

AL-140T, 140T-N

Soft seat type


JWWA approval
 (AL-140T-N)


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. 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. Close structure prevents fluid leakage to outside.

■ Specifications

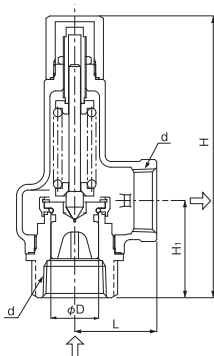
Model	AL-140T	AL-140T-N
Structure	Closed type	
Application	Air, Cold and hot water, Oil, Other non-dangerous fluids *	Cold and hot water
Working pressure	0.05-1.0 MPa	
Working temperature	5-120°C	5-100°C
Material	Spring case	Stainless steel
	Valve, valve seat	Stainless steel (SCS14A)
	Adjusting spring	Stainless steel
	O-ring	FKM
Connection	JIS Rc screwed	

* Please contact us when using for oil.

· Please refer to the chart in P.81-82 for set pressure range.

■ Dimensions and Weights

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

· AL-140T, AL-140ML, AL-140TML 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	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-140T, 140T-N, 140ML, 140TML, 140TML-N 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 refer to P. 8-12 for the calculation procedure for nominal size selection.

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