

AL-400L, 400TL

■ Features

1. Lever type safety relief valve.
2. Typically used on the outlet side of pressure reducing valve or small pressure vessels
3. Trim: stainless steel



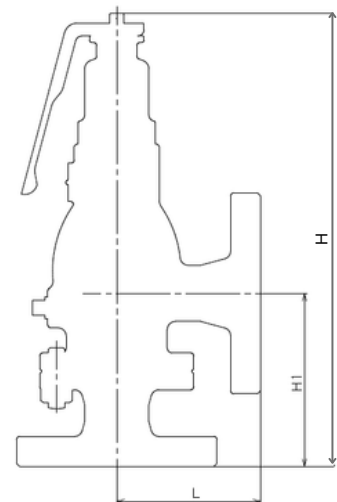
■ Specifications

| Model | | AL-400L | AL-400TL |
|---------------------|-------------------------|--|--|
| Structure | | Open type with lever | Closed type with lever |
| Application fluid | | Steam | Air, water, oil and other non-dangerous fluids |
| Maximum pressure | | 0.05~1.6MPa | 0.05~1.3MPa |
| Maximum temperature | | 220°C | 120°C |
| Connection | | JIS 10KFF flanged* JIS 16KFF flanged* | |
| Material | Valve case, spring case | FCD450 | |
| | Valve, valve seat | Stainless steel | Stainless steel • PTFE |

*JIS 16KFF flanged when working pressure is more than 1.0 MPa.

■ Dimensions and Weights

| Nominal size | Dimensions (mm) | | | Weight (kg) |
|--------------|-----------------|-----|-----|-------------|
| | L | H1 | H | |
| 15A | 90 | 108 | 282 | 5.4 |
| 20A | 90 | 108 | 282 | 5.7 |
| 25A | 90 | 108 | 282 | 6.9 |
| 32A | 91 | 115 | 325 | 9.6 |
| 40A | 91 | 115 | 325 | 9.8 |
| 50A | 105 | 132 | 351 | 13.6 |



Certified Capacity Table for AL-400L,400TL

■ Certified Capacity Table for AL-400L

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

(kg/h)

| Nominal size \ Pressure MPa | 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 |
| 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 | 1646 |

■ Certified Capacity Table for AL-400TL

• For air (20°C) <Pressure vessel structure standard>

(kg/h)

| Nominal size \ Pressure MPa | 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 |
|-----------------------------|------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| | 15A | 84 | 109 | 159 | 213 | 268 | 322 | 377 | 432 | 486 | 541 | 595 | 650 | 704 |
| 20A | 84 | 109 | 159 | 213 | 268 | 322 | 377 | 432 | 486 | 541 | 595 | 650 | 704 | 759 |
| 25A | 84 | 109 | 159 | 213 | 268 | 322 | 377 | 432 | 486 | 541 | 595 | 650 | 704 | 759 |
| 32A | 136 | 178 | 259 | 347 | 436 | 525 | 614 | 703 | 792 | 880 | 969 | 1058 | 1147 | 1236 |
| 40A | 136 | 178 | 259 | 347 | 436 | 525 | 614 | 703 | 792 | 880 | 969 | 1058 | 1147 | 1236 |
| 50A | 249 | 325 | 473 | 635 | 797 | 959 | 1121 | 1283 | 1445 | 1607 | 1769 | 1932 | 2094 | 2256 |

• For water (accumulation: 25%) <Yoshitake standard>

(m³/h)

| Nominal size \ Pressure MPa | 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 |
|-----------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| | 15A | 0.8 | 1.1 | 1.6 | 2.0 | 2.3 | 2.6 | 2.8 | 3.1 | 3.3 | 3.5 | 3.7 | 3.9 | 4.0 |
| 20A | 0.8 | 1.1 | 1.6 | 2.0 | 2.3 | 2.6 | 2.8 | 3.1 | 3.3 | 3.5 | 3.7 | 3.9 | 4.0 | 4.2 |
| 25A | 0.8 | 1.1 | 1.6 | 2.0 | 2.3 | 2.6 | 2.8 | 3.1 | 3.3 | 3.5 | 3.7 | 3.9 | 4.0 | 4.2 |
| 32A | 1.3 | 1.9 | 2.7 | 3.3 | 3.8 | 4.2 | 4.7 | 5.5 | 5.4 | 5.7 | 6.0 | 6.3 | 6.6 | 6.9 |
| 40A | 1.3 | 1.9 | 2.7 | 3.3 | 3.8 | 4.2 | 4.7 | 5.5 | 5.4 | 5.7 | 6.0 | 6.3 | 6.6 | 6.9 |
| 50A | 2.4 | 3.5 | 4.9 | 6.0 | 7.0 | 7.8 | 8.5 | 9.2 | 9.9 | 10.5 | 11.0 | 11.6 | 12.1 | 12.6 |