

# AL-300・301

## Features

1. Safety valve, simple structure and easy maintenance.
2. Easy adjustment.

## Specifications

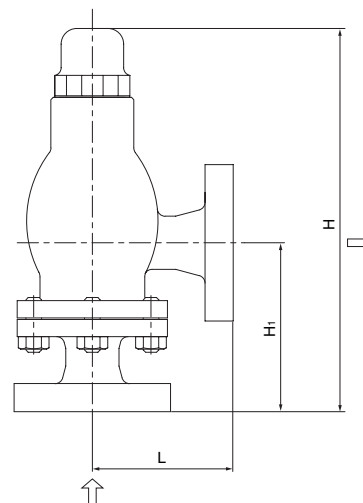
| Model               |                   | AL-300             | AL-301                                     |
|---------------------|-------------------|--------------------|--------------------------------------------|
| Structure           |                   | Closed type        |                                            |
| Application         |                   | Steam              |                                            |
| Working pressure    |                   | 0.05-1.0 MPa       | 0.05-1.6 MPa                               |
| Maximum temperature |                   | 220°C              |                                            |
| Material            | Valve case        | Ductile cast iron  |                                            |
|                     | Spring case       | Ductile cast iron  |                                            |
|                     | Valve, valve seat | Cast bronze        | Stainless steel                            |
| Connection          |                   | JIS 10K FF flanged | JIS 10K FF flanged<br>JIS 16K FF flanged * |

\* JIS 16K FF flanged when working pressure is more than 1.0 MPa.



## Dimensions and Weights

| Nominal size | Dimension (mm) |                |     |               | Flow area<br>$\pi D \ell$ (mm <sup>2</sup> ) | Weight<br>(kg) |
|--------------|----------------|----------------|-----|---------------|----------------------------------------------|----------------|
|              | L              | H <sub>1</sub> | H   | Seat diameter |                                              |                |
| 15A          | 90             | 108            | 245 | 25            | 49.1                                         | 4.7            |
| 20A          | 90             | 108            | 245 | 25            | 49.1                                         | 5.0            |
| 25A          | 90             | 108            | 245 | 25            | 49.1                                         | 6.2            |
| 32A          | 91             | 115            | 285 | 37            | 107.6                                        | 8.6            |
| 40A          | 91             | 115            | 285 | 38            | 113.5                                        | 8.8            |
| 50A          | 105            | 132            | 311 | 50            | 196.4                                        | 12.6           |



## Certified Capacity Table

●For steam (saturation temperature) <Pressure vessel structure standard>

(kg/h)

| Pressure MPa \ Nominal size | 0.05 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0  | 1.1  | 1.2  | 1.3  | 1.4  | 1.5  | 1.6  |
|-----------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| 15A                         | 38   | 50  | 73  | 98  | 123 | 148 | 172 | 196 | 220 | 244 | 268  | 292  | 316  | 340  | 364  | 387  | 411  |
| 20A                         | 38   | 50  | 73  | 98  | 123 | 148 | 172 | 196 | 220 | 244 | 268  | 292  | 316  | 340  | 364  | 387  | 411  |
| 25A                         | 38   | 50  | 73  | 98  | 123 | 148 | 172 | 196 | 220 | 244 | 268  | 292  | 316  | 340  | 364  | 387  | 411  |
| 32A                         | 85   | 110 | 160 | 214 | 270 | 324 | 377 | 430 | 482 | 535 | 588  | 640  | 693  | 745  | 798  | 849  | 902  |
| 40A                         | 89   | 116 | 168 | 226 | 285 | 342 | 398 | 454 | 509 | 564 | 620  | 675  | 731  | 786  | 841  | 896  | 951  |
| 50A                         | 155  | 201 | 292 | 392 | 494 | 592 | 689 | 785 | 881 | 977 | 1073 | 1169 | 1265 | 1360 | 1456 | 1551 | 1645 |

- AL-300: 0.05-1.0 MPa  
AL-301: 0.05-1.6 MPa
- Please contact us for the calculation procedure for nominal size selection.