")	4.5
25(1")	5.8
32(1 1/4")	10
40(1 1/2")	11
50(2")	12

FEATURES

- Large discharge amount, suitable for pipe end or large equipment.
- Free installation in vertical, horizontal or lateral style¹⁾.
- Operate at 10°C²⁾ below the temperature of saturated steam, prevent discharge of steam and idle operation of valve, and contribute to energy saving.
- Size 32~50mm valves have removable disc and are highly air tight and durable.
- Test valve can be installed on trap directly.

Note:

- 1) Size 32~50mm valves must be installed vertically to horizontal pipe.
- 2) Size 32~50mm valves start to operate at 15°C below temperature of saturated steam.

SPECIFICATIONS

Model name	ATB-5	ATB-5F
Code name	ATB5-G	ATB5F-G
Type	Thermostatic	
Size	15 · 20 · 25(1/2" · 3/4" · 1")	15-50(1/2" ~2")
Applicable fluid	Saturated steam*1	
Fluid temperature	Max. 184°C	
Applicable pressure	Max. 1.0MPa	
End connection	Screwed JIS Rc	Flanged JIS 10KFF
Materials	Body(Cast iron), Disc & Seat(Stainless steel), Cock(Cast bronze), Thermo element (Stainless steel)	
Allowed back pressure	Within 50% of pressure on inlet side(Minimum pressure difference:0.03MPa)	
Valve body pressure test	Steam:1.5MPa, Water:0.5MPa	

*1. The valve can not be used for super heated steam line.

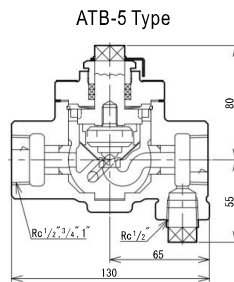
*2. Please install products with size 32~50mm uprightly.

TABLE FOR CAPACITY (Max. continual discharge amount)

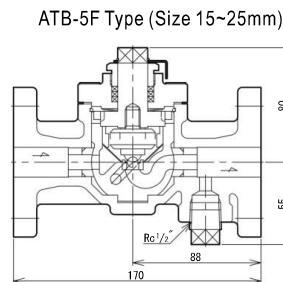
(L/h)

Size	Differential pressure(MPa)	0.03	0.05	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
15~25mm (1/2"~1")	Water	650	900	1350	1900	2400	2800	3150	3400	3700	3900	4150	4300
	Hot water of saturated steam temperature-20°C	600	800	1150	1700	2100	2400	2700	2950	3150	3300	3450	3550
32~50mm (1 1/4"~2")	Water	1450	1870	2650	3750	4600	5310	5940	6510	7030	7510	7970	8400
	Hot water of saturated steam temperature-25°C	1340	1650	2250	3150	3830	4360	4800	5160	5470	5750	6000	6250

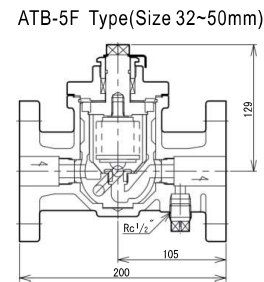
CONSTRUCTION (Unit:mm)



ATB-5 Type



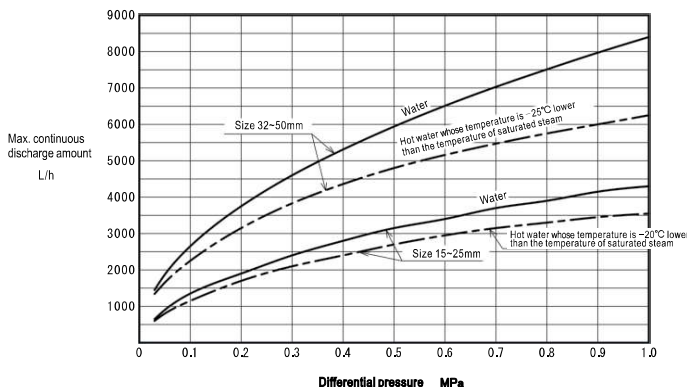
ATB-5F Type (Size 15~25mm)



ATB-5F Type (Size 32~50mm)

Weight:3.1kg

FLOW CHART



POINTS FOR SELECTION

1. Generally, hot water whose temperature is 20°C lower than the temperature of saturated steam (for size 15~25mm valves) and hot water whose temperature is 25°C lower than the temperature of saturated steam (for size 32~50mm valves) are used to decide the discharge amount of steam trap.
2. Select a proper size that can meet the requirement on safety factor and allow at least 3 times of planned discharge amount.
3. In the case there is back pressure at the outlet side of trap, use the differential pressure between inlet and outlet sides to select the size of valve. The allowed back pressure is up to 50% of the pressure of inlet side.
4. If the discharge amount of one valve is not enough, use multiple valves or select other types of valves.