

YAW-3S, 3F Level Control Valve

The type YAW-3S and 3F water level control valves were developed for the exclusive purpose of controlling the water level of a wide array of water tanks. They are optimal water level control valves that have a simple structure and are small sized and lightweight, thereby ensuring easy handling and installation.

Features

- Embedded strainer prevents various foreign substances into the pipeline.
- No external pipeline, kept warm easily & no concerns of freezing damage.
- Large capacity make suitable for apartment water & elevated tanks.
- EM mark acquired.

Specifications

Type	YAW-3S	YAW-3F
Size	32A~40A	50A~150A
Applicable pressure	Maximum 1,0MPa	
Minimum differential pressure in the inlet and outlet side of the valve	0,034MPa	
Fluid temperature	5~80℃	
Function	On and off operation by a pilot solenoid valve	
Solenoid valve	AC220V, 50/60HZ	
Applicable fluid	Drinking water, fresh water, industrial water, agricultural water	
End connection	KS PT SCREW	KS 10K FF FLANGE
Materials	Body	GC200
	Disc, seat	NBR, CAC406
Hydraulic test pressure	1,5MPa	

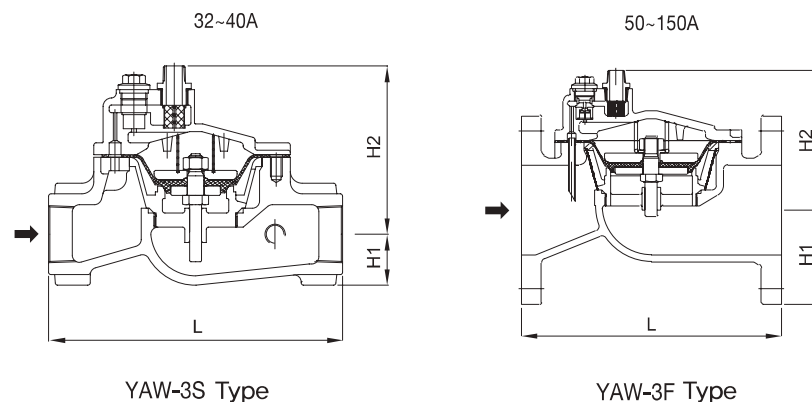
► Install a strainer (40 MESH or more) on the leaflet during installation of the valve.

Dimensions

(mm)

Size	L	H1	H2	Cv	Weight(kg)	Notes
32A(1¼")	248	43	135	30	14	Screwed type
40A(1½")	248	43	135	35	15	
50A(2")	248	77,5	135	40	17	Flanged type
65A(2½")	270	87,5	138	62	22	
80A(3")	270	92,5	138	90	22	
100A(4")	288	105	148	140	27	
125A(5")	400	125	225	220	60	
150A(6")	400	140	225	315	69	

Dimensional drawing

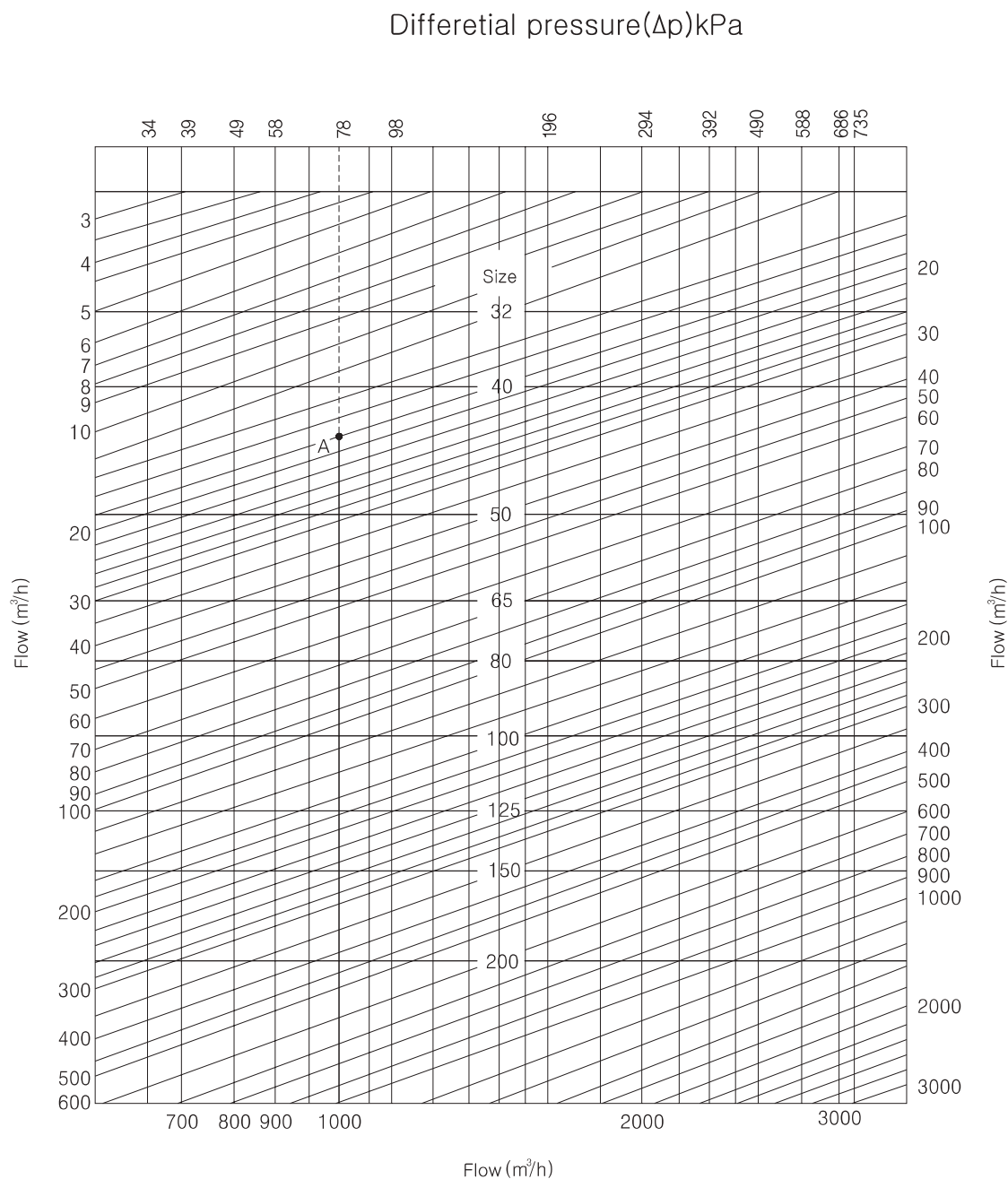


YAW-3S Type

YAW-3F Type

YAW-3S, 3F Level Control Valve

Chart on selecting a size



How to select the size of valve by the chart

Example) If the supply pressure is 3 kg/cm²g,

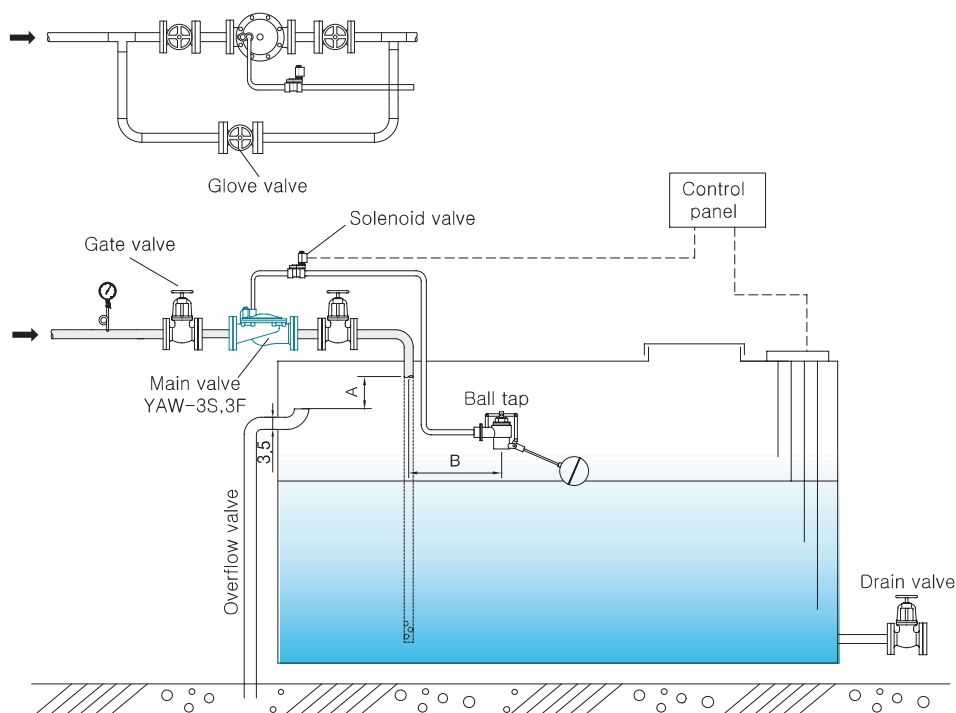
Back pressure is 2.2 kgf/cm²g,

Flow is 18 m³/h,

Then the differential pressure is 0.8 kgf/cm²g. Since ΔP is at the point of intersection between the line of 0.8 kgf/cm²g and a flow of 18 m³/h, the valve's size should be selected as 50 in order to avoid harmful stress on the pipeline.

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Application Diagram (Example)



Cautions for pipeline installation

1. A bypass pipeline must be installed.
2. In case of installation in an underground water tank, install a pump or sufficiently pump out water to prevent damages caused by water overflow.
3. The distance of "A" should be at least 1.5 times (minimum 50 mm) the pipe diameter.
4. In case of installation of a ball tap, make the distance of "B" as long as possible (minimum 1 m) to prevent damage to the ball tap resulting from irregular water waves. The ball tap should be installed in close proximity to a manhole for easy repair and inspections.
5. The overflow pipeline should be connected to an underground drainage system. (Prevents damage caused by overflow.)
6. In terms of the end connection between the valve's body and ball tap, a union should be used to ensure easy disassembly and inspection

Cautions for operation

1. Between installation and operation, completely remove foreign substances within the pipeline by blowing them out through the bypass pipeline.
2. If the main valve is not operating due to a power failure or breakdown of the ball tap, use the valve by opening the ball valve and consult Samyang technicians for further instructions. (The ball valve should be closed unless there is an emergency situation.)

Diagram 2. Solenoid valve connecting circuit

