HI-LO COMBI Valve(BALEM 531-S)

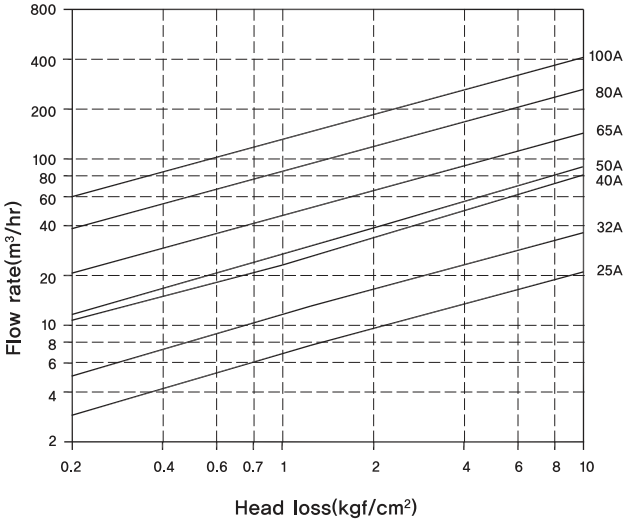
Special Features

- Hydraulic level control valves by differential pressure and buoyancy of float.
- Stainless steel main valve-suitable for demineralizing water control.
- Operates mechanically independent from any external power sources.
- Easy to install without additional pipes.
- More safe in high pressure and stronger in water hammer by differential pressure being applied to piston operating system.

Hi-Lo Combi Valve (BALEM 531-S) is progressed in performance of BALEM 421 and 531, has great flux quality using efficient internal design, and can control high and low water level.

All materials are stainless steel, so the valve can be used not only controlling high and low level but also controlling in drinking water and demineralizing water.

Flow Chart



Patents

- Korea Patent No. 0839207
- Korea Utility No. 0207682

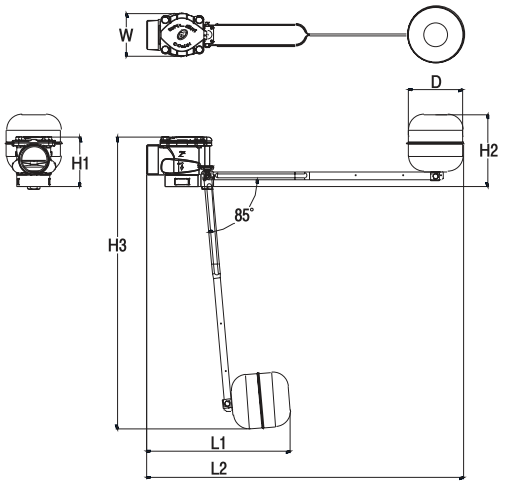
Applications

- Substitute for level control valve such as floating valve, motorized valve, and solenoid valve installed under ground / roof top water reservoir
- Substitute for mechanical valve and electrodes for high and low water level control
- For water level control at various types of oil tank

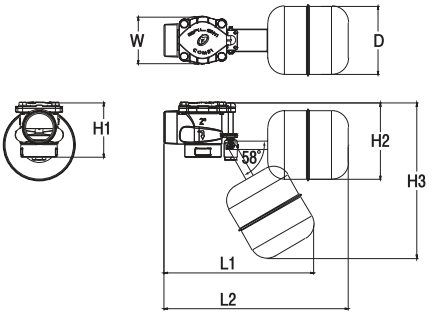
Specifications

BALEM 531-S							
Model No.	531-S-025	531-S-032	531-S-040	531-S-050	531-S-065	531-S-080	531-S-100
Size	25A(1″)	32A(1 1/4″)	40A(2 1/2″)	50A(2″)	65A(2 1/2″)	80A(3″)	100A(4″)
Operating Pressure	0.05~0.98 MPa(0.5~10kgf/㎠)						
Testing Pressure	1.72 MPa(17.5kgf/㎠)						
Media	Water, Oil(Order-Made)						
	Temperature : 0℃~80℃						
End Connections	Male threaded : KSPT(Standard) / N.P.T, Flanged(Optional Order)						

Dimensions



For high & low water level control



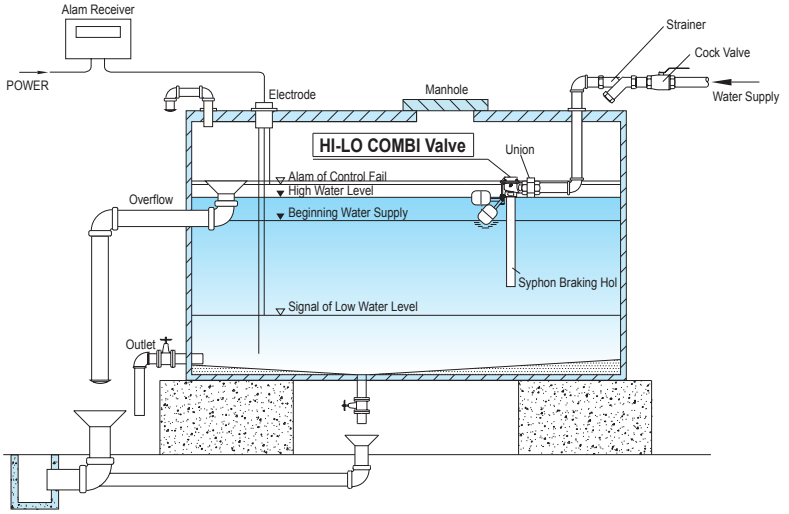
For cooling tower

For high & low water level control (mm)

Size	H1	H2	H3	W	L1	L2	D(Ø)
25A	64	130	563	58	253	600	110
32A	75	135	569	72	266	614	
40A	80	136	573	80	272	619	
50A	100	145	584	85	286	634	
65A	114	156	587	98	306	653	
80A	145	165	609	120	329	677	
100A	167	178	618	145	361	709	

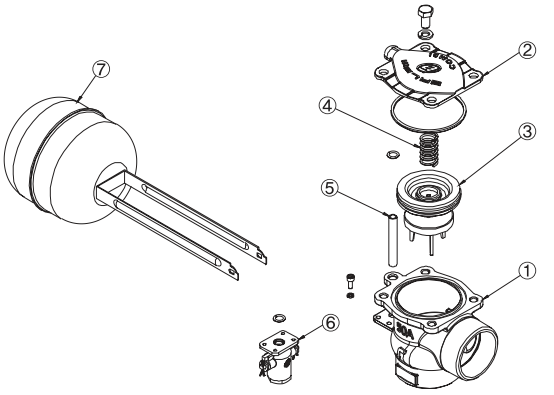
For cooling tower (mm)

Size	H1	H2	H3	W	L1	L2	D(Ø)
25A	64	118	262	58	238	300	124
32A	75	124	268	72	251	314	
40A	80	128	272	80	257	319	
50A	100	139	282	85	271	334	
65A	114	143	286	98	291	353	
80A	145	164	307	120	314	377	
100A	167	173	316	145	346	409	



Installed Alone

Materials



No.	Components	Materials
1	Body	SSC13
2	Cover	SSC13
3	Piston Assembly	SSC13, N.B.R(S.R)
4	Spring	STS304
5	Pilot Tube	STS304
6	Pilot body Assembly	SSC13, N.B.R, P.T.F.E
7	Float Assembly	STS304

Installation Recommendations

- Refer to the standard piping diagram when installing the valve.
- Before install, you have to flush pipeline for inside clean.
- For early detection you need an alarm system.
- The valve should be installed near manhole for maintenance.
- Do not twist and turn with holding Float Assembly.
- To prevent waves filling, an induction tube with siphon breaking hole must be installed.
- Connection flange is optional order.