

# Information require when choose a filter housing and filter media.

In order to choose filter housing correctly, the following informations require.  
The more information we have, the more precize the housing and filter media we recommend.

- 1) What is the operating and maximum flow rate require?  
Example : maximum flow rate 50m<sup>3</sup>/hr require. We will size a housing with flow rate average about 30% higher than 50m<sup>3</sup>/hr, a housing able to allow maximum flow rate 65m<sup>3</sup>/hr. This is due to, the more sediment/particle captured by the filter media, the flow rate will keep on decrease while filtering.
- 2) What is the filtering liquid (media)?  
Example : normally a 10", 1 micron filter cartridge's average flow rate is about 1m<sup>3</sup>/hr for cleaner and lower viscosity liquid. But if the filtering liquid is high sediment river water or oil, the flow rate could be much lower.
- 3) What is the operating and maximum temperature of the liquid (media)?  
Example : For ambient or below 50° C liquid, silicon seal can be use, but if the temperature is above 50° C, viton seal is recommended.
- 4) How viscosity is the liquid (media)?  
The higher viscosity, the lower flow rate allow for filter media.
- 5) What is the pH of the liquid (media)?  
For neutral or almost neutral liquid, housing with SUS 304 wetted part and silicon seal can be use.  
Strong pH liquid, example : acidic liquid or sea water, SUS 316L wetted part with viton seal is recommended.
- 6) What is the operating pressure and maximum pressure require?  
The higher pressure, the thicker housing body, flange and other parts require.
- 7) Liquid (media) analysis report available?  
We can get data like pH, hardness, silica and other in the report.  
This will help to choose a right filtration media and filter housing.
- 8) What usage of the after filtered liquid (media)?  
Example : For irrigation, 5 or 10 micron filter bag is good enough to remove particles which will clog the irrigation nozzles. In electronic industries, for wafer washing, the final filter housing may need in SUS 316L material and the filtration micron size may as low as 0.2 or 0.1 micron.
- 9) The filter housing to be use for which industries?  
Example : final process of pharmaceutical or F & B industries may need SUS 316L material housing with triclover connections. While SUS 304 is good enough for normal coarse filtration.
- 10) What is the filtration media (filter cartridge or filter bag) to be use?  
We will propose according to your requirement, or we will recommend the right filter housing and filter media base on the above information.
- 11) What is the filtration micron size require?  
We will propose according to your requirement, or will recommend the right micron size base on the above information.
- 12) What is the material of the piping which going to connect to the filter housing?  
Either the above infomation require is complete or lack of information, this will help us to understand better and recomend the right filter housing and filter media.