

Case History no. 16 – Vacuum Filter Using Industrial Cartridges

Duty: - protecting vacuum pump and environment

Problem:-

A leading supplier of vacuum pumps to the pharmaceutical industry had a requirement for a cartridge filter housing that would be suitable for a 2" vacuum line complete with 20-micron cartridges.

Solution: -

We had to supply multi cartridge housing complete with a closure that would seal under the vacuum and would not bypass.

For this reason we could not use the traditional low cost vee band clamp. We had to utilise a housing with 3 screw down Rathman clamps. These are often used on large vessels in the pharmaceutical industry.

We supplied a 4 round x 20" stainless steel, single open-ended industrial quality housing with Rathman clamps, 2" BSPM connections.

Cartridges = 20", 20 micron high surface area pleated with single open-ended code 8 push in double o-ring seal for ease of fitting and assurance of a high integrity non bypassing seal.

Note: A 20-micron absolute rated on liquid cartridge has a rating of approx. 2-micronon gaseous duty.