

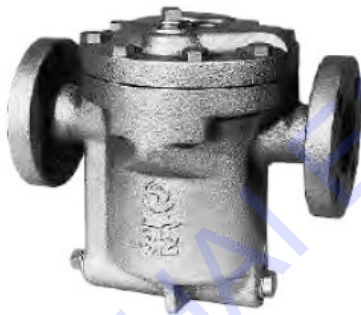
## Steam Trap: Model AK-2H

General purpose trap that can be used as drain discharge trap for pipeline header etc. All functions set in the top cover, so that allow easy maintenance.



### Features (size 32-50mm)

- 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 from low pressure.
- With strainer embedded, for size 32 – 50 mm



Size 32~50mm



Size 65·80mm

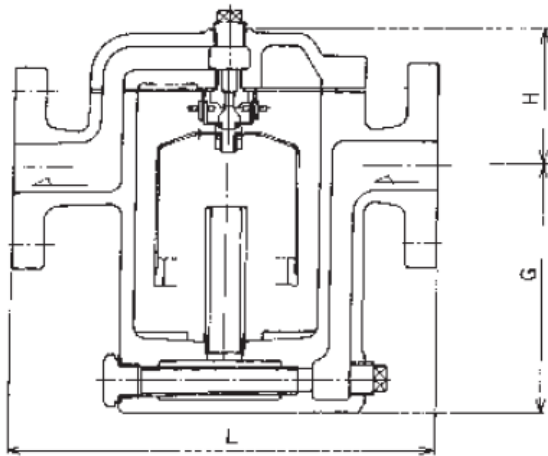
### Specifications

| Model name               | AK-2H  |                  |                            |
|--------------------------|--|------------------|----------------------------|
| Code name                | AK2H-GL  |                  | AK2H-GH                    |
| Size                     | 32-40-50(1.1/4",1.1/2",2")   | 65-80(2.1/2"-3") | 32-40-50(1.1/4",1.1/2",2") |
| Applicable fluid         | Steam  |                  |                            |
| Applicable pressure      | 0.02 - 0.7 MPa   |                  | 0.02 - 1.0 MPa             |
| Fluid temperature        | Max. 184°C   |                  |                            |
| End connection           | Flanged JIS10K FF  |                  |                            |
| Materials                | Body(Cast iron), Disc & seat (Stainless steel), Bucket (Stainless steel) |                  |                            |
| Valve body pressure test | Hydraulic 1.5MPa   |                  |                            |

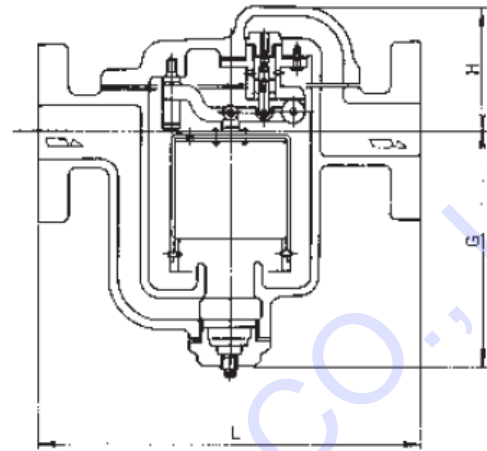
\*The valve for fluid temperature Max. 220 C is available upon your request.

## Construction

Size 32~50mm



Size 65·80mm



## Dimensions (mm)

| Size      | L   | G   | H   | Mass (kg) |
|-----------|-----|-----|-----|-----------|
| 32 (1 ¼") | 280 | 161 | 88  | 21        |
| 40 (1 ½") | 290 | 161 | 88  | 22        |
| 50 (2")   | 290 | 161 | 88  | 23        |
| 65 (2 ½") | 480 | 340 | 160 | 87        |
| 80 (3")   | 480 | 340 | 160 | 90        |

## Table for capacity (Max. continual discharge amount)

(m<sup>3</sup>/h)

| Type   | Different pressure (MPa)<br>Size       | 0.02   | 0.05                                  | 0.1  | 0.2  | 0.3  | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  | 1.0  |
|--------|--|--------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|
|        |  | 0.7MPa | 32- 40 - 50<br>(1.1/4" - 1.1/2" - 2") | 800  | 1100 | 1370 | 1700 | 1940 | 2170 | 2380 | 2570 | 2750 | -    |
|        | 65 - 80<br>(2.1/2" - 3")               | 1120   | 1600                                  | 2150 | 2850 | 3400 | 3800 | 4130 | 4430 | 4700 | -    | -    | -    |
| 1.0MPa | 32 - 40 - 50<br>(1.1/4" - 1.1/2" - 2") | 500    | 750                                   | 950  | 1200 | 1400 | 1570 | 1740 | 1870 | 2000 | 2120 | 2240 | 2350 |

### Points for size selection

Select a proper size that can meet the requirement or safety factor and allow at least 3 times of planned discharge volume. 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.

### Points for installation

- In the event that trap is to be left unused for a long period of there is risk of freezing in winter, operate the plug at the lower part of the main body and discharge item.
- 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.
- Leave sufficient space for maintenance purpose.