

AK-5, 5F Type Steam Trap

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

Small bucket type
0.01~2.0MPa
SSR device

Max.2.0MPa, small capacity bucket type steam trap for laundry machines, heating equipments, food processing equipments, and medical devices.

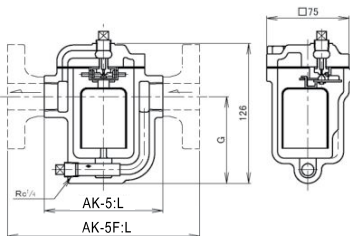


AK-5 Type



AK-5F Type

CONSTRUCTION



DIMENSIONS

(mm)

Model name	Size	Size		
		15(1/2")	20(3/4")	25(1")
AK-5	L	100	100	105
	G	79	79	79
	W(kg)	2	2	2
AK-5F	L	175	195	215
	G	82	82	82
	W(kg)	2.7	3	3.9

POINTS FOR SELECTION

- Use the safety factor, which is 3 times of planned discharge amount, for selecting a proper size of steam trap.
- 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	2.0MPa Type
Model name	Screwed AK-5				
	Flanged AK-5F				
Code name	AK5-ML	AK5-MM	AK5-MH	AK5-MS	AK5-MV
	AK5F-ML	AK5F-MM	AK5F-MH	AK5F-MS	AK5F-MV
Size	15·20·25(1/2"·3/4"·1")				
Applicable pressure	0.01~0.3MPa	0.01~0.7MPa	0.01~1.0MPa	0.01~1.6MPa	0.01~2.0MPa
Applicable fluid	Steam				
Fluid temperature	Max. 184°C*			Max. 220°C	
End connection	AK-5:Screwed JIS Rc, AK-5F:Flanged JIS 10K·20KFF(common use)				
Materials	Body(Ductile cast iron), Disc & seat(Stainless steel), Bucket(Stainless steel)				
Valve body pressure test	Hydraulic 2.4MPa for 0.3~1.6MPa Type, Hydraulic 3.0MPa for 2.0MPa Type				

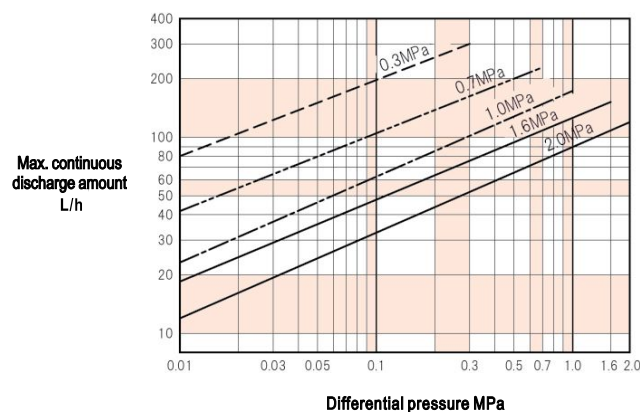
* For fluid temperature lower than 220°C, please contact our agent in your area.

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	125
	1.6MPa Type	18	37	49	65	78	82	95
2.0MPa Type	12	24	32	44	52	60	66	70
Differential pressure (MPa)	0.7	0.8	0.9	1.0	1.2	1.4	1.6	2.0
Discharge amount	0.7MPa Type	220	—	—	—	—	—	—
	1.0MPa Type	148	152	160	175	—	—	—
	1.6MPa Type	110	120	125	130	140	150	160
	2.0MPa Type	76	80	85	89	97	100	109

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.
- 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.
- In the event the trap is to be left unused for a long period or there is risk of freezing in winter, remove the plug (Rc1/4") at the lower part of the main body and discharge drain.

Note: Read POINTS FOR SIZE SELECTION AND INSTALLATION carefully (see Page 165).