



HSV10 AND HS VALVES



For flood-ebb irrigation in a single pipe system

Highlights

- Filling and draining with one valve
- Manual dismantling of tables

Senmatic has developed the HSV10 and HS valves for perfect irrigation of flood-ebb benches. With the HSV10 and HS valve you can get water on the benches and drain it off again through one valve. The valve ensures a regular filling of the benches.

Exact amount of water

The HSV10 and HS valve can be delivered in different sizes, meaning the irrigation time and amount of water can be adjusted exactly for every need. It is possible manually to disconnect a bench. If a bench should not be

irrigated, for example when there are no plants on the bench, you just turn the tap on the built-in ball-valve. At the same time, you avoid an inconvenient increase in air humidity caused by evaporation from an empty bench.

Self-cleaning

The HSV10 and HS valve are equipped with a dosing ball, which closes the drain when the water runs onto the benches, and closes the inlet when the irrigation stops, and the water runs off the benches. The run-off rinses the HSV10 and HS valve. The irrigation system will neither be blocked by any dirt, nor will the amount of water on the bench change when having the same irrigation time.

Especially developed for re-circulation systems

The part of the valve where the water runs on and off the bench is made as a strainer. This means only a very small amount of sphagnum and dirt will go back in the return basin.

Return valve

With the Senmatic recycling system, the water is pumped from the basin into the fertilizer mixer, if required fresh water and fertilizer is added, and from there pumped out to the benches and distributed by means of bench valves. When the filling of the benches stops, the water is drained off the benches and conducted through the Senmatic return valve back to the basin.



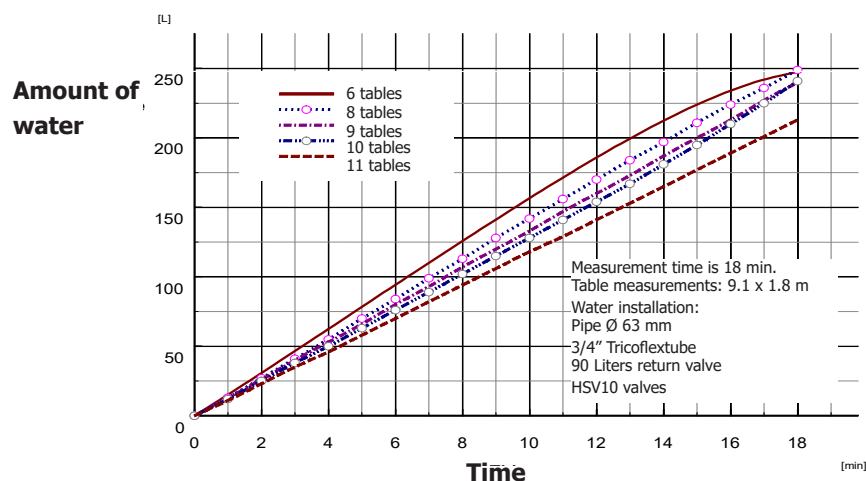
SPECIFICATIONS / HSV10 AND HS VALVES

Output	Flow (l/min)	Pressure (bar)
HS		
HS valve type black top (10 L)	12.2	1.0
	16.1	2.0
	17.3	3.0
HS valve type yellow top (7.5 L)	8.2	1.0
	10.6	2.0
	11.0	3.0
HS valve type red top (5.0 L)	4.6	1.0
	4.8	2.0
	4.4	3.0

Return valve	Flow (L/min)
Return valve 90	90
Return valve 45	45

HSV10		
HSV valve type 5 mm nozzle (black)	16.9	1.5
	19.7	2.0
	19.1	2.5
	20.8	3.0
	22.2	3.5
HSV valve type 3 mm nozzle (red)	6.0	1.5
	6.75	2.0
	7.83	2.5
	8.45	3.0
	8.45	3.5

Total amount of water drained at different groups sizes



The return valve comes in 2 different sizes, 45 and 90 liters/minutes.

The diagram shows the total amount water drained in a given time with different sizes of groups in a specific system.

The amount of drained water running to the return valve depends on the composition of the system and is a key factor for the choice of return valve.

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