

AK-5, 5F Type Steam Trap

for **Small Machines·Equipments**, **High-pressure Steam Line** etc.

Small bucket type
0.01~1.6MPa
SSR device

Max.1.6MPa, small capacity bucket type steam trap for laundry machines, heating equipments, food processing equipments, and medical devices.

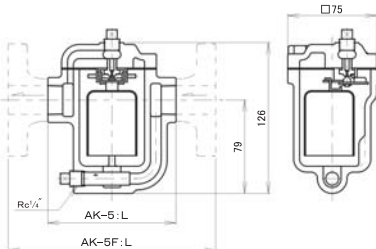


AK-5 Type



AK-5F Type

CONSTRUCTION



DIMENSIONS

Model name	Size	15(½")	20(¾")	25(1")
		L(mm)	100	100
AK-5	W(kg)	2	2	2
AK-5F	L(mm)	175	195	215
	W(kg)	2.7	3	3.9

POINTS FOR SELECTION

1. Use the safety factor, which is 3 times of planned discharge amount, for selecting a proper size of steam trap.
2. The differential pressure is the difference of pressure between inlet and outlet sides.

FEATURES

- The SSR (Shockless Self Return) device eliminates impact that may occur when valve is closed. The valve disc can close by itself, but not influenced by the buoyancy of the bucket. So that can be used wide pressure range.
- Compact body allows installation in narrow space.
- With strainer embedded.

SPECIFICATIONS

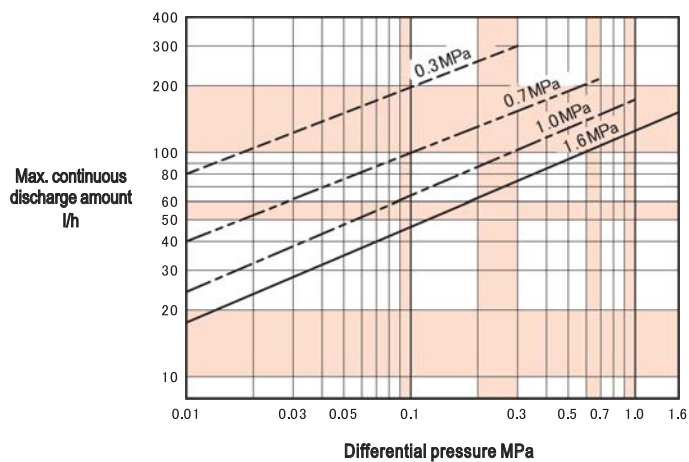
Type	0.3MPa Type	0.7MPa Type	1.0MPa Type	1.6MPa Type	
Model name	Screwed	AK-5			
	Flanged	AK-5F			
Code name	Screwed	AK5-GL	AK5-GM	AK5-GH	AK5-GS
	Flanged	AK5F-GL	AK5F-GM	AK5F-GH	AK5F-GS
End connection	AK-5:Screwed JIS Rc, AK-5F:Flanged JIS 10K 20KFF(common use)				
Size	15 20 25(½" ¾" 1")				
Applicable pressure	0.01~0.3MPa	0.01~0.7MPa	0.01~1.0MPa	0.01~1.6MPa	
Fluid temperature	Max. 184°C			Max. 220°C	
Materials	Body(Cast iron), Disc & seat(Stainless steel), Bucket(Stainless steel)				
Valve body pressure test	Hydraulic 1.5MPa for 0.3~1.0MPa Type, Hydraulic 2.4MPa for 1.6MPa Type				

TABLE FOR CAPACITY (Max. continual discharge amount)

(l/h)

Differential pressure(MPa)	0.01	0.05	0.1	0.2	0.3	0.4	0.5	0.6
Discharge amount	0.3MPa Type	80	155	200	280	300	—	—
	0.7MPa Type	42	80	110	145	170	190	200
	1.0MPa Type	24	42	62	82	100	120	140
	1.6MPa Type	18	37	49	65	78	82	95
Discharge amount	0.7MPa Type	220	—	—	—	—	—	—
	1.0MPa Type	148	152	160	175	—	—	—
	1.6MPa Type	110	120	125	130	140	150	160

FLOW CHART (Size 15~25mm)



POINTS FOR INSTALLATION/OPERATION

- The arrow mark on the main body must match with the direction of drain flow. The trap must be installed vertically to horizontal pipe.
- In the event the trap is to be left unused for a long period or there is risk of freezing in winter, operate the plug (Rc¼") at the lower part of the main body and discharge drain.
- If the piping at the outlet side is an ascending type (which means there is back pressure), install check valve at the discharge side of steam trap.

Note: Read Points for Installation of Steam Trap carefully (see page 157).