

AL-140T

Features

1. Safety relief valve of all stainless steel made, offering high corrosion resistance and durability in particular.
2. Excellent airtightness ensured by the valve seat incorporating soft seat. Most suitable for applications where valve seat leakage is not tolerated.
3. Closed structure prevents fluid leakage.

Specifications

Structure		Closed type
Application		Air, Cold and hot water, Oil, Other non-dangerous fluids *
Working pressure		0.05-1.0 MPa
Maximum temperature		120°C
Material	Spring case	Cast stainless steel
	Valve, valve seat	Cast stainless steel (SCS14A)
	Adjusting spring	Stainless steel
	O-ring	FKM
Connection		JIS Rc screwed

* Please contact us when using for oil.

Dimensions and Weights

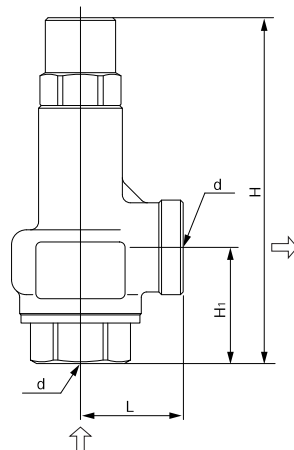
Nominal size	Dimension (mm)					Flow area $\pi D \ell$ (mm ²)	Weight (kg)
	d	L	H ₁	H	Seat diameter		
15A	Rc 1/2	34	40	128	16	20.1	0.7
20A	Rc 3/4	38	42	128.5	21	34.6	0.8
25A	Rc 1	43	51	148	26	53.0	1.1
32A	Rc 1-1/4	50	61.5	181.5	33	93.3	1.8
40A	Rc 1-1/2	60	64	205	41	135.2	2.8
50A	Rc 2	75	76	245.5	51	208.2	4.7

Soft seat is used for the trim parts!

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



Soft seat (O-ring)



Certified Capacity Table

●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
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	68	87	127	171	215	258	302	346	390	433	477
32A	114	147	214	288	362	435	509	582	656	730	803
40A	171	221	321	431	542	652	762	872	982	1093	1203
50A	264	341	496	666	836	1006	1176	1346	1516	1687	1857

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

(m³/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
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 contact us for the calculation procedure for nominal size selection.