

# AL-300,301

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 products	
Diaphragm	Non-leakage		



3  
Safety Relief Valve

## ■Features

1. Mainly be used at the outlet side of PRV for alarming, compact boiler, each pressure vessel or instrumentation machine etc...
2. The trim parts (valve, valve seat) of AL-301 is stainless steel material with outstanding corrosion resistance.

## ■Specifications

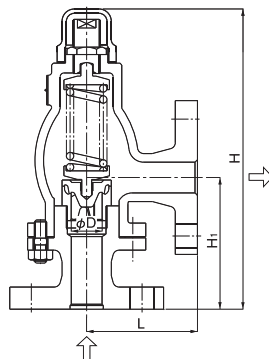
Model	AL-300	AL-301
Structure	Closed type	
Application	Steam	
Working pressure	0.05-1.0 MPa	0.05-1.6 MPa
Maximum temperature	220°C	
Material	Valve case	
	Ductile cast iron	
	Spring case	
	Ductile cast iron	
Valve, valve seat	Cast bronze	Stainless steel
	Connection	
	JIS 10K FF flanged	JIS 10K FF flanged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

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

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

## ■Dimensions and Weights

Nominal size	Dimension (mm)				Flow area $\pi D^2 l$ (mm <sup>2</sup> )	Weight (kg)
	L	H <sub>1</sub>	H	D		
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 AL-300 · 301

· 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	1646

■ Certified Capacity Table for AL-300T · 301T

· For air (20°C) <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
15A	84	109	159	213	268	322	377	432	486	541	595	650	704	759
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> (m<sup>3</sup>/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
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	4.2
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	5.0	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	5.0	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

· Please refer to P. 12 for the calculation procedure for nominal size selection.