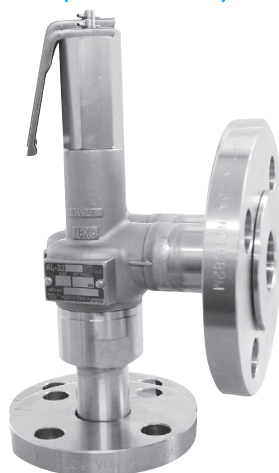


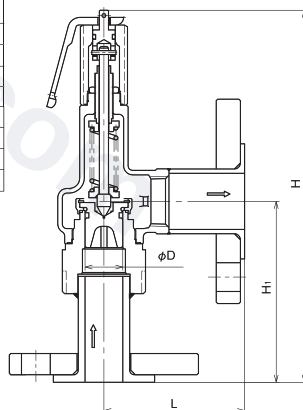
# AL-32TML, 32TML-N

Soft seat type

JWWA

JWWA approval  
(AL-32TML-N)

AL-32TML



|                     |             |                                   |                    |
|---------------------|-------------|-----------------------------------|--------------------|
| Full bore type      | Lift type   | Safety valve                      | Relief valve       |
| Safety relief valve | Lever type  | Closed type                       | Dash-pot structure |
| Handle type         | Stainless   | High-pressure gas testing product |                    |
| Diaphragm           | Non-leakage |                                   |                    |

## ■Features

1. Lever type safety valve. A discharge inspection can be manually performed when the difference between the set pressure is as shown in table 1 below.
2. Excellent air tightness ensured by the valve seat incorporating soft seat. Most suitable for application where valve seat leakage is not tolerated.
3. All stainless steel (SCS14A and SUS316 for trim parts) offering high corrosion resistance.
4. Closed structure prevents fluid leakage.

[Table 1] Required differential pressure at a discharge inspection

| Nominal size | Difference between set pressure at a discharge inspection |
|--------------|-----------------------------------------------------------|
| 15A-25A      | 1.0 MPa or less                                           |
| 32A, 40A     | 0.6 MPa or less                                           |
| 50A          | 0.4 MPa or less                                           |

## ■Specifications

| Model               | AL-32TML                                     | AL-32TML-N               |
|---------------------|----------------------------------------------|--------------------------|
| Structure           | Closed type with lever                       |                          |
| Working pressure    | Air, water, oil, other non-dangerous fluid * | Cold and hot water       |
| Working pressure    | 0.05-1.0 MPa                                 |                          |
| Working temperature | 5-120°C                                      | 5-100°C                  |
| Material            | Spring case                                  | Stainless steel          |
|                     | Valve                                        | Stainless steel (SCS14A) |
|                     | Valve seat                                   | Stainless steel (SUS316) |
|                     | Adjusting spring                             | Stainless steel          |
|                     | O-ring                                       | Synthetic rubber (FKM)   |
| Connection          | JIS 10K loose flange                         |                          |

\* Please contact us when using for oil.

· Please refer to the chart in P. 8-80 for set pressure range.

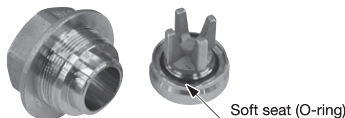
## ■Dimension and Weights

| Nominal size | Dimension (mm) |     |                |     | Flow area<br>$\pi D_L^2$ (mm <sup>2</sup> ) | Weight (kg) |
|--------------|----------------|-----|----------------|-----|---------------------------------------------|-------------|
|              | D              | L   | H <sub>1</sub> | H   |                                             |             |
| 15A          | 16             | 63  | 97             | 215 | 20.1                                        | 2.5         |
| 20A          | 21             | 87  | 101            | 217 | 34.6                                        | 2.9         |
| 25A          | 26             | 92  | 119            | 245 | 53.0                                        | 4.5         |
| 32A          | 33             | 99  | 135            | 284 | 93.3                                        | 5.3         |
| 40A          | 41             | 109 | 140            | 321 | 135.2                                       | 6.7         |
| 50A          | 51             | 114 | 162            | 372 | 208.2                                       | 11.5        |

\* The outlet flange is 1 size larger than the nominal size.

### Soft seat is used for the trim parts!

Soft seat (O-ring) is used for the trim parts, ensuring the reliable air tightness of the valve seat.



Soft seat (O-ring)

## ·AL-32 for steam (Saturated temperature)

## &lt;Pressure vessel structure standard&gt;

(kg/h)

| Pressure MPa<br>Nominal size (mm) | 0.05 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9  | 1.0  |
|-----------------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 15A                               | 15   | 20  | 29  | 40  | 50  | 60  | 70  | 80  | 90  | 100  | 109  |
| 20A                               | 27   | 35  | 51  | 69  | 87  | 104 | 121 | 138 | 155 | 172  | 189  |
| 25A                               | 42   | 54  | 78  | 105 | 133 | 159 | 186 | 212 | 237 | 263  | 289  |
| 32A                               | 70   | 91  | 132 | 178 | 224 | 268 | 313 | 356 | 400 | 443  | 487  |
| 40A                               | 105  | 136 | 198 | 266 | 335 | 402 | 468 | 534 | 599 | 664  | 729  |
| 50A                               | 163  | 211 | 306 | 411 | 518 | 621 | 723 | 824 | 924 | 1025 | 1126 |

## ·AL-32, 32T, 32TML, for air (20°C)

## &lt;Pressure vessel structure standard&gt;

(kg/h)

| Pressure MPa<br>Nominal size (mm) | 0.05 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  | 1.0  |
|-----------------------------------|------|-----|-----|-----|-----|------|------|------|------|------|------|
| 15A                               | 25   | 33  | 48  | 65  | 81  | 98   | 114  | 131  | 147  | 164  | 181  |
| 20A                               | 44   | 57  | 83  | 111 | 140 | 169  | 197  | 226  | 254  | 283  | 311  |
| 25A                               | 67   | 87  | 127 | 171 | 215 | 258  | 302  | 346  | 390  | 433  | 477  |
| 32A                               | 113  | 147 | 214 | 288 | 362 | 435  | 509  | 582  | 656  | 730  | 803  |
| 40A                               | 169  | 221 | 321 | 431 | 542 | 652  | 762  | 872  | 982  | 1093 | 1203 |
| 50A                               | 262  | 341 | 496 | 666 | 836 | 1006 | 1176 | 1346 | 1516 | 1687 | 1857 |

## ·AL-32, 32T, 32T-N, 32ML, 32TML-N for water (accumulation 25%)

## &lt;Yoshitake standard&gt;

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

| Pressure MPa<br>Nominal size (mm) | 0.05 | 0.1 | 0.2  | 0.3  | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  | 1.0  |
|-----------------------------------|------|-----|------|------|------|------|------|------|------|------|------|
| 15A                               | 0.4  | 0.5 | 0.9  | 1.1  | 1.3  | 1.5  | 1.6  | 1.8  | 1.9  | 2.0  | 2.1  |
| 20A                               | 0.6  | 0.9 | 1.6  | 2.0  | 2.3  | 2.6  | 2.8  | 3.1  | 3.3  | 3.5  | 3.7  |
| 25A                               | 1.0  | 1.5 | 2.5  | 3.1  | 3.6  | 4.0  | 4.4  | 4.7  | 5.1  | 5.4  | 5.7  |
| 32A                               | 1.8  | 2.6 | 4.5  | 5.5  | 6.3  | 7.1  | 7.8  | 8.4  | 9.0  | 9.5  | 10.0 |
| 40A                               | 2.7  | 3.8 | 6.5  | 7.9  | 9.2  | 10.3 | 11.3 | 12.2 | 13.0 | 13.8 | 14.6 |
| 50A                               | 4.1  | 5.9 | 10.0 | 12.3 | 14.2 | 15.9 | 17.4 | 18.8 | 20.1 | 21.3 | 22.4 |

\* Please refer to the chart in P. 8-12 for the calculation procedure for nominal size selection.