AUTOMATIC WATER FEEDING VALVE 50mm, 80mm(2inch, 3inch)

Eliminating human intervention

The AV AUTOMATIC WATER FEEDING VALVE is designed as follows.
Its sensor compares the water level with upper and lower water level limits for rice plant growth which are set on the sensor. Based on the results of the comparison, the sensor controls the AUTOMATIC WATER FEEDING VALVE as required through a tube connected with the body to automatically feed or stop water.
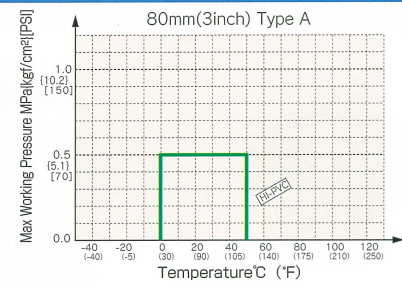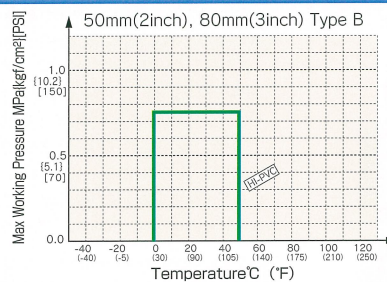
FEATURES

· The AUTOMATIC WATER FEEDING VALVE saves irrigation water, thus relieving water shortage.
· The valve properly controls water supply and reduces labor.
  This in turn means that working hours are shortened.
· The valve can manually be operated to water fields, orchards, etc.
· The valve can be used in various of applications, such as intermittent irrigation, cold-weather damage prevention, and so on.
· The valve operates on water pressure from a pipeline without electric power.
· The valve prevents a fertilizer and agricultural chemical agent from flowing out of fields, thus inhibiting pollution of lakes and ponds.
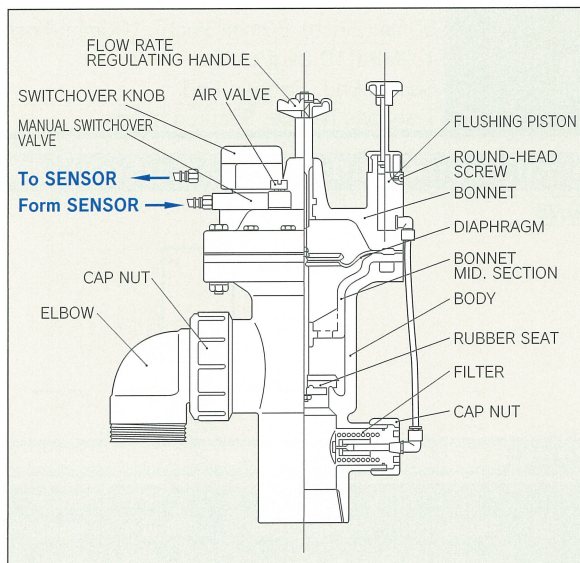
SPECIFICATIONS

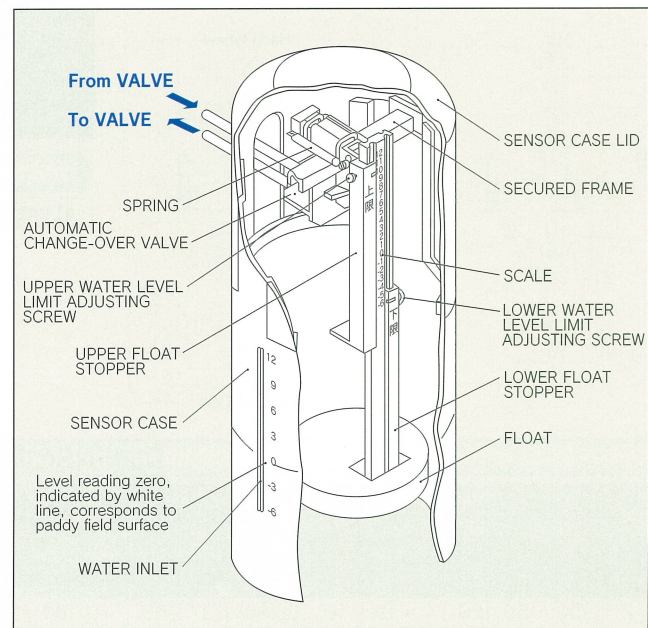| Body material	Valve body: High impact Polyvinyl Chloride(HI-PVC)		
Nominal Size	50mm(2inch)		80mm(3inch)
Operating Pressure	0.02 - 0.75MPa {0.2 - 7.7kgf/cm^2}	Type A	0.015 - 0.5MPa{0.15 - 5.1kgf/cm^2}
		Type B	0.03 - 0.75MPa{0.3 - 7.7kgf/cm^2}
Max. Working Pressure	1.0MPa {10.2kgf/cm^2}	Type A	0.5MPa{5.1kgf/cm^2}
		Type B	1.0MPa{10.2kgf/cm^2}
Water Level Adjustment	−6cm - 12cm		
End Connectors	Threaded End, Socket End Flanged End(conforming to City Water Standards and JIS)		

WORKING PRESSURE VS. TEMPERATURE

AUTOMATIC WATER FEEDING VALVE

50mm(2inch), 80mm(3inch) Type B

80mm(3inch) Type A

▼ Valve body

FLOW RATE REGULATING HANDLE
SWITCHOVER KNOB
AIR VALVE
MANUAL SWITCHOVER VALVE
To SENSOR
Form SENSOR
CAP NUT
ELBOW
FLUSHING PISTON
ROUND-HEAD SCREW
BONNET
DIAPHRAGM
BONNET MID. SECTION
BODY
RUBBER SEAT
FILTER
CAP NUT

▼ Sensor

From VALVE
To VALVE
SPRING
AUTOMATIC CHANGE-OVER VALVE
UPPER WATER LEVEL LIMIT ADJUSTING SCREW
UPPER FLOAT STOPPER
SENSOR CASE
Level reading zero, indicated by white line, corresponds to paddy field surface
WATER INLET
SENSOR CASE LID
SECURED FRAME
SCALE
LOWER WATER LEVEL LIMIT ADJUSTING SCREW
LOWER FLOAT STOPPER
FLOAT

Note : The connection of the AUTOMATIC WATER FEEDING VALVE comes in three types:
Threaded End, Socket End, Flanged End (City Water and JIS standards).