

Alpheus AH Regulator

Key Features & Benefits:

- Provides River / Attenuation Dam flow control.
- Maintains flow rate during head variation.
- Flow rates up to 22,000 l/s per unit available.
- Robust construction in either grade 304 or 316L stainless steel.

How We Create Value:

- Reduces downstream flood risk.
- Optimises capacity of system.
- Minimises upstream storage.
- Reduces cost of upstream attenuation.
- Reduces 'drain down time' of attenuation systems.



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Over recent years there has been an increase in flooding within the UK. It is increasingly necessary to regulate the run-off from developments in to local watercourses, or even regulate flows within rivers to prevent / reduce downstream flooding.

The Alpheus AH can be used for controlling flows within Attenuation pods / watercourse systems. The standard design can control an impounded head of up to 6 m but larger heads can be provided by special design.

Robust construction in either grade 304 or 316L stainless steel.

Compact design enabling economy of receiving / dam structure.

Provides constant discharge without the need for external power.

The following table provides the standard range of units; however, specials can be provided to suit particular scheme requirements.

The standard rectangular opening is suitable for stream profiles.

Nominal Opening Dimensions mm	Max Head Standard Unit m	Flow Rate Range	
		From l/s	To l/s
1000 x 1000	6	2000	5600
1100 x 1100	6	2500	6800
1200 x 1200	6	2900	8000
1300 x 1300	6	3400	9400
1400 x 1400	6	4000	12300
1500 x 1500	6	4600	12300
1500 x 1600	6	5200	13900
1700 x 1700	6	5800	15600
1800 x 1800	6	6500	17400
1900 x 1900	6	7300	19300
2000 x 2000	6	8000	21200

The flow rate can be adjusted by a minimum $\pm 20\%$ by internal adjustment facility, permitting a large degree of tuning following site installation if required.