

AL-5

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		

■Features

1. Due to lift lever mechanism a discharge inspection can be manually performed at more than 75% of the opening pressure.

■Specifications

Model	Standard	Trim SUS
Structure	Open type with a lever	
Application	Steam	
Working pressure	0.05-1.0 MPa	0.05-1.5 MPa
Maximum temperature	220°C	
Material	Valve case	Ductile cast iron
	Spring case	
	Valve, valve seat	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.8-80 for set pressure range.

■Dimensions

Nominal size	Dimension (mm)				Flow area $\pi D_L^2 / 4$ (mm ²)
	L	H ₁	H	D	
20A	90	75	276	21	34.6
25A	95	90	295	25	49.1
32A	100	95	331	35	96.2
40A	110	105	347	40	125.6
50A	115	110	388	50	196.4

■AL-5 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
20A	27	35	51	69	87	104	121	138	155	172	189	206	222	239	256	273
25A	38	50	73	98	123	148	172	196	220	244	268	292	316	340	364	387
32A	76	98	143	192	241	290	337	384	431	478	525	572	619	666	713	759
40A	99	128	186	250	315	378	440	502	563	625	686	748	809	870	931	991
50A	155	201	292	392	494	592	689	785	881	977	1073	1169	1265	1360	1456	1551

<Boiler 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
20A	26	34	50	66	83	98	114	130	146	162	178	194	209	225	241	257
25A	37	49	71	94	117	140	163	185	208	230	253	275	297	320	342	365
32A	74	96	140	185	230	274	319	363	407	451	495	539	583	627	671	715
40A	96	125	183	242	301	358	416	474	532	589	647	704	762	819	876	934
50A	151	196	287	378	471	560	652	742	832	921	1012	1102	1191	1280	1371	1461

· Please refer to P.8-12 for the calculation procedure for nominal size selection.

■At the Time of Ordering

When ordering, please specify with or without lever and the material of the valve body and valve seat in addition to the set pressure.

Also please specify the usage either pressure vessel standard or boiler structure.

