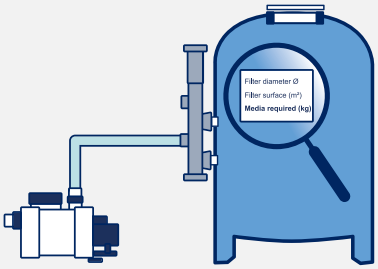
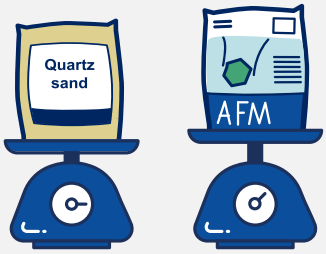
1 Before the installation, **determine the total quantity of AFM® you need**

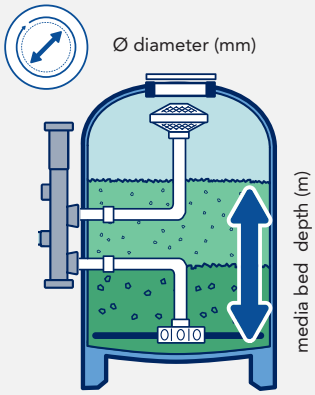




Quantity of sand x 0.85 = Quantity of AFM®

- **Check how much sand is required for your filter according to manufacturer's instructions**

- **Determine the total quantity of AFM® you need.**
  AFM® has a lower bulk density than sand (1,250kg/m³) and quantities by weight should be reduced by 15%.
  25kg of sand = 21kg of AFM®



- **If no indications are given on your filter on the amount of filter media required, do the following calculations:**

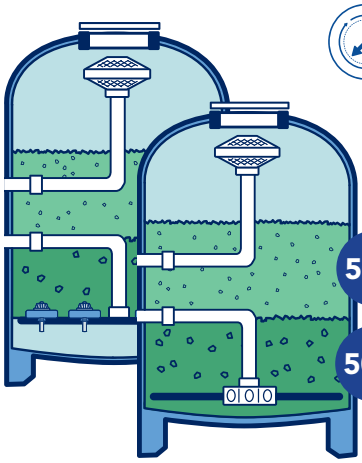
1. **Calculate filter surface area (m²)** = radius (m) x radius (m) x 3,14
2. **Calculate filter media volume (m³)** = filter surface area (m²) x media bed depth (m)
3. **Calculate quantity of AFM® (kg)** = 1,250 kg/m³ x filter media volume (m³)

E.g. Filter diameter = Ø1600mm. Media bed depth = 1.2m

Filter surface = 0.8 m x 0.8 m x 3.14 = 2.00 m²
Filter media volume = 2.00 m² x 1.2 m = 2.4 m³
Quantity of AFM® = 1'250 kg/m³ x 2.4 = 3'000 kg

2 According to filter size, **use the following AFM® grades**

< 800mm

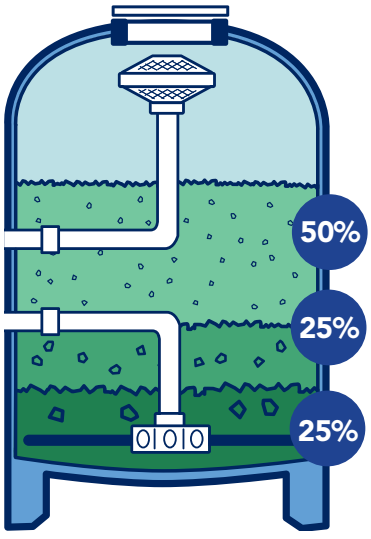


50% GRADE 1 ng 0.4 - 0.8 mm

50% GRADE 2 ng 0.7 - 2.0 mm

For smaller filters (< Ø 800 mm diameter) and for all filters with nozzle plate beds, irrespective of filter diameter: Use 50% of AFM® ng Grade 1 and 50% of AFM® ng Grade 2

> 800mm



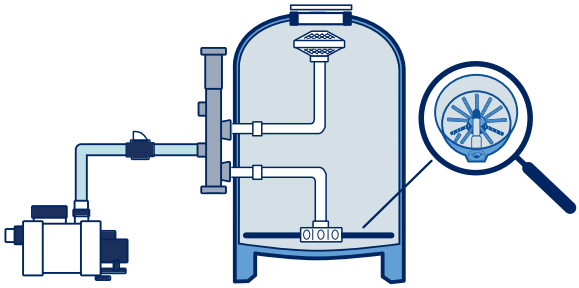
50% GRADE 1 ng 0.4 - 0.8 mm

25% GRADE 2 ng 0.7 - 2.0 mm

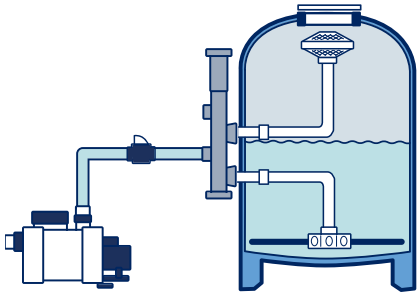
25% GRADE 3 2.0 - 4.0 mm

For larger diameter filters (> Ø 800mm)
Use 50% of AFM® ng Grade 1, 25% of AFM® ng Grade 2 and 25% AFM® Grade 3. AFM® Grade 3 is required to cover big filter's laterals and, to ensure adequate water flow.

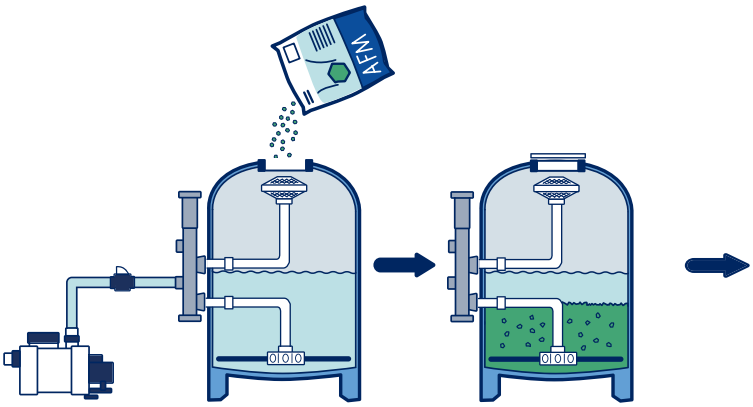
3 Filter installation



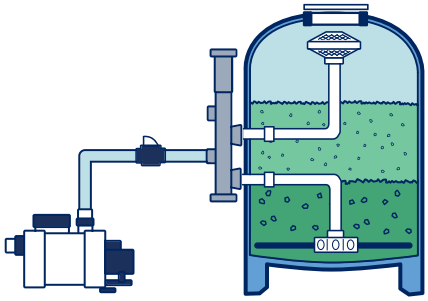
Before filling the filter with AFM®, check your filter's laterals and make sure they are not damaged.



Half fill the filter with water to protect the laterals before pouring AFM® into the filter

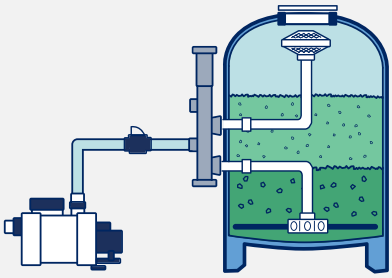


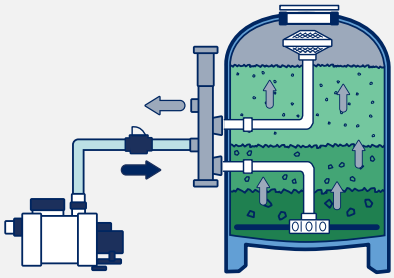
Fill up the filter with AFM® grades as determined in 1 and 2 above



Your filter is ready!

4 Filter commissioning

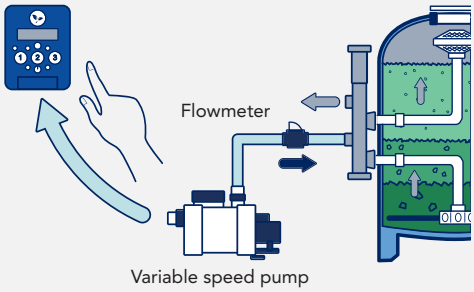




After installation, let AFM® soak to get it wet or run pool equipment on "filtration" for >24 hours to wet AFM®

Proceed to first backwash >24 hours after installation at a velocity of 40 to 50 m/h ($m^3/h/m^2$)

For the best water quality and energy savings



- **Use AFM®, preferably with a variable speed pump and set filtration speeds between 15 to 30 m/h :** Calculation: Filtration speed (m/h) x filter surface (m^2) = Filtration flowrate (m^3/h). Adjust flowrate (speeds n°1 & n°2) on your pump using a flowmeter.

- **Backwash filter at least once a week at a velocity of >40m/h for 3 to 5 minutes.** Calculation: Backwash speed (m/h) x filter surface (m^2) = Backwash flowrate (m^3/h). Adjust flowrate (speed n°3) on variable speed pump using a flowmeter.