

# AF-2

## Features

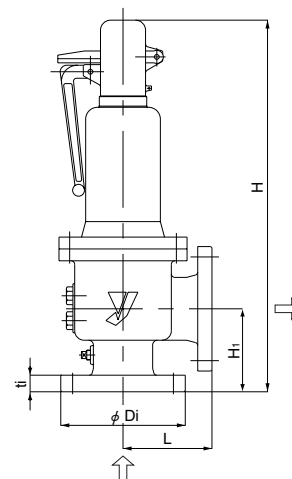
1. Lift safety valve, designed in compliance with JIS B 8210 "Spring loaded safety valves for steam boilers and pressure vessels".
2. Larger discharge capacity than lift type.
3. Due to lift lever mechanism a discharge inspection can be manually performed at more than 75% of the opening pressure.
4. Blowdown pressure can be adjusted with a back pressure throttle valve.
5. A material of excellent quality is used for the trim parts. High performance is maintained by precision processing and heat treatment.



## Specifications

|                     |                   |                                                                         |
|---------------------|-------------------|-------------------------------------------------------------------------|
| Structure           |                   | Open type with a lever                                                  |
| Application         |                   | Steam                                                                   |
| Working pressure    |                   | 0.18-1.6 MPa                                                            |
| Maximum temperature |                   | 220°C                                                                   |
| Material            | Valve case        | Ductile cast iron                                                       |
|                     | Spring case       | Ductile cast iron                                                       |
|                     | Valve, valve seat | Stainless steel                                                         |
| Connection          |                   | Inlet: JIS B 8210 10K RF flanged *<br>Outlet: JIS B 2239 10K FF flanged |

\* JIS B 8210 20K RF flanged when working pressure is more than 1.0 MPa.



## Dimensions and Weights

| Nominal size | Inlet diameter x Throat diameter<br>x Outlet diameter | Flow area<br>$\frac{\pi}{4}dt^2$ (mm <sup>2</sup> ) | Lift<br>$\ell$ (mm) | Dimension (mm) |                |     | Connection (mm)       |     |     |    |    |         | Outlet | Weight<br>(kg) |
|--------------|-------------------------------------------------------|-----------------------------------------------------|---------------------|----------------|----------------|-----|-----------------------|-----|-----|----|----|---------|--------|----------------|
|              |                                                       |                                                     |                     | L              | H <sub>1</sub> | H   | Inlet: JIS B 8210 10K |     |     |    |    |         |        |                |
|              |                                                       |                                                     |                     |                |                |     | Di                    | Ci  | gi  | ti | fi | ni x hi |        |                |
| 65A          | 65 x 49 x 90                                          | 1884.7                                              | 11.1                | 150            | 142            | 630 | 200                   | 160 | 105 | 30 | 2  | 8 x 23  | 100A   | 50.0           |
| 80A          | 75 x 57 x 100                                         | 2550.7                                              | 13.0                | 165            | 160            | 682 | 210                   | 170 | 125 | 32 | 2  | 8 x 23  |        | 62.3           |

## Certified Capacity Table

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

(kg/h)

| Pressure MPa \ Nominal size | 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   |
|-----------------------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 65A                         | 2467 | 3313 | 4171 | 4999 | 5821 | 6636 | 7444  | 8253  | 9067  | 9877  | 10684 | 11488 | 12300 | 13098 | 13907 |
| 80A                         | 3339 | 4484 | 5645 | 6766 | 7878 | 8981 | 10074 | 11170 | 12271 | 13368 | 14460 | 15547 | 16647 | 17727 | 18821 |

### <Boiler structure standard>

(kg/h)

| Pressure MPa \ Nominal size | 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   |
|-----------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 65A                         | 2429 | 3198 | 3978 | 4735 | 5505 | 6269 | 7033 | 7784  | 8547  | 9306  | 10063 | 10816 | 11578 | 12338 | 13096 |
| 80A                         | 3287 | 4328 | 5385 | 6409 | 7451 | 8504 | 9518 | 10595 | 11567 | 12595 | 13619 | 14638 | 15659 | 16690 | 17725 |

• Please contact us for the calculation procedure for nominal size selection.